BROCADE

YANG REFERENCE GUIDE

Brocade SLX-OS YANG Reference Guide, 16r.1.01

Supporting the Brocade SLX 9850 Router

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Document conventions

The document conventions describe text formatting conventions, command syntax conventions, and important notice formats used in Brocade technical documentation.

Notes, cautions, and warnings

Notes, cautions, and warning statements may be used in this document. They are listed in the order of increasing severity of potential hazards.

NOTE
A Note provides a tip, guidance, or advice, emphasizes important information, or provides a reference to related information.

ATTENTION
An Attention statement indicates a stronger note, for example, to alert you when traffic might be interrupted or the device might reboot.

CAUTION
A Caution statement alerts you to situations that can be potentially hazardous to you or cause damage to hardware, firmware, software, or data.

DANGER
A Danger statement indicates conditions or situations that can be potentially lethal or extremely hazardous to you. Safety labels are also attached directly to products to warn of these conditions or situations.

Text formatting conventions

Text formatting conventions such as boldface, italic, or Courier font may be used to highlight specific words or phrases.

Format	Description
bold text	Identifies command names.
	Identifies keywords and operands.
	Identifies the names of GUI elements.
	Identifies text to enter in the GUI.
italic text	Identifies emphasis.
	Identifies variables.
	Identifies document titles.
`Courier font`	Identifies CLI output.

Format	Description
	Identifies command syntax examples.

Command syntax conventions

Bold and italic text identify command syntax components. Delimiters and operators define groupings of parameters and their logical relationships.

Convention	Description
bold text	Identifies command names, keywords, and command options.
italic text	Identifies a variable.
value	In Fibre Channel products, a fixed value provided as input to a command option is printed in plain text, for example, **--show** WWN.
[ ]	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.
{ **x** | **y** | **z** }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options. In Fibre Channel products, square brackets may be used instead for this purpose.
x | **y**	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, for example, passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, *member*[*member*...].
\	Indicates a "soft" line break in command examples. If a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

Brocade resources

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Click the **Support** tab and select **Document Library** to access documentation on MyBrocade or www.brocade.com You can locate documentation by product or by operating system.

Release notes are bundled with software downloads on MyBrocade. Links to software downloads are available on the MyBrocade landing page and in the Document Library.

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- For questions regarding service levels and response times, contact your OEM/solution provider.

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Supported hardware and software

In those instances in which procedures or parts of procedures documented here apply to some devices but not to others, this guide identifies exactly which devices are supported and which are not.

Although many different software and hardware configurations are tested and supported by Brocade Communications Systems, Inc. for SLX-OS Release 16r.1.01, documenting all possible configurations and scenarios is beyond the scope of this document.

The following hardware platforms are supported by this release:

- Brocade SLX 9850-4 router
- Brocade SLX 9850-8 router

To obtain information about other Brocade OS versions, refer to the documentation specific to that version.

What's new in this document

This document is released in conjunction with SLX-OS 17r.1.01.

New Modules

- brocade-aaa-ext
- module: brocade-RAS-operational
- brocade-tunnels-ext

Modified Modules

- module: brocade-fc-auth (removed)
- brocade-firmware
- brocade-interface
- brocade-mac-access-list
- brocade-mpls-operational
- module: brocade-mpls
- brocade-nsm-operational
- brocade-qos-mls
- brocade-system-capabilities
- brocade-tunnels

Deleted Modules

- module: brocade-fc-auth

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YANG overview

YANG is a data modeling language. YANG is used for modeling configuration and state data for manipulation by using remote procedure calls (RPCs).

Refer to RFC 6020, YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF) for full details of how to use YANG, and for a reference of all the features of the YANG language.

Using the SLX-OS YANG Reference Guide

The *Brocade SLX -OS YANG Reference Guide* is a reference for YANG modules supported by SLX-OS 17r.1.00.

Each module provides a data model for a specific part of the system. It models the data using one or more of the following entities:

- Top-level nodes and their subtrees
- Subtrees that augment nodes in other YANG modules
- Custom RPCs
- Custom actions that make use of the proprietary action mechanism

The client will receive notification as documented in Notifications section for certain events. (You must register in order to receive notifications from the server.)

For each module, this manual provides a high-level description of what the module does. It also provides the structure of each top-level node, external augmentation, custom RPC, and action.

The **pyang** command with the **-f tree** option is used to illustrate the YANG code. This utility resolves the uses and augments statements to provide an easy-to-read view of the structure of the YANG code. The following example shows part of the module.

```
module:
   +--rw interface
   |  +--rw fc-port [name]
   |     +--rw name                interface-type
   |     +--rw fc-speed-cfg?       fc-speed-cfg-type
   |     +--rw fill-word?          fc-fillword-cfg-type
   |     +--rw vc-link-init?       fc-vc-link-init-cfg-type
   |     +--rw isl-r_rdy-mode?     empty
   |     +--rw trunk-enable?       empty
   |     +--rw shutdown?           empty
```

In addition to showing the structure, the output of the **pyang -f tree** command provides information about each node, as shown in the table below. Field definitions and possible values are shown in the following table.

TABLE 1 Field descriptions

Field	Value
status	Status of the node can be one of the following values: + Current x Deprecated

TABLE 1 Field descriptions (continued)

Field	Value
	o Obsolete
status	The type of information can be one of the following values: rw Read-write (The node contains configuration data) ro Read-only (The node contains operational data) -x RPC statement -n Notification (not supported)
flags	The name of the node can be further modified by one of the following values: (name) Choice node :(name) Case node prefix:name Augmented from external module
name	The following optional values can be used: ? Optional leaf or presence container * Leaf list [keys] Keys for a list
type	The type of the leaf or leaf-list. If the specified type is other than one of the basic types, then the type is defined in a typedef statement in the .yang file.

YANG Modules

brocade-aaa

Provides a data model for configuring authentication, authorization, and accounting (AAA).

This module supports authentication performed by a local, RADIUS, TACACS, or LDAP server.

Top-level container

```
module: brocade-aaa
   +--rw aaa-config
   |  +--rw aaa
   |     +--rw authentication
   |     |  +--rw login
   |     |     +--rw first?    enumeration
   |     |     +--rw second?   enumeration
   |     +--rw accounting
   |        +--rw exec
   |        |  +--rw defaultacc
   |        |     +--rw start-stop
   |        |        +--rw server-type?   acc_srv_type
   |        +--rw commands
   |           +--rw defaultacc
   |              +--rw start-stop
   |                 +--rw server-type?   acc_srv_type
   +--rw username [name]
   |  +--rw name                string
   |  +--rw user-password       user-passwd
   |  +--rw encryption-level?   enumeration
   |  +--rw role                string
   |  +--rw desc?               string
   |  +--rw enable?             username-enable
   |  +--rw expire?             date
   |  +--rw access-time?        string
   |  +--rw end-time?           string
   +--rw service
   |  +--rw password-encryption?   empty
   +--rw user
   |  +---x unlock
   |     +--ro input
   |     |  +--ro username    string
   |     +--ro output
   |        +--ro Result?   string
   +--rw role
   |  +--rw name [name]
   |     +--rw name    string
   |     +--rw desc?   string
   +--rw radius-server
   |  +--rw host [hostname use-vrf]
   |     +--rw hostname                 string
   |     +--rw use-vrf                  common-def:vrf-name
   |     +--rw radius-server-options
   |        +--rw auth-port?          rad-auth-port
   |        +--rw protocol?           rad-auth-protocols
   |        +--rw key?                string
   |        +--rw encryption-level?   enumeration
   |        +--rw retries?            uint32
   |        +--rw timeout?            uint32
   +--rw tacacs-server
   |  +--rw host [hostname use-vrf]
   |  |  +--rw hostname                 string
   |  |  +--rw use-vrf                  common-def:vrf-name
   |  |  +--rw tacacs-server-options
   |  |     +--rw port?              tac-auth-port
   |  |     +--rw protocol?          tac-auth-protocols
   |  |     +--rw key?               string
   |  |     +--rw encryption-level?  enumeration
   |  |     +--rw retries?           uint8
```

```
|  |     +--rw timeout?            uint8
|  +--rw tacacs-source-ip?   srcip_type
+--rw ldap-server
|  +--rw host [hostname use-vrf]
|  |  +--rw hostname               string
|  |  +--rw use-vrf                common-def:vrf-name
|  |  +--rw ldap-server-options
|  |     +--rw port?      ldap-auth-port
|  |     +--rw retries?   uint8
|  |     +--rw timeout?   uint8
|  |     +--rw basedn?    string
|  +--rw maprole
|     +--rw group [ad-group]
|        +--rw ad-group       string
|        +--rw switch-role    string
+--rw password-attributes
|  +--rw min-length?              uint32
|  +--rw max-retry?               uint32
|  +--rw max-lockout-duration?    uint32
|  +--rw character-restriction
|  |  +--rw upper?          uint32
|  |  +--rw lower?          uint32
|  |  +--rw numeric?        uint32
|  |  +--rw special-char?   uint32
|  +--rw admin-lockout-enable?    empty
+--rw banner
|  +--rw login?      string
|  +--rw motd?       string
|  +--rw incoming?   string
+--rw rule [index]
|  +--rw index        uint32
|  +--rw action?      rule-action
|  +--rw operation?   rule-operation
|  +--rw role?        string
|  +--rw command
|     +--rw (cmdlist)?
|        +--:(container-cmds)
|        |  +--rw enumList?                    enumeration
|        +--:(interface-a)
|        |  +--rw interface-int
|        |     +--rw interface-cont?
|        +--:(interface-c)
|        |  +--rw interface-eth
|        |     +--rw interface
|        |        +--rw ethernet-cont?
|        +--:(interface-e)
|        |  +--rw interface-eth-leaf
|        |     +--rw interface
|        |        +--rw ethernet-leaf?   interface:interface-type
|        +--:(interface-f)
|        |  +--rw interface-mgmt
|        |     +--rw interface
|        |        +--rw management-cont?
|        +--:(interface-i)
|        |  +--rw interface-pc
|        |     +--rw interface
|        |        +--rw port-channel-cont?
|        +--:(interface-j)
|        |  +--rw interface-pc-leaf
|        |     +--rw interface
|        |        +--rw port-channel-leaf?   interface:portchannel-type
|        +--:(interface-k)
|        |  +--rw interface-vlan
|        |     +--rw interface
|        |        +--rw vlan-cont?
|        +--:(interface-l)
|        |  +--rw interface-vlan-leaf
|        |     +--rw interface
|        |        +--rw vlan-leaf?   interface:vlan-type
|        +--:(interface-m)
|        |  +--rw interface-management-leaf
|        |     +--rw interface
```

```
|        |        +--rw management-leaf?   interface:man-interface-type
|        +--:(interface-n)
|        |  +--rw interface-loopback
|        |     +--rw interface
|        |        +--rw loopback-cont?
|        +--:(interface-o)
|        |  +--rw interface-loopback-leaf
|        |     +--rw interface
|        |        +--rw loopback-leaf?   loopback-intf:intf-loopback-port-type
|        +--:(interface-p)
|        |  +--rw interface-ve
|        |     +--rw interface
|        |        +--rw ve-cont?
|        +--:(interface-q)
|        |  +--rw interface-ve-leaf
|        |     +--rw interface
|        |        +--rw ve-leaf?   interface:ve-type
|        +--:(copy-a)
|        |  +--rw copy-cp
|        |     +--rw copy-cont?
|        +--:(copy-b)
|        |  +--rw copy-running
|        |     +--rw copy
|        |        +--rw running-config-cont?
|        +--:(copy-c)
|        |  +--rw copy-support
|        |     +--rw copy
|        |        +--rw support-cp?
|        +--:(clear-a)
|        |  +--rw clear-cl
|        |     +--rw clear-cont?
|        +--:(clear-b)
|        |  +--rw clear-logging
|        |     +--rw clear
|        |        +--rw logging-cont?
|        +--:(clear-c)
|        |  +--rw clear-support
|        |     +--rw clear
|        |        +--rw support-cl?
|        +--:(protocol-a)
|        |  +--rw protocol-pr
|        |     +--rw protocol-cont?
|        +--:(protocol-b)
|        |  +--rw protocol-spanning
|        |     +--rw protocol
|        |        +--rw spanning-tree-cont?
|        +--:(protocol-c)
|           +--rw protocol-lldp
|              +--rw protocol
|                 +--rw lldp-cont?
+--rw root-sa
|  +--rw root
|     +--rw enable?   empty
|     +--rw access?   root_access_type
+--rw alias-config
   +--rw alias [name]
   |  +--rw name         string
   |  +--rw expansion    string
   +--rw user [name]
      +--rw name     string
      +--rw alias [name]
         +--rw name         string
         +--rw expansion    string
```

External augmentations

```
module: brocade-common-def
   +--rw clear
   |  +--rw brcd-aaa:login /*drop-node-name*/
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-aaa-ext

Provides extensions to the brocade-aaa module for returning operational state information.

RPCs

Return user information:

```
   +---x user-session-info
      +--ro output
         +--ro user-role?   string
```

Actions

```
module: brocade-common-def
   +--rw show
   |  +--rw aaa-extensions:aaa-users /*drop-node-name*/
   |  |  +--ro aaa-extensions:users
   |  |     +--ro aaa-extensions:input
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-acl-policy

This management module is an instrumentation to manage ACL policy configuration.

Top-level container

```
module: brocade-acl-policy
   +--rw acl-policy
      +--rw global-acl-policy-conf-cmds /*drop-node-name*/

         +--rw allow-conflicting-rules?   empty
         +--rw allow-duplicate-rules?     empty
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-apply-qos-mpls

This module manages apply MPLS quality of service (QoS).

External augmentations

```
module: brocade-qos-mpls
+--rw apply-qos-mpls:map-apply
         +--rw apply-qos-mpls:apply-exp-traffic-class-map-name
         |  +--rw (apply-exp-traffic-class)? /*alt-name:exp-traffic-class/
         |  |  +--:(ca-map-name-cmd1)
         |  |  |  +--rw apply-qos-mpls:map-name-cmd1?       map-name-type
         |  |  +--:(ca-all-zero-map-cmd1)
         |  |  |  +--rw apply-qos-mpls:all-zero-map-cmd1?   empty /*alt-name:all-zero-map/
         |  |  +--:(ca-default-map-cmd1) /*drop-node-name*/
         |  |     +--rw apply-qos-mpls:default-map-cmd1?    empty /*alt-name:default-map*/
         |  +--rw apply-qos-mpls:All-cmd1?            empty /*alt-name:local-All*/
         +--rw apply-qos-mpls:apply-traffic-class-exp-map-name
         |  +--rw (apply-traffic-class-exp)?
         |  |  +--:(ca-map-name-cmd2)
         |  |  |  +--rw apply-qos-mpls:map-name-cmd2?       map-name-type
         |  |  +--:(ca-all-zero-map-cmd2) /*drop-node-name*/
         |  |  |  +--rw apply-qos-mpls:all-zero-map-cmd2?   empty /*alt-name:all-zero-map/
         |  |  +--:(ca-default-map-cmd2)
         |  |     +--rw apply-qos-mpls:default-map-cmd2?    empty /*alt-name:default-map*/
         |  +--rw apply-qos-mpls:All-cmd2?            empty /*alt-name:local-All*/
         +--rw apply-qos-mpls:apply-dscp-exp-map-name
         |  +--rw (apply-dscp-exp)?
         |  |  +--:(ca-map-name-cmd3)/*drop-node-name*/
         |  |  |  +--rw apply-qos-mpls:map-name-cmd3?       map-name-type
         |  |  +--:(ca-all-zero-map-cmd3)
         |  |  |  +--rw apply-qos-mpls:all-zero-map-cmd3?   empty /*alt-name:all-zero-map/
         |  |  +--:(ca-default-map-cmd3)
         |  |     +--rw apply-qos-mpls:default-map-cmd3?    empty /*alt-name:default-map*/
         |  +--rw apply-qos-mpls:All-cmd3?            empty /*alt-name:local-All*/
         +--rw apply-qos-mpls:apply-exp-dscp-map-name
         |  +--rw (apply-exp-dscp)?
         |  |  +--:(ca-map-name-cmd4)/*drop-node-name*/
         |  |  |  +--rw apply-qos-mpls:map-name-cmd4?       map-name-type
         |  |  +--:(ca-all-zero-map-cmd4)
         |  |  |  +--rw apply-qos-mpls:all-zero-map-cmd4?   empty /*alt-name:all-zero-map/
         |  |  +--:(ca-default-map-cmd4)
         |  |     +--rw apply-qos-mpls:default-map-cmd4?    empty /*alt-name:default-map*/
         |  +--rw apply-qos-mpls:All-cmd4?            empty /*alt-name:local-All*/
         +--rw apply-qos-mpls:apply-inexp-outexp-map-name
            +--rw (apply-inexp-outexp)? /*alt-name:inexp-outexp/
            |  +--:(ca-map-name-cmd5)
            |  |  +--rw apply-qos-mpls:map-name-cmd5?       map-name-type
            |  +--:(ca-all-zero-map-cmd5) /*drop-node-name*/
            |  |  +--rw apply-qos-mpls:all-zero-map-cmd5?   empty /*alt-name:all-zero-map/
            |  +--:(ca-default-map-cmd5) /*alt-name:default-map*/
            |     +--rw apply-qos-mpls:default-map-cmd5?    empty
            +--rw apply-qos-mpls:All-cmd5?            empty /*alt-name:local-All*/
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-arp

Provides a data model for managing the Address Resolution Protocol (ARP).

Top-level container

```
module: brocade-arp
+--rw arp-entry [arp-ip-address] /*alt-name:"arp"*/
      +--rw arp-ip-address       inet:ipv4-address /*drop-node-name*/
      +--rw mac-address-value?   mac-access-list:mac-address-type /*drop-node-name*/
      +--rw interfacename?       enumeration /*drop-node-name*/
      +--rw (interfacetype)?
         +--:(Ethernet)
         |  +--rw Ethernet?            interface:interface-type
         +--:(Ve)
            +--rw Ve?
```

RPCs

Return ARP entries of the managed entity:

```
+---x get-arp
     +--ro input
     |  +--ro (input-type)?
     |     +--:(interface)
     |     |  +--ro interface-type?   enumeration
     |     |  +--ro interface-name?   union
     |     +--:(dynamic)
     |     |  +--ro dynamic?          empty
     |     +--:(static)
     |     |  +--ro static?           empty
     |     +--:(ip)
     |        +--ro ip-address?       inet:ipv4-address
     +--ro output
        +--ro arp-entry [ip-address]
           +--ro ip-address        inet:ipv4-address
           +--ro mac-address?      mac-access-list:mac-address-type
           +--ro interface-type?   enumeration
           +--ro interface-name?   union
           +--ro is-resolved?      boolean
           +--ro age?              string
           +--ro entry-type?       enumeration
```

History

	History
17s.1.00	This Yang module was introduced.

brocade-bgp

Provides a data model to manage Border Gateway Protocol (BGP).

External augmentations

```
module: brocade-common-def
   +--rw routing-system
      +--rw router
      |  +--rw bgp:router-bgp?
      |  |  +--rw bgp:router-bgp-attributes
      |  |  |  +--rw bgp:local-as?                        local-as-type
      |  |  |  +--rw bgp:always-compare-med?              empty
      |  |  |  +--rw bgp:compare-med-empty-aspath?        empty
      |  |  |  +--rw bgp:med-missing-as-worst?            empty
      |  |  |  +--rw bgp:as-path-ignore?                  empty
      |  |  |  +--rw bgp:compare-routerid?                empty
      |  |  |  +--rw bgp:install-igp-cost?                empty
      |  |  |  +--rw bgp:cluster-id
      |  |  |  |  +--rw (ch-cluster-id)?
      |  |  |  |     +--:(ca-cluster-id)
      |  |  |  |     |  +--rw bgp:cluster-id-value?          decimal-number
      |  |  |  |     +--:(ca-cluster-id-ipv4-address)
      |  |  |  |        +--rw bgp:cluster-id-ipv4-address?   inet:ipv4-address
      |  |  |  +--rw bgp:default-local-preference?        local-preference-number
      |  |  |  +--rw bgp:distance
      |  |  |  |  +--rw bgp:ext-route-distance?   ext-route-distance
      |  |  |  |  +--rw bgp:int-route-distance?   int-route-distance
      |  |  |  |  +--rw bgp:lcl-route-distance?   lcl-route-distance
      |  |  |  +--rw bgp:capability
      |  |  |  |  +--rw bgp:as4-enable?   empty
      |  |  |  +--rw bgp:maxas-limit
      |  |  |  |  +--rw bgp:in
      |  |  |  |     +--rw bgp:num-as-in-path?   num-as-in-path
      |  |  |  +--rw bgp:enforce-first-as?                empty
      |  |  |  +--rw bgp:fast-external-fallover?          empty
      |  |  |  +--rw bgp:timers
      |  |  |  |  +--rw bgp:keep-alive?   nei-keep-alive
      |  |  |  |  +--rw bgp:hold-time?    nei-hold-time
      |  |  |  +--rw bgp:log-dampening-debug?             empty
      |  |  |  +--rw bgp:confederation
      |  |  |  |  +--rw bgp:identifier?   cidentifier
      |  |  |  |  +--rw bgp:peers*        cidentifier
      |  |  |  +--rw bgp:auto-shutdown-new-neighbors?   empty
      |  |  |  +--rw bgp:neighbor
      |  |  |     +--rw bgp:peer-grps
      |  |  |     |  +--rw bgp:neighbor-peer-grp [router-bgp-neighbor-peer-grp]
      |  |  |     |     +--rw bgp:router-bgp-neighbor-peer-grp    bgp-peergroup
      |  |  |     |     +--rw bgp:peer-group-name?                empty
      |  |  |     |     +--rw bgp:remote-as?                      bgp-remote-as
      |  |  |     |     +--rw bgp:update-source
      |  |  |     |     |  +--rw (ch-update-source)?
      |  |  |     |     |     +--:(ca-ipv4)
      |  |  |     |     |     |  +--rw bgp:sip-ipv4-address?     sip-ipv4-address
      |  |  |     |     |     +--:(ca-eth)
      |  |  |     |     |     |  +--rw bgp:ethernet-interface
      |  |  |     |     |     |     +--rw bgp:interface-type?   enumeration
      |  |  |     |     |     |     +--rw bgp:interface-name?   update-source-ethernet-type
      |  |  |     |     |     +--:(ca-loopback)
      |  |  |     |     |     |  +--rw bgp:loopback?             loopback-interface
      |  |  |     |     |     +--:(ca-ve)
      |  |  |     |     |        +--rw bgp:ve-interface?         interface:ve-type
      |  |  |     |     +--rw bgp:description?                    neighbor-description
      |  |  |     |     +--rw bgp:local-as
      |  |  |     |     |  +--rw bgp:local-as-value?   local-as-num
      |  |  |     |     |  +--rw bgp:no-prepend?       empty
      |  |  |     |     +--rw bgp:next-hop-self
      |  |  |     |     |  +--rw (ch-next-hop-self-type)?
```

```
|  |  |     |     |     +--:(ca-next-hop-self-always)
|  |  |     |     |     |  +--rw bgp:next-hop-self-always?   empty
|  |  |     |     |     +--:(ca-next-hop-self-status)
|  |  |     |     |        +--rw bgp:next-hop-self-status?   empty
|  |  |     |     +--rw bgp:advertisement-interval
|  |  |     |     |  +--rw bgp:value?   adv-value
|  |  |     |     +--rw bgp:ebgp-btsh?                        empty
|  |  |     |     +--rw bgp:ebgp-multihop
|  |  |     |     |  +--rw (ch-ebgp-multihop-type)?
|  |  |     |     |     +--:(ca-ebgp-multihop-flag)
|  |  |     |     |     |  +--rw bgp:ebgp-multihop-flag?    empty
|  |  |     |     |     +--:(ca-ebgp-multihop-count)
|  |  |     |     |        +--rw bgp:ebgp-multihop-count?   uint32
|  |  |     |     +--rw bgp:password?                         bgp-password
|  |  |     |     +--rw bgp:enforce-first-as
|  |  |     |     |  +--rw bgp:nei-enforce-first-as?           empty
|  |  |     |     |  +--rw bgp:nei-enforce-first-as-disable?   empty
|  |  |     |     +--rw bgp:timers
|  |  |     |     |  +--rw bgp:nei-keep-alive?   nei-keep-alive
|  |  |     |     |  +--rw bgp:nei-hold-time?    nei-hold-time
|  |  |     |     +--rw bgp:remove-private-as?              empty
|  |  |     |     +--rw bgp:as-override?                    empty
|  |  |     |     +--rw bgp:soft-reconfiguration
|  |  |     |     |  +--rw bgp:inbound?   empty
|  |  |     |     +--rw bgp:static-network-edge?            empty
|  |  |     |     +--rw bgp:maxas-limit
|  |  |     |     |  +--rw bgp:in
|  |  |     |     |     +--rw (ch-maxas-limit)?
|  |  |     |     |        +--:(ca-maxas-limit-enable)
|  |  |     |     |        |  +--rw bgp:num-as-in-as-path?     num-as-in-as-path
|  |  |     |     |        +--:(ca-maxas-limit-disable)
|  |  |     |     |           +--rw bgp:maxas-limit-disable?   empty
|  |  |     |     +--rw bgp:af-neighbor-capability
|  |  |     |     |  +--rw bgp:as4
|  |  |     |     |     +--rw bgp:neighbor-as4-enable?    empty
|  |  |     |     |     +--rw bgp:neighbor-as4-disable?   empty
|  |  |     |     +--rw bgp:shutdown
|  |  |     |        +--rw bgp:shutdown-status?    empty
|  |  |     |        +--rw bgp:generate-rib-out?   empty
|  |  |     +--rw bgp:neighbor-ipv6s
|  |  |     |  +--rw bgp:neighbor-ipv6-addr [router-bgp-neighbor-ipv6-address]
|  |  |     |     +--rw bgp:router-bgp-neighbor-ipv6-address    inet:ipv6-address
|  |  |     |     +--rw bgp:remote-as?                          bgp-remote-as
|  |  |     |     +--rw bgp:associate-peer-group?               bgp-peergroup
|  |  |     |     +--rw bgp:update-source
|  |  |     |     |  +--rw (ch-update-source)?
|  |  |     |     |     +--:(ca-ipv6)
|  |  |     |     |     |  +--rw bgp:sip-ipv6-address?     sip-ipv6-address
|  |  |     |     |     +--:(ca-eth)
|  |  |     |     |     |  +--rw bgp:ethernet-interface
|  |  |     |     |     |     +--rw bgp:interface-type?   enumeration
|  |  |     |     |     |     +--rw bgp:interface-name?   update-source-ethernet-type
|  |  |     |     |     +--:(ca-loopback)
|  |  |     |     |     |  +--rw bgp:loopback?             loopback-interface
|  |  |     |     |     +--:(ca-ve)
|  |  |     |     |        +--rw bgp:ve-interface?         interface:ve-type
|  |  |     |     +--rw bgp:description?                          neighbor-description
|  |  |     |     +--rw bgp:local-as
|  |  |     |     |  +--rw bgp:local-as-value?   local-as-num
|  |  |     |     |  +--rw bgp:no-prepend?       empty
|  |  |     |     +--rw bgp:next-hop-self
|  |  |     |     |  +--rw (ch-next-hop-self-type)?
|  |  |     |     |     +--:(ca-next-hop-self-always)
|  |  |     |     |     |  +--rw bgp:next-hop-self-always?   empty
|  |  |     |     |     +--:(ca-next-hop-self-status)
|  |  |     |     |        +--rw bgp:next-hop-self-status?   empty
|  |  |     |     +--rw bgp:advertisement-interval
|  |  |     |     |  +--rw bgp:value?   adv-value
|  |  |     |     +--rw bgp:ebgp-btsh?                           empty
|  |  |     |     +--rw bgp:ebgp-multihop
|  |  |     |     |  +--rw (ch-ebgp-multihop-type)?
|  |  |     |     |     +--:(ca-ebgp-multihop-flag)
```

```
|  |  |     |     |     |  +--rw bgp:ebgp-multihop-flag?    empty
|  |  |     |     |     +--:(ca-ebgp-multihop-count)
|  |  |     |     |        +--rw bgp:ebgp-multihop-count?   uint32
|  |  |     |     +--rw bgp:password?                           bgp-password
|  |  |     |     +--rw bgp:enforce-first-as
|  |  |     |     |  +--rw bgp:nei-enforce-first-as?           empty
|  |  |     |     |  +--rw bgp:nei-enforce-first-as-disable?   empty
|  |  |     |     +--rw bgp:timers
|  |  |     |     |  +--rw bgp:nei-keep-alive?   nei-keep-alive
|  |  |     |     |  +--rw bgp:nei-hold-time?    nei-hold-time
|  |  |     |     +--rw bgp:remove-private-as?                  empty
|  |  |     |     +--rw bgp:as-override?                        empty
|  |  |     |     +--rw bgp:soft-reconfiguration
|  |  |     |     |  +--rw bgp:inbound?   empty
|  |  |     |     +--rw bgp:static-network-edge?                empty
|  |  |     |     +--rw bgp:maxas-limit
|  |  |     |     |  +--rw bgp:in
|  |  |     |     |     +--rw (ch-maxas-limit)?
|  |  |     |     |        +--:(ca-maxas-limit-enable)
|  |  |     |     |        |  +--rw bgp:num-as-in-as-path?     num-as-in-as-path
|  |  |     |     |        +--:(ca-maxas-limit-disable)
|  |  |     |     |           +--rw bgp:maxas-limit-disable?   empty
|  |  |     |     +--rw bgp:af-neighbor-capability
|  |  |     |     |  +--rw bgp:as4
|  |  |     |     |     +--rw bgp:neighbor-as4-enable?    empty
|  |  |     |     |     +--rw bgp:neighbor-as4-disable?   empty
|  |  |     |     +--rw bgp:shutdown
|  |  |     |        +--rw bgp:shutdown-status?    empty
|  |  |     |        +--rw bgp:generate-rib-out?   empty
|  |  |     +--rw bgp:neighbor-ips
|  |  |        +--rw bgp:neighbor-addr [router-bgp-neighbor-address]
|  |  |           +--rw bgp:router-bgp-neighbor-address    inet:ipv4-address
|  |  |           +--rw bgp:remote-as?                     bgp-remote-as
|  |  |           +--rw bgp:associate-peer-group?          bgp-peergroup
|  |  |           +--rw bgp:update-source
|  |  |           |  +--rw (ch-update-source)?
|  |  |           |     +--:(ca-ipv4)
|  |  |           |     |  +--rw bgp:sip-ipv4-address?     sip-ipv4-address
|  |  |           |     +--:(ca-eth)
|  |  |           |     |  +--rw bgp:ethernet-interface
|  |  |           |     |     +--rw bgp:interface-type?   enumeration
|  |  |           |     |     +--rw bgp:interface-name?   update-source-ethernet-type
|  |  |           |     +--:(ca-loopback)
|  |  |           |     |  +--rw bgp:loopback?             loopback-interface
|  |  |           |     +--:(ca-ve)
|  |  |           |        +--rw bgp:ve-interface?         interface:ve-type
|  |  |           +--rw bgp:description?                   neighbor-description
|  |  |           +--rw bgp:local-as
|  |  |           |  +--rw bgp:local-as-value?   local-as-num
|  |  |           |  +--rw bgp:no-prepend?       empty
|  |  |           +--rw bgp:next-hop-self
|  |  |           |  +--rw (ch-next-hop-self-type)?
|  |  |           |     +--:(ca-next-hop-self-always)
|  |  |           |     |  +--rw bgp:next-hop-self-always?   empty
|  |  |           |     +--:(ca-next-hop-self-status)
|  |  |           |        +--rw bgp:next-hop-self-status?   empty
|  |  |           +--rw bgp:advertisement-interval
|  |  |           |  +--rw bgp:value?   adv-value
|  |  |           +--rw bgp:ebgp-btsh?                     empty
|  |  |           +--rw bgp:ebgp-multihop
|  |  |           |  +--rw (ch-ebgp-multihop-type)?
|  |  |           |     +--:(ca-ebgp-multihop-flag)
|  |  |           |     |  +--rw bgp:ebgp-multihop-flag?    empty
|  |  |           |     +--:(ca-ebgp-multihop-count)
|  |  |           |        +--rw bgp:ebgp-multihop-count?   uint32
|  |  |           +--rw bgp:password?                      bgp-password
|  |  |           +--rw bgp:enforce-first-as
|  |  |           |  +--rw bgp:nei-enforce-first-as?           empty
|  |  |           |  +--rw bgp:nei-enforce-first-as-disable?   empty
|  |  |           +--rw bgp:timers
|  |  |           |  +--rw bgp:nei-keep-alive?   nei-keep-alive
|  |  |           |  +--rw bgp:nei-hold-time?    nei-hold-time
```

```
|  |  |           +--rw bgp:remove-private-as?             empty
|  |  |           +--rw bgp:as-override?                   empty
|  |  |           +--rw bgp:soft-reconfiguration
|  |  |           |  +--rw bgp:inbound?   empty
|  |  |           +--rw bgp:static-network-edge?           empty
|  |  |           +--rw bgp:maxas-limit
|  |  |           |  +--rw bgp:in
|  |  |           |     +--rw (ch-maxas-limit)?
|  |  |           |        +--:(ca-maxas-limit-enable)
|  |  |           |        |  +--rw bgp:num-as-in-as-path?     num-as-in-as-path
|  |  |           |        +--:(ca-maxas-limit-disable)
|  |  |           |           +--rw bgp:maxas-limit-disable?   empty
|  |  |           +--rw bgp:af-neighbor-capability
|  |  |           |  +--rw bgp:as4
|  |  |           |     +--rw bgp:neighbor-as4-enable?    empty
|  |  |           |     +--rw bgp:neighbor-as4-disable?   empty
|  |  |           +--rw bgp:shutdown
|  |  |              +--rw bgp:shutdown-status?    empty
|  |  |              +--rw bgp:generate-rib-out?   empty
|  |  +--rw bgp:address-family
|  |     +--rw bgp:ipv4
|  |     |  +--rw bgp:ipv4-unicast
|  |     |     +--rw bgp:default-vrf
|  |     |     |  +--rw bgp:default-vrf-selected?                          empty
|  |     |     |  +--rw bgp:af-ipv4-uc-and-vrf-cmds-call-point-holder
|  |     |     |  |  +--rw bgp:bgp-redistribute-internal?   empty
|  |     |     |  |  +--rw bgp:redistribute
|  |     |     |  |     +--rw bgp:bgp
|  |     |     |  |     |  +--rw bgp:redistribute-bgp?   empty
|  |     |     |  |     |  +--rw bgp:bgp-metric?         conn-metric
|  |     |     |  |     |  +--rw bgp:bgp-route-map?      rmap-type
|  |     |     |  |     +--rw bgp:connected
|  |     |     |  |     |  +--rw bgp:redistribute-connected?   empty
|  |     |     |  |     |  +--rw bgp:unicast-metric?           conn-metric
|  |     |     |  |     |  +--rw bgp:redistribute-route-map?   rmap-type
|  |     |     |  |     +--rw bgp:ospf
|  |     |     |  |     |  +--rw bgp:redistribute-ospf?   empty
|  |     |     |  |     |  +--rw bgp:match
|  |     |     |  |     |  |  +--rw bgp:ospf-internal?    empty
|  |     |     |  |     |  |  +--rw bgp:ospf-external1?   empty
|  |     |     |  |     |  |  +--rw bgp:ospf-external2?   empty
|  |     |     |  |     |  +--rw bgp:ospf-metric?         conn-metric
|  |     |     |  |     |  +--rw bgp:ospf-route-map?      rmap-type
|  |     |     |  |     +--rw bgp:redistribute-isis?
|  |     |     |  |     |  +--rw bgp:redistribute-isis-route-map?   common-def:name-string63
|  |     |     |  |     |  +--rw (ch-isis-level)?
|  |     |     |  |     |  |  +--:(ca-level-1)
|  |     |     |  |     |  |  |  +--rw bgp:level-1?                     empty
|  |     |     |  |     |  |  +--:(ca-level-2)
|  |     |     |  |     |  |  |  +--rw bgp:level-2?                     empty
|  |     |     |  |     |  |  +--:(ca-level-1-2)
|  |     |     |  |     |  |     +--rw bgp:level-1-2?                  empty
|  |     |     |  |     |  +--rw bgp:redistribute-isis-metric?      conn-metric
|  |     |     |  |     +--rw bgp:static
|  |     |     |  |        +--rw bgp:redistribute-static?     empty
|  |     |     |  |        +--rw bgp:unicast-static-metric?   conn-metric
|  |     |     |  |        +--rw bgp:static-route-map?        rmap-type
|  |     |     |  +--rw bgp:static-network [static-network-address]
|  |     |     |  |  +--rw bgp:static-network-address     inet:ipv4-prefix
|  |     |     |  |  +--rw bgp:static-network-distance?   sdistance
|  |     |     |  +--rw bgp:aggregate-address [aggregate-ip-prefix]
|  |     |     |  |  +--rw bgp:aggregate-ip-prefix    inet:ipv4-prefix
|  |     |     |  |  +--rw bgp:advertise-map?         advertise-map
|  |     |     |  |  +--rw bgp:as-set?                empty
|  |     |     |  |  +--rw bgp:attribute-map?         attribute-map
|  |     |     |  |  +--rw bgp:summary-only?          empty
|  |     |     |  |  +--rw bgp:suppress-map?          suppress-map
|  |     |     |  +--rw bgp:network [network-ipv4-address]
|  |     |     |  |  +--rw bgp:network-ipv4-address    inet:ipv4-prefix
|  |     |     |  |  +--rw bgp:network-weight?         absolute-decimal-number
|  |     |     |  |  +--rw bgp:backdoor?               empty
|  |     |     |  |  +--rw bgp:network-route-map?      rmap-type
```

```
|  |     |     |  +--rw bgp:neighbor
|  |     |     |  |  +--rw bgp:af-ipv4-neighbor-peergroup-holder
|  |     |     |  |  |  +--rw bgp:af-ipv4-neighbor-peergroup [af-ipv4-neighbor-peergroup-name]
|  |     |     |  |  |     +--rw bgp:af-ipv4-neighbor-peergroup-name    bgp-peergroup
|  |     |     |  |  |     +--rw bgp:send-community
|  |     |     |  |  |     |  +--rw bgp:send-community-status?   empty
|  |     |     |  |  |     |  +--rw bgp:both?                    empty
|  |     |     |  |  |     |  +--rw bgp:extended?                empty
|  |     |     |  |  |     |  +--rw bgp:standard?                empty
|  |     |     |  |  |     +--rw bgp:af-neighbor-capability
|  |     |     |  |  |     |  +--rw bgp:orf
|  |     |     |  |  |     |     +--rw bgp:prefixlist
|  |     |     |  |  |     |        +--rw bgp:prefixlist-status?    empty
|  |     |     |  |  |     |        +--rw bgp:prefixlist-send?      empty
|  |     |     |  |  |     |        +--rw bgp:prefixlist-receive?   empty
|  |     |     |  |  |     +--rw bgp:activate?                          empty
|  |     |     |  |  |     +--rw bgp:allowas-in?                        uint32
|  |     |     |  |  |     +--rw bgp:filter-list
|  |     |     |  |  |     |  +--rw bgp:direction-in
|  |     |     |  |  |     |  |  +--rw bgp:filter-list-direction-in-acl-name?   ip-filter-name
|  |     |     |  |  |     |  |  +--rw bgp:filter-list-name-direction-in?       empty
|  |     |     |  |  |     |  +--rw bgp:direction-out
|  |     |     |  |  |     |     +--rw bgp:filter-list-direction-out-acl-name?   ip-filter-name
|  |     |     |  |  |     |     +--rw bgp:filter-list-name-direction-out?       empty
|  |     |     |  |  |     +--rw bgp:maximum-prefix
|  |     |     |  |  |     |  +--rw bgp:max-prefix-limit?   max-prefix-limit
|  |     |     |  |  |     |  +--rw bgp:threshold-holder
|  |     |     |  |  |     |     +--rw bgp:threshold?   max-prefix-threshold
|  |     |     |  |  |     |     +--rw bgp:teardown?    empty
|  |     |     |  |  |     +--rw bgp:default-originate
|  |     |     |  |  |     |  +--rw bgp:default-originate-status?   empty
|  |     |     |  |  |     +--rw bgp:prefix-list
|  |     |     |  |  |     |  +--rw bgp:direction-in
|  |     |     |  |  |     |  |  +--rw bgp:prefix-list-direction-in-prefix-name?   nei-prefix-
list-filter
|  |     |     |  |  |     |  |  +--rw bgp:prefix-list-direction-in?               empty
|  |     |     |  |  |     |  +--rw bgp:direction-out
|  |     |     |  |  |     |     +--rw bgp:prefix-list-direction-out-prefix-name?   nei-prefix-
list-filter
|  |     |     |  |  |     |     +--rw bgp:prefix-list-direction-out?               empty
|  |     |     |  |  |     +--rw bgp:neighbor-route-map
|  |     |     |  |  |     |  +--rw bgp:neighbor-route-map-direction-in
|  |     |     |  |  |     |  |  +--rw bgp:neighbor-route-map-name-direction-in?   common-
def:name-string64
|  |     |     |  |  |     |  +--rw bgp:neighbor-route-map-direction-out
|  |     |     |  |  |     |     +--rw bgp:neighbor-route-map-name-direction-out?   common-
def:name-string64
|  |     |     |  |  |     +--rw bgp:route-reflector-client?            empty
|  |     |     |  |  |     +--rw bgp:unsuppress-map
|  |     |     |  |  |     |  +--rw bgp:map-name?   rmap-type
|  |     |     |  |  |     +--rw bgp:af-nei-weight?                     nei-weight
|  |     |     |  |  +--rw bgp:af-ipv4-neighbor-address-holder
|  |     |     |  |     +--rw bgp:af-ipv4-neighbor-address [af-ipv4-neighbor-address]
|  |     |     |  |        +--rw bgp:af-ipv4-neighbor-address    inet:ipv4-address
|  |     |     |  |        +--rw bgp:send-community
|  |     |     |  |        |  +--rw bgp:send-community-status?   empty
|  |     |     |  |        |  +--rw bgp:both?                    empty
|  |     |     |  |        |  +--rw bgp:extended?                empty
|  |     |     |  |        |  +--rw bgp:standard?                empty
|  |     |     |  |        +--rw bgp:af-neighbor-capability
|  |     |     |  |        |  +--rw bgp:orf
|  |     |     |  |        |     +--rw bgp:prefixlist
|  |     |     |  |        |        +--rw bgp:prefixlist-status?    empty
|  |     |     |  |        |        +--rw bgp:prefixlist-send?      empty
|  |     |     |  |        |        +--rw bgp:prefixlist-receive?   empty
|  |     |     |  |        +--rw bgp:activate?                   empty
|  |     |     |  |        +--rw bgp:allowas-in?                 uint32
|  |     |     |  |        +--rw bgp:filter-list
|  |     |     |  |        |  +--rw bgp:direction-in
|  |     |     |  |        |  |  +--rw bgp:filter-list-direction-in-acl-name?   ip-filter-name
|  |     |     |  |        |  |  +--rw bgp:filter-list-name-direction-in?       empty
|  |     |     |  |        |  +--rw bgp:direction-out
```

```
      |  |     |     |  |        |     +--rw bgp:filter-list-direction-out-acl-name?   ip-filter-name
      |  |     |     |  |        |     +--rw bgp:filter-list-name-direction-out?       empty
      |  |     |     |  |        +--rw bgp:maximum-prefix
      |  |     |     |  |        |  +--rw bgp:max-prefix-limit?   max-prefix-limit
      |  |     |     |  |        |  +--rw bgp:threshold-holder
      |  |     |     |  |        |     +--rw bgp:threshold?   max-prefix-threshold
      |  |     |     |  |        |     +--rw bgp:teardown?    empty
      |  |     |     |  |        +--rw bgp:default-originate
      |  |     |     |  |        |  +--rw bgp:default-originate-status?   empty
      |  |     |     |  |        +--rw bgp:prefix-list
      |  |     |     |  |        |  +--rw bgp:direction-in
      |  |     |     |  |        |  |  +--rw bgp:prefix-list-direction-in-prefix-name?   nei-prefix-
list-filter
      |  |     |     |  |        |  |  +--rw bgp:prefix-list-direction-in?               empty
      |  |     |     |  |        |  +--rw bgp:direction-out
      |  |     |     |  |        |     +--rw bgp:prefix-list-direction-out-prefix-name?   nei-prefix-
list-filter
      |  |     |     |  |        |     +--rw bgp:prefix-list-direction-out?               empty
      |  |     |     |  |        +--rw bgp:neighbor-route-map
      |  |     |     |  |        |  +--rw bgp:neighbor-route-map-direction-in
      |  |     |     |  |        |  |  +--rw bgp:neighbor-route-map-name-direction-in?   common-
def:name-string64
      |  |     |     |  |        |  +--rw bgp:neighbor-route-map-direction-out
      |  |     |     |  |        |     +--rw bgp:neighbor-route-map-name-direction-out?   common-
def:name-string64
      |  |     |     |  |        +--rw bgp:route-reflector-client?     empty
      |  |     |     |  |        +--rw bgp:unsuppress-map
      |  |     |     |  |        |  +--rw bgp:map-name?   rmap-type
      |  |     |     |  |        +--rw bgp:af-nei-weight?              nei-weight
      |  |     |     |  +--rw bgp:af-common-cmds-holder
      |  |     |     |  |  +--rw bgp:maximum-paths
      |  |     |     |  |  |  +--rw bgp:load-sharing-value?   uint32
      |  |     |     |  |  |  +--rw bgp:ebgp?                 ebgp-paths
      |  |     |     |  |  |  +--rw bgp:ibgp?                 ibgp-paths
      |  |     |     |  |  |  +--rw bgp:use-load-sharing?     empty
      |  |     |     |  |  +--rw bgp:multipath
      |  |     |     |  |  |  +--rw bgp:multipath_ebgp?   empty
      |  |     |     |  |  |  +--rw bgp:multipath_ibgp?   empty
      |  |     |     |  |  |  +--rw bgp:multi-as?         empty
      |  |     |     |  |  +--rw bgp:always-propagate?                empty
      |  |     |     |  |  +--rw bgp:default-information-originate?   empty
      |  |     |     |  |  +--rw bgp:rib-route-limit?                 rib-route-number
      |  |     |     |  |  +--rw bgp:client-to-client-reflection?     empty
      |  |     |     |  |  +--rw bgp:dampening
      |  |     |     |  |  |  +--rw (ch-dampening-source)?
      |  |     |     |  |  |     +--:(ca-dampening-flag)
      |  |     |     |  |  |     |  +--rw bgp:dampening-flag?        empty
      |  |     |     |  |  |     +--:(ca-dampening-specify-values)
      |  |     |     |  |  |     |  +--rw bgp:values
      |  |     |     |  |  |     |     +--rw bgp:half-time?             htime
      |  |     |     |  |  |     |     +--rw bgp:reuse-value?           damp-reuse-value
      |  |     |     |  |  |     |     +--rw bgp:start-suppress-time?   damp-start-suppress-value
      |  |     |     |  |  |     |     +--rw bgp:max-suppress-time?     damp-max-suppress-value
      |  |     |     |  |  |     +--:(ca-dampening-route-map)
      |  |     |     |  |  |        +--rw bgp:dampening-route-map?   rmap-type
      |  |     |     |  |  +--rw bgp:default-metric?                  default-metric-number
      |  |     |     |  |  +--rw bgp:next-hop-enable-default?         empty
      |  |     |     |  |  +--rw bgp:table-map
      |  |     |     |  |  |  +--rw bgp:table-map-route-map?   rmap-type
      |  |     |     |  |  +--rw bgp:update-time?                     update-time-type
      |  |     |     |  |  +--rw bgp:graceful-restart
      |  |     |     |  |     +--rw bgp:graceful-restart-status?   empty
      |  |     |     |  |     +--rw bgp:restart-time?              rtime-type
      |  |     |     |  |     +--rw bgp:purge-time?                ptime-type
      |  |     |     |  |     +--rw bgp:stale-routes-time?         st-time-type
      |  |     |     |  +--rw bgp:next-hop-recursion?                          empty
      |  |     |     |  +--rw bgp:next-hop-mpls?
      |  |     |     |     +--rw (ch-compare-lsp-follow-igp)?
      |  |     |     |        +--:(ca-compare-lsp-metric)
      |  |     |     |        |  +--rw bgp:compare-lsp-metric?   empty
      |  |     |     |        +--:(ca-follow-igp)
      |  |     |     |           +--rw bgp:follow-igp?          empty
```

```
|  |     |     +--rw bgp:af-vrf [af-vrf-name]
|  |     |        +--rw bgp:af-vrf-name                                    string
|  |     |        +--rw bgp:local-as?                                      local-as-type
|  |     |        +--rw bgp:maxas-limit
|  |     |        |  +--rw bgp:in
|  |     |        |     +--rw bgp:num-as-in-path?   num-as-in-path
|  |     |        +--rw bgp:next-hop-recursion?                            empty
|  |     |        +--rw bgp:graceful-restart-status?                       empty
|  |     |        +--rw bgp:af-ipv4-uc-and-vrf-cmds-call-point-holder
|  |     |        |  +--rw bgp:bgp-redistribute-internal?   empty
|  |     |        |  +--rw bgp:redistribute
|  |     |        |     +--rw bgp:bgp
|  |     |        |     |  +--rw bgp:redistribute-bgp?   empty
|  |     |        |     |  +--rw bgp:bgp-metric?         conn-metric
|  |     |        |     |  +--rw bgp:bgp-route-map?      rmap-type
|  |     |        |     +--rw bgp:connected
|  |     |        |     |  +--rw bgp:redistribute-connected?   empty
|  |     |        |     |  +--rw bgp:unicast-metric?           conn-metric
|  |     |        |     |  +--rw bgp:redistribute-route-map?   rmap-type
|  |     |        |     +--rw bgp:ospf
|  |     |        |     |  +--rw bgp:redistribute-ospf?   empty
|  |     |        |     |  +--rw bgp:match
|  |     |        |     |  |  +--rw bgp:ospf-internal?    empty
|  |     |        |     |  |  +--rw bgp:ospf-external1?   empty
|  |     |        |     |  |  +--rw bgp:ospf-external2?   empty
|  |     |        |     |  +--rw bgp:ospf-metric?         conn-metric
|  |     |        |     |  +--rw bgp:ospf-route-map?      rmap-type
|  |     |        |     +--rw bgp:static
|  |     |        |        +--rw bgp:redistribute-static?     empty
|  |     |        |        +--rw bgp:unicast-static-metric?   conn-metric
|  |     |        |        +--rw bgp:static-route-map?        rmap-type
|  |     |        +--rw bgp:static-network [static-network-address]
|  |     |        |  +--rw bgp:static-network-address     inet:ipv4-prefix
|  |     |        |  +--rw bgp:static-network-distance?   sdistance
|  |     |        +--rw bgp:aggregate-address [aggregate-ip-prefix]
|  |     |        |  +--rw bgp:aggregate-ip-prefix    inet:ipv4-prefix
|  |     |        |  +--rw bgp:advertise-map?         advertise-map
|  |     |        |  +--rw bgp:as-set?                empty
|  |     |        |  +--rw bgp:attribute-map?         attribute-map
|  |     |        |  +--rw bgp:summary-only?          empty
|  |     |        |  +--rw bgp:suppress-map?          suppress-map
|  |     |        +--rw bgp:network [network-ipv4-address]
|  |     |        |  +--rw bgp:network-ipv4-address    inet:ipv4-prefix
|  |     |        |  +--rw bgp:network-weight?         absolute-decimal-number
|  |     |        |  +--rw bgp:backdoor?               empty
|  |     |        |  +--rw bgp:network-route-map?      rmap-type
|  |     |        +--rw bgp:neighbor
|  |     |        |  +--rw bgp:af-ipv4-vrf-neighbor-address-holder
|  |     |        |     +--rw bgp:af-ipv4-neighbor-addr [af-ipv4-neighbor-address]
|  |     |        |        +--rw bgp:af-ipv4-neighbor-address      inet:ipv4-address
|  |     |        |        +--rw bgp:remote-as?                    bgp-remote-as
|  |     |        |        +--rw bgp:shutdown
|  |     |        |        |  +--rw bgp:shutdown-status?    empty
|  |     |        |        |  +--rw bgp:generate-rib-out?   empty
|  |     |        |        +--rw bgp:af-vrf-neighbor-capability
|  |     |        |        |  +--rw bgp:as4
|  |     |        |        |  |  +--rw bgp:neighbor-as4-enable?    empty
|  |     |        |        |  |  +--rw bgp:neighbor-as4-disable?   empty
|  |     |        |        |  +--rw bgp:orf
|  |     |        |        |     +--rw bgp:prefixlist
|  |     |        |        |        +--rw bgp:prefixlist-status?    empty
|  |     |        |        |        +--rw bgp:prefixlist-send?      empty
|  |     |        |        |        +--rw bgp:prefixlist-receive?   empty
|  |     |        |        +--rw bgp:allowas-in?                   uint32
|  |     |        |        +--rw bgp:filter-list
|  |     |        |        |  +--rw bgp:direction-in
|  |     |        |        |  |  +--rw bgp:filter-list-direction-in-acl-name?   ip-filter-name
|  |     |        |        |  |  +--rw bgp:filter-list-name-direction-in?       empty
|  |     |        |        |  +--rw bgp:direction-out
|  |     |        |        |     +--rw bgp:filter-list-direction-out-acl-name?   ip-filter-name
|  |     |        |        |     +--rw bgp:filter-list-name-direction-out?       empty
|  |     |        |        +--rw bgp:maximum-prefix
```

```
      |  |     |        |        |  +--rw bgp:max-prefix-limit?   max-prefix-limit
      |  |     |        |        |  +--rw bgp:threshold-holder
      |  |     |        |        |     +--rw bgp:threshold?   max-prefix-threshold
      |  |     |        |        |     +--rw bgp:teardown?    empty
      |  |     |        |        +--rw bgp:default-originate
      |  |     |        |        |  +--rw bgp:default-originate-status?   empty
      |  |     |        |        +--rw bgp:prefix-list
      |  |     |        |        |  +--rw bgp:direction-in
      |  |     |        |        |  |  +--rw bgp:prefix-list-direction-in-prefix-name?   nei-prefix-
list-filter
      |  |     |        |        |  |  +--rw bgp:prefix-list-direction-in?               empty
      |  |     |        |        |  +--rw bgp:direction-out
      |  |     |        |        |     +--rw bgp:prefix-list-direction-out-prefix-name?   nei-prefix-
list-filter
      |  |     |        |        |     +--rw bgp:prefix-list-direction-out?               empty
      |  |     |        |        +--rw bgp:neighbor-route-map
      |  |     |        |        |  +--rw bgp:neighbor-route-map-direction-in
      |  |     |        |        |  |  +--rw bgp:neighbor-route-map-name-direction-in?   common-
def:name-string64
      |  |     |        |        |  +--rw bgp:neighbor-route-map-direction-out
      |  |     |        |        |     +--rw bgp:neighbor-route-map-name-direction-out?   common-
def:name-string64
      |  |     |        |        +--rw bgp:route-reflector-client?       empty
      |  |     |        |        +--rw bgp:unsuppress-map
      |  |     |        |        |  +--rw bgp:map-name?   rmap-type
      |  |     |        |        +--rw bgp:af-nei-weight?                nei-weight
      |  |     |        |        +--rw bgp:associate-peer-group?         bgp-peergroup
      |  |     |        |        +--rw bgp:description?                  neighbor-description
      |  |     |        |        +--rw bgp:local-as
      |  |     |        |        |  +--rw bgp:local-as-value?   local-as-num
      |  |     |        |        |  +--rw bgp:no-prepend?       empty
      |  |     |        |        +--rw bgp:next-hop-self
      |  |     |        |        |  +--rw (ch-next-hop-self-type)?
      |  |     |        |        |     +--:(ca-next-hop-self-always)
      |  |     |        |        |     |  +--rw bgp:next-hop-self-always?   empty
      |  |     |        |        |     +--:(ca-next-hop-self-status)
      |  |     |        |        |        +--rw bgp:next-hop-self-status?   empty
      |  |     |        |        +--rw bgp:advertisement-interval
      |  |     |        |        |  +--rw bgp:value?   adv-value
      |  |     |        |        +--rw bgp:ebgp-btsh?                    empty
      |  |     |        |        +--rw bgp:ebgp-multihop
      |  |     |        |        |  +--rw (ch-ebgp-multihop-type)?
      |  |     |        |        |     +--:(ca-ebgp-multihop-flag)
      |  |     |        |        |     |  +--rw bgp:ebgp-multihop-flag?    empty
      |  |     |        |        |     +--:(ca-ebgp-multihop-count)
      |  |     |        |        |        +--rw bgp:ebgp-multihop-count?   uint32
      |  |     |        |        +--rw bgp:password?                     bgp-password
      |  |     |        |        +--rw bgp:enforce-first-as
      |  |     |        |        |  +--rw bgp:nei-enforce-first-as?           empty
      |  |     |        |        |  +--rw bgp:nei-enforce-first-as-disable?   empty
      |  |     |        |        +--rw bgp:timers
      |  |     |        |        |  +--rw bgp:nei-keep-alive?   nei-keep-alive
      |  |     |        |        |  +--rw bgp:nei-hold-time?    nei-hold-time
      |  |     |        |        +--rw bgp:remove-private-as?            empty
      |  |     |        |        +--rw bgp:as-override?                  empty
      |  |     |        |        +--rw bgp:soft-reconfiguration
      |  |     |        |        |  +--rw bgp:inbound?   empty
      |  |     |        |        +--rw bgp:static-network-edge?          empty
      |  |     |        |        +--rw bgp:maxas-limit
      |  |     |        |        |  +--rw bgp:in
      |  |     |        |        |     +--rw (ch-maxas-limit)?
      |  |     |        |        |        +--:(ca-maxas-limit-enable)
      |  |     |        |        |        |  +--rw bgp:num-as-in-as-path?     num-as-in-as-path
      |  |     |        |        |        +--:(ca-maxas-limit-disable)
      |  |     |        |        |           +--rw bgp:maxas-limit-disable?   empty
      |  |     |        |        +--rw bgp:update-source
      |  |     |        |        |  +--rw (ch-update-source)?
      |  |     |        |        |     +--:(ca-ipv4)
      |  |     |        |        |     |  +--rw bgp:sip-ipv4-address?     sip-ipv4-address
      |  |     |        |        |     +--:(ca-eth)
      |  |     |        |        |     |  +--rw bgp:ethernet-interface
      |  |     |        |        |     |     +--rw bgp:interface-type?   enumeration
```

```
|  |     |        |        |     |     +--rw bgp:interface-name?   update-source-ethernet-type
|  |     |        |        |     +--:(ca-loopback)
|  |     |        |        |     |  +--rw bgp:loopback?            loopback-interface
|  |     |        |        |     +--:(ca-ve)
|  |     |        |        |        +--rw bgp:ve-interface?         interface:ve-type
|  |     |        |        +--rw bgp:send-community
|  |     |        |        |  +--rw bgp:send-community-status?   empty
|  |     |        |        |  +--rw bgp:both?                    empty
|  |     |        |        |  +--rw bgp:extended?                empty
|  |     |        |        |  +--rw bgp:standard?                empty
|  |     |        |        +--rw bgp:activate?                     empty
|  |     |        +--rw bgp:maximum-paths
|  |     |        |  +--rw bgp:load-sharing-value?   uint32
|  |     |        |  +--rw bgp:ebgp?                 ebgp-paths
|  |     |        |  +--rw bgp:ibgp?                 ibgp-paths
|  |     |        |  +--rw bgp:use-load-sharing?     empty
|  |     |        +--rw bgp:multipath
|  |     |        |  +--rw bgp:multipath_ebgp?   empty
|  |     |        |  +--rw bgp:multipath_ibgp?   empty
|  |     |        |  +--rw bgp:multi-as?         empty
|  |     |        +--rw bgp:always-propagate?                              empty
|  |     |        +--rw bgp:default-information-originate?                 empty
|  |     |        +--rw bgp:rib-route-limit?                               rib-route-number
|  |     |        +--rw bgp:client-to-client-reflection?                   empty
|  |     |        +--rw bgp:dampening
|  |     |        |  +--rw (ch-dampening-source)?
|  |     |        |     +--:(ca-dampening-flag)
|  |     |        |     |  +--rw bgp:dampening-flag?        empty
|  |     |        |     +--:(ca-dampening-specify-values)
|  |     |        |     |  +--rw bgp:values
|  |     |        |     |     +--rw bgp:half-time?             htime
|  |     |        |     |     +--rw bgp:reuse-value?           damp-reuse-value
|  |     |        |     |     +--rw bgp:start-suppress-time?   damp-start-suppress-value
|  |     |        |     |     +--rw bgp:max-suppress-time?     damp-max-suppress-value
|  |     |        |     +--:(ca-dampening-route-map)
|  |     |        |        +--rw bgp:dampening-route-map?   rmap-type
|  |     |        +--rw bgp:default-metric?                                default-metric-number
|  |     |        +--rw bgp:next-hop-enable-default?                       empty
|  |     |        +--rw bgp:table-map
|  |     |        |  +--rw bgp:table-map-route-map?   rmap-type
|  |     |        +--rw bgp:update-time?                                   update-time-type
|  |     +--rw bgp:ipv6
|  |     |  +--rw bgp:ipv6-unicast
|  |     |     +--rw bgp:default-vrf
|  |     |     |  +--rw bgp:default-vrf-selected?                          empty
|  |     |     |  +--rw bgp:af-ipv6-uc-and-vrf-cmds-call-point-holder
|  |     |     |  |  +--rw bgp:bgp-redistribute-internal?   empty
|  |     |     |  |  +--rw bgp:redistribute
|  |     |     |  |     +--rw bgp:bgp
|  |     |     |  |     |  +--rw bgp:redistribute-bgp?   empty
|  |     |     |  |     |  +--rw bgp:bgp-metric?         conn-metric
|  |     |     |  |     |  +--rw bgp:bgp-route-map?      rmap-type
|  |     |     |  |     +--rw bgp:connected
|  |     |     |  |     |  +--rw bgp:redistribute-connected?   empty
|  |     |     |  |     |  +--rw bgp:unicast-metric?           conn-metric
|  |     |     |  |     |  +--rw bgp:redistribute-route-map?   rmap-type
|  |     |     |  |     +--rw bgp:ospf
|  |     |     |  |     |  +--rw bgp:redistribute-ospf?   empty
|  |     |     |  |     |  +--rw bgp:match
|  |     |     |  |     |  |  +--rw bgp:ospf-internal?    empty
|  |     |     |  |     |  |  +--rw bgp:ospf-external1?   empty
|  |     |     |  |     |  |  +--rw bgp:ospf-external2?   empty
|  |     |     |  |     |  +--rw bgp:ospf-metric?         conn-metric
|  |     |     |  |     |  +--rw bgp:ospf-route-map?      rmap-type
|  |     |     |  |     +--rw bgp:redistribute-isis?
|  |     |     |  |     |  +--rw bgp:redistribute-isis-route-map?   common-def:name-string63
|  |     |     |  |     |  +--rw (ch-isis-level)?
|  |     |     |  |     |  |  +--:(ca-level-1)
|  |     |     |  |     |  |  |  +--rw bgp:level-1?                     empty
|  |     |     |  |     |  |  +--:(ca-level-2)
|  |     |     |  |     |  |  |  +--rw bgp:level-2?                     empty
|  |     |     |  |     |  |  +--:(ca-level-1-2)
```

```
|  |     |     |  |     |  |     +--rw bgp:level-1-2?                    empty
|  |     |     |  |     |  +--rw bgp:redistribute-isis-metric?      conn-metric
|  |     |     |  |     +--rw bgp:static
|  |     |     |  |        +--rw bgp:redistribute-static?     empty
|  |     |     |  |        +--rw bgp:unicast-static-metric?   conn-metric
|  |     |     |  |        +--rw bgp:static-route-map?        rmap-type
|  |     |     |  +--rw bgp:aggregate-ipv6-address [aggregate-ip-prefix]
|  |     |     |  |  +--rw bgp:aggregate-ip-prefix    inet:ipv6-prefix
|  |     |     |  |  +--rw bgp:advertise-map?         advertise-map
|  |     |     |  |  +--rw bgp:as-set?                empty
|  |     |     |  |  +--rw bgp:attribute-map?         attribute-map
|  |     |     |  |  +--rw bgp:summary-only?          empty
|  |     |     |  |  +--rw bgp:suppress-map?          suppress-map
|  |     |     |  +--rw bgp:network [network-ipv6-address]
|  |     |     |  |  +--rw bgp:network-ipv6-address    inet:ipv6-prefix
|  |     |     |  |  +--rw bgp:network-weight?         absolute-decimal-number
|  |     |     |  |  +--rw bgp:backdoor?               empty
|  |     |     |  |  +--rw bgp:network-route-map?      rmap-type
|  |     |     |  +--rw bgp:neighbor
|  |     |     |  |  +--rw bgp:af-ipv6-neighbor-peergroup-holder
|  |     |     |  |  |  +--rw bgp:af-ipv6-neighbor-peergroup [af-ipv6-neighbor-peergroup-name]
|  |     |     |  |  |     +--rw bgp:af-ipv6-neighbor-peergroup-name    bgp-peergroup
|  |     |     |  |  |     +--rw bgp:send-community
|  |     |     |  |  |     |  +--rw bgp:send-community-status?   empty
|  |     |     |  |  |     |  +--rw bgp:both?                    empty
|  |     |     |  |  |     |  +--rw bgp:extended?                empty
|  |     |     |  |  |     |  +--rw bgp:standard?                empty
|  |     |     |  |  |     +--rw bgp:af-neighbor-capability
|  |     |     |  |  |     |  +--rw bgp:orf
|  |     |     |  |  |     |     +--rw bgp:prefixlist
|  |     |     |  |  |     |        +--rw bgp:prefixlist-status?    empty
|  |     |     |  |  |     |        +--rw bgp:prefixlist-send?      empty
|  |     |     |  |  |     |        +--rw bgp:prefixlist-receive?   empty
|  |     |     |  |  |     +--rw bgp:activate?                         empty
|  |     |     |  |  |     +--rw bgp:allowas-in?                       uint32
|  |     |     |  |  |     +--rw bgp:filter-list
|  |     |     |  |  |     |  +--rw bgp:direction-in
|  |     |     |  |  |     |  |  +--rw bgp:filter-list-direction-in-acl-name?   ip-filter-name
|  |     |     |  |  |     |  |  +--rw bgp:filter-list-name-direction-in?       empty
|  |     |     |  |  |     |  +--rw bgp:direction-out
|  |     |     |  |  |     |     +--rw bgp:filter-list-direction-out-acl-name?   ip-filter-name
|  |     |     |  |  |     |     +--rw bgp:filter-list-name-direction-out?       empty
|  |     |     |  |  |     +--rw bgp:maximum-prefix
|  |     |     |  |  |     |  +--rw bgp:max-prefix-limit?   max-prefix-limit
|  |     |     |  |  |     |  +--rw bgp:threshold-holder
|  |     |     |  |  |     |     +--rw bgp:threshold?   max-prefix-threshold
|  |     |     |  |  |     |     +--rw bgp:teardown?    empty
|  |     |     |  |  |     +--rw bgp:default-originate
|  |     |     |  |  |     |  +--rw bgp:default-originate-status?   empty
|  |     |     |  |  |     +--rw bgp:prefix-list
|  |     |     |  |  |     |  +--rw bgp:direction-in
|  |     |     |  |  |     |  |  +--rw bgp:prefix-list-direction-in-prefix-name?   nei-prefix-
list-filter
|  |     |     |  |  |     |  |  +--rw bgp:prefix-list-direction-in?               empty
|  |     |     |  |  |     |  +--rw bgp:direction-out
|  |     |     |  |  |     |     +--rw bgp:prefix-list-direction-out-prefix-name?   nei-prefix-
list-filter
|  |     |     |  |  |     |     +--rw bgp:prefix-list-direction-out?               empty
|  |     |     |  |  |     +--rw bgp:neighbor-route-map
|  |     |     |  |  |     |  +--rw bgp:neighbor-route-map-direction-in
|  |     |     |  |  |     |  |  +--rw bgp:neighbor-route-map-name-direction-in?   common-
def:name-string64
|  |     |     |  |  |     |  +--rw bgp:neighbor-route-map-direction-out
|  |     |     |  |  |     |     +--rw bgp:neighbor-route-map-name-direction-out?   common-
def:name-string64
|  |     |     |  |  |     +--rw bgp:route-reflector-client?           empty
|  |     |     |  |  |     +--rw bgp:unsuppress-map
|  |     |     |  |  |     |  +--rw bgp:map-name?   rmap-type
|  |     |     |  |  |     +--rw bgp:af-nei-weight?                    nei-weight
|  |     |     |  |  +--rw bgp:af-ipv6-neighbor-address-holder
|  |     |     |  |     +--rw bgp:af-ipv6-neighbor-address [af-ipv6-neighbor-address]
|  |     |     |  |        +--rw bgp:af-ipv6-neighbor-address    inet:ipv6-address
```

```
|  |     |     |  |        +--rw bgp:send-community
|  |     |     |  |        |  +--rw bgp:send-community-status?   empty
|  |     |     |  |        |  +--rw bgp:both?                    empty
|  |     |     |  |        |  +--rw bgp:extended?                empty
|  |     |     |  |        |  +--rw bgp:standard?                empty
|  |     |     |  |        +--rw bgp:af-neighbor-capability
|  |     |     |  |        |  +--rw bgp:orf
|  |     |     |  |        |     +--rw bgp:prefixlist
|  |     |     |  |        |        +--rw bgp:prefixlist-status?    empty
|  |     |     |  |        |        +--rw bgp:prefixlist-send?      empty
|  |     |     |  |        |        +--rw bgp:prefixlist-receive?   empty
|  |     |     |  |        +--rw bgp:activate?                   empty
|  |     |     |  |        +--rw bgp:allowas-in?                 uint32
|  |     |     |  |        +--rw bgp:filter-list
|  |     |     |  |        |  +--rw bgp:direction-in
|  |     |     |  |        |  |  +--rw bgp:filter-list-direction-in-acl-name?   ip-filter-name
|  |     |     |  |        |  |  +--rw bgp:filter-list-name-direction-in?       empty
|  |     |     |  |        |  +--rw bgp:direction-out
|  |     |     |  |        |     +--rw bgp:filter-list-direction-out-acl-name?   ip-filter-name
|  |     |     |  |        |     +--rw bgp:filter-list-name-direction-out?       empty
|  |     |     |  |        +--rw bgp:maximum-prefix
|  |     |     |  |        |  +--rw bgp:max-prefix-limit?   max-prefix-limit
|  |     |     |  |        |  +--rw bgp:threshold-holder
|  |     |     |  |        |     +--rw bgp:threshold?   max-prefix-threshold
|  |     |     |  |        |     +--rw bgp:teardown?    empty
|  |     |     |  |        +--rw bgp:default-originate
|  |     |     |  |        |  +--rw bgp:default-originate-status?   empty
|  |     |     |  |        +--rw bgp:prefix-list
|  |     |     |  |        |  +--rw bgp:direction-in
|  |     |     |  |        |  |  +--rw bgp:prefix-list-direction-in-prefix-name?   nei-prefix-
list-filter
|  |     |     |  |        |  |  +--rw bgp:prefix-list-direction-in?               empty
|  |     |     |  |        |  +--rw bgp:direction-out
|  |     |     |  |        |     +--rw bgp:prefix-list-direction-out-prefix-name?   nei-prefix-
list-filter
|  |     |     |  |        |     +--rw bgp:prefix-list-direction-out?               empty
|  |     |     |  |        +--rw bgp:neighbor-route-map
|  |     |     |  |        |  +--rw bgp:neighbor-route-map-direction-in
|  |     |     |  |        |  |  +--rw bgp:neighbor-route-map-name-direction-in?   common-
def:name-string64
|  |     |     |  |        |  +--rw bgp:neighbor-route-map-direction-out
|  |     |     |  |        |     +--rw bgp:neighbor-route-map-name-direction-out?   common-
def:name-string64
|  |     |     |  |        +--rw bgp:route-reflector-client?     empty
|  |     |     |  |        +--rw bgp:unsuppress-map
|  |     |     |  |        |  +--rw bgp:map-name?   rmap-type
|  |     |     |  |        +--rw bgp:af-nei-weight?              nei-weight
|  |     |     |  +--rw bgp:af-common-cmds-holder
|  |     |     |  |  +--rw bgp:maximum-paths
|  |     |     |  |  |  +--rw bgp:load-sharing-value?   uint32
|  |     |     |  |  |  +--rw bgp:ebgp?                 ebgp-paths
|  |     |     |  |  |  +--rw bgp:ibgp?                 ibgp-paths
|  |     |     |  |  |  +--rw bgp:use-load-sharing?     empty
|  |     |     |  |  +--rw bgp:multipath
|  |     |     |  |  |  +--rw bgp:multipath_ebgp?   empty
|  |     |     |  |  |  +--rw bgp:multipath_ibgp?   empty
|  |     |     |  |  |  +--rw bgp:multi-as?         empty
|  |     |     |  |  +--rw bgp:always-propagate?                empty
|  |     |     |  |  +--rw bgp:default-information-originate?   empty
|  |     |     |  |  +--rw bgp:rib-route-limit?                 rib-route-number
|  |     |     |  |  +--rw bgp:client-to-client-reflection?     empty
|  |     |     |  |  +--rw bgp:dampening
|  |     |     |  |  |  +--rw (ch-dampening-source)?
|  |     |     |  |  |     +--:(ca-dampening-flag)
|  |     |     |  |  |     |  +--rw bgp:dampening-flag?        empty
|  |     |     |  |  |     +--:(ca-dampening-specify-values)
|  |     |     |  |  |     |  +--rw bgp:values
|  |     |     |  |  |     |     +--rw bgp:half-time?             htime
|  |     |     |  |  |     |     +--rw bgp:reuse-value?           damp-reuse-value
|  |     |     |  |  |     |     +--rw bgp:start-suppress-time?   damp-start-suppress-value
|  |     |     |  |  |     |     +--rw bgp:max-suppress-time?     damp-max-suppress-value
|  |     |     |  |  |     +--:(ca-dampening-route-map)
```

```
|  |     |     |  |  |        +--rw bgp:dampening-route-map?   rmap-type
|  |     |     |  |  +--rw bgp:default-metric?                 default-metric-number
|  |     |     |  |  +--rw bgp:next-hop-enable-default?        empty
|  |     |     |  |  +--rw bgp:table-map
|  |     |     |  |  |  +--rw bgp:table-map-route-map?   rmap-type
|  |     |     |  |  +--rw bgp:update-time?                    update-time-type
|  |     |     |  |  +--rw bgp:graceful-restart
|  |     |     |  |     +--rw bgp:graceful-restart-status?   empty
|  |     |     |  |     +--rw bgp:restart-time?              rtime-type
|  |     |     |  |     +--rw bgp:purge-time?                ptime-type
|  |     |     |  |     +--rw bgp:stale-routes-time?         st-time-type
|  |     |     |  +--rw bgp:ipv6-ucast-next-hop-recursion?              empty
|  |     |     +--rw bgp:af-ipv6-vrf [af-ipv6-vrf-name]
|  |     |        +--rw bgp:af-ipv6-vrf-name                           string
|  |     |        +--rw bgp:next-hop-recursion?                        empty
|  |     |        +--rw bgp:graceful-restart-status?                   empty
|  |     |        +--rw bgp:af-ipv6-uc-and-vrf-cmds-call-point-holder
|  |     |        |  +--rw bgp:bgp-redistribute-internal?   empty
|  |     |        |  +--rw bgp:redistribute
|  |     |        |     +--rw bgp:bgp
|  |     |        |     |  +--rw bgp:redistribute-bgp?   empty
|  |     |        |     |  +--rw bgp:bgp-metric?         conn-metric
|  |     |        |     |  +--rw bgp:bgp-route-map?      rmap-type
|  |     |        |     +--rw bgp:connected
|  |     |        |     |  +--rw bgp:redistribute-connected?   empty
|  |     |        |     |  +--rw bgp:unicast-metric?           conn-metric
|  |     |        |     |  +--rw bgp:redistribute-route-map?   rmap-type
|  |     |        |     +--rw bgp:ospf
|  |     |        |     |  +--rw bgp:redistribute-ospf?   empty
|  |     |        |     |  +--rw bgp:match
|  |     |        |     |  |  +--rw bgp:ospf-internal?    empty
|  |     |        |     |  |  +--rw bgp:ospf-external1?   empty
|  |     |        |     |  |  +--rw bgp:ospf-external2?   empty
|  |     |        |     |  +--rw bgp:ospf-metric?         conn-metric
|  |     |        |     |  +--rw bgp:ospf-route-map?      rmap-type
|  |     |        |     +--rw bgp:static
|  |     |        |        +--rw bgp:redistribute-static?     empty
|  |     |        |        +--rw bgp:unicast-static-metric?   conn-metric
|  |     |        |        +--rw bgp:static-route-map?        rmap-type
|  |     |        +--rw bgp:aggregate-ipv6-address [aggregate-ip-prefix]
|  |     |        |  +--rw bgp:aggregate-ip-prefix    inet:ipv6-prefix
|  |     |        |  +--rw bgp:advertise-map?         advertise-map
|  |     |        |  +--rw bgp:as-set?                empty
|  |     |        |  +--rw bgp:attribute-map?         attribute-map
|  |     |        |  +--rw bgp:summary-only?          empty
|  |     |        |  +--rw bgp:suppress-map?          suppress-map
|  |     |        +--rw bgp:network [network-ipv6-address]
|  |     |        |  +--rw bgp:network-ipv6-address    inet:ipv6-prefix
|  |     |        |  +--rw bgp:network-weight?         absolute-decimal-number
|  |     |        |  +--rw bgp:backdoor?               empty
|  |     |        |  +--rw bgp:network-route-map?      rmap-type
|  |     |        +--rw bgp:neighbor
|  |     |        |  +--rw bgp:af-ipv6-vrf-neighbor-address-holder
|  |     |        |     +--rw bgp:af-ipv6-neighbor-addr [af-ipv6-neighbor-address]
|  |     |        |        +--rw bgp:af-ipv6-neighbor-address      inet:ipv6-address
|  |     |        |        +--rw bgp:remote-as?                    bgp-remote-as
|  |     |        |        +--rw bgp:shutdown
|  |     |        |        |  +--rw bgp:shutdown-status?    empty
|  |     |        |        |  +--rw bgp:generate-rib-out?   empty
|  |     |        |        +--rw bgp:af-vrf-neighbor-capability
|  |     |        |        |  +--rw bgp:as4
|  |     |        |        |  |  +--rw bgp:neighbor-as4-enable?    empty
|  |     |        |        |  |  +--rw bgp:neighbor-as4-disable?   empty
|  |     |        |        |  +--rw bgp:orf
|  |     |        |        |     +--rw bgp:prefixlist
|  |     |        |        |        +--rw bgp:prefixlist-status?    empty
|  |     |        |        |        +--rw bgp:prefixlist-send?      empty
|  |     |        |        |        +--rw bgp:prefixlist-receive?   empty
|  |     |        |        +--rw bgp:allowas-in?                   uint32
|  |     |        |        +--rw bgp:filter-list
|  |     |        |        |  +--rw bgp:direction-in
|  |     |        |        |  |  +--rw bgp:filter-list-direction-in-acl-name?   ip-filter-name
```

```
|  |  |  |  |  |  +--rw bgp:filter-list-name-direction-in?       empty
|  |  |  |  |  +--rw bgp:direction-out
|  |  |  |  |     +--rw bgp:filter-list-direction-out-acl-name?   ip-filter-name
|  |  |  |  |     +--rw bgp:filter-list-name-direction-out?       empty
|  |  |  |  +--rw bgp:maximum-prefix
|  |  |  |  |  +--rw bgp:max-prefix-limit?   max-prefix-limit
|  |  |  |  |  +--rw bgp:threshold-holder
|  |  |  |  |     +--rw bgp:threshold?   max-prefix-threshold
|  |  |  |  |     +--rw bgp:teardown?    empty
|  |  |  |  +--rw bgp:default-originate
|  |  |  |  |  +--rw bgp:default-originate-status?   empty
|  |  |  |  +--rw bgp:prefix-list
|  |  |  |  |  +--rw bgp:direction-in
|  |  |  |  |  |  +--rw bgp:prefix-list-direction-in-prefix-name?   nei-prefix-
list-filter
|  |  |  |  |  |  +--rw bgp:prefix-list-direction-in?               empty
|  |  |  |  |  +--rw bgp:direction-out
|  |  |  |  |     +--rw bgp:prefix-list-direction-out-prefix-name?   nei-prefix-
list-filter
|  |  |  |  |     +--rw bgp:prefix-list-direction-out?               empty
|  |  |  |  +--rw bgp:neighbor-route-map
|  |  |  |  |  +--rw bgp:neighbor-route-map-direction-in
|  |  |  |  |  |  +--rw bgp:neighbor-route-map-name-direction-in?   common-
def:name-string64
|  |  |  |  |  +--rw bgp:neighbor-route-map-direction-out
|  |  |  |  |     +--rw bgp:neighbor-route-map-name-direction-out?   common-
def:name-string64
|  |  |  |  +--rw bgp:route-reflector-client?       empty
|  |  |  |  +--rw bgp:unsuppress-map
|  |  |  |  |  +--rw bgp:map-name?   rmap-type
|  |  |  |  +--rw bgp:af-nei-weight?                nei-weight
|  |  |  |  +--rw bgp:associate-peer-group?         bgp-peergroup
|  |  |  |  +--rw bgp:maxas-limit
|  |  |  |  |  +--rw bgp:in
|  |  |  |  |     +--rw (ch-maxas-limit)?
|  |  |  |  |        +--:(ca-maxas-limit-enable)
|  |  |  |  |        |  +--rw bgp:num-as-in-as-path?     num-as-in-as-path
|  |  |  |  |        +--:(ca-maxas-limit-disable)
|  |  |  |  |           +--rw bgp:maxas-limit-disable?   empty
|  |  |  |  +--rw bgp:description?                  neighbor-description
|  |  |  |  +--rw bgp:local-as
|  |  |  |  |  +--rw bgp:local-as-value?   local-as-num
|  |  |  |  |  +--rw bgp:no-prepend?       empty
|  |  |  |  +--rw bgp:next-hop-self
|  |  |  |  |  +--rw (ch-next-hop-self-type)?
|  |  |  |  |     +--:(ca-next-hop-self-always)
|  |  |  |  |     |  +--rw bgp:next-hop-self-always?   empty
|  |  |  |  |     +--:(ca-next-hop-self-status)
|  |  |  |  |        +--rw bgp:next-hop-self-status?   empty
|  |  |  |  +--rw bgp:advertisement-interval
|  |  |  |  |  +--rw bgp:value?   adv-value
|  |  |  |  +--rw bgp:ebgp-btsh?                    empty
|  |  |  |  +--rw bgp:ebgp-multihop
|  |  |  |  |  +--rw (ch-ebgp-multihop-type)?
|  |  |  |  |     +--:(ca-ebgp-multihop-flag)
|  |  |  |  |     |  +--rw bgp:ebgp-multihop-flag?    empty
|  |  |  |  |     +--:(ca-ebgp-multihop-count)
|  |  |  |  |        +--rw bgp:ebgp-multihop-count?   uint32
|  |  |  |  +--rw bgp:password?                     bgp-password
|  |  |  |  +--rw bgp:enforce-first-as
|  |  |  |  |  +--rw bgp:nei-enforce-first-as?           empty
|  |  |  |  |  +--rw bgp:nei-enforce-first-as-disable?   empty
|  |  |  |  +--rw bgp:timers
|  |  |  |  |  +--rw bgp:nei-keep-alive?   nei-keep-alive
|  |  |  |  |  +--rw bgp:nei-hold-time?    nei-hold-time
|  |  |  |  +--rw bgp:remove-private-as?            empty
|  |  |  |  +--rw bgp:as-override?                  empty
|  |  |  |  +--rw bgp:soft-reconfiguration
|  |  |  |  |  +--rw bgp:inbound?   empty
|  |  |  |  +--rw bgp:static-network-edge?          empty
|  |  |  |  +--rw bgp:update-source
|  |  |  |  |  +--rw (ch-update-source)?
```

```
|  |     |        |        |     +--:(ca-ipv6)
|  |     |        |        |     |  +--rw bgp:sip-ipv6-address?     sip-ipv6-address
|  |     |        |        |     +--:(ca-eth)
|  |     |        |        |     |  +--rw bgp:ethernet-interface
|  |     |        |        |     |     +--rw bgp:interface-type?   enumeration
|  |     |        |        |     |     +--rw bgp:interface-name?   update-source-ethernet-type
|  |     |        |        |     +--:(ca-loopback)
|  |     |        |        |     |  +--rw bgp:loopback?             loopback-interface
|  |     |        |        |     +--:(ca-ve)
|  |     |        |        |        +--rw bgp:ve-interface?         interface:ve-type
|  |     |        |        +--rw bgp:send-community
|  |     |        |        |  +--rw bgp:send-community-status?   empty
|  |     |        |        |  +--rw bgp:both?                    empty
|  |     |        |        |  +--rw bgp:extended?                empty
|  |     |        |        |  +--rw bgp:standard?                empty
|  |     |        |        +--rw bgp:activate?                     empty
|  |     |        +--rw bgp:maximum-paths
|  |     |        |  +--rw bgp:load-sharing-value?   uint32
|  |     |        |  +--rw bgp:ebgp?                 ebgp-paths
|  |     |        |  +--rw bgp:ibgp?                 ibgp-paths
|  |     |        |  +--rw bgp:use-load-sharing?     empty
|  |     |        +--rw bgp:multipath
|  |     |        |  +--rw bgp:multipath_ebgp?   empty
|  |     |        |  +--rw bgp:multipath_ibgp?   empty
|  |     |        |  +--rw bgp:multi-as?         empty
|  |     |        +--rw bgp:always-propagate?                              empty
|  |     |        +--rw bgp:default-information-originate?                 empty
|  |     |        +--rw bgp:rib-route-limit?                               rib-route-number
|  |     |        +--rw bgp:client-to-client-reflection?                   empty
|  |     |        +--rw bgp:dampening
|  |     |        |  +--rw (ch-dampening-source)?
|  |     |        |     +--:(ca-dampening-flag)
|  |     |        |     |  +--rw bgp:dampening-flag?        empty
|  |     |        |     +--:(ca-dampening-specify-values)
|  |     |        |     |  +--rw bgp:values
|  |     |        |     |     +--rw bgp:half-time?             htime
|  |     |        |     |     +--rw bgp:reuse-value?           damp-reuse-value
|  |     |        |     |     +--rw bgp:start-suppress-time?   damp-start-suppress-value
|  |     |        |     |     +--rw bgp:max-suppress-time?     damp-max-suppress-value
|  |     |        |     +--:(ca-dampening-route-map)
|  |     |        |        +--rw bgp:dampening-route-map?   rmap-type
|  |     |        +--rw bgp:default-metric?                                default-metric-number
|  |     |        +--rw bgp:next-hop-enable-default?                       empty
|  |     |        +--rw bgp:table-map
|  |     |        |  +--rw bgp:table-map-route-map?   rmap-type
|  |     |        +--rw bgp:update-time?                                   update-time-type
|  |     +--rw bgp:l2vpn
|  |        +--rw bgp:evpn?
|  |           +--rw bgp:af-evpn-neighbor-address-holder
|  |              +--rw bgp:af-evpn-neighbor [af-evpn-neighbor-address]
|  |                 +--rw bgp:af-evpn-neighbor-address    inet:ipv4-address
|  |                 +--rw bgp:evpn-nbr-activate?          empty
```

History

Release version	History
16.1.00	This YANG Module was introduced.

brocade-bridge-domain

This management module is an instrumentation to manage bridge-domain.

Top-level container

```
module: brocade-bridge-domain
+--rw bridge-domain [bridge-domain-id bridge-domain-type]
      +--rw bridge-domain-id      bridge-domain-id-type /*drop-node-name*/
      +--rw bridge-domain-type    enumeration
      +--rw vc-id-num?            uint32
      +--rw peer [peer-ip]
      |  +--rw peer-ip          inet:ipv4-address /*drop-node-name*/
      |  +--rw load-balance?    empty
      |  +--rw cos?             uint32
      |  +--rw lsp*             string
      +--rw statistics?           empty
      +--rw logical-interface
      |  +--rw ethernet [lif-bind-id]
      |  |  +--rw lif-bind-id    import-lif:lif-interface-type /*drop-node-name*/
      |  +--rw port-channel [pc-lif-bind-id]
      |     +--rw pc-lif-bind-id    import-lif:lif-port-channel-type
      +--rw pw-profile-name?      common-def:name-string64 /*alt-name:pw-profile*/
      +--rw bpdu-drop-enable?     empty /*alt-name:bpdu-drop-enable*/
      +--rw local-switching?      empty /*alt-name:local-switching*/
```

History

	History
16r.1.00	This Yang module was introduced.

brocade-cdp

Provides a data model for enabling or disabling the Cisco Discovery Protocol (CDP).

External augmentations

```
module: brocade-interface
   +--rw protocol
   |  +--rw cdp:cdp?
```

brocade-certutil

Provides a data model for certificate management operations.

This data model provides tail-f actions to perform functions such as importing an LDAP CA certificate, removing an LDAP CA certificate, or displaying the LDAP certificate.

Top-level container

```
module: brocade-certutil
   +--rw certutil
      +--rw import
         +---x ldapca
         |  +--ro input
         |  |  +--ro protocol     enumeration
         |  |  +--ro user         string
         |  |  +--ro password?    string
         |  |  +--ro host         string
         |  |  +--ro directory    string
         |  |  +--ro file         string
         |  +--ro output
         +---x syslogca
         |  +--ro input
         |  |  +--ro protocol     enumeration
         |  |  +--ro user         string
         |  |  +--ro password?    string
         |  |  +--ro host         string
         |  |  +--ro directory    string
         |  |  +--ro file         string
         |  +--ro output
         +---x sshkey
            +--ro input
            |  +--ro user         string
            |  +--ro host         string
            |  +--ro directory    string
            |  +--ro file         string
            |  +--ro login        string
            |  +--ro password?    string
            +--ro output
```

External augmentations

```
module: brocade-common-def
   +--rw no
   |  +--rw certutil:certutil
   +--rw show
   |  +--rw certutil:cert-util
```

Actions

Import an LDAP CA certificate:

```
module: brocade-certutil
   +--rw certutil
      +--rw import
         +--ro ldapca
         |  +--ro input
         |  |  +--ro protocol      enumeration
         |  |  +--ro user          string
         |  |  +--ro password?     string
         |  |  +--ro host          string
         |  |  +--ro directory     string
         |  |  +--ro file          string
```

Import a syslog server CA certificate:

```
module: brocade-certutil
   +--rw certutil
      +--rw import
         +--ro syslogca
         |  +--ro input
         |  |  +--ro protocol      enumeration
         |  |  +--ro user          string
         |  |  +--ro password?     string
         |  |  +--ro host          string
         |  |  +--ro directory     string
         |  |  +--ro file          string
         |  +--ro output
```

Import an SSH public key:

```
module: brocade-certutil
   +--rw certutil
      +--rw import
         +--ro sshkey
            +--ro input
            |  +--ro user          string
            |  +--ro host          string
            |  +--ro directory     string
            |  +--ro file          string
            |  +--ro login         string
            |  +--ro password?     string
            +--ro output
```

Remove an LDAP CA certificate:

```
module: brocade-common-def
   +--rw no
   |  +--rw certutil:certutil
   |  |  +--ro certutil:ldapca
   |  |  |  +--ro certutil:input
   |  |  |  +--ro certutil:output
```

Remove a syslog server CA certificate:

```
module: brocade-common-def
   +--rw no
   |  +--rw certutil:certutil
   |  |  +--ro certutil:syslogca
   |  |  |  +--ro certutil:input
   |  |  |  +--ro certutil:output
```

Remove an SSH public key:

```
module: brocade-common-def
   +--rw no
   |  +--rw certutil:certutil
   |  |  +--ro certutil:sshkey
   |  |     +--ro certutil:input
   |  |     |  +--ro certutil:user          string
   |  |     +--ro certutil:output
```

Show the LDAP CA certificate:

```
module: brocade-common-def
   +--rw show
   |  +--rw certutil:cert-util
   |  |  +--ro certutil:ldapcacert
   |  |  |  +--ro certutil:input
   |  |  |  +--ro certutil:output
```

Show the syslog server CA certificate:

```
module: brocade-common-def
   +--rw show
   |  +--rw certutil:cert-util
   |  |  +--ro certutil:syslogcacert
   |  |  |  +--ro certutil:input
   |  |  |  +--ro certutil:output
```

Show the SSH public key:

```
module: brocade-common-def
   +--rw show
   |  +--rw certutil:cert-util
   |  |  +--ro certutil:sshkey
   |  |     +--ro certutil:input
   |  |     |  +--ro certutil:user          string
   |  |     +--ro certutil:output
```

History

	History
16r.1.00	This Yang module was introduced.

brocade-chassis

Provides a data model for enabling and disabling the chassis.

Top-level container

```
module: brocade-chassis
   +--rw hide-virtual-ip-holder
   |  +--rw chassis
   |     +--rw virtual-ip?     common-def:ipv4-prefix-mask
   |     +--rw virtual-ipv6?   common-def:ipv6-address-prefix
   |     +--rw oper-address
   |        +--ro virtual-oper-Vip-address?     common-def:ipv4-address-prefix-type
   |        +--ro virtual-oper-VipV6-address*   string
   +--rw chassis
      +---x enable
      +---x disable
      +--rw beacon
      |  +---x enable
      |  +---x disable
      +--rw fan
         +--rw airflow-direction
            +---x port-side-intake
            +---x port-side-exhaust
```

Actions

Enable the chassis:

```
module: brocade-chassis
   +--rw chassis
      +--ro enable
```

Disable the chassis:

```
module: brocade-chassis
   +--rw chassis
      +--ro disable
```

Enable the chassis beacon:

```
module: brocade-chassis
   +--rw chassis
      +--rw beacon
      |  +--ro enable
```

Disable the chassis beacon:

```
module: brocade-chassis
   +--rw chassis
      +--rw beacon
      |  +--ro disable
```

Set the airflow direction to port-side-intake:

```
module: brocade-chassis
   +--rw chassis
      +--rw fan
         +--rw airflow-direction
            +--ro port-side-intake
```

Set the airflow direction to port-side-exhaust:

```
module: brocade-chassis
   +--rw chassis
      +--rw fan
         +--rw airflow-direction
            +--ro port-side-exhaust
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-clock

Provides a data model for managing the local clock, setting the local clock time and time zone, and for retrieving local clock information.

Top-level container

```
module: brocade-clock
   +--rw clock-set-datetime
   |  +--ro clock
   |     +--ro input
   |     |  +--ro set    ietfyang:date-and-time
   |     +--ro output
   +--rw clock-sa
      +--rw clock
         +--rw timezone?   common-def:timezone
```

External augmentations

```
module: brocade-common-def
   |  +--rw clock-server:clock
```

RPCs

Retrieve local clock information:

```
   +---x show-clock
      +--ro input
      +--ro output
         +--ro clock-time
            +--ro current-time?     ietfyang:date-and-time
            +--ro timezone?         string
```

Actions

Set the date and time:

```
module: brocade-clock
   +--rw clock-set-datetime
   |  +--ro clock
   |     +--ro input
   |     |  +--ro set           ietfyang:date-and-time
   |     +--ro output
```

Set the time zone:

```
module: brocade-clock
   +--rw clock-set-timezone
      +--ro clock
         +--ro input
         |  +--ro timezone      common-def:timezone
         +--ro output
```

Retrieving the time zone:

```
module: brocade-common-def
   +--rw no
   |  +--rw clock-server:clock
   |  |  +--ro clock-server:timezone
```

```
|  |     +--ro clock-server:input
|  |     +--ro clock-server:output
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-common-def

Provides a data model for commonly used data types derived in the Brocade namespace.

Top-level container

```
module: brocade-common-def
   +--rw show
   |  +--rw defaults
   |  |  +--rw threshold-monitor-extensions:threshold
   |  |     +---x threshold-monitor-extensions:sfp
   |  |        +--ro threshold-monitor-extensions:input
   |  |           +--ro threshold-monitor-extensions:type    sfp-type
   |  +--rw aaa-extensions:aaa-users
   |  |  +---x aaa-extensions:users
   |  |     +--ro aaa-extensions:input
   |  +--rw certutil:cert-util
   |  |  +---x certutil:ldapcacert
   |  |  |  +--ro certutil:input
   |  |  |  +--ro certutil:output
   |  |  +---x certutil:syslogcacert
   |  |  |  +--ro certutil:input
   |  |  |  +--ro certutil:output
   |  |  +---x certutil:sshkey
   |  |     +--ro certutil:input
   |  |     |  +--ro certutil:user    string
   |  |     +--ro certutil:output
   |  +--rw brcd-crypto-ext:crypto
   |  |  +--rw brcd-crypto-ext:key
   |  |  |  +---x brcd-crypto-ext:mypubkey
   |  |  |     +--ro brcd-crypto-ext:input
   |  |  +--rw brcd-crypto-ext:ca
   |  |     +---x brcd-crypto-ext:trustpoint
   |  |     |  +--ro brcd-crypto-ext:input
   |  |     +---x brcd-crypto-ext:certificates
   |  |        +--ro brcd-crypto-ext:input
   |  +--rw diagnostics:diag
   |  |  +--rw diagnostics:post
   |  |  |  +---x diagnostics:results
   |  |  |     +--ro diagnostics:input
   |  |  |     |  +--ro (localremote)?
   |  |  |     |  |  +--:(local)
   |  |  |     |  |     +--ro diagnostics:slot        slotidtype
   |  |  |     |  +--ro (postresult)?
   |  |  |     |     +--:(brief)
   |  |  |     |     |  +--ro diagnostics:brief?      empty
   |  |  |     |     +--:(detailed)
   |  |  |     |        +--ro diagnostics:detailed?   empty
   |  |  |     +--ro diagnostics:output
   |  |  |        +--ro diagnostics:result?   string
   |  |  +---x diagnostics:status
   |  |  |  +--ro diagnostics:input
   |  |  |  |  +--ro (localremote)?
   |  |  |  |     +--:(local)
   |  |  |  |        +--ro diagnostics:slot    slotidtype
   |  |  |  +--ro diagnostics:output
   |  |  |     +--ro diagnostics:result?   string
   |  |  +---x diagnostics:burninstatus
   |  |  |  +--ro diagnostics:input
   |  |  |  +--ro diagnostics:output
   |  |  |     +--ro diagnostics:result?   string
   |  |  +---x diagnostics:burninerrshow
   |  |     +--ro diagnostics:input
   |  |     +--ro diagnostics:output
   |  |        +--ro diagnostics:result?   string
   |  +--rw distributedlog:log
   |  |  +---x distributedlog:audit
   |  |     +--ro distributedlog:input
```

```
|  |        +--ro (audit-log-input)
|  |        |  +--:(non-support-save-logs)
|  |        |  |  +--ro distributedlog:non-support-save?   empty
|  |        |  +--:(all-logs)
|  |        |  |  +--ro distributedlog:all?               empty
|  |        |  +--:(filtered-logs)
|  |        |     +--ro distributedlog:user?              string
|  |        |     +--ro distributedlog:type?              enumeration
|  |        +--ro distributedlog:limit?             uint32
|  +--rw event-handler:event-handler
|  |  +---x event-handler:activations
|  |     +--ro event-handler:input
|  +--rw firmware-extensions:firmware
|  |  +---x firmware-extensions:firmwaredownloadstatus
|  |  |  +--ro firmware-extensions:input
|  |  |  |  +--ro firmware-extensions:brief?     empty
|  |  |  |  +--ro firmware-extensions:summary?   empty
|  |  |  +--ro firmware-extensions:output
|  |  |     +--ro firmware-extensions:result?   string
|  |  +---x firmware-extensions:firmwaredownloadhistory
|  |  |  +--ro firmware-extensions:input
|  |  |  +--ro firmware-extensions:output
|  |  |     +--ro firmware-extensions:result?   string
|  |  +---x firmware-extensions:firmware
|  |  |  +--ro firmware-extensions:input
|  |  |  |  +--ro firmware-extensions:auto-sync?   enumeration
|  |  |  +--ro firmware-extensions:output
|  |  |     +--ro firmware-extensions:result?   string
|  |  +---x firmware-extensions:version
|  |  |  +--ro firmware-extensions:input
|  |  |  |  +--ro firmware-extensions:brief?            empty
|  |  |  |  +--ro firmware-extensions:all-partitions?   empty
|  |  |  +--ro firmware-extensions:output
|  |  |     +--ro firmware-extensions:result?   string
|  |  +---x firmware-extensions:firmware-features
|  |     +--ro firmware-extensions:input
|  |     +--ro firmware-extensions:output
|  |        +--ro firmware-extensions:result?   string
|  +--rw firmware:dhcp-auto-deployment
|  |  +---x firmware:dadstatus
|  |     +--ro firmware:input
|  |     +--ro firmware:output
|  |        +--ro firmware:result?   string
|  +--rw hardware:hardware
|  |  +---x hardware:port-group
|  |  |  +--ro hardware:input
|  |  |  +--ro hardware:output
|  |  +---x hardware:profile
|  |     +--ro hardware:input
|  |     |  +--ro (profile-type)?
|  |     |     +--:(tcam)
|  |     |     |  +--ro hardware:tcam?               tcam-profile-subtype
|  |     |     +--:(lag)
|  |     |     |  +--ro hardware:lag?                lag-profile-subtype
|  |     |     +--:(counters)
|  |     |     |  +--ro hardware:counters?           counters-profile-subtype
|  |     |     +--:(current)
|  |     |        +--ro hardware:current-container
|  |     |           +--ro hardware:current?   empty
|  |     |           +--ro hardware:usage?     empty
|  |     |           +--ro hardware:slot?      uint32
|  |     |           +--ro hardware:chip?      uint32
|  |     +--ro hardware:output
|  +--rw ha:ha
|  |  +---x ha:ha
|  |     +--ro ha:input
|  |        +--ro ha:all-partitions?   empty
|  +--rw ha:redundancy
|  |  +---x ha:redundancy
|  +--rw http-config:http
|  |  +--rw http-config:server
|  |     +---x http-config:status
```

```
|  |        +--ro http-config:input
|  |        +--ro http-config:output
|  +--rw brocade-license:license
|  |  +---x brocade-license:id
|  |     +--ro brocade-license:input
|  |     +--ro brocade-license:output
|  |        +--ro brocade-license:licenseid-list
|  |           +--ro brocade-license:license-id?   string
|  +--rw brocade-license:enh-show-license-keys
|  |  +---x brocade-license:license
|  |  |  +--ro brocade-license:input
|  |  |  |  +--ro (single-or-all)?
|  |  |  |     +--:(eula)
|  |  |  |        +--ro brocade-license:eula?   empty
|  |  |  +--ro brocade-license:output
|  |  |     +--ro brocade-license:license-list
|  |  |        +--ro brocade-license:license-details
|  |  |           +--ro brocade-license:license-data?           string
|  |  |           +--ro brocade-license:license-expiry-date?    string
|  |  |           +--ro brocade-license:license-feature-name?   string
|  |  |           +--ro brocade-license:license-capacity?       string
|  |  |           +--ro brocade-license:license-consumed?       string
|  |  |           +--ro brocade-license:license-valid-state?    string
|  |  |           +--ro brocade-license:license-vendor-info?    string
|  |  +---x brocade-license:dpod
|  |     +--ro brocade-license:input
|  |     +--ro brocade-license:output
|  |        +--ro brocade-license:showdpod-list
|  |           +--ro brocade-license:dpod-details
|  |              +--ro brocade-license:dpod-ports?                    uint32
|  |              +--ro brocade-license:dpod-licenses-installed?       uint32
|  |              +--ro brocade-license:num-ports-provisioned?         uint32
|  |              +--ro brocade-license:num-ports-reserved?            uint32
|  |              +--ro brocade-license:num-ports-license-available?   uint32
|  +--rw linecard-management:linecardinfo
|  |  +---x linecard-management:linecard
|  |     +--ro linecard-management:input
|  |     +--ro linecard-management:output
|  +--rw linecard-management:sfminfo
|  |  +---x linecard-management:switch_fabric_module
|  |     +--ro linecard-management:input
|  |     +--ro linecard-management:output
|  +--rw linecard-management:mminfor
|  |  +---x linecard-management:mm
|  |     +--ro linecard-management:input
|  |     +--ro linecard-management:output
|  +--rw linecard-management:slotsinfor
|  |  +---x linecard-management:slots
|  |     +--ro linecard-management:input
|  |     +--ro linecard-management:output
|  +--rw name-server:name-server
|  |  +---x name-server:brief
|  |  |  +--ro name-server:input
|  |  +---x name-server:detail
|  |  |  +--ro name-server:output
|  |  |     +--ro name-server:show-nameserver [nameserver-portid]
|  |  |        +--ro name-server:nameserver-portid                nameserver-portid-type
|  |  |        +--ro name-server:nameserver-portname?             common-def:wwn-type
|  |  |        +--ro name-server:nameserver-nodename?             common-def:wwn-type
|  |  |        +--ro name-server:nameserver-scr?                  uint32
|  |  |        +--ro name-server:nameserver-fc4s?                 nameserver-fc4s-type
|  |  |        +--ro name-server:nameserver-portsymb?             nameserver-symbolic-name-type
|  |  |        +--ro name-server:nameserver-nodesymb?             nameserver-symbolic-name-type
|  |  |        +--ro name-server:nameserver-fabric-portname?      common-def:wwn-type
|  |  |        +--ro name-server:nameserver-permanent-portname?   common-def:wwn-type
|  |  |        +--ro name-server:nameserver-devicetype?           nameserver-devicetype-type
|  |  |        +--ro name-server:nameserver-index?                uint32
|  |  |        +--ro name-server:nameserver-porttype?             nameserver-porttype-type
|  |  |        +--ro name-server:nameserver-cos?                  nameserver-cos-type
|  |  |        +--ro name-server:nameserver-sharearea?            nameserver-sharearea-type
|  |  |        +--ro name-server:nameserver-redirect?             nameserver-redirect-type
|  |  |        +--ro name-server:nameserver-xlatedomain?          nameserver-xlatedomain-type
```

```
|  |  |        +--ro name-server:nameserver-connected-via-ag?     nameserver-connected-via-ag-type
|  |  |        +--ro name-server:nameserver-ag-base-device?       nameserver-ag-base-device-type
|  |  |        +--ro name-server:nameserver-real?                 nameserver-real-type
|  |  |        +--ro name-server:nameserver-cascaded?             nameserver-cascaded-type
|  |  +---x name-server:nodefind
|  |  |  +--ro name-server:input
|  |  |     +--ro (pid-or-wwn)?
|  |  |        +--:(wwn)
|  |  |        |  +--ro name-server:wwn    common-def:wwn-type
|  |  |        +--:(pid)
|  |  |           +--ro name-server:pid    nameserver-fcid-hexstring-type
|  |  +---x name-server:zonemember
|  |     +--ro name-server:input
|  |        +--ro (pid-or-wwn)?
|  |           +--:(wwn)
|  |           |  +--ro name-server:wwn    common-def:wwn-type
|  |           +--:(pid)
|  |              +--ro name-server:pid    nameserver-fcid-hexstring-type
|  +--rw brcd-sec-services:telnet
|  |  +--rw brcd-sec-services:server
|  |     +---x brcd-sec-services:status
|  |        +--ro brcd-sec-services:input
|  |        +--ro brcd-sec-services:output
|  +--rw brcd-sec-services:ssh
|  |  +--rw brcd-sec-services:server
|  |  |  +---x brcd-sec-services:status
|  |  |     +--ro brcd-sec-services:input
|  |  |     +--ro brcd-sec-services:output
|  |  +--rw brcd-sec-services:client
|  |     +---x brcd-sec-services:status
|  |        +--ro brcd-sec-services:input
|  |        +--ro brcd-sec-services:output
|  +--rw ras-extensions:support
|  |  +---x ras-extensions:support
|  |     +--ro ras-extensions:input
|  |     +--ro ras-extensions:output
|  +--rw ras-extensions:copy-support
|  |  +---x ras-extensions:status
|  |  |  +--ro ras-extensions:input
|  |  |  +--ro ras-extensions:output
|  |  +---x ras-extensions:group-list
|  |     +--ro ras-extensions:output
|  +--rw ras-extensions:infra-inventory
|  |  +---x ras-extensions:inventory
|  |     +--ro ras-extensions:input
|  |     |  +--ro (opt)?
|  |     |     +--:(chassis)
|  |     |     |  +--ro ras-extensions:chassis?       empty
|  |     |     +--:(fan)
|  |     |     |  +--ro ras-extensions:fan?           empty
|  |     |     +--:(module)
|  |     |     |  +--ro ras-extensions:module?        empty
|  |     |     +--:(powerSupply)
|  |     |        +--ro ras-extensions:powerSupply?   empty
|  |     +--ro ras-extensions:output
|  +--rw ras-extensions:infra
|  |  +---x ras-extensions:chassis
|  |  |  +--ro ras-extensions:input
|  |  |  +--ro ras-extensions:output
|  |  |     +--ro ras-extensions:chassis-info
|  |  |        +--ro ras-extensions:switch-type               uint32
|  |  |        +--ro ras-extensions:vendor                    string
|  |  |        +--ro ras-extensions:vendor-version            string
|  |  |        +--ro ras-extensions:supplier-serial-number?   string
|  |  |        +--ro ras-extensions:chassis-service-tag?      string
|  |  |        +--ro ras-extensions:bay-id?                   string
|  |  |        +--ro ras-extensions:vendor-part-number?       string
|  |  |        +--ro ras-extensions:brocade-part-number?      string
|  |  |        +--ro ras-extensions:max-port?                 int32
|  |  |        +--ro ras-extensions:is-ha-enabled?            boolean
|  |  |        +--ro ras-extensions:is-ha-redundant?          boolean
|  |  |        +--ro ras-extensions:is-ha-heartbeat-up?       boolean
```

```
|  |  |        +--ro ras-extensions:is-ha-synchronized?       boolean
|  |  |        +--ro ras-extensions:ha-recovery?              ha-recovery-type
|  |  |        +--ro ras-extensions:fru
|  |  |           +--ro ras-extensions:tag                      uint32
|  |  |           +--ro ras-extensions:part-number              string
|  |  |           +--ro ras-extensions:serial-number            string
|  |  |           +--ro ras-extensions:field-replacable         boolean
|  |  |           +--ro ras-extensions:slot-number              uint32
|  |  |           +--ro ras-extensions:logical-slot-number?     uint32
|  |  |           +--ro ras-extensions:blade-type-id?           uint32
|  |  |           +--ro ras-extensions:slot-eth-port-cnt?       uint32
|  |  |           +--ro ras-extensions:manufacturer-date        xs:date
|  |  |           +--ro ras-extensions:update-date              xs:date
|  |  |           +--ro ras-extensions:version                  string
|  |  |           +--ro ras-extensions:vendor-equipment-type    fru-type
|  |  |           +--ro ras-extensions:operational-status       fru-operational-status
|  |  |           +--ro ras-extensions:manufacturer             string
|  |  |           +--ro ras-extensions:vendor?                  string
|  |  |           +--ro ras-extensions:vendor-part-number?      string
|  |  |           +--ro ras-extensions:vendor-serial-number?    string
|  |  +--rw ras-extensions:process
|  |  |  +---x ras-extensions:info
|  |  |  |  +--ro ras-extensions:input
|  |  |  |  +--ro ras-extensions:output
|  |  |  +---x ras-extensions:memory
|  |  |  |  +--ro ras-extensions:input
|  |  |  |  |  +--ro ras-extensions:summary?   empty
|  |  |  |  +--ro ras-extensions:output
|  |  |  +---x ras-extensions:cpu
|  |  |     +--ro ras-extensions:input
|  |  |     |  +--ro ras-extensions:summary?          empty
|  |  |     |  +--ro ras-extensions:history?          empty
|  |  |     |  +--ro ras-extensions:top?              empty
|  |  |     |  +--ro ras-extensions:all-partitions?   empty
|  |  |     +--ro ras-extensions:output
|  |  +--rw ras-extensions:environment
|  |     +---x ras-extensions:fan
|  |     |  +--ro ras-extensions:input
|  |     |  +--ro ras-extensions:output
|  |     +---x ras-extensions:power
|  |     |  +--ro ras-extensions:input
|  |     |  +--ro ras-extensions:output
|  |     +---x ras-extensions:temp
|  |     |  +--ro ras-extensions:input
|  |     |  +--ro ras-extensions:output
|  |     +---x ras-extensions:sensor
|  |     |  +--ro ras-extensions:input
|  |     |  +--ro ras-extensions:output
|  |     |     +--ro ras-extensions:sensor-info
|  |     |        +--ro ras-extensions:sensor
|  |     |           +--ro ras-extensions:id                uint32
|  |     |           +--ro ras-extensions:type              sensor-type
|  |     |           +--ro ras-extensions:sub-type          uint32
|  |     |           +--ro ras-extensions:status            sensor-status
|  |     |           +--ro ras-extensions:current-reading   int32
|  |     +---x ras-extensions:history
|  |        +--ro ras-extensions:input
|  |        +--ro ras-extensions:output
|  +--rw ras-extensions:logging
|  |  +---x ras-extensions:raslog
|  |  |  +--ro ras-extensions:input
|  |  |  |  +--ro ras-extensions:reverse?        empty
|  |  |  |  +--ro ras-extensions:message-type?   enumeration
|  |  |  |  +--ro ras-extensions:attribute?      enumeration
|  |  |  |  +--ro ras-extensions:blade?          string
|  |  |  |  +--ro ras-extensions:count?          uint16
|  |  |  |  +--ro ras-extensions:severity?       enumeration
|  |  |  +--ro ras-extensions:output
|  |  +---x ras-extensions:auditlog
|  |     +--ro ras-extensions:input
|  |     |  +--ro ras-extensions:reverse?   empty
|  |     |  +--ro ras-extensions:count?     uint16
```

```
|  |     +--ro ras-extensions:output
|  +--rw sysmgr:bpswitch
|  |  +--rw sysmgr:show-stats
|  |     +---x sysmgr:stats
|  |        +--ro sysmgr:input
|  |        |  +--ro (show-bpswitch-type)?
|  |        |     +--:(stats1)
|  |        |     |  +--ro sysmgr:port?     uint32
|  |        |     +--:(stats2)
|  |        |        +--ro sysmgr:global?   empty
|  |        +--ro sysmgr:output
|  +--rw system-monitor-extensions:system
|     +---x system-monitor-extensions:monitor
|        +--ro system-monitor-extensions:output
|           +--ro system-monitor-extensions:switch-status
|              +--ro system-monitor-extensions:switch-name?        string
|              +--ro system-monitor-extensions:switch-ip?          inet:ip-address
|              +--ro system-monitor-extensions:report-time?        ietfyang:date-and-time
|              +--ro system-monitor-extensions:switch-state?       system-monitor-health-state-enum
|              +--ro system-monitor-extensions:component-status
|              |  +--ro system-monitor-extensions:component-name?    string
|              |  +--ro system-monitor-extensions:component-state?   system-monitor-health-state-enum
|              +--ro system-monitor-extensions:faulty-port
|                 +--ro system-monitor-extensions:port-name?   string
+--rw clear
|  +--rw brcd-aaa:login
|  |  +---x brcd-aaa:sessions
|  |     +--ro brcd-aaa:input
|  |     +--ro brcd-aaa:output
|  +--rw event-handler:event-handler
|  |  +---x event-handler:action
|  |     +--ro event-handler:input
|  |        +--ro event-handler:event-handler-name    common-def:name-string32
|  +--rw ras-extensions:support
|  |  +---x ras-extensions:support
|  |     +--ro ras-extensions:input
|  |     +--ro ras-extensions:output
|  +--rw ras-extensions:logging
|  |  +---x ras-extensions:raslog
|  |  |  +--ro ras-extensions:input
|  |  |  |  +--ro ras-extensions:message-type?   enumeration
|  |  |  +--ro ras-extensions:output
|  |  +---x ras-extensions:auditlog
|  |     +--ro ras-extensions:input
|  |     +--ro ras-extensions:output
|  +--rw sysmgr:bpswitch
|     +---x sysmgr:clear-stats
|        +--ro sysmgr:input
|        +--ro sysmgr:output
+--rw no
|  +--rw certutil:certutil
|  |  +---x certutil:ldapca
|  |  |  +--ro certutil:input
|  |  |  +--ro certutil:output
|  |  +---x certutil:syslogca
|  |  |  +--ro certutil:input
|  |  |  +--ro certutil:output
|  |  +---x certutil:sshkey
|  |     +--ro certutil:input
|  |     |  +--ro certutil:user    string
|  |     +--ro certutil:output
|  +--rw clock-server:clock
|  |  +---x clock-server:timezone
|  |     +--ro clock-server:input
|  |     +--ro clock-server:output
|  +--rw brcd-crypto-ext:nocrypto
|     +--rw brcd-crypto-ext:ca
|        +---x brcd-crypto-ext:authenticate
|        |  +--ro brcd-crypto-ext:input
|        |     +--ro brcd-crypto-ext:authenticate_params
|        |        +--ro brcd-crypto-ext:trustpoint    string
|        +---x brcd-crypto-ext:import
```

```
|           +--ro brcd-crypto-ext:input
|              +--ro brcd-crypto-ext:authenticate_params
|                 +--ro brcd-crypto-ext:trustpoint     string
|                 +--ro brcd-crypto-ext:certificate    empty
+--rw ip
|  +--rw ip-administration:dns
|  |  +--rw ip-administration:dom-name
|  |  |  +--rw ip-administration:domain-name?   string
|  |  +--rw ip-administration:name-server [name-server-ip]
|  |     +--rw ip-administration:name-server-ip    inet:ip-address
|  +--rw ip-policy:hide-prefix-holder
|  |  +--rw ip-policy:prefix-list [name seq-keyword instance]
|  |     +--rw ip-policy:name           ip-prefix-name-t
|  |     +--rw ip-policy:seq-keyword    enumeration
|  |     +--rw ip-policy:instance       instance-id-t
|  |     +--rw ip-policy:action-ipp?    action-t
|  |     +--rw ip-policy:prefix-ipp?    inet:ipv4-prefix
|  |     +--rw ip-policy:ge-ipp?        prefix-len-t
|  |     +--rw ip-policy:le-ipp?        prefix-len-t
|  +--rw ip-policy:hide-as-path-holder
|  |  +--rw ip-policy:as-path
|  |     +--rw ip-policy:access-list [name seq-keyword instance]
|  |        +--rw ip-policy:name           ip-as-path-name-t
|  |        +--rw ip-policy:seq-keyword    enumeration
|  |        +--rw ip-policy:instance       instance-id-t
|  |        +--rw ip-policy:ip-action?     action-t
|  |        +--rw ip-policy:ip-reg-expr?   ip-as-path-reg-expr-t
|  +--rw ip-policy:hide-community-list-holder
|  |  +--rw ip-policy:community-list
|  |     +--rw ip-policy:standard [name seq-keyword instance]
|  |     |  +--rw ip-policy:name                  ip-community-list-name-t
|  |     |  +--rw ip-policy:seq-keyword           enumeration
|  |     |  +--rw ip-policy:instance              instance-id-t
|  |     |  +--rw ip-policy:ip-action?            action-t
|  |     |  +--rw ip-policy:std-community-expr?   ip-std-community-expr-t
|  |     +--rw ip-policy:extended [name seq-keyword instance]
|  |        +--rw ip-policy:name                     ip-community-list-name-t
|  |        +--rw ip-policy:seq-keyword              enumeration
|  |        +--rw ip-policy:instance                 instance-id-t
|  |        +--rw ip-policy:ip-action?               action-t
|  |        +--rw ip-policy:ip-community-reg-expr?   ip-community-reg-expr-t
|  +--rw ip-policy:hide-ext-community-list-holder
|  |  +--rw ip-policy:extcommunity-list
|  |     +--rw ip-policy:standard [extcommunity-list-name]
|  |        +--rw ip-policy:extcommunity-list-name    ip-extcommunity-list-name-t
|  |        +--rw ip-policy:ext-community-action?     action-t
|  |        +--rw ip-policy:ext-community-expr?       extcommunity-list-expr-t
|  +--rw rtm:rtm-config
|     +--rw rtm:router-id?      inet:ipv4-address
|     +--rw rtm:load-sharing?   uint32
|     +--rw rtm:route
|     |  +--rw rtm:static-route-nh [static-route-dest static-route-next-hop]
|     |  |  +--rw rtm:static-route-dest        inet:ipv4-prefix
|     |  |  +--rw rtm:static-route-next-hop    inet:ipv4-address
|     |  |  +--rw rtm:route-attributes
|     |  |     +--rw rtm:metric?     uint32
|     |  |     +--rw rtm:distance?   uint32
|     |  |     +--rw rtm:tag?        uint32
|     |  +--rw rtm:static-route-nh-vrf [static-route-next-vrf-dest next-hop-vrf static-route-next-hop]
|     |  |  +--rw rtm:static-route-next-vrf-dest    inet:ipv4-prefix
|     |  |  +--rw rtm:next-hop-vrf                  common-def:vrf-name
|     |  |  +--rw rtm:static-route-next-hop         inet:ipv4-address
|     |  +--rw rtm:static-route-oif-vrf [static-route-next-vrf-dest next-hop-vrf static-route-oif-type
static-route-oif-name]
|     |  |  +--rw rtm:static-route-next-vrf-dest    inet:ipv4-prefix
|     |  |  +--rw rtm:next-hop-vrf                  common-def:vrf-name
|     |  |  +--rw rtm:static-route-oif-type         enumeration
|     |  |  +--rw rtm:static-route-oif-name         string
|     |  +--rw rtm:static-route-oif [static-route-dest static-route-oif-type static-route-oif-name]
|     |     +--rw rtm:static-route-dest        inet:ipv4-prefix
|     |     +--rw rtm:static-route-oif-type    enumeration
|     |     +--rw rtm:static-route-oif-name    string
```

```
   |     |     +--rw rtm:route-attributes
   |     |        +--rw rtm:metric?     uint32
   |     |        +--rw rtm:distance?   uint32
   |     |        +--rw rtm:tag?        uint32
   |     +--rw rtm:import
   |        +--rw rtm:routes [src-vrf route-map]
   |           +--rw rtm:src-vrf      common-def:vrf-name
   |           +--rw rtm:route-map    common-def:name-string63
   +--rw ipv6
   |  +--rw ip-policy:prefix-list [name seq-keyword instance]
   |  |  +--rw ip-policy:name               ipv6-prefix-name-t
   |  |  +--rw ip-policy:seq-keyword        enumeration
   |  |  +--rw ip-policy:instance           instance-id-t
   |  |  +--rw ip-policy:action-ipp?        action-t
   |  |  +--rw ip-policy:ipv6-prefix-ipp?   inet:ipv6-prefix
   |  |  +--rw ip-policy:ge-ipp?            ipv6-prefix-len-t
   |  |  +--rw ip-policy:le-ipp?            ipv6-prefix-len-t
   |  +--rw ipv6-nd-ra:ipv6-global-cmds
   |  |  +--rw ipv6-nd-ra:nd-global
   |  |     +--rw ipv6-nd-ra:global-suppress-ra?   empty
   |  |     +--rw ipv6-nd-ra:dns-server-global [dns-server-prefix-global]
   |  |     |  +--rw ipv6-nd-ra:dns-server-prefix-global      inet:ipv6-address
   |  |     |  +--rw ipv6-nd-ra:dns-server-lifetime-global?   uint32
   |  |     +--rw ipv6-nd-ra:domain-name-global [domain-name-string-global]
   |  |        +--rw ipv6-nd-ra:domain-name-string-global      string
   |  |        +--rw ipv6-nd-ra:domain-name-lifetime-global?   uint32
   |  +--rw ipv6-route:route
   |  |  +--rw ipv6-route:static-route-nh [static-route-dest static-route-next-hop]
   |  |  |  +--rw ipv6-route:static-route-dest        inet:ipv6-prefix
   |  |  |  +--rw ipv6-route:static-route-next-hop    inet:ipv6-address
   |  |  |  +--rw ipv6-route:route-attributes
   |  |  |     +--rw ipv6-route:metric?     uint32
   |  |  |     +--rw ipv6-route:distance?   uint32
   |  |  |     +--rw ipv6-route:tag?        uint32
   |  |  +--rw ipv6-route:static-route-oif [static-route-dest static-route-oif-type static-route-oif-name]
   |  |  |  +--rw ipv6-route:static-route-dest        inet:ipv6-prefix
   |  |  |  +--rw ipv6-route:static-route-oif-type    enumeration
   |  |  |  +--rw ipv6-route:static-route-oif-name    string
   |  |  |  +--rw ipv6-route:route-attributes
   |  |  |     +--rw ipv6-route:metric?     uint32
   |  |  |     +--rw ipv6-route:distance?   uint32
   |  |  |     +--rw ipv6-route:tag?        uint32
   |  |  +--rw ipv6-route:link-local-static-route-nh [link-local-static-route-dest link-local-nexthop link-
local-route-oif-type link-local-route-oif-name]
   |  |  |  +--rw ipv6-route:link-local-static-route-dest    inet:ipv6-prefix
   |  |  |  +--rw ipv6-route:link-local-nexthop              inet:ipv6-address
   |  |  |  +--rw ipv6-route:link-local-route-oif-type       enumeration
   |  |  |  +--rw ipv6-route:link-local-route-oif-name       string
   |  |  |  +--rw ipv6-route:route-attributes
   |  |  |     +--rw ipv6-route:metric?     uint32
   |  |  |     +--rw ipv6-route:distance?   uint32
   |  |  |     +--rw ipv6-route:tag?        uint32
   |  |  +--rw ipv6-route:static-route-nh-vrf [static-route-next-vrf-dest next-hop-vrf static-route-next-
hop]
   |  |  |  +--rw ipv6-route:static-route-next-vrf-dest    inet:ipv6-prefix
   |  |  |  +--rw ipv6-route:next-hop-vrf                  common-def:vrf-name
   |  |  |  +--rw ipv6-route:static-route-next-hop         inet:ipv6-address
   |  |  +--rw ipv6-route:link-local-static-route-nh-vrf [static-route-next-vrf-dest next-hop-vrf link-
local-next-hop link-local-route-oif-type link-local-route-oif-name]
   |  |  |  +--rw ipv6-route:static-route-next-vrf-dest    inet:ipv6-prefix
   |  |  |  +--rw ipv6-route:next-hop-vrf                  common-def:vrf-name
   |  |  |  +--rw ipv6-route:link-local-next-hop           inet:ipv6-address
   |  |  |  +--rw ipv6-route:link-local-route-oif-type     enumeration
   |  |  |  +--rw ipv6-route:link-local-route-oif-name     string
   |  |  +--rw ipv6-route:ipv6-static-route-oif-vrf [static-route-next-vrf-dest next-hop-vrf static-route-
oif-type static-route-oif-name]
   |  |     +--rw ipv6-route:static-route-next-vrf-dest    inet:ipv6-prefix
   |  |     +--rw ipv6-route:next-hop-vrf                  common-def:vrf-name
   |  |     +--rw ipv6-route:static-route-oif-type         enumeration
   |  |     +--rw ipv6-route:static-route-oif-name         string
   |  +--rw ipv6-route:import
   |  |  +--rw ipv6-route:routes [src-vrf route-map]
```

```
|  |     +--rw ipv6-route:src-vrf      common-def:vrf-name
|  |     +--rw ipv6-route:route-map    common-def:name-string63
|  +--rw vrrpv3:proto-vrrpv3
|     +--rw vrrpv3:vrrp?            empty
|     +--rw vrrpv3:vrrp-extended?   empty
+--rw router
+--rw routing-system
   +--rw router
   |  +--rw bgp:router-bgp?
   |  |  +--rw bgp:router-bgp-attributes
   |  |  |  +--rw bgp:local-as?                       local-as-type
   |  |  |  +--rw bgp:always-compare-med?             empty
   |  |  |  +--rw bgp:compare-med-empty-aspath?       empty
   |  |  |  +--rw bgp:med-missing-as-worst?           empty
   |  |  |  +--rw bgp:as-path-ignore?                 empty
   |  |  |  +--rw bgp:compare-routerid?               empty
   |  |  |  +--rw bgp:install-igp-cost?               empty
   |  |  |  +--rw bgp:cluster-id
   |  |  |  |  +--rw (ch-cluster-id)?
   |  |  |  |     +--:(ca-cluster-id)
   |  |  |  |     |  +--rw bgp:cluster-id-value?          decimal-number
   |  |  |  |     +--:(ca-cluster-id-ipv4-address)
   |  |  |  |        +--rw bgp:cluster-id-ipv4-address?   inet:ipv4-address
   |  |  |  +--rw bgp:default-local-preference?       local-preference-number
   |  |  |  +--rw bgp:distance
   |  |  |  |  +--rw bgp:ext-route-distance?   ext-route-distance
   |  |  |  |  +--rw bgp:int-route-distance?   int-route-distance
   |  |  |  |  +--rw bgp:lcl-route-distance?   lcl-route-distance
   |  |  |  +--rw bgp:capability
   |  |  |  |  +--rw bgp:as4-enable?   empty
   |  |  |  +--rw bgp:maxas-limit
   |  |  |  |  +--rw bgp:in
   |  |  |  |     +--rw bgp:num-as-in-path?   num-as-in-path
   |  |  |  +--rw bgp:enforce-first-as?               empty
   |  |  |  +--rw bgp:fast-external-fallover?         empty
   |  |  |  +--rw bgp:timers
   |  |  |  |  +--rw bgp:keep-alive?   nei-keep-alive
   |  |  |  |  +--rw bgp:hold-time?    nei-hold-time
   |  |  |  +--rw bgp:log-dampening-debug?            empty
   |  |  |  +--rw bgp:confederation
   |  |  |  |  +--rw bgp:identifier?   cidentifier
   |  |  |  |  +--rw bgp:peers*        cidentifier
   |  |  |  +--rw bgp:auto-shutdown-new-neighbors?   empty
   |  |  |  +--rw bgp:neighbor
   |  |  |     +--rw bgp:peer-grps
   |  |  |        |  +--rw bgp:neighbor-peer-grp [router-bgp-neighbor-peer-grp]
   |  |  |        |     +--rw bgp:router-bgp-neighbor-peer-grp    bgp-peergroup
   |  |  |        |     +--rw bgp:peer-group-name?                empty
   |  |  |        |     +--rw bgp:remote-as?                      bgp-remote-as
   |  |  |        |     +--rw bgp:update-source
   |  |  |        |     |  +--rw (ch-update-source)?
   |  |  |        |     |     +--:(ca-ipv4)
   |  |  |        |     |     |  +--rw bgp:sip-ipv4-address?     sip-ipv4-address
   |  |  |        |     |     +--:(ca-eth)
   |  |  |        |     |     |  +--rw bgp:ethernet-interface
   |  |  |        |     |     |     +--rw bgp:interface-type?   enumeration
   |  |  |        |     |     |     +--rw bgp:interface-name?   update-source-ethernet-type
   |  |  |        |     |     +--:(ca-loopback)
   |  |  |        |     |     |  +--rw bgp:loopback?             loopback-interface
   |  |  |        |     |     +--:(ca-ve)
   |  |  |        |     |        +--rw bgp:ve-interface?         interface:ve-type
   |  |  |        |     +--rw bgp:description?                    neighbor-description
   |  |  |        |     +--rw bgp:local-as
   |  |  |        |     |  +--rw bgp:local-as-value?   local-as-num
   |  |  |        |     |  +--rw bgp:no-prepend?       empty
   |  |  |        |     +--rw bgp:next-hop-self
   |  |  |        |     |  +--rw (ch-next-hop-self-type)?
   |  |  |        |     |     +--:(ca-next-hop-self-always)
   |  |  |        |     |     |  +--rw bgp:next-hop-self-always?   empty
   |  |  |        |     |     +--:(ca-next-hop-self-status)
   |  |  |        |     |        +--rw bgp:next-hop-self-status?   empty
   |  |  |        |     +--rw bgp:advertisement-interval
```

```
|  |  |  |     |     |  +--rw bgp:value?   adv-value
|  |  |  |     |     +--rw bgp:ebgp-btsh?                       empty
|  |  |  |     |     +--rw bgp:ebgp-multihop
|  |  |  |     |     |  +--rw (ch-ebgp-multihop-type)?
|  |  |  |     |     |     +--:(ca-ebgp-multihop-flag)
|  |  |  |     |     |     |  +--rw bgp:ebgp-multihop-flag?    empty
|  |  |  |     |     |     +--:(ca-ebgp-multihop-count)
|  |  |  |     |     |        +--rw bgp:ebgp-multihop-count?   uint32
|  |  |  |     |     +--rw bgp:password?                       bgp-password
|  |  |  |     |     +--rw bgp:enforce-first-as
|  |  |  |     |     |  +--rw bgp:nei-enforce-first-as?           empty
|  |  |  |     |     |  +--rw bgp:nei-enforce-first-as-disable?   empty
|  |  |  |     |     +--rw bgp:timers
|  |  |  |     |     |  +--rw bgp:nei-keep-alive?   nei-keep-alive
|  |  |  |     |     |  +--rw bgp:nei-hold-time?    nei-hold-time
|  |  |  |     |     +--rw bgp:remove-private-as?              empty
|  |  |  |     |     +--rw bgp:as-override?                    empty
|  |  |  |     |     +--rw bgp:soft-reconfiguration
|  |  |  |     |     |  +--rw bgp:inbound?   empty
|  |  |  |     |     +--rw bgp:static-network-edge?            empty
|  |  |  |     |     +--rw bgp:maxas-limit
|  |  |  |     |     |  +--rw bgp:in
|  |  |  |     |     |     +--rw (ch-maxas-limit)?
|  |  |  |     |     |        +--:(ca-maxas-limit-enable)
|  |  |  |     |     |        |  +--rw bgp:num-as-in-as-path?     num-as-in-as-path
|  |  |  |     |     |        +--:(ca-maxas-limit-disable)
|  |  |  |     |     |           +--rw bgp:maxas-limit-disable?   empty
|  |  |  |     |     +--rw bgp:af-neighbor-capability
|  |  |  |     |     |  +--rw bgp:as4
|  |  |  |     |     |     +--rw bgp:neighbor-as4-enable?    empty
|  |  |  |     |     |     +--rw bgp:neighbor-as4-disable?   empty
|  |  |  |     |     +--rw bgp:shutdown
|  |  |  |     |        +--rw bgp:shutdown-status?    empty
|  |  |  |     |        +--rw bgp:generate-rib-out?   empty
|  |  |  |     +--rw bgp:neighbor-ipv6s
|  |  |  |     |  +--rw bgp:neighbor-ipv6-addr [router-bgp-neighbor-ipv6-address]
|  |  |  |     |     +--rw bgp:router-bgp-neighbor-ipv6-address    inet:ipv6-address
|  |  |  |     |     +--rw bgp:remote-as?                          bgp-remote-as
|  |  |  |     |     +--rw bgp:associate-peer-group?               bgp-peergroup
|  |  |  |     |     +--rw bgp:update-source
|  |  |  |     |     |  +--rw (ch-update-source)?
|  |  |  |     |     |     +--:(ca-ipv6)
|  |  |  |     |     |     |  +--rw bgp:sip-ipv6-address?     sip-ipv6-address
|  |  |  |     |     |     +--:(ca-eth)
|  |  |  |     |     |     |  +--rw bgp:ethernet-interface
|  |  |  |     |     |     |     +--rw bgp:interface-type?   enumeration
|  |  |  |     |     |     |     +--rw bgp:interface-name?   update-source-ethernet-type
|  |  |  |     |     |     +--:(ca-loopback)
|  |  |  |     |     |     |  +--rw bgp:loopback?             loopback-interface
|  |  |  |     |     |     +--:(ca-ve)
|  |  |  |     |     |        +--rw bgp:ve-interface?         interface:ve-type
|  |  |  |     |     +--rw bgp:description?                         neighbor-description
|  |  |  |     |     +--rw bgp:local-as
|  |  |  |     |     |  +--rw bgp:local-as-value?   local-as-num
|  |  |  |     |     |  +--rw bgp:no-prepend?       empty
|  |  |  |     |     +--rw bgp:next-hop-self
|  |  |  |     |     |  +--rw (ch-next-hop-self-type)?
|  |  |  |     |     |     +--:(ca-next-hop-self-always)
|  |  |  |     |     |     |  +--rw bgp:next-hop-self-always?   empty
|  |  |  |     |     |     +--:(ca-next-hop-self-status)
|  |  |  |     |     |        +--rw bgp:next-hop-self-status?   empty
|  |  |  |     |     +--rw bgp:advertisement-interval
|  |  |  |     |     |  +--rw bgp:value?   adv-value
|  |  |  |     |     +--rw bgp:ebgp-btsh?                          empty
|  |  |  |     |     +--rw bgp:ebgp-multihop
|  |  |  |     |     |  +--rw (ch-ebgp-multihop-type)?
|  |  |  |     |     |     +--:(ca-ebgp-multihop-flag)
|  |  |  |     |     |     |  +--rw bgp:ebgp-multihop-flag?    empty
|  |  |  |     |     |     +--:(ca-ebgp-multihop-count)
|  |  |  |     |     |        +--rw bgp:ebgp-multihop-count?   uint32
|  |  |  |     |     +--rw bgp:password?                           bgp-password
|  |  |  |     |     +--rw bgp:enforce-first-as
```

```
|  |  |     |     |  +--rw bgp:nei-enforce-first-as?           empty
|  |  |     |     |  +--rw bgp:nei-enforce-first-as-disable?   empty
|  |  |     |     +--rw bgp:timers
|  |  |     |     |  +--rw bgp:nei-keep-alive?   nei-keep-alive
|  |  |     |     |  +--rw bgp:nei-hold-time?    nei-hold-time
|  |  |     |     +--rw bgp:remove-private-as?                 empty
|  |  |     |     +--rw bgp:as-override?                       empty
|  |  |     |     +--rw bgp:soft-reconfiguration
|  |  |     |     |  +--rw bgp:inbound?   empty
|  |  |     |     +--rw bgp:static-network-edge?               empty
|  |  |     |     +--rw bgp:maxas-limit
|  |  |     |     |  +--rw bgp:in
|  |  |     |     |     +--rw (ch-maxas-limit)?
|  |  |     |     |        +--:(ca-maxas-limit-enable)
|  |  |     |     |        |  +--rw bgp:num-as-in-as-path?     num-as-in-as-path
|  |  |     |     |        +--:(ca-maxas-limit-disable)
|  |  |     |     |           +--rw bgp:maxas-limit-disable?   empty
|  |  |     |     +--rw bgp:af-neighbor-capability
|  |  |     |     |  +--rw bgp:as4
|  |  |     |     |     +--rw bgp:neighbor-as4-enable?    empty
|  |  |     |     |     +--rw bgp:neighbor-as4-disable?   empty
|  |  |     |     +--rw bgp:shutdown
|  |  |     |        +--rw bgp:shutdown-status?    empty
|  |  |     |        +--rw bgp:generate-rib-out?   empty
|  |  |     +--rw bgp:neighbor-ips
|  |  |        +--rw bgp:neighbor-addr [router-bgp-neighbor-address]
|  |  |           +--rw bgp:router-bgp-neighbor-address    inet:ipv4-address
|  |  |           +--rw bgp:remote-as                      bgp-remote-as
|  |  |           +--rw bgp:associate-peer-group?          bgp-peergroup
|  |  |           +--rw bgp:update-source
|  |  |           |  +--rw (ch-update-source)?
|  |  |           |     +--:(ca-ipv4)
|  |  |           |     |  +--rw bgp:sip-ipv4-address?     sip-ipv4-address
|  |  |           |     +--:(ca-eth)
|  |  |           |     |  +--rw bgp:ethernet-interface
|  |  |           |     |     +--rw bgp:interface-type?   enumeration
|  |  |           |     |     +--rw bgp:interface-name?   update-source-ethernet-type
|  |  |           |     +--:(ca-loopback)
|  |  |           |     |  +--rw bgp:loopback?             loopback-interface
|  |  |           |     +--:(ca-ve)
|  |  |           |        +--rw bgp:ve-interface?         interface:ve-type
|  |  |           +--rw bgp:description?                   neighbor-description
|  |  |           +--rw bgp:local-as
|  |  |           |  +--rw bgp:local-as-value?   local-as-num
|  |  |           |  +--rw bgp:no-prepend?       empty
|  |  |           +--rw bgp:next-hop-self
|  |  |           |  +--rw (ch-next-hop-self-type)?
|  |  |           |     +--:(ca-next-hop-self-always)
|  |  |           |     |  +--rw bgp:next-hop-self-always?   empty
|  |  |           |     +--:(ca-next-hop-self-status)
|  |  |           |        +--rw bgp:next-hop-self-status?   empty
|  |  |           +--rw bgp:advertisement-interval
|  |  |           |  +--rw bgp:value?   adv-value
|  |  |           +--rw bgp:ebgp-btsh?                     empty
|  |  |           +--rw bgp:ebgp-multihop
|  |  |           |  +--rw (ch-ebgp-multihop-type)?
|  |  |           |     +--:(ca-ebgp-multihop-flag)
|  |  |           |     |  +--rw bgp:ebgp-multihop-flag?    empty
|  |  |           |     +--:(ca-ebgp-multihop-count)
|  |  |           |        +--rw bgp:ebgp-multihop-count?   uint32
|  |  |           +--rw bgp:password?                      bgp-password
|  |  |           +--rw bgp:enforce-first-as
|  |  |           |  +--rw bgp:nei-enforce-first-as?           empty
|  |  |           |  +--rw bgp:nei-enforce-first-as-disable?   empty
|  |  |           +--rw bgp:timers
|  |  |           |  +--rw bgp:nei-keep-alive?   nei-keep-alive
|  |  |           |  +--rw bgp:nei-hold-time?    nei-hold-time
|  |  |           +--rw bgp:remove-private-as?             empty
|  |  |           +--rw bgp:as-override?                   empty
|  |  |           +--rw bgp:soft-reconfiguration
|  |  |           |  +--rw bgp:inbound?   empty
|  |  |           +--rw bgp:static-network-edge?           empty
```

```
|  |  |           +--rw bgp:maxas-limit
|  |  |           |  +--rw bgp:in
|  |  |           |     +--rw (ch-maxas-limit)?
|  |  |           |        +--:(ca-maxas-limit-enable)
|  |  |           |        |  +--rw bgp:num-as-in-as-path?     num-as-in-as-path
|  |  |           |        +--:(ca-maxas-limit-disable)
|  |  |           |           +--rw bgp:maxas-limit-disable?   empty
|  |  |           +--rw bgp:af-neighbor-capability
|  |  |           |  +--rw bgp:as4
|  |  |           |     +--rw bgp:neighbor-as4-enable?    empty
|  |  |           |     +--rw bgp:neighbor-as4-disable?   empty
|  |  |           +--rw bgp:shutdown
|  |  |              +--rw bgp:shutdown-status?    empty
|  |  |              +--rw bgp:generate-rib-out?   empty
|  |  +--rw bgp:address-family
|  |     +--rw bgp:ipv4
|  |     |  +--rw bgp:ipv4-unicast
|  |     |     +--rw bgp:default-vrf
|  |     |     |  +--rw bgp:default-vrf-selected?                          empty
|  |     |     |  +--rw bgp:af-ipv4-uc-and-vrf-cmds-call-point-holder
|  |     |     |  |  +--rw bgp:bgp-redistribute-internal?   empty
|  |     |     |  |  +--rw bgp:redistribute
|  |     |     |  |     +--rw bgp:bgp
|  |     |     |  |     |  +--rw bgp:redistribute-bgp?   empty
|  |     |     |  |     |  +--rw bgp:bgp-metric?         conn-metric
|  |     |     |  |     |  +--rw bgp:bgp-route-map?      rmap-type
|  |     |     |  |     +--rw bgp:connected
|  |     |     |  |     |  +--rw bgp:redistribute-connected?   empty
|  |     |     |  |     |  +--rw bgp:unicast-metric?           conn-metric
|  |     |     |  |     |  +--rw bgp:redistribute-route-map?   rmap-type
|  |     |     |  |     +--rw bgp:ospf
|  |     |     |  |     |  +--rw bgp:redistribute-ospf?   empty
|  |     |     |  |     |  +--rw bgp:match
|  |     |     |  |     |  |  +--rw bgp:ospf-internal?    empty
|  |     |     |  |     |  |  +--rw bgp:ospf-external1?   empty
|  |     |     |  |     |  |  +--rw bgp:ospf-external2?   empty
|  |     |     |  |     |  +--rw bgp:ospf-metric?         conn-metric
|  |     |     |  |     |  +--rw bgp:ospf-route-map?      rmap-type
|  |     |     |  |     +--rw bgp:redistribute-isis?
|  |     |     |  |     |  +--rw bgp:redistribute-isis-route-map?   common-def:name-string63
|  |     |     |  |     |  +--rw (ch-isis-level)?
|  |     |     |  |     |  |  +--:(ca-level-1)
|  |     |     |  |     |  |  |  +--rw bgp:level-1?                      empty
|  |     |     |  |     |  |  +--:(ca-level-2)
|  |     |     |  |     |  |  |  +--rw bgp:level-2?                      empty
|  |     |     |  |     |  |  +--:(ca-level-1-2)
|  |     |     |  |     |  |     +--rw bgp:level-1-2?                    empty
|  |     |     |  |     |  +--rw bgp:redistribute-isis-metric?      conn-metric
|  |     |     |  |     +--rw bgp:static
|  |     |     |  |        +--rw bgp:redistribute-static?     empty
|  |     |     |  |        +--rw bgp:unicast-static-metric?   conn-metric
|  |     |     |  |        +--rw bgp:static-route-map?        rmap-type
|  |     |     |  +--rw bgp:static-network [static-network-address]
|  |     |     |  |  +--rw bgp:static-network-address     inet:ipv4-prefix
|  |     |     |  |  +--rw bgp:static-network-distance?   sdistance
|  |     |     |  +--rw bgp:aggregate-address [aggregate-ip-prefix]
|  |     |     |  |  +--rw bgp:aggregate-ip-prefix    inet:ipv4-prefix
|  |     |     |  |  +--rw bgp:advertise-map?         advertise-map
|  |     |     |  |  +--rw bgp:as-set?                empty
|  |     |     |  |  +--rw bgp:attribute-map?         attribute-map
|  |     |     |  |  +--rw bgp:summary-only?          empty
|  |     |     |  |  +--rw bgp:suppress-map?          suppress-map
|  |     |     |  +--rw bgp:network [network-ipv4-address]
|  |     |     |  |  +--rw bgp:network-ipv4-address    inet:ipv4-prefix
|  |     |     |  |  +--rw bgp:network-weight?         absolute-decimal-number
|  |     |     |  |  +--rw bgp:backdoor?               empty
|  |     |     |  |  +--rw bgp:network-route-map?      rmap-type
|  |     |     |  +--rw bgp:neighbor
|  |     |     |  |  +--rw bgp:af-ipv4-neighbor-peergroup-holder
|  |     |     |  |  |  +--rw bgp:af-ipv4-neighbor-peergroup [af-ipv4-neighbor-peergroup-name]
|  |     |     |  |  |     +--rw bgp:af-ipv4-neighbor-peergroup-name    bgp-peergroup
|  |     |     |  |  |     +--rw bgp:send-community
```

```
|  |     |     |  |  |     |  +--rw bgp:send-community-status?   empty
|  |     |     |  |  |     |  +--rw bgp:both?                    empty
|  |     |     |  |  |     |  +--rw bgp:extended?                empty
|  |     |     |  |  |     |  +--rw bgp:standard?                empty
|  |     |     |  |  |     +--rw bgp:af-neighbor-capability
|  |     |     |  |  |     |  +--rw bgp:orf
|  |     |     |  |  |     |     +--rw bgp:prefixlist
|  |     |     |  |  |     |        +--rw bgp:prefixlist-status?    empty
|  |     |     |  |  |     |        +--rw bgp:prefixlist-send?      empty
|  |     |     |  |  |     |        +--rw bgp:prefixlist-receive?   empty
|  |     |     |  |  |     +--rw bgp:activate?                          empty
|  |     |     |  |  |     +--rw bgp:allowas-in?                        uint32
|  |     |     |  |  |     +--rw bgp:filter-list
|  |     |     |  |  |     |  +--rw bgp:direction-in
|  |     |     |  |  |     |  |  +--rw bgp:filter-list-direction-in-acl-name?   ip-filter-name
|  |     |     |  |  |     |  |  +--rw bgp:filter-list-name-direction-in?       empty
|  |     |     |  |  |     |  +--rw bgp:direction-out
|  |     |     |  |  |     |     +--rw bgp:filter-list-direction-out-acl-name?   ip-filter-name
|  |     |     |  |  |     |     +--rw bgp:filter-list-name-direction-out?       empty
|  |     |     |  |  |     +--rw bgp:maximum-prefix
|  |     |     |  |  |     |  +--rw bgp:max-prefix-limit?   max-prefix-limit
|  |     |     |  |  |     |  +--rw bgp:threshold-holder
|  |     |     |  |  |     |     +--rw bgp:threshold?   max-prefix-threshold
|  |     |     |  |  |     |     +--rw bgp:teardown?    empty
|  |     |     |  |  |     +--rw bgp:default-originate
|  |     |     |  |  |     |  +--rw bgp:default-originate-status?   empty
|  |     |     |  |  |     +--rw bgp:prefix-list
|  |     |     |  |  |     |  +--rw bgp:direction-in
|  |     |     |  |  |     |  |  +--rw bgp:prefix-list-direction-in-prefix-name?   nei-prefix-list-
filter
|  |     |     |  |  |     |  |  +--rw bgp:prefix-list-direction-in?               empty
|  |     |     |  |  |     |  +--rw bgp:direction-out
|  |     |     |  |  |     |     +--rw bgp:prefix-list-direction-out-prefix-name?   nei-prefix-list-
filter
|  |     |     |  |  |     |     +--rw bgp:prefix-list-direction-out?               empty
|  |     |     |  |  |     +--rw bgp:neighbor-route-map
|  |     |     |  |  |     |  +--rw bgp:neighbor-route-map-direction-in
|  |     |     |  |  |     |  |  +--rw bgp:neighbor-route-map-name-direction-in?   common-def:name-
string64
|  |     |     |  |  |     |  +--rw bgp:neighbor-route-map-direction-out
|  |     |     |  |  |     |     +--rw bgp:neighbor-route-map-name-direction-out?   common-def:name-
string64
|  |     |     |  |  |     +--rw bgp:route-reflector-client?            empty
|  |     |     |  |  |     +--rw bgp:unsuppress-map
|  |     |     |  |  |     |  +--rw bgp:map-name?   rmap-type
|  |     |     |  |  |     +--rw bgp:af-nei-weight?                     nei-weight
|  |     |     |  |  +--rw bgp:af-ipv4-neighbor-address-holder
|  |     |     |  |     +--rw bgp:af-ipv4-neighbor-address [af-ipv4-neighbor-address]
|  |     |     |  |        +--rw bgp:af-ipv4-neighbor-address    inet:ipv4-address
|  |     |     |  |        +--rw bgp:send-community
|  |     |     |  |        |  +--rw bgp:send-community-status?   empty
|  |     |     |  |        |  +--rw bgp:both?                    empty
|  |     |     |  |        |  +--rw bgp:extended?                empty
|  |     |     |  |        |  +--rw bgp:standard?                empty
|  |     |     |  |        +--rw bgp:af-neighbor-capability
|  |     |     |  |        |  +--rw bgp:orf
|  |     |     |  |        |     +--rw bgp:prefixlist
|  |     |     |  |        |        +--rw bgp:prefixlist-status?    empty
|  |     |     |  |        |        +--rw bgp:prefixlist-send?      empty
|  |     |     |  |        |        +--rw bgp:prefixlist-receive?   empty
|  |     |     |  |        +--rw bgp:activate?                       empty
|  |     |     |  |        +--rw bgp:allowas-in?                     uint32
|  |     |     |  |        +--rw bgp:filter-list
|  |     |     |  |        |  +--rw bgp:direction-in
|  |     |     |  |        |  |  +--rw bgp:filter-list-direction-in-acl-name?   ip-filter-name
|  |     |     |  |        |  |  +--rw bgp:filter-list-name-direction-in?       empty
|  |     |     |  |        |  +--rw bgp:direction-out
|  |     |     |  |        |     +--rw bgp:filter-list-direction-out-acl-name?   ip-filter-name
|  |     |     |  |        |     +--rw bgp:filter-list-name-direction-out?       empty
|  |     |     |  |        +--rw bgp:maximum-prefix
|  |     |     |  |        |  +--rw bgp:max-prefix-limit?   max-prefix-limit
|  |     |     |  |        |  +--rw bgp:threshold-holder
```

```
        |  |     |     |  |        |     +--rw bgp:threshold?   max-prefix-threshold
        |  |     |     |  |        |     +--rw bgp:teardown?    empty
        |  |     |     |  |        +--rw bgp:default-originate
        |  |     |     |  |        |  +--rw bgp:default-originate-status?   empty
        |  |     |     |  |        +--rw bgp:prefix-list
        |  |     |     |  |        |  +--rw bgp:direction-in
        |  |     |     |  |        |  |  +--rw bgp:prefix-list-direction-in-prefix-name?   nei-prefix-list-
    filter
        |  |     |     |  |        |  |  +--rw bgp:prefix-list-direction-in?               empty
        |  |     |     |  |        |  +--rw bgp:direction-out
        |  |     |     |  |        |     +--rw bgp:prefix-list-direction-out-prefix-name?   nei-prefix-list-
    filter
        |  |     |     |  |        |     +--rw bgp:prefix-list-direction-out?               empty
        |  |     |     |  |        +--rw bgp:neighbor-route-map
        |  |     |     |  |        |  +--rw bgp:neighbor-route-map-direction-in
        |  |     |     |  |        |  |  +--rw bgp:neighbor-route-map-name-direction-in?   common-def:name-
    string64
        |  |     |     |  |        |  +--rw bgp:neighbor-route-map-direction-out
        |  |     |     |  |        |     +--rw bgp:neighbor-route-map-name-direction-out?   common-def:name-
    string64
        |  |     |     |  |        +--rw bgp:route-reflector-client?     empty
        |  |     |     |  |        +--rw bgp:unsuppress-map
        |  |     |     |  |        |  +--rw bgp:map-name?   rmap-type
        |  |     |     |  |        +--rw bgp:af-nei-weight?              nei-weight
        |  |     |     |  +--rw bgp:af-common-cmds-holder
        |  |     |     |  |  +--rw bgp:maximum-paths
        |  |     |     |  |  |  +--rw bgp:load-sharing-value?   uint32
        |  |     |     |  |  |  +--rw bgp:ebgp?                 ebgp-paths
        |  |     |     |  |  |  +--rw bgp:ibgp?                 ibgp-paths
        |  |     |     |  |  |  +--rw bgp:use-load-sharing?     empty
        |  |     |     |  |  +--rw bgp:multipath
        |  |     |     |  |  |  +--rw bgp:multipath_ebgp?   empty
        |  |     |     |  |  |  +--rw bgp:multipath_ibgp?   empty
        |  |     |     |  |  |  +--rw bgp:multi-as?         empty
        |  |     |     |  |  +--rw bgp:always-propagate?                empty
        |  |     |     |  |  +--rw bgp:default-information-originate?   empty
        |  |     |     |  |  +--rw bgp:rib-route-limit?                 rib-route-number
        |  |     |     |  |  +--rw bgp:client-to-client-reflection?     empty
        |  |     |     |  |  +--rw bgp:dampening
        |  |     |     |  |  |  +--rw (ch-dampening-source)?
        |  |     |     |  |  |     +--:(ca-dampening-flag)
        |  |     |     |  |  |     |  +--rw bgp:dampening-flag?        empty
        |  |     |     |  |  |     +--:(ca-dampening-specify-values)
        |  |     |     |  |  |     |  +--rw bgp:values
        |  |     |     |  |  |     |     +--rw bgp:half-time?            htime
        |  |     |     |  |  |     |     +--rw bgp:reuse-value?          damp-reuse-value
        |  |     |     |  |  |     |     +--rw bgp:start-suppress-time?   damp-start-suppress-value
        |  |     |     |  |  |     |     +--rw bgp:max-suppress-time?     damp-max-suppress-value
        |  |     |     |  |  |     +--:(ca-dampening-route-map)
        |  |     |     |  |  |        +--rw bgp:dampening-route-map?   rmap-type
        |  |     |     |  |  +--rw bgp:default-metric?                  default-metric-number
        |  |     |     |  |  +--rw bgp:next-hop-enable-default?         empty
        |  |     |     |  |  +--rw bgp:table-map
        |  |     |     |  |  |  +--rw bgp:table-map-route-map?   rmap-type
        |  |     |     |  |  +--rw bgp:update-time?                     update-time-type
        |  |     |     |  |  +--rw bgp:graceful-restart
        |  |     |     |  |     +--rw bgp:graceful-restart-status?   empty
        |  |     |     |  |     +--rw bgp:restart-time?              rtime-type
        |  |     |     |  |     +--rw bgp:purge-time?                ptime-type
        |  |     |     |  |     +--rw bgp:stale-routes-time?         st-time-type
        |  |     |     |  +--rw bgp:next-hop-recursion?                          empty
        |  |     |     |  +--rw bgp:next-hop-mpls?
        |  |     |     |     +--rw (ch-compare-lsp-follow-igp)?
        |  |     |     |        +--:(ca-compare-lsp-metric)
        |  |     |     |        |  +--rw bgp:compare-lsp-metric?   empty
        |  |     |     |        +--:(ca-follow-igp)
        |  |     |     |           +--rw bgp:follow-igp?           empty
        |  |     |     +--rw bgp:af-vrf [af-vrf-name]
        |  |     |        +--rw bgp:af-vrf-name                              string
        |  |     |        +--rw bgp:local-as?                                local-as-type
        |  |     |        +--rw bgp:maxas-limit
        |  |     |        |  +--rw bgp:in
```

```
|  |     |        |     +--rw bgp:num-as-in-path?   num-as-in-path
|  |     |        +--rw bgp:next-hop-recursion?                          empty
|  |     |        +--rw bgp:graceful-restart-status?                     empty
|  |     |        +--rw bgp:af-ipv4-uc-and-vrf-cmds-call-point-holder
|  |     |        |  +--rw bgp:bgp-redistribute-internal?   empty
|  |     |        |  +--rw bgp:redistribute
|  |     |        |     +--rw bgp:bgp
|  |     |        |     |  +--rw bgp:redistribute-bgp?   empty
|  |     |        |     |  +--rw bgp:bgp-metric?         conn-metric
|  |     |        |     |  +--rw bgp:bgp-route-map?      rmap-type
|  |     |        |     +--rw bgp:connected
|  |     |        |     |  +--rw bgp:redistribute-connected?   empty
|  |     |        |     |  +--rw bgp:unicast-metric?           conn-metric
|  |     |        |     |  +--rw bgp:redistribute-route-map?   rmap-type
|  |     |        |     +--rw bgp:ospf
|  |     |        |     |  +--rw bgp:redistribute-ospf?   empty
|  |     |        |     |  +--rw bgp:match
|  |     |        |     |  |  +--rw bgp:ospf-internal?    empty
|  |     |        |     |  |  +--rw bgp:ospf-external1?   empty
|  |     |        |     |  |  +--rw bgp:ospf-external2?   empty
|  |     |        |     |  +--rw bgp:ospf-metric?         conn-metric
|  |     |        |     |  +--rw bgp:ospf-route-map?      rmap-type
|  |     |        |     +--rw bgp:static
|  |     |        |        +--rw bgp:redistribute-static?     empty
|  |     |        |        +--rw bgp:unicast-static-metric?   conn-metric
|  |     |        |        +--rw bgp:static-route-map?        rmap-type
|  |     |        +--rw bgp:static-network [static-network-address]
|  |     |        |  +--rw bgp:static-network-address     inet:ipv4-prefix
|  |     |        |  +--rw bgp:static-network-distance?   sdistance
|  |     |        +--rw bgp:aggregate-address [aggregate-ip-prefix]
|  |     |        |  +--rw bgp:aggregate-ip-prefix    inet:ipv4-prefix
|  |     |        |  +--rw bgp:advertise-map?         advertise-map
|  |     |        |  +--rw bgp:as-set?                empty
|  |     |        |  +--rw bgp:attribute-map?         attribute-map
|  |     |        |  +--rw bgp:summary-only?          empty
|  |     |        |  +--rw bgp:suppress-map?          suppress-map
|  |     |        +--rw bgp:network [network-ipv4-address]
|  |     |        |  +--rw bgp:network-ipv4-address    inet:ipv4-prefix
|  |     |        |  +--rw bgp:network-weight?         absolute-decimal-number
|  |     |        |  +--rw bgp:backdoor?               empty
|  |     |        |  +--rw bgp:network-route-map?      rmap-type
|  |     |        +--rw bgp:neighbor
|  |     |        |  +--rw bgp:af-ipv4-vrf-neighbor-address-holder
|  |     |        |     +--rw bgp:af-ipv4-neighbor-addr [af-ipv4-neighbor-address]
|  |     |        |        +--rw bgp:af-ipv4-neighbor-address      inet:ipv4-address
|  |     |        |        +--rw bgp:remote-as?                    bgp-remote-as
|  |     |        |        +--rw bgp:shutdown
|  |     |        |        |  +--rw bgp:shutdown-status?    empty
|  |     |        |        |  +--rw bgp:generate-rib-out?   empty
|  |     |        |        +--rw bgp:af-vrf-neighbor-capability
|  |     |        |        |  +--rw bgp:as4
|  |     |        |        |  |  +--rw bgp:neighbor-as4-enable?    empty
|  |     |        |        |  |  +--rw bgp:neighbor-as4-disable?   empty
|  |     |        |        |  +--rw bgp:orf
|  |     |        |        |     +--rw bgp:prefixlist
|  |     |        |        |        +--rw bgp:prefixlist-status?    empty
|  |     |        |        |        +--rw bgp:prefixlist-send?      empty
|  |     |        |        |        +--rw bgp:prefixlist-receive?   empty
|  |     |        |        +--rw bgp:allowas-in?                   uint32
|  |     |        |        +--rw bgp:filter-list
|  |     |        |        |  +--rw bgp:direction-in
|  |     |        |        |  |  +--rw bgp:filter-list-direction-in-acl-name?   ip-filter-name
|  |     |        |        |  |  +--rw bgp:filter-list-name-direction-in?       empty
|  |     |        |        |  +--rw bgp:direction-out
|  |     |        |        |     +--rw bgp:filter-list-direction-out-acl-name?   ip-filter-name
|  |     |        |        |     +--rw bgp:filter-list-name-direction-out?       empty
|  |     |        |        +--rw bgp:maximum-prefix
|  |     |        |        |  +--rw bgp:max-prefix-limit?   max-prefix-limit
|  |     |        |        |  +--rw bgp:threshold-holder
|  |     |        |        |     +--rw bgp:threshold?   max-prefix-threshold
|  |     |        |        |     +--rw bgp:teardown?    empty
|  |     |        |        +--rw bgp:default-originate
```

```
        |  |     |        |        |  +--rw bgp:default-originate-status?   empty
        |  |     |        |        +--rw bgp:prefix-list
        |  |     |        |        |  +--rw bgp:direction-in
        |  |     |        |        |  |  +--rw bgp:prefix-list-direction-in-prefix-name?   nei-prefix-list-
    filter
        |  |     |        |        |  |  +--rw bgp:prefix-list-direction-in?               empty
        |  |     |        |        |  +--rw bgp:direction-out
        |  |     |        |        |     +--rw bgp:prefix-list-direction-out-prefix-name?   nei-prefix-list-
    filter
        |  |     |        |        |     +--rw bgp:prefix-list-direction-out?               empty
        |  |     |        |        +--rw bgp:neighbor-route-map
        |  |     |        |        |  +--rw bgp:neighbor-route-map-direction-in
        |  |     |        |        |  |  +--rw bgp:neighbor-route-map-name-direction-in?   common-def:name-
    string64
        |  |     |        |        |  +--rw bgp:neighbor-route-map-direction-out
        |  |     |        |        |     +--rw bgp:neighbor-route-map-name-direction-out?   common-def:name-
    string64
        |  |     |        |        +--rw bgp:route-reflector-client?       empty
        |  |     |        |        +--rw bgp:unsuppress-map
        |  |     |        |        |  +--rw bgp:map-name?   rmap-type
        |  |     |        |        +--rw bgp:af-nei-weight?                nei-weight
        |  |     |        |        +--rw bgp:associate-peer-group?         bgp-peergroup
        |  |     |        |        +--rw bgp:description?                  neighbor-description
        |  |     |        |        +--rw bgp:local-as
        |  |     |        |        |  +--rw bgp:local-as-value?   local-as-num
        |  |     |        |        |  +--rw bgp:no-prepend?       empty
        |  |     |        |        +--rw bgp:next-hop-self
        |  |     |        |        |  +--rw (ch-next-hop-self-type)?
        |  |     |        |        |     +--:(ca-next-hop-self-always)
        |  |     |        |        |     |  +--rw bgp:next-hop-self-always?   empty
        |  |     |        |        |     +--:(ca-next-hop-self-status)
        |  |     |        |        |        +--rw bgp:next-hop-self-status?   empty
        |  |     |        |        +--rw bgp:advertisement-interval
        |  |     |        |        |  +--rw bgp:value?   adv-value
        |  |     |        |        +--rw bgp:ebgp-btsh?                    empty
        |  |     |        |        +--rw bgp:ebgp-multihop
        |  |     |        |        |  +--rw (ch-ebgp-multihop-type)?
        |  |     |        |        |     +--:(ca-ebgp-multihop-flag)
        |  |     |        |        |     |  +--rw bgp:ebgp-multihop-flag?    empty
        |  |     |        |        |     +--:(ca-ebgp-multihop-count)
        |  |     |        |        |        +--rw bgp:ebgp-multihop-count?   uint32
        |  |     |        |        +--rw bgp:password?                     bgp-password
        |  |     |        |        +--rw bgp:enforce-first-as
        |  |     |        |        |  +--rw bgp:nei-enforce-first-as?           empty
        |  |     |        |        |  +--rw bgp:nei-enforce-first-as-disable?   empty
        |  |     |        |        +--rw bgp:timers
        |  |     |        |        |  +--rw bgp:nei-keep-alive?   nei-keep-alive
        |  |     |        |        |  +--rw bgp:nei-hold-time?    nei-hold-time
        |  |     |        |        +--rw bgp:remove-private-as?            empty
        |  |     |        |        +--rw bgp:as-override?                  empty
        |  |     |        |        +--rw bgp:soft-reconfiguration
        |  |     |        |        |  +--rw bgp:inbound?   empty
        |  |     |        |        +--rw bgp:static-network-edge?          empty
        |  |     |        |        +--rw bgp:maxas-limit
        |  |     |        |        |  +--rw bgp:in
        |  |     |        |        |     +--rw (ch-maxas-limit)?
        |  |     |        |        |        +--:(ca-maxas-limit-enable)
        |  |     |        |        |        |  +--rw bgp:num-as-in-as-path?     num-as-in-as-path
        |  |     |        |        |        +--:(ca-maxas-limit-disable)
        |  |     |        |        |           +--rw bgp:maxas-limit-disable?   empty
        |  |     |        |        +--rw bgp:update-source
        |  |     |        |        |  +--rw (ch-update-source)?
        |  |     |        |        |     +--:(ca-ipv4)
        |  |     |        |        |     |  +--rw bgp:sip-ipv4-address?     sip-ipv4-address
        |  |     |        |        |     +--:(ca-eth)
        |  |     |        |        |     |  +--rw bgp:ethernet-interface
        |  |     |        |        |     |     +--rw bgp:interface-type?   enumeration
        |  |     |        |        |     |     +--rw bgp:interface-name?   update-source-ethernet-type
        |  |     |        |        |     +--:(ca-loopback)
        |  |     |        |        |     |  +--rw bgp:loopback?             loopback-interface
        |  |     |        |        |     +--:(ca-ve)
        |  |     |        |        |        +--rw bgp:ve-interface?         interface:ve-type
```

```
|  |     |        |        +--rw bgp:send-community
|  |     |        |        |  +--rw bgp:send-community-status?   empty
|  |     |        |        |  +--rw bgp:both?                    empty
|  |     |        |        |  +--rw bgp:extended?                empty
|  |     |        |        |  +--rw bgp:standard?                empty
|  |     |        |        +--rw bgp:activate?                     empty
|  |     |        +--rw bgp:maximum-paths
|  |     |        |  +--rw bgp:load-sharing-value?   uint32
|  |     |        |  +--rw bgp:ebgp?                 ebgp-paths
|  |     |        |  +--rw bgp:ibgp?                 ibgp-paths
|  |     |        |  +--rw bgp:use-load-sharing?     empty
|  |     |        +--rw bgp:multipath
|  |     |        |  +--rw bgp:multipath_ebgp?   empty
|  |     |        |  +--rw bgp:multipath_ibgp?   empty
|  |     |        |  +--rw bgp:multi-as?         empty
|  |     |        +--rw bgp:always-propagate?                              empty
|  |     |        +--rw bgp:default-information-originate?                 empty
|  |     |        +--rw bgp:rib-route-limit?                               rib-route-number
|  |     |        +--rw bgp:client-to-client-reflection?                   empty
|  |     |        +--rw bgp:dampening
|  |     |        |  +--rw (ch-dampening-source)?
|  |     |        |     +--:(ca-dampening-flag)
|  |     |        |     |  +--rw bgp:dampening-flag?        empty
|  |     |        |     +--:(ca-dampening-specify-values)
|  |     |        |     |  +--rw bgp:values
|  |     |        |     |     +--rw bgp:half-time?             htime
|  |     |        |     |     +--rw bgp:reuse-value?           damp-reuse-value
|  |     |        |     |     +--rw bgp:start-suppress-time?   damp-start-suppress-value
|  |     |        |     |     +--rw bgp:max-suppress-time?     damp-max-suppress-value
|  |     |        |     +--:(ca-dampening-route-map)
|  |     |        |        +--rw bgp:dampening-route-map?   rmap-type
|  |     |        +--rw bgp:default-metric?                                default-metric-number
|  |     |        +--rw bgp:next-hop-enable-default?                       empty
|  |     |        +--rw bgp:table-map
|  |     |        |  +--rw bgp:table-map-route-map?   rmap-type
|  |     |        +--rw bgp:update-time?                                   update-time-type
|  |     +--rw bgp:ipv6
|  |     |  +--rw bgp:ipv6-unicast
|  |     |     +--rw bgp:default-vrf
|  |     |     |  +--rw bgp:default-vrf-selected?                          empty
|  |     |     |  +--rw bgp:af-ipv6-uc-and-vrf-cmds-call-point-holder
|  |     |     |  |  +--rw bgp:bgp-redistribute-internal?   empty
|  |     |     |  |  +--rw bgp:redistribute
|  |     |     |  |     +--rw bgp:bgp
|  |     |     |  |     |  +--rw bgp:redistribute-bgp?   empty
|  |     |     |  |     |  +--rw bgp:bgp-metric?         conn-metric
|  |     |     |  |     |  +--rw bgp:bgp-route-map?      rmap-type
|  |     |     |  |     +--rw bgp:connected
|  |     |     |  |     |  +--rw bgp:redistribute-connected?   empty
|  |     |     |  |     |  +--rw bgp:unicast-metric?           conn-metric
|  |     |     |  |     |  +--rw bgp:redistribute-route-map?   rmap-type
|  |     |     |  |     +--rw bgp:ospf
|  |     |     |  |     |  +--rw bgp:redistribute-ospf?   empty
|  |     |     |  |     |  +--rw bgp:match
|  |     |     |  |     |  |  +--rw bgp:ospf-internal?    empty
|  |     |     |  |     |  |  +--rw bgp:ospf-external1?   empty
|  |     |     |  |     |  |  +--rw bgp:ospf-external2?   empty
|  |     |     |  |     |  +--rw bgp:ospf-metric?         conn-metric
|  |     |     |  |     |  +--rw bgp:ospf-route-map?      rmap-type
|  |     |     |  |     +--rw bgp:redistribute-isis?
|  |     |     |  |     |  +--rw bgp:redistribute-isis-route-map?   common-def:name-string63
|  |     |     |  |     |  +--rw (ch-isis-level)?
|  |     |     |  |     |  |  +--:(ca-level-1)
|  |     |     |  |     |  |  |  +--rw bgp:level-1?                     empty
|  |     |     |  |     |  |  +--:(ca-level-2)
|  |     |     |  |     |  |  |  +--rw bgp:level-2?                     empty
|  |     |     |  |     |  |  +--:(ca-level-1-2)
|  |     |     |  |     |  |     +--rw bgp:level-1-2?                  empty
|  |     |     |  |     |  +--rw bgp:redistribute-isis-metric?      conn-metric
|  |     |     |  |     +--rw bgp:static
|  |     |     |  |        +--rw bgp:redistribute-static?     empty
|  |     |     |  |        +--rw bgp:unicast-static-metric?   conn-metric
```

```
        |  |     |     |  |        +--rw bgp:static-route-map?        rmap-type
        |  |     |     |  +--rw bgp:aggregate-ipv6-address [aggregate-ip-prefix]
        |  |     |     |  |  +--rw bgp:aggregate-ip-prefix    inet:ipv6-prefix
        |  |     |     |  |  +--rw bgp:advertise-map?         advertise-map
        |  |     |     |  |  +--rw bgp:as-set?                empty
        |  |     |     |  |  +--rw bgp:attribute-map?         attribute-map
        |  |     |     |  |  +--rw bgp:summary-only?          empty
        |  |     |     |  |  +--rw bgp:suppress-map?          suppress-map
        |  |     |     |  +--rw bgp:network [network-ipv6-address]
        |  |     |     |  |  +--rw bgp:network-ipv6-address    inet:ipv6-prefix
        |  |     |     |  |  +--rw bgp:network-weight?         absolute-decimal-number
        |  |     |     |  |  +--rw bgp:backdoor?               empty
        |  |     |     |  |  +--rw bgp:network-route-map?      rmap-type
        |  |     |     |  +--rw bgp:neighbor
        |  |     |     |  |  +--rw bgp:af-ipv6-neighbor-peergroup-holder
        |  |     |     |  |  |  +--rw bgp:af-ipv6-neighbor-peergroup [af-ipv6-neighbor-peergroup-name]
        |  |     |     |  |  |     +--rw bgp:af-ipv6-neighbor-peergroup-name    bgp-peergroup
        |  |     |     |  |  |     +--rw bgp:send-community
        |  |     |     |  |  |     |  +--rw bgp:send-community-status?   empty
        |  |     |     |  |  |     |  +--rw bgp:both?                    empty
        |  |     |     |  |  |     |  +--rw bgp:extended?                empty
        |  |     |     |  |  |     |  +--rw bgp:standard?                empty
        |  |     |     |  |  |     +--rw bgp:af-neighbor-capability
        |  |     |     |  |  |     |  +--rw bgp:orf
        |  |     |     |  |  |     |     +--rw bgp:prefixlist
        |  |     |     |  |  |     |        +--rw bgp:prefixlist-status?    empty
        |  |     |     |  |  |     |        +--rw bgp:prefixlist-send?      empty
        |  |     |     |  |  |     |        +--rw bgp:prefixlist-receive?   empty
        |  |     |     |  |  |     +--rw bgp:activate?                          empty
        |  |     |     |  |  |     +--rw bgp:allowas-in?                        uint32
        |  |     |     |  |  |     +--rw bgp:filter-list
        |  |     |     |  |  |     |  +--rw bgp:direction-in
        |  |     |     |  |  |     |  |  +--rw bgp:filter-list-direction-in-acl-name?   ip-filter-name
        |  |     |     |  |  |     |  |  +--rw bgp:filter-list-name-direction-in?       empty
        |  |     |     |  |  |     |  +--rw bgp:direction-out
        |  |     |     |  |  |     |     +--rw bgp:filter-list-direction-out-acl-name?   ip-filter-name
        |  |     |     |  |  |     |     +--rw bgp:filter-list-name-direction-out?       empty
        |  |     |     |  |  |     +--rw bgp:maximum-prefix
        |  |     |     |  |  |     |  +--rw bgp:max-prefix-limit?   max-prefix-limit
        |  |     |     |  |  |     |  +--rw bgp:threshold-holder
        |  |     |     |  |  |     |     +--rw bgp:threshold?   max-prefix-threshold
        |  |     |     |  |  |     |     +--rw bgp:teardown?    empty
        |  |     |     |  |  |     +--rw bgp:default-originate
        |  |     |     |  |  |     |  +--rw bgp:default-originate-status?   empty
        |  |     |     |  |  |     +--rw bgp:prefix-list
        |  |     |     |  |  |     |  +--rw bgp:direction-in
        |  |     |     |  |  |     |  |  +--rw bgp:prefix-list-direction-in-prefix-name?   nei-prefix-list-
filter
        |  |     |     |  |  |     |  |  +--rw bgp:prefix-list-direction-in?               empty
        |  |     |     |  |  |     |  +--rw bgp:direction-out
        |  |     |     |  |  |     |     +--rw bgp:prefix-list-direction-out-prefix-name?   nei-prefix-list-
filter
        |  |     |     |  |  |     |     +--rw bgp:prefix-list-direction-out?               empty
        |  |     |     |  |  |     +--rw bgp:neighbor-route-map
        |  |     |     |  |  |     |  +--rw bgp:neighbor-route-map-direction-in
        |  |     |     |  |  |     |  |  +--rw bgp:neighbor-route-map-name-direction-in?   common-def:name-
string64
        |  |     |     |  |  |     |  +--rw bgp:neighbor-route-map-direction-out
        |  |     |     |  |  |     |     +--rw bgp:neighbor-route-map-name-direction-out?   common-def:name-
string64
        |  |     |     |  |  |     +--rw bgp:route-reflector-client?            empty
        |  |     |     |  |  |     +--rw bgp:unsuppress-map
        |  |     |     |  |  |     |  +--rw bgp:map-name?   rmap-type
        |  |     |     |  |  |     +--rw bgp:af-nei-weight?                     nei-weight
        |  |     |     |  |  +--rw bgp:af-ipv6-neighbor-address-holder
        |  |     |     |  |     +--rw bgp:af-ipv6-neighbor-address [af-ipv6-neighbor-address]
        |  |     |     |  |        +--rw bgp:af-ipv6-neighbor-address    inet:ipv6-address
        |  |     |     |  |        +--rw bgp:send-community
        |  |     |     |  |        |  +--rw bgp:send-community-status?   empty
        |  |     |     |  |        |  +--rw bgp:both?                    empty
        |  |     |     |  |        |  +--rw bgp:extended?                empty
        |  |     |     |  |        |  +--rw bgp:standard?                empty
```

```
|  |     |     |  |        +--rw bgp:af-neighbor-capability
|  |     |     |  |        |  +--rw bgp:orf
|  |     |     |  |        |     +--rw bgp:prefixlist
|  |     |     |  |        |        +--rw bgp:prefixlist-status?    empty
|  |     |     |  |        |        +--rw bgp:prefixlist-send?      empty
|  |     |     |  |        |        +--rw bgp:prefixlist-receive?   empty
|  |     |     |  |        +--rw bgp:activate?                   empty
|  |     |     |  |        +--rw bgp:allowas-in?                 uint32
|  |     |     |  |        +--rw bgp:filter-list
|  |     |     |  |        |  +--rw bgp:direction-in
|  |     |     |  |        |  |  +--rw bgp:filter-list-direction-in-acl-name?   ip-filter-name
|  |     |     |  |        |  |  +--rw bgp:filter-list-name-direction-in?       empty
|  |     |     |  |        |  +--rw bgp:direction-out
|  |     |     |  |        |     +--rw bgp:filter-list-direction-out-acl-name?   ip-filter-name
|  |     |     |  |        |     +--rw bgp:filter-list-name-direction-out?       empty
|  |     |     |  |        +--rw bgp:maximum-prefix
|  |     |     |  |        |  +--rw bgp:max-prefix-limit?   max-prefix-limit
|  |     |     |  |        |  +--rw bgp:threshold-holder
|  |     |     |  |        |     +--rw bgp:threshold?   max-prefix-threshold
|  |     |     |  |        |     +--rw bgp:teardown?    empty
|  |     |     |  |        +--rw bgp:default-originate
|  |     |     |  |        |  +--rw bgp:default-originate-status?   empty
|  |     |     |  |        +--rw bgp:prefix-list
|  |     |     |  |        |  +--rw bgp:direction-in
|  |     |     |  |        |  |  +--rw bgp:prefix-list-direction-in-prefix-name?   nei-prefix-list-
filter
|  |     |     |  |        |  |  +--rw bgp:prefix-list-direction-in?               empty
|  |     |     |  |        |  +--rw bgp:direction-out
|  |     |     |  |        |     +--rw bgp:prefix-list-direction-out-prefix-name?   nei-prefix-list-
filter
|  |     |     |  |        |     +--rw bgp:prefix-list-direction-out?               empty
|  |     |     |  |        +--rw bgp:neighbor-route-map
|  |     |     |  |        |  +--rw bgp:neighbor-route-map-direction-in
|  |     |     |  |        |  |  +--rw bgp:neighbor-route-map-name-direction-in?   common-def:name-
string64
|  |     |     |  |        |  +--rw bgp:neighbor-route-map-direction-out
|  |     |     |  |        |     +--rw bgp:neighbor-route-map-name-direction-out?   common-def:name-
string64
|  |     |     |  |        +--rw bgp:route-reflector-client?     empty
|  |     |     |  |        +--rw bgp:unsuppress-map
|  |     |     |  |        |  +--rw bgp:map-name?   rmap-type
|  |     |     |  |        +--rw bgp:af-nei-weight?              nei-weight
|  |     |     |  +--rw bgp:af-common-cmds-holder
|  |     |     |  |  +--rw bgp:maximum-paths
|  |     |     |  |  |  +--rw bgp:load-sharing-value?   uint32
|  |     |     |  |  |  +--rw bgp:ebgp?                 ebgp-paths
|  |     |     |  |  |  +--rw bgp:ibgp?                 ibgp-paths
|  |     |     |  |  |  +--rw bgp:use-load-sharing?     empty
|  |     |     |  |  +--rw bgp:multipath
|  |     |     |  |  |  +--rw bgp:multipath_ebgp?   empty
|  |     |     |  |  |  +--rw bgp:multipath_ibgp?   empty
|  |     |     |  |  |  +--rw bgp:multi-as?         empty
|  |     |     |  |  +--rw bgp:always-propagate?                empty
|  |     |     |  |  +--rw bgp:default-information-originate?   empty
|  |     |     |  |  +--rw bgp:rib-route-limit?                 rib-route-number
|  |     |     |  |  +--rw bgp:client-to-client-reflection?     empty
|  |     |     |  |  +--rw bgp:dampening
|  |     |     |  |  |  +--rw (ch-dampening-source)?
|  |     |     |  |  |     +--:(ca-dampening-flag)
|  |     |     |  |  |     |  +--rw bgp:dampening-flag?        empty
|  |     |     |  |  |     +--:(ca-dampening-specify-values)
|  |     |     |  |  |     |  +--rw bgp:values
|  |     |     |  |  |     |     +--rw bgp:half-time?            htime
|  |     |     |  |  |     |     +--rw bgp:reuse-value?          damp-reuse-value
|  |     |     |  |  |     |     +--rw bgp:start-suppress-time?   damp-start-suppress-value
|  |     |     |  |  |     |     +--rw bgp:max-suppress-time?     damp-max-suppress-value
|  |     |     |  |  |     +--:(ca-dampening-route-map)
|  |     |     |  |  |        +--rw bgp:dampening-route-map?   rmap-type
|  |     |     |  |  +--rw bgp:default-metric?                  default-metric-number
|  |     |     |  |  +--rw bgp:next-hop-enable-default?         empty
|  |     |     |  |  +--rw bgp:table-map
|  |     |     |  |  |  +--rw bgp:table-map-route-map?   rmap-type
```

```
|  |     |     |  |  +--rw bgp:update-time?                    update-time-type
|  |     |     |  |  +--rw bgp:graceful-restart
|  |     |     |  |     +--rw bgp:graceful-restart-status?   empty
|  |     |     |  |     +--rw bgp:restart-time?              rtime-type
|  |     |     |  |     +--rw bgp:purge-time?                ptime-type
|  |     |     |  |     +--rw bgp:stale-routes-time?         st-time-type
|  |     |     |  +--rw bgp:ipv6-ucast-next-hop-recursion?              empty
|  |     |     +--rw bgp:af-ipv6-vrf [af-ipv6-vrf-name]
|  |     |        +--rw bgp:af-ipv6-vrf-name                           string
|  |     |        +--rw bgp:next-hop-recursion?                        empty
|  |     |        +--rw bgp:graceful-restart-status?                   empty
|  |     |        +--rw bgp:af-ipv6-uc-and-vrf-cmds-call-point-holder
|  |     |        |  +--rw bgp:bgp-redistribute-internal?   empty
|  |     |        |  +--rw bgp:redistribute
|  |     |        |     +--rw bgp:bgp
|  |     |        |     |  +--rw bgp:redistribute-bgp?   empty
|  |     |        |     |  +--rw bgp:bgp-metric?         conn-metric
|  |     |        |     |  +--rw bgp:bgp-route-map?      rmap-type
|  |     |        |     +--rw bgp:connected
|  |     |        |     |  +--rw bgp:redistribute-connected?   empty
|  |     |        |     |  +--rw bgp:unicast-metric?           conn-metric
|  |     |        |     |  +--rw bgp:redistribute-route-map?   rmap-type
|  |     |        |     +--rw bgp:ospf
|  |     |        |     |  +--rw bgp:redistribute-ospf?   empty
|  |     |        |     |  +--rw bgp:match
|  |     |        |     |  |  +--rw bgp:ospf-internal?    empty
|  |     |        |     |  |  +--rw bgp:ospf-external1?   empty
|  |     |        |     |  |  +--rw bgp:ospf-external2?   empty
|  |     |        |     |  +--rw bgp:ospf-metric?         conn-metric
|  |     |        |     |  +--rw bgp:ospf-route-map?      rmap-type
|  |     |        |     +--rw bgp:static
|  |     |        |        +--rw bgp:redistribute-static?     empty
|  |     |        |        +--rw bgp:unicast-static-metric?   conn-metric
|  |     |        |        +--rw bgp:static-route-map?        rmap-type
|  |     |        +--rw bgp:aggregate-ipv6-address [aggregate-ip-prefix]
|  |     |        |  +--rw bgp:aggregate-ip-prefix    inet:ipv6-prefix
|  |     |        |  +--rw bgp:advertise-map?         advertise-map
|  |     |        |  +--rw bgp:as-set?                empty
|  |     |        |  +--rw bgp:attribute-map?         attribute-map
|  |     |        |  +--rw bgp:summary-only?          empty
|  |     |        |  +--rw bgp:suppress-map?          suppress-map
|  |     |        +--rw bgp:network [network-ipv6-address]
|  |     |        |  +--rw bgp:network-ipv6-address    inet:ipv6-prefix
|  |     |        |  +--rw bgp:network-weight?         absolute-decimal-number
|  |     |        |  +--rw bgp:backdoor?               empty
|  |     |        |  +--rw bgp:network-route-map?      rmap-type
|  |     |        +--rw bgp:neighbor
|  |     |        |  +--rw bgp:af-ipv6-vrf-neighbor-address-holder
|  |     |        |     +--rw bgp:af-ipv6-neighbor-addr [af-ipv6-neighbor-address]
|  |     |        |        +--rw bgp:af-ipv6-neighbor-address      inet:ipv6-address
|  |     |        |        +--rw bgp:remote-as?                    bgp-remote-as
|  |     |        |        +--rw bgp:shutdown
|  |     |        |        |  +--rw bgp:shutdown-status?    empty
|  |     |        |        |  +--rw bgp:generate-rib-out?   empty
|  |     |        |        +--rw bgp:af-vrf-neighbor-capability
|  |     |        |        |  +--rw bgp:as4
|  |     |        |        |  |  +--rw bgp:neighbor-as4-enable?    empty
|  |     |        |        |  |  +--rw bgp:neighbor-as4-disable?   empty
|  |     |        |        |  +--rw bgp:orf
|  |     |        |        |     +--rw bgp:prefixlist
|  |     |        |        |        +--rw bgp:prefixlist-status?    empty
|  |     |        |        |        +--rw bgp:prefixlist-send?      empty
|  |     |        |        |        +--rw bgp:prefixlist-receive?   empty
|  |     |        |        +--rw bgp:allowas-in?                   uint32
|  |     |        |        +--rw bgp:filter-list
|  |     |        |        |  +--rw bgp:direction-in
|  |     |        |        |  |  +--rw bgp:filter-list-direction-in-acl-name?   ip-filter-name
|  |     |        |        |  |  +--rw bgp:filter-list-name-direction-in?       empty
|  |     |        |        |  +--rw bgp:direction-out
|  |     |        |        |     +--rw bgp:filter-list-direction-out-acl-name?   ip-filter-name
|  |     |        |        |     +--rw bgp:filter-list-name-direction-out?       empty
|  |     |        |        +--rw bgp:maximum-prefix
```

```
      |  |     |        |        |  +--rw bgp:max-prefix-limit?   max-prefix-limit
      |  |     |        |        |  +--rw bgp:threshold-holder
      |  |     |        |        |     +--rw bgp:threshold?   max-prefix-threshold
      |  |     |        |        |     +--rw bgp:teardown?    empty
      |  |     |        |        +--rw bgp:default-originate
      |  |     |        |        |  +--rw bgp:default-originate-status?   empty
      |  |     |        |        +--rw bgp:prefix-list
      |  |     |        |        |  +--rw bgp:direction-in
      |  |     |        |        |  |  +--rw bgp:prefix-list-direction-in-prefix-name?   nei-prefix-list-
filter
      |  |     |        |        |  |  +--rw bgp:prefix-list-direction-in?               empty
      |  |     |        |        |  +--rw bgp:direction-out
      |  |     |        |        |     +--rw bgp:prefix-list-direction-out-prefix-name?   nei-prefix-list-
filter
      |  |     |        |        |     +--rw bgp:prefix-list-direction-out?               empty
      |  |     |        |        +--rw bgp:neighbor-route-map
      |  |     |        |        |  +--rw bgp:neighbor-route-map-direction-in
      |  |     |        |        |  |  +--rw bgp:neighbor-route-map-name-direction-in?   common-def:name-
string64
      |  |     |        |        |  +--rw bgp:neighbor-route-map-direction-out
      |  |     |        |        |     +--rw bgp:neighbor-route-map-name-direction-out?   common-def:name-
string64
      |  |     |        |        +--rw bgp:route-reflector-client?       empty
      |  |     |        |        +--rw bgp:unsuppress-map
      |  |     |        |        |  +--rw bgp:map-name?   rmap-type
      |  |     |        |        +--rw bgp:af-nei-weight?                nei-weight
      |  |     |        |        +--rw bgp:associate-peer-group?         bgp-peergroup
      |  |     |        |        +--rw bgp:maxas-limit
      |  |     |        |        |  +--rw bgp:in
      |  |     |        |        |     +--rw (ch-maxas-limit)?
      |  |     |        |        |        +--:(ca-maxas-limit-enable)
      |  |     |        |        |        |  +--rw bgp:num-as-in-as-path?     num-as-in-as-path
      |  |     |        |        |        +--:(ca-maxas-limit-disable)
      |  |     |        |        |           +--rw bgp:maxas-limit-disable?   empty
      |  |     |        |        +--rw bgp:description?                  neighbor-description
      |  |     |        |        +--rw bgp:local-as
      |  |     |        |        |  +--rw bgp:local-as-value?   local-as-num
      |  |     |        |        |  +--rw bgp:no-prepend?       empty
      |  |     |        |        +--rw bgp:next-hop-self
      |  |     |        |        |  +--rw (ch-next-hop-self-type)?
      |  |     |        |        |     +--:(ca-next-hop-self-always)
      |  |     |        |        |     |  +--rw bgp:next-hop-self-always?   empty
      |  |     |        |        |     +--:(ca-next-hop-self-status)
      |  |     |        |        |        +--rw bgp:next-hop-self-status?   empty
      |  |     |        |        +--rw bgp:advertisement-interval
      |  |     |        |        |  +--rw bgp:value?   adv-value
      |  |     |        |        +--rw bgp:ebgp-btsh?                   empty
      |  |     |        |        +--rw bgp:ebgp-multihop
      |  |     |        |        |  +--rw (ch-ebgp-multihop-type)?
      |  |     |        |        |     +--:(ca-ebgp-multihop-flag)
      |  |     |        |        |     |  +--rw bgp:ebgp-multihop-flag?    empty
      |  |     |        |        |     +--:(ca-ebgp-multihop-count)
      |  |     |        |        |        +--rw bgp:ebgp-multihop-count?   uint32
      |  |     |        |        +--rw bgp:password?                    bgp-password
      |  |     |        |        +--rw bgp:enforce-first-as
      |  |     |        |        |  +--rw bgp:nei-enforce-first-as?           empty
      |  |     |        |        |  +--rw bgp:nei-enforce-first-as-disable?   empty
      |  |     |        |        +--rw bgp:timers
      |  |     |        |        |  +--rw bgp:nei-keep-alive?   nei-keep-alive
      |  |     |        |        |  +--rw bgp:nei-hold-time?    nei-hold-time
      |  |     |        |        +--rw bgp:remove-private-as?            empty
      |  |     |        |        +--rw bgp:as-override?                  empty
      |  |     |        |        +--rw bgp:soft-reconfiguration
      |  |     |        |        |  +--rw bgp:inbound?   empty
      |  |     |        |        +--rw bgp:static-network-edge?          empty
      |  |     |        |        +--rw bgp:update-source
      |  |     |        |        |  +--rw (ch-update-source)?
      |  |     |        |        |     +--:(ca-ipv6)
      |  |     |        |        |     |  +--rw bgp:sip-ipv6-address?     sip-ipv6-address
      |  |     |        |        |     +--:(ca-eth)
      |  |     |        |        |     |  +--rw bgp:ethernet-interface
      |  |     |        |        |     |     +--rw bgp:interface-type?   enumeration
```

```
|  |     |        |        |     |     +--rw bgp:interface-name?   update-source-ethernet-type
|  |     |        |        |     +--:(ca-loopback)
|  |     |        |        |     |  +--rw bgp:loopback?             loopback-interface
|  |     |        |        |     +--:(ca-ve)
|  |     |        |        |        +--rw bgp:ve-interface?         interface:ve-type
|  |     |        |        +--rw bgp:send-community
|  |     |        |        |  +--rw bgp:send-community-status?   empty
|  |     |        |        |  +--rw bgp:both?                    empty
|  |     |        |        |  +--rw bgp:extended?                empty
|  |     |        |        |  +--rw bgp:standard?                empty
|  |     |        |        +--rw bgp:activate?                     empty
|  |     |        +--rw bgp:maximum-paths
|  |     |        |  +--rw bgp:load-sharing-value?   uint32
|  |     |        |  +--rw bgp:ebgp?                 ebgp-paths
|  |     |        |  +--rw bgp:ibgp?                 ibgp-paths
|  |     |        |  +--rw bgp:use-load-sharing?     empty
|  |     |        +--rw bgp:multipath
|  |     |        |  +--rw bgp:multipath_ebgp?   empty
|  |     |        |  +--rw bgp:multipath_ibgp?   empty
|  |     |        |  +--rw bgp:multi-as?         empty
|  |     |        +--rw bgp:always-propagate?                              empty
|  |     |        +--rw bgp:default-information-originate?                 empty
|  |     |        +--rw bgp:rib-route-limit?                               rib-route-number
|  |     |        +--rw bgp:client-to-client-reflection?                   empty
|  |     |        +--rw bgp:dampening
|  |     |        |  +--rw (ch-dampening-source)?
|  |     |        |     +--:(ca-dampening-flag)
|  |     |        |     |  +--rw bgp:dampening-flag?        empty
|  |     |        |     +--:(ca-dampening-specify-values)
|  |     |        |     |  +--rw bgp:values
|  |     |        |     |     +--rw bgp:half-time?             htime
|  |     |        |     |     +--rw bgp:reuse-value?           damp-reuse-value
|  |     |        |     |     +--rw bgp:start-suppress-time?   damp-start-suppress-value
|  |     |        |     |     +--rw bgp:max-suppress-time?     damp-max-suppress-value
|  |     |        |     +--:(ca-dampening-route-map)
|  |     |        |        +--rw bgp:dampening-route-map?   rmap-type
|  |     |        +--rw bgp:default-metric?                                default-metric-number
|  |     |        +--rw bgp:next-hop-enable-default?                       empty
|  |     |        +--rw bgp:table-map
|  |     |        |  +--rw bgp:table-map-route-map?   rmap-type
|  |     |        +--rw bgp:update-time?                                   update-time-type
|  |     +--rw bgp:l2vpn
|  |        +--rw bgp:evpn?
|  |           +--rw bgp:af-evpn-neighbor-address-holder
|  |              +--rw bgp:af-evpn-neighbor [af-evpn-neighbor-address]
|  |                 +--rw bgp:af-evpn-neighbor-address    inet:ipv4-address
|  |                 +--rw bgp:evpn-nbr-activate?          empty
|  +--rw isis:isis?
|  |  +--rw isis:router-isis-cmds-holder
|  |     +--rw isis:net [net-cmd]
|  |     |  +--rw isis:net-cmd    net-type
|  |     +--rw isis:router-isis-attributes
|  |     |  +--rw isis:auth-check
|  |     |  |  +--rw isis:auth-check-level1
|  |     |  |  |  +--rw isis:auth-check-level1-disable?   empty
|  |     |  |  +--rw isis:auth-check-level2
|  |     |  |     +--rw isis:auth-check-level2-disable?   empty
|  |     |  +--rw isis:auth-mode
|  |     |  |  +--rw isis:md5
|  |     |  |     +--rw isis:auth-mode-md5-level1?   empty
|  |     |  |     +--rw isis:auth-mode-md5-level2?   empty
|  |     |  +--rw isis:auth-key
|  |     |  |  +--rw isis:auth-key-level1-str?   string
|  |     |  |  +--rw isis:auth-key-level2-str?   string
|  |     |  +--rw isis:csnp-interval?                uint32
|  |     |  +--rw isis:disable-inc-stct-spf-opt?     empty
|  |     |  +--rw isis:disable-incremental-spf-opt?   empty
|  |     |  +--rw isis:disable-partial-spf-opt?      empty
|  |     |  +--rw isis:fast-flood?
|  |     |  |  +--rw isis:fast-flood-value?   uint32
|  |     |  +--rw isis:graceful-restart
|  |     |  |  +--rw isis:gr-helper-disable?   empty
```

```
|  |     |  +--rw isis:hello
|  |     |  |  +--rw isis:padding
|  |     |  |     +--rw isis:hello-padding-point-to-point
|  |     |  |     |  +--rw isis:hello-padding-ptp-disable?   empty
|  |     |  |     +--rw isis:hello-padding-disable?          empty
|  |     |  +--rw isis:hostname
|  |     |  |  +--rw isis:hostname-disable?   empty
|  |     |  +--rw isis:is-type?                        enumeration
|  |     |  +--rw isis:log
|  |     |  |  +--rw isis:adjacency?             empty
|  |     |  |  +--rw isis:invalid-lsp-packets?   empty
|  |     |  +--rw isis:lsp-gen-interval?              uint32
|  |     |  +--rw isis:lsp-interval?                  uint32
|  |     |  +--rw isis:lsp-refresh-interval?          uint32
|  |     |  +--rw isis:max-lsp-lifetime?              uint32
|  |     |  +--rw isis:nonstop-routing?               empty
|  |     |  +--rw isis:partial-spf-interval
|  |     |  |  +--rw isis:pspf-max-hold-time?   uint32
|  |     |  |  +--rw isis:pspf-init-delay?      uint32
|  |     |  |  +--rw isis:pspf-hold-time?       uint32
|  |     |  +--rw isis:retransmit-interval?           uint32
|  |     |  +--rw isis:set-debug
|  |     |  |  +--rw isis:nsr?   empty
|  |     |  +--rw isis:set-overload-bit?
|  |     |  |  +--rw isis:on-startup
|  |     |  |     +--rw (ch-on-startup)?
|  |     |  |        +--:(ca-on-startup)
|  |     |  |        |  +--rw isis:on-startup-overloadtime?   uint32
|  |     |  |        +--:(ca-on-startup-wfbgp)
|  |     |  |           +--rw isis:wait-for-bgp?
|  |     |  |              +--rw isis:wait-for-bgp-value?   uint32
|  |     |  +--rw isis:spf-interval [spf-interval-level]
|  |     |  |  +--rw isis:spf-interval-level            enumeration
|  |     |  |  +--rw isis:spf-interval-max-hold-time?   uint32
|  |     |  |  +--rw isis:spf-interval-initial-delay?   uint32
|  |     |  |  +--rw isis:spf-interval-hold-time?       uint32
|  |     |  +--rw isis:reverse-metric?
|  |     |     +--rw isis:reverse_metric_tlv
|  |     |     |  +--rw isis:rev-metric-tlv-type?   uint16
|  |     |     +--rw isis:rev-metric-common-attributes
|  |     |        +--rw isis:rev-metric-val?             uint32
|  |     |        +--rw isis:rev-metric-whole-lan?       empty
|  |     |        +--rw isis:rev-metric-te-def-metric?   empty
|  |     +--rw isis:address-family
|  |        +--rw isis:ipv4
|  |        |  +--rw isis:af-ipv4-unicast?
|  |        |     +--rw isis:af-ipv4-attributes
|  |        |        +--rw isis:metric-style
|  |        |        |  +--rw isis:wide
|  |        |        |     +--rw isis:metric-style-wide-level1?   empty
|  |        |        |     +--rw isis:metric-style-wide-level2?   empty
|  |        |        +--rw isis:summary-address [summary-ip summary-ip-mask]
|  |        |        |  +--rw isis:summary-ip           inet:ipv4-address
|  |        |        |  +--rw isis:summary-ip-mask      inet:ipv4-address
|  |        |        |  +--rw isis:summary-ip-level1?   empty
|  |        |        |  +--rw isis:summary-ip-level2?   empty
|  |        |        +--rw isis:ldp-sync?
|  |        |        |  +--rw isis:ldp-sync-hold-down?   uint32
|  |        |        +--rw isis:default-link-metric
|  |        |        |  +--rw isis:default-link-metric-level1?   uint32
|  |        |        |  +--rw isis:default-link-metric-level2?   uint32
|  |        |        +--rw isis:af-common-attributes
|  |        |           +--rw isis:default-information-originate
|  |        |           |  +--rw isis:default-information-originate-route-map?   string
|  |        |           |  +--rw isis:default-information-originate-cr?          empty
|  |        |           +--rw isis:default-metric?                 uint32
|  |        |           +--rw isis:distance?                       uint32
|  |        |           +--rw isis:maximum-paths?                  uint32
|  |        |           +--rw isis:redistribute
|  |        |              +--rw isis:connected?
|  |        |              |  +--rw isis:connected-metric?        conn-metric
|  |        |              |  +--rw isis:connected-route-map?     rmap-type
```

```
|  |  |        |              |  +--rw (ch-connected-levels)?
|  |  |        |              |  |  +--:(ca-connected-level1)
|  |  |        |              |  |  |  +--rw isis:connected-level1?        empty
|  |  |        |              |  |  +--:(ca-connected-level2)
|  |  |        |              |  |  |  +--rw isis:connected-level2?        empty
|  |  |        |              |  |  +--:(ca-connected-level12)
|  |  |        |              |  |     +--rw isis:connected-level12?       empty
|  |  |        |              |  +--rw isis:connected-metric-type?   is-metric-type-t
|  |  |        |              +--rw isis:ospf?
|  |  |        |              |  +--rw isis:match
|  |  |        |              |  |  +--rw isis:ospf-internal?    empty
|  |  |        |              |  |  +--rw isis:ospf-external1?   empty
|  |  |        |              |  |  +--rw isis:ospf-external2?   empty
|  |  |        |              |  +--rw isis:ospf-metric?        conn-metric
|  |  |        |              |  +--rw isis:ospf-route-map?     rmap-type
|  |  |        |              |  +--rw (ch-ospf-levels)?
|  |  |        |              |  |  +--:(ca-ospf-level1)
|  |  |        |              |  |  |  +--rw isis:ospf-level1?        empty
|  |  |        |              |  |  +--:(ca-ospf-level2)
|  |  |        |              |  |  |  +--rw isis:ospf-level2?        empty
|  |  |        |              |  |  +--:(ca-ospf-level12)
|  |  |        |              |  |     +--rw isis:ospf-level12?       empty
|  |  |        |              |  +--rw isis:ospf-metric-type?   is-metric-type-t
|  |  |        |              +--rw isis:static?
|  |  |        |              |  +--rw isis:static-metric?        conn-metric
|  |  |        |              |  +--rw isis:static-route-map?     rmap-type
|  |  |        |              |  +--rw (ch-static-levels)?
|  |  |        |              |  |  +--:(ca-static-level1)
|  |  |        |              |  |  |  +--rw isis:static-level1?        empty
|  |  |        |              |  |  +--:(ca-static-level2)
|  |  |        |              |  |  |  +--rw isis:static-level2?        empty
|  |  |        |              |  |  +--:(ca-static-level12)
|  |  |        |              |  |     +--rw isis:static-level12?       empty
|  |  |        |              |  +--rw isis:static-metric-type?   is-metric-type-t
|  |  |        |              +--rw isis:bgp?
|  |  |        |              |  +--rw isis:bgp-metric?        conn-metric
|  |  |        |              |  +--rw isis:bgp-route-map?     common-def:name-string63
|  |  |        |              |  +--rw (ch-bgp-levels)?
|  |  |        |              |  |  +--:(ca-bgp-level1)
|  |  |        |              |  |  |  +--rw isis:bgp-level1?        empty
|  |  |        |              |  |  +--:(ca-bgp-level2)
|  |  |        |              |  |  |  +--rw isis:bgp-level2?        empty
|  |  |        |              |  |  +--:(ca-bgp-level12)
|  |  |        |              |  |     +--rw isis:bgp-level12?       empty
|  |  |        |              |  +--rw isis:bgp-metric-type?   is-metric-type-t
|  |  |        |              +--rw isis:isis
|  |  |        |                 +--rw isis:level-1
|  |  |        |                 |  +--rw isis:into
|  |  |        |                 |     +--rw isis:level1-into-level2
|  |  |        |                 |        +--rw (ch-prefix-list-level1-disable)?
|  |  |        |                 |           +--:(ca-prefix-list-level1)
|  |  |        |                 |           |  +--rw isis:prefix-list-level1?          string
|  |  |        |                 |           +--:(ca-level1-into-level2-disable)
|  |  |        |                 |              +--rw isis:level1-into-level2-disable?   empty
|  |  |        |                 +--rw isis:level-2
|  |  |        |                    +--rw isis:into
|  |  |        |                       +--rw isis:level2-into-level1?
|  |  |        |                          +--rw isis:prefix-list-level2?   string
|  |  |     +--rw isis:ipv6
|  |  |        +--rw isis:af-ipv6-unicast?
|  |  |           +--rw isis:af-ipv6-attributes
|  |  |              +--rw isis:disable-adjacency-check?    empty
|  |  |              +--rw isis:summary-prefix [summary-prefix-ipv6]
|  |  |              |  +--rw isis:summary-prefix-ipv6      common-def:ipv6-address-prefix
|  |  |              |  +--rw isis:summary-prefix-level1?   empty
|  |  |              |  +--rw isis:summary-prefix-level2?   empty
|  |  |              +--rw isis:ipv6-default-link-metric
|  |  |              |  +--rw isis:ipv6-default-link-metric-level1?   uint32
|  |  |              |  +--rw isis:ipv6-default-link-metric-level2?   uint32
|  |  |              +--rw isis:multi-topology?
|  |  |              |  +--rw isis:multi-topology-transition?   empty
|  |  |              +--rw isis:spf6-interval [spf6-interval-level]
```

```
|  |                  |  +--rw isis:spf6-interval-level            enumeration
|  |                  |  +--rw isis:spf6-interval-max-hold-time?   uint32
|  |                  |  +--rw isis:spf6-interval-initial-delay?   uint32
|  |                  |  +--rw isis:spf6-interval-hold-time?       uint32
|  |                  +--rw isis:partial6-spf-interval
|  |                  |  +--rw isis:pspf6-max-hold-time?   uint32
|  |                  |  +--rw isis:pspf6-init-delay?      uint32
|  |                  |  +--rw isis:pspf6-hold-time?       uint32
|  |                  +--rw isis:af-common-attributes
|  |                     +--rw isis:default-information-originate
|  |                     |  +--rw isis:default-information-originate-route-map?   string
|  |                     |  +--rw isis:default-information-originate-cr?          empty
|  |                     +--rw isis:default-metric?                  uint32
|  |                     +--rw isis:distance?                        uint32
|  |                     +--rw isis:maximum-paths?                   uint32
|  |                     +--rw isis:redistribute
|  |                        +--rw isis:connected?
|  |                        |  +--rw isis:connected-metric?        conn-metric
|  |                        |  +--rw isis:connected-route-map?     rmap-type
|  |                        |  +--rw (ch-connected-levels)?
|  |                        |  |  +--:(ca-connected-level1)
|  |                        |  |  |  +--rw isis:connected-level1?        empty
|  |                        |  |  +--:(ca-connected-level2)
|  |                        |  |  |  +--rw isis:connected-level2?        empty
|  |                        |  |  +--:(ca-connected-level12)
|  |                        |  |     +--rw isis:connected-level12?       empty
|  |                        |  +--rw isis:connected-metric-type?   is-metric-type-t
|  |                        +--rw isis:ospf?
|  |                        |  +--rw isis:match
|  |                        |  |  +--rw isis:ospf-internal?    empty
|  |                        |  |  +--rw isis:ospf-external1?   empty
|  |                        |  |  +--rw isis:ospf-external2?   empty
|  |                        |  +--rw isis:ospf-metric?        conn-metric
|  |                        |  +--rw isis:ospf-route-map?     rmap-type
|  |                        |  +--rw (ch-ospf-levels)?
|  |                        |  |  +--:(ca-ospf-level1)
|  |                        |  |  |  +--rw isis:ospf-level1?        empty
|  |                        |  |  +--:(ca-ospf-level2)
|  |                        |  |  |  +--rw isis:ospf-level2?        empty
|  |                        |  |  +--:(ca-ospf-level12)
|  |                        |  |     +--rw isis:ospf-level12?       empty
|  |                        |  +--rw isis:ospf-metric-type?   is-metric-type-t
|  |                        +--rw isis:static?
|  |                        |  +--rw isis:static-metric?        conn-metric
|  |                        |  +--rw isis:static-route-map?     rmap-type
|  |                        |  +--rw (ch-static-levels)?
|  |                        |  |  +--:(ca-static-level1)
|  |                        |  |  |  +--rw isis:static-level1?        empty
|  |                        |  |  +--:(ca-static-level2)
|  |                        |  |  |  +--rw isis:static-level2?        empty
|  |                        |  |  +--:(ca-static-level12)
|  |                        |  |     +--rw isis:static-level12?       empty
|  |                        |  +--rw isis:static-metric-type?   is-metric-type-t
|  |                        +--rw isis:bgp?
|  |                        |  +--rw isis:bgp-metric?        conn-metric
|  |                        |  +--rw isis:bgp-route-map?     common-def:name-string63
|  |                        |  +--rw (ch-bgp-levels)?
|  |                        |  |  +--:(ca-bgp-level1)
|  |                        |  |  |  +--rw isis:bgp-level1?        empty
|  |                        |  |  +--:(ca-bgp-level2)
|  |                        |  |  |  +--rw isis:bgp-level2?        empty
|  |                        |  |  +--:(ca-bgp-level12)
|  |                        |  |     +--rw isis:bgp-level12?       empty
|  |                        |  +--rw isis:bgp-metric-type?   is-metric-type-t
|  |                        +--rw isis:isis
|  |                           +--rw isis:level-1
|  |                           |  +--rw isis:into
|  |                           |     +--rw isis:level1-into-level2
|  |                           |        +--rw (ch-prefix-list-level1-disable)?
|  |                           |           +--:(ca-prefix-list-level1)
|  |                           |           |  +--rw isis:prefix-list-level1?          string
|  |                           |           +--:(ca-leve11-into-level2-disable)
```

```
|  |                          |             +--rw isis:level1-into-level2-disable?   empty
|  |                          +--rw isis:level-2
|  |                             +--rw isis:into
|  |                                +--rw isis:level2-into-level1?
|  |                                   +--rw isis:prefix-list-level2?   string
|  +--rw ospf:ospf [vrf]
|  |  +--rw ospf:vrf                              string
|  |  +--rw ospf:database-overflow-interval?      common-def:time-interval-sec
|  |  +--rw ospf:default-information-originate?
|  |  |  +--rw ospf:always?                 empty
|  |  |  +--rw ospf:def-orig-metric?        uint32
|  |  |  +--rw ospf:def-orig-metric-type?   metric-type
|  |  |  +--rw ospf:def-orig-route-map?     string
|  |  +--rw ospf:default-passive-interface?       empty
|  |  +--rw ospf:default-metric?                  uint32
|  |  +--rw ospf:ldp-sync?
|  |  |  +--rw ospf:ldp-sync-hold-down?   uint32
|  |  +--rw ospf:external-lsdb-limit?             uint32
|  |  +--rw ospf:log
|  |  |  +--rw ospf:adjacency?
|  |  |  |  +--rw ospf:dr-only?   empty
|  |  |  +--rw ospf:log-all?          empty
|  |  |  +--rw ospf:bad-packet?
|  |  |  |  +--rw ospf:log-checksum?   empty
|  |  |  +--rw ospf:log-database?     empty
|  |  |  +--rw ospf:log-retransmit?   empty
|  |  +--rw ospf:ospf-metric-type?                metric-type
|  |  +--rw ospf:neighbor [neighbor-addr]
|  |  |  +--rw ospf:neighbor-addr    ospf-ipv4-address
|  |  +--rw ospf:redistribute
|  |  |  +--rw ospf:connected?
|  |  |  |  +--rw ospf:connected-route-map?   common-def:name-string63
|  |  |  +--rw ospf:static?
|  |  |  |  +--rw ospf:static-route-map?   common-def:name-string63
|  |  |  +--rw ospf:bgp?
|  |  |  |  +--rw ospf:bgp-route-map?   common-def:name-string63
|  |  |  +--rw ospf:redistribute-ospf?
|  |  |  |  +--rw ospf:ospf-route-map?   common-def:name-string63
|  |  |  +--rw ospf:isis
|  |  |     +--rw (ch-isis-level)?
|  |  |     |  +--:(ca-level-1)
|  |  |     |  |  +--rw ospf:isis-level-one?           empty
|  |  |     |  +--:(ca-level-2)
|  |  |     |  |  +--rw ospf:isis-level-two?           empty
|  |  |     |  +--:(ca-level-1-2)
|  |  |     |     +--rw ospf:isis-level-one-and-two?   empty
|  |  |     +--rw ospf:isis-route-map?           common-def:name-string63
|  |  +--rw ospf:rfc1583-compatibility?
|  |  |  +--rw ospf:rfc1583-compatibility-flag?   empty
|  |  +--rw ospf:area [area-id]
|  |  |  +--rw ospf:area-id         ospf-area-id
|  |  |  +--rw ospf:normal?         empty
|  |  |  +--rw ospf:nssa
|  |  |  |  +--rw ospf:metric
|  |  |  |  |  +--rw ospf:nssa-value?    big-metric
|  |  |  |  |  +--rw ospf:no-summary1?   empty
|  |  |  |  +--rw ospf:default-information-originate?   empty
|  |  |  +--rw ospf:stub
|  |  |  |  +--rw ospf:metric
|  |  |  |  |  +--rw ospf:stub-value?   big-metric
|  |  |  |  |  +--rw ospf:no-summary?   empty
|  |  |  +--rw ospf:range [range-address range-mask]
|  |  |  |  +--rw ospf:range-address    inet:ipv4-address
|  |  |  |  +--rw ospf:range-mask       inet:ipv4-address
|  |  |  |  +--rw ospf:range-effect?    enumeration
|  |  |  |  +--rw ospf:range-cost?      range-metric
|  |  |  +--rw ospf:prefix-list
|  |  |  |  +--rw ospf:direction-in
|  |  |  |  |  +--rw ospf:prefix-list-direction-in-prefix-name?   ipv4-prefix-name-t
|  |  |  |  |  +--rw ospf:prefix-list-direction-in?               empty
|  |  |  |  +--rw ospf:direction-out
|  |  |  |     +--rw ospf:prefix-list-direction-out-prefix-name?   ipv4-prefix-name-t
```

```
|  |  |  |     +--rw ospf:prefix-list-direction-out?              empty
|  |  |  +--rw ospf:virtual-link [virt-link-neighbor]
|  |  |     +--rw ospf:virt-link-neighbor     inet:ipv4-address
|  |  |     +--rw ospf:authentication-key
|  |  |     |  +--rw ospf:no-encrypt-auth-key-table
|  |  |     |     +--rw ospf:no-encrypt-auth-key?   ospf-auth-psswd-string
|  |  |     +--rw ospf:hello-interval?        common-def:time-interval-sec
|  |  |     +--rw ospf:dead-interval?         common-def:time-interval-sec
|  |  |     +--rw ospf:retransmit-interval?   common-def:time-interval-sec
|  |  |     +--rw ospf:transmit-delay?        common-def:time-interval-sec
|  |  |     +--rw ospf:md5-authentication
|  |  |        +--rw ospf:key-activation-wait-time?   common-def:time-interval-sec
|  |  |        +--rw ospf:key-table
|  |  |           +--rw ospf:key-id?                   uint32
|  |  |           +--rw ospf:md5-authentication-key?   ospf-auth-psswd-string
|  |  +--rw ospf:auto-cost
|  |  |  +--rw ospf:reference-bandwidth
|  |  |     +--rw ospf:ref-bandwidth?      band-width
|  |  |     +--rw ospf:use-active-ports?   empty
|  |  +--rw ospf:distance [route-type]
|  |  |  +--rw ospf:route-type    route-type-enum
|  |  |  +--rw ospf:dist-value    uint32
|  |  +--rw ospf:distribute-list
|  |  |  +--rw ospf:route-map
|  |  |     +--rw ospf:route-map?   common-def:name-string63
|  |  |     +--rw ospf:input?       empty
|  |  +--rw ospf:max-metric
|  |  |  +--rw ospf:router-lsa?
|  |  |     +--rw ospf:all-vrfs?       empty
|  |  |     +--rw ospf:all-lsas?       empty
|  |  |     +--rw ospf:external-lsa?
|  |  |     |  +--rw ospf:external-lsa-val?   uint32
|  |  |     +--rw ospf:summary-lsa?
|  |  |     |  +--rw ospf:summary-lsa-val?   uint32
|  |  |     +--rw ospf:link
|  |  |     |  +--rw ospf:all?       empty
|  |  |     |  +--rw ospf:ptp?       empty
|  |  |     |  +--rw ospf:stub?      empty
|  |  |     |  +--rw ospf:transit?   empty
|  |  |     +--rw ospf:on-startup
|  |  |        +--rw ospf:time?                     uint32
|  |  |        +--rw ospf:wait-for-bgp?             empty
|  |  |        +--rw ospf:all-lsas-onstartup?       empty
|  |  |        +--rw ospf:external-lsa-onstartup?
|  |  |        |  +--rw ospf:external-lsa-val-onstartup?   uint32
|  |  |        +--rw ospf:summary-lsa-onstartup?
|  |  |        |  +--rw ospf:summary-lsa-val-onstartup?   uint32
|  |  |        +--rw ospf:link-onstartup
|  |  |           +--rw ospf:all-link-onstartup?       empty
|  |  |           +--rw ospf:ptp-link-onstartup?       empty
|  |  |           +--rw ospf:stub-link-onstartup?      empty
|  |  |           +--rw ospf:transit-link-onstartup?   empty
|  |  +--rw ospf:summary-address [sum-address sum-address-mask]
|  |  |  +--rw ospf:sum-address         ospf-ipv4-address
|  |  |  +--rw ospf:sum-address-mask    inet:ipv4-address
|  |  +--rw ospf:timers
|  |  |  +--rw ospf:lsa-group-pacing?   common-def:time-interval-sec
|  |  |  +--rw ospf:throttle
|  |  |     +--rw ospf:spf
|  |  |        +--rw ospf:init-delay?      common-def:time-interval-msec
|  |  |        +--rw ospf:hold-time?       common-def:time-interval-msec
|  |  |        +--rw ospf:max-hold-time?   common-def:time-interval-msec
|  |  +--rw ospf:vrf-lite-capability?            empty
|  |  +--rw ospf:graceful-restart
|  |  |  +--rw ospf:graceful-restart-enable?   empty
|  |  |  +--rw ospf:helper-disable?            empty
|  |  |  +--rw ospf:restart-time?              common-def:time-interval-sec
|  |  +--rw ospf:nonstop-routing?               empty
|  |  +--rw ospf:maximum-paths?                 uint8
|  +--rw pim:hide-pim-holder
|     +--rw pim:pim?
|        +--rw pim:max-mcache?         uint32
```

```
|        +--rw pim:hello-interval?     uint32
|        +--rw pim:prune-wait?         uint32
|        +--rw pim:nbr-timeout?        int16
|        +--rw pim:inactivity-timer?   int16
|        +--rw pim:message-interval?   uint32
|        +--rw pim:spt-threshold?      spt-thr-type
|        +--rw pim:rpf
|        |  +--rw pim:ecmp?
|        |     +--rw pim:rebalance?   empty
|        +--rw pim:ssm-enable?
|        |  +--rw pim:range?   ip-prefix-name-t
|        +--rw pim:bsr-candidate
|        |  +--rw pim:bsr-cand-interface [bsr-cand-intf-type bsr-cand-intf-id]
|        |     +--rw pim:bsr-cand-intf-type    pim-intf-types
|        |     +--rw pim:bsr-cand-intf-id      string
|        |     +--rw pim:hash-mask-length?     uint16
|        |     +--rw pim:bsr-cand-priority?    uint32
|        +--rw pim:rp-candidate
|        |  +--rw pim:rp-cand-interface [rp-cand-intf-type rp-cand-intf-id]
|        |  |  +--rw pim:rp-cand-intf-type    pim-intf-types
|        |  |  +--rw pim:rp-cand-intf-id      string
|        |  +--rw pim:rp-cand-grp-prefix [rp-cand-prefix-name]
|        |     +--rw pim:rp-cand-prefix-name    ip-prefix-name-t
|        +--rw pim:anycast-rp [anycast-ip-addr]
|        |  +--rw pim:anycast-ip-addr        inet:ipv4-address
|        |  +--rw pim:anycast-prefix-list?   ip-prefix-name-t
|        +--rw pim:rp-address [rp-ip-addr]
|        |  +--rw pim:rp-ip-addr             inet:ipv4-address
|        |  +--rw pim:rp-addr-prefix-list?   common-def:name-string63
|        +--rw pim:route-precedence
|           +--rw pim:uc-default?       empty
|           +--rw pim:uc-non-default?   empty
|           +--rw pim:none?             empty
+--rw ip
|  +--rw dhcp:dhcp
|  |  +--rw dhcp:relay
|  |     +--rw dhcp:information
|  |        +--rw dhcp:option?   empty
|  +--rw ip-access-list:receive
|     +--rw ip-access-list:access-group [acl-name]
|        +--rw ip-access-list:acl-name    l3-acl-policy-name
+--rw ipv6
|  +--rw router
|  |  +--rw ospfv3:ospf [vrf]
|  |     +--rw ospfv3:vrf                                          common-def:vrf-name
|  |     +--rw ospfv3:area [area-id]
|  |     |  +--rw ospfv3:area-id           ospf:ospf-area-id
|  |     |  +--rw ospfv3:normal?           empty
|  |     |  +--rw ospfv3:nssa?
|  |     |  |  +--rw ospfv3:metric
|  |     |  |  |  +--rw ospfv3:nssa-area-metric?   uint32
|  |     |  |  +--rw ospfv3:area-default-information-originate?
|  |     |  |  |  +--rw ospfv3:area-default-information-originate-metric?        uint32
|  |     |  |  |  +--rw ospfv3:area-default-information-originate-metric-type?   ospf:metric-type
|  |     |  |  +--rw ospfv3:no-redistribution?                    empty
|  |     |  |  +--rw ospfv3:nssa-area-no-summary?                 empty
|  |     |  |  +--rw ospfv3:translator-always?                    empty
|  |     |  |  +--rw ospfv3:translator-interval?                  common-def:time-interval-sec
|  |     |  +--rw ospfv3:stub
|  |     |  |  +--rw ospfv3:stub-area-no-summary?   empty
|  |     |  |  +--rw ospfv3:stub-area-metric?       uint32
|  |     |  +--rw ospfv3:authentication
|  |     |  |  +--rw ospfv3:ipsec-auth-key-config
|  |     |  |     +--rw ospfv3:spi?            spi-value-type
|  |     |  |     +--rw (ch-algorithm)?
|  |     |  |        +--:(ca-ah-algorithm)
|  |     |  |        |  +--rw ospfv3:ah?             algorithm-type-ah
|  |     |  |        |  +--rw ospfv3:ah-key?         ipsec-authentication-hexkey-string
|  |     |  |        +--:(ca-esp-algorithm)
|  |     |  |           +--rw ospfv3:esp?           algorithm-type-esp
|  |     |  |           +--rw ospfv3:esp-auth?      algorithm-type-ah
|  |     |  |           +--rw ospfv3:esp-auth-key?   ipsec-authentication-hexkey-string
```

```
|  |     |  +--rw ospfv3:virtual-link [virtual-link-neighbor]
|  |     |  |  +--rw ospfv3:virtual-link-neighbor    inet:ipv4-address
|  |     |  |  +--rw ospfv3:link-properties
|  |     |  |     +--rw ospfv3:link-interval-properties
|  |     |  |     |  +--rw ospfv3:hello-interval?        common-def:time-interval-sec
|  |     |  |     |  +--rw ospfv3:dead-interval?         common-def:time-interval-sec
|  |     |  |     |  +--rw ospfv3:hello-jitter?          uint32
|  |     |  |     |  +--rw ospfv3:retransmit-interval?   common-def:time-interval-sec
|  |     |  |     |  +--rw ospfv3:transmit-delay?        common-def:time-interval-sec
|  |     |  |     +--rw ospfv3:authentication
|  |     |  |        +--rw ospfv3:ipsec-auth-key-config
|  |     |  |           +--rw ospfv3:spi?            spi-value-type
|  |     |  |           +--rw (ch-algorithm)?
|  |     |  |              +--:(ca-ah-algorithm)
|  |     |  |              |  +--rw ospfv3:ah?             algorithm-type-ah
|  |     |  |              |  +--rw ospfv3:ah-key?         ipsec-authentication-hexkey-string
|  |     |  |              +--:(ca-esp-algorithm)
|  |     |  |                 +--rw ospfv3:esp?            algorithm-type-esp
|  |     |  |                 +--rw ospfv3:esp-auth?       algorithm-type-ah
|  |     |  |                 +--rw ospfv3:esp-auth-key?   ipsec-authentication-hexkey-string
|  |     |  +--rw ospfv3:area-range [range-address]
|  |     |     +--rw ospfv3:range-address    common-def:ipv6-address-prefix
|  |     |     +--rw ospfv3:range-effect?    enumeration
|  |     |     +--rw ospfv3:range-cost?      ospf:range-metric
|  |     +--rw ospfv3:auto-cost
|  |     |  +--rw ospfv3:reference-bandwidth?   ospf:band-width
|  |     +--rw ospfv3:database-overflow-interval?             common-def:time-interval-sec
|  |     +--rw ospfv3:global-default-information-originate?
|  |     |  +--rw ospfv3:global-default-information-originate-always?        empty
|  |     |  +--rw ospfv3:global-default-information-originate-metric?        uint32
|  |     |  +--rw ospfv3:global-default-information-originate-metric-type?   ospf:metric-type
|  |     +--rw ospfv3:default-metric?                         uint32
|  |     +--rw ospfv3:default-passive-interface?              empty
|  |     +--rw ospfv3:distance [route-type]
|  |     |  +--rw ospfv3:route-type        ospf:route-type-enum
|  |     |  +--rw ospfv3:distance-value?   uint32
|  |     +--rw ospfv3:distribute-list
|  |     |  +--rw ospfv3:route-map
|  |     |  |  +--rw ospfv3:distribute-list-route-map-name?   common-def:name-string63
|  |     |  |  +--rw ospfv3:distribute-list-route-map-in?     empty
|  |     |  +--rw ospfv3:prefix-list
|  |     |     +--rw ospfv3:distribute-list-prefix-list-name?   common-def:name-string63
|  |     |     +--rw ospfv3:distribute-list-prefix-list-in?     empty
|  |     +--rw ospfv3:external-lsdb-limit?                    uint32
|  |     +--rw ospfv3:graceful-restart
|  |     |  +--rw ospfv3:helper
|  |     |     +--rw ospfv3:graceful-restart-helper-disable?              empty
|  |     |     +--rw ospfv3:graceful-restart-helper-strict-lsa-checking?   empty
|  |     +--rw ospfv3:key-add-remove-interval?                common-def:time-interval-sec
|  |     +--rw ospfv3:key-rollover-interval?                  common-def:time-interval-sec
|  |     +--rw ospfv3:log
|  |     |  +--rw ospfv3:log-adjacency?
|  |     |  |  +--rw ospfv3:log-adjacency-dr-only?   empty
|  |     |  +--rw ospfv3:log-all?          empty
|  |     |  +--rw ospfv3:log-bad-packet?
|  |     |  |  +--rw ospfv3:log-bad-packet-checksum?   empty
|  |     |  +--rw ospfv3:log-database?     empty
|  |     |  +--rw ospfv3:log-retransmit?   empty
|  |     +--rw ospfv3:global-metric-type?                     ospf:metric-type
|  |     +--rw ospfv3:redistribute
|  |     |  +--rw ospfv3:redistribute-connected?
|  |     |  |  +--rw ospfv3:connected-route-map?                  common-def:name-string63
|  |     |  |  +--rw ospfv3:redistribute-connected-metric?        uint32
|  |     |  |  +--rw ospfv3:redistribute-connected-metric-type?   ospf:metric-type
|  |     |  +--rw ospfv3:redistribute-static?
|  |     |  |  +--rw ospfv3:static-route-map?                  common-def:name-string63
|  |     |  |  +--rw ospfv3:redistribute-static-metric?        uint32
|  |     |  |  +--rw ospfv3:redistribute-static-metric-type?   ospf:metric-type
|  |     |  +--rw ospfv3:redistribute-isis?
|  |     |  |  +--rw ospfv3:redistribute-isis-route-map?     common-def:name-string63
|  |     |  |  +--rw (ch-isis-level)?
|  |     |  |  |  +--:(ca-level-1)
```

```
|  |     |  |  |  |  +--rw ospfv3:level-1?                          empty
|  |     |  |  |  +--:(ca-level-2)
|  |     |  |  |  |  +--rw ospfv3:level-2?                          empty
|  |     |  |  |  +--:(ca-level-1-2)
|  |     |  |  |     +--rw ospfv3:level-1-2?                       empty
|  |     |  |  +--rw ospfv3:redistribute-isis-metric?        uint32
|  |     |  |  +--rw ospfv3:redistribute-isis-metric-type?   ospf:metric-type
|  |     |  +--rw ospfv3:redistribute-bgp?
|  |     |  |  +--rw ospfv3:bgp-route-map?                  common-def:name-string63
|  |     |  |  +--rw ospfv3:redistribute-bgp-metric?        uint32
|  |     |  |  +--rw ospfv3:redistribute-bgp-metric-type?   ospf:metric-type
|  |     |  +--rw ospfv3:redistribute-ospf?
|  |     |     +--rw ospfv3:ospf-route-map?                  common-def:name-string63
|  |     |     +--rw ospfv3:redistribute-ospf-metric?        uint32
|  |     |     +--rw ospfv3:redistribute-ospf-metric-type?   ospf:metric-type
|  |     +--rw ospfv3:summary-address [summary-address-value]
|  |     |  +--rw ospfv3:summary-address-value    common-def:ipv6-address-prefix
|  |     +--rw ospfv3:timers
|  |     |  +--rw ospfv3:lsa-group-pacing?   common-def:time-interval-sec
|  |     |  +--rw ospfv3:spf
|  |     |     +--rw ospfv3:spf-delay?       common-def:time-interval-sec
|  |     |     +--rw ospfv3:spf-hold-time?   common-def:time-interval-sec
|  |     +--rw ospfv3:nonstop-routing?                        empty
|  |     +--rw ospfv3:maximum-paths?                          uint32
|  |     +--rw ospfv3:max-metric
|  |        +--rw ospfv3:router-lsa?
|  |           +--rw ospfv3:all-lsas?       empty
|  |           +--rw ospfv3:external-lsa?
|  |           |  +--rw ospfv3:external-lsa-value?   uint32
|  |           +--rw ospfv3:summary-lsa?
|  |           |  +--rw ospfv3:summary-lsa-value?   uint32
|  |           +--rw ospfv3:include-stub?   empty
|  |           +--rw ospfv3:on-startup
|  |              +--rw ospfv3:on-startup-time?   uint32
|  |              +--rw ospfv3:wait-for-bgp?      empty
|  +--rw ipv6-access-list:receive
|     +--rw ipv6-access-list:access-group [acl-name]
|        +--rw ipv6-access-list:acl-name    ipv6-l3-acl-policy-name
+--rw brocade-interface:protocol
|  +--rw vrrp:hide-vrrp-holder
|     +--rw vrrp:vrrp?            empty
|     +--rw vrrp:vrrp-extended?   empty
+--rw brocade-interface:interface
|  +--rw brocade-interface:ve [name]
|  |  +--rw brocade-interface:name             ve-type
|  |  +--rw ipv6-config:ipv6
|  |  |  +--rw ipv6-config:ipv6-config
|  |  |  |  +--rw ipv6-config:address
|  |  |  |  |  +--rw ipv6-config:use-link-local-only?   empty
|  |  |  |  |  +--rw ipv6-config:link-local-config
|  |  |  |  |  |  +--rw ipv6-config:link-local-address?   inet:ipv6-address
|  |  |  |  |  |  +--rw ipv6-config:link-local?           empty
|  |  |  |  |  +--rw ipv6-config:ipv6-address [address]
|  |  |  |  |     +--rw ipv6-config:address       union
|  |  |  |  |     +--rw ipv6-config:secondary?    empty
|  |  |  |  |     +--rw ipv6-config:eui-config
|  |  |  |  |     |  +--rw ipv6-config:eui64?           empty
|  |  |  |  |     |  +--rw ipv6-config:eui-secondary?   empty
|  |  |  |  |     +--rw ipv6-config:anycast?      empty
|  |  |  |  +--rw ipv6-config:mtu?       ip-mtu
|  |  |  +--rw dhcpv6:interface-ve-dhcp-conf
|  |  |  |  +--rw dhcpv6:dhcp
|  |  |  |     +--rw dhcpv6:relay
|  |  |  |        +--rw dhcpv6:servers [relay-ip-addr]
|  |  |  |           +--rw dhcpv6:relay-ip-addr      dhcp-ipv6-address
|  |  |  |           +--rw dhcpv6:server-vrf-name?   common-def:vrf-name
|  |  |  |           +--rw dhcpv6:interface
|  |  |  |              +--rw dhcpv6:interface-type?   dhcpv6-iftype
|  |  |  |              +--rw dhcpv6:interface-name?   dhcpv6-ifname
|  |  |  +--rw icmp:icmpv6
|  |  |  |  +--rw icmp:rate-limiting?   uint32
|  |  |  +--rw ipv6-access-list:access-group [ipv6-access-list ip-direction]
```

```
|  |  |  |  +--rw ipv6-access-list:ipv6-access-list    ipv6-l3-acl-policy-name
|  |  |  |  +--rw ipv6-access-list:ip-direction        enumeration
|  |  |  |  +--rw ipv6-access-list:traffic-type?       enumeration
|  |  |  +--rw ip-policy:policy
|  |  |  |  +--rw ip-policy:route-map
|  |  |  |     +--rw ip-policy:ipv6-route-map-name?   common-def:name-string63
|  |  |  +--rw ipv6-nd-ra:ipv6-nd-ra
|  |  |  |  +--rw ipv6-nd-ra:ipv6-intf-cmds
|  |  |  |     +--rw ipv6-nd-ra:vrrp-suppress-interface-ra?   empty
|  |  |  |     +--rw ipv6-nd-ra:nd
|  |  |  |     |  +--rw ipv6-nd-ra:managed-config-flag?   empty
|  |  |  |     |  +--rw ipv6-nd-ra:other-config-flag?     empty
|  |  |  |     |  +--rw ipv6-nd-ra:broadcast-mac-trap?    empty
|  |  |  |     |  +--rw ipv6-nd-ra:ra-lifetime?           common-def:time-interval-sec
|  |  |  |     |  +--rw ipv6-nd-ra:reachable-time?        common-def:time-interval-msec
|  |  |  |     |  +--rw ipv6-nd-ra:mtu?                   uint32
|  |  |  |     |  +--rw ipv6-nd-ra:retrans-timer?         common-def:time-interval-msec
|  |  |  |     |  +--rw ipv6-nd-ra:hoplimit?              uint32
|  |  |  |     |  +--rw ipv6-nd-ra:ns-interval?           common-def:time-interval-sec
|  |  |  |     |  +--rw ipv6-nd-ra:suppress-ra
|  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-flag?   empty
|  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-mtu?    empty
|  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-all?    empty
|  |  |  |     |  +--rw ipv6-nd-ra:ra-interval
|  |  |  |     |  |  +--rw ipv6-nd-ra:max-interval?   common-def:time-interval-sec
|  |  |  |     |  |  +--rw ipv6-nd-ra:min?            common-def:time-interval-sec
|  |  |  |     |  +--rw ipv6-nd-ra:send-ra?               empty
|  |  |  |     |  +--rw ipv6-nd-ra:router-preference
|  |  |  |     |  |  +--rw ipv6-nd-ra:router-pref-high?     empty
|  |  |  |     |  |  +--rw ipv6-nd-ra:router-pref-low?      empty
|  |  |  |     |  |  +--rw ipv6-nd-ra:router-pref-medium?   empty
|  |  |  |     |  +--rw ipv6-nd-ra:ra-dns-server [dns-server-prefix]
|  |  |  |     |  |  +--rw ipv6-nd-ra:dns-server-prefix                inet:ipv6-address
|  |  |  |     |  |  +--rw ipv6-nd-ra:dns-server-lifetime-multiplier?   uint32
|  |  |  |     |  +--rw ipv6-nd-ra:ra-domain-name [domain-name-string]
|  |  |  |     |  |  +--rw ipv6-nd-ra:domain-name-string                string
|  |  |  |     |  |  +--rw ipv6-nd-ra:domain-name-lifetime-multiplier?   uint32
|  |  |  |     |  +--rw ipv6-nd-ra:address
|  |  |  |     |  |  +--rw ipv6-nd-ra:suppressing-address [suppress-ipv6-address]
|  |  |  |     |  |  |  +--rw ipv6-nd-ra:suppress-ipv6-address    inet:ipv6-address
|  |  |  |     |  |  |  +--rw ipv6-nd-ra:suppress-per-address?    empty
|  |  |  |     |  |  +--rw ipv6-nd-ra:address-suppress-all?   empty
|  |  |  |     |  +--rw ipv6-nd-ra:dad
|  |  |  |     |  |  +--rw ipv6-nd-ra:attempts?   uint32
|  |  |  |     |  |  +--rw ipv6-nd-ra:time?       common-def:time-interval-sec
|  |  |  |     |  +--rw ipv6-nd-ra:cache
|  |  |  |     |  |  +--rw ipv6-nd-ra:expire?   common-def:time-interval-sec
|  |  |  |     |  +--rw ipv6-nd-ra:prefix [prefix-ipv6-address]
|  |  |  |     |     +--rw ipv6-nd-ra:prefix-ipv6-address    inet:ipv6-prefix
|  |  |  |     |     +--rw ipv6-nd-ra:lifetime
|  |  |  |     |        +--rw (ch-valid-type)?
|  |  |  |     |        |  +--:(ca-no-advertise)
|  |  |  |     |        |  |  +--rw ipv6-nd-ra:no-advertise?     empty
|  |  |  |     |        |  +--:(ca-valid-lifetime)
|  |  |  |     |        |  |  +--rw ipv6-nd-ra:valid-lifetime?   common-def:time-interval-sec
|  |  |  |     |        |  +--:(ca-valid-infinite)
|  |  |  |     |        |     +--rw ipv6-nd-ra:valid-infinite?   empty
|  |  |  |     |        +--rw ipv6-nd-ra:preferred
|  |  |  |     |           +--rw (ch-preferred-type)?
|  |  |  |     |           |  +--:(ca-preferred-lifetime)
|  |  |  |     |           |  |  +--rw ipv6-nd-ra:preferred-lifetime?   common-def:time-interval-sec
|  |  |  |     |           |  +--:(ca-preferred-infinite)
|  |  |  |     |           |     +--rw ipv6-nd-ra:preferred-infinite?   empty
|  |  |  |     |           +--rw ipv6-nd-ra:prefix-flags
|  |  |  |     |              +--rw ipv6-nd-ra:no-autoconfig?   empty
|  |  |  |     |              +--rw ipv6-nd-ra:no-onlink?       empty
|  |  |  |     |              +--rw ipv6-nd-ra:off-link?        empty
|  |  |  |     +--rw ipv6-nd-ra:neighbor [ipv6-address]
|  |  |  |        +--rw ipv6-nd-ra:ipv6-address        neighbor-ipv6-address
|  |  |  |        +--rw ipv6-nd-ra:hardware-address?   macAddr
|  |  |  +--rw isis:intf-ipv6-router-isis
|  |  |  |  +--rw isis:int-ipv6-router-isis
```

```
|  |  |  |     +--rw isis:interface-ipv6-router-isis?   empty
|  |  |  +--rw ospfv3:interface-ospfv3-conf
|  |  |  |  +--rw ospfv3:interface-area?            ospf:ospf-area-id
|  |  |  |  +--rw ospfv3:active?                    empty
|  |  |  |  +--rw ospfv3:passive?                   empty
|  |  |  |  +--rw ospfv3:cost?                      uint32
|  |  |  |  +--rw ospfv3:instance?                  uint32
|  |  |  |  +--rw ospfv3:mtu-ignore?                empty
|  |  |  |  +--rw ospfv3:network?                   enumeration
|  |  |  |  +--rw ospfv3:priority?                  uint32
|  |  |  |  +--rw ospfv3:suppress-linklsa?          empty
|  |  |  |  +--rw ospfv3:authentication
|  |  |  |  |  +--rw ospfv3:ipsec-auth-key-config
|  |  |  |  |  |  +--rw ospfv3:spi?            spi-value-type
|  |  |  |  |  |  +--rw (ch-algorithm)?
|  |  |  |  |  |     +--:(ca-ah-algorithm)
|  |  |  |  |  |     |  +--rw ospfv3:ah?             algorithm-type-ah
|  |  |  |  |  |     |  +--rw ospfv3:ah-key?         ipsec-authentication-hexkey-string
|  |  |  |  |  |     +--:(ca-esp-algorithm)
|  |  |  |  |  |        +--rw ospfv3:esp?            algorithm-type-esp
|  |  |  |  |  |        +--rw ospfv3:esp-auth?       algorithm-type-ah
|  |  |  |  |  |        +--rw ospfv3:esp-auth-key?   ipsec-authentication-hexkey-string
|  |  |  |  |  +--rw ospfv3:ipsec
|  |  |  |  |     +--rw ospfv3:ipsec-authentication-disable?   empty
|  |  |  |  |     +--rw ospfv3:ifc-key-add-remove-interval?    common-def:time-interval-sec
|  |  |  |  +--rw ospfv3:link-interval-properties
|  |  |  |     +--rw ospfv3:hello-interval?        common-def:time-interval-sec
|  |  |  |     +--rw ospfv3:dead-interval?         common-def:time-interval-sec
|  |  |  |     +--rw ospfv3:hello-jitter?          uint32
|  |  |  |     +--rw ospfv3:retransmit-interval?   common-def:time-interval-sec
|  |  |  |     +--rw ospfv3:transmit-delay?        common-def:time-interval-sec
|  |  |  +--rw vrrpv3:vrrpv3 [vrid]
|  |  |  |  +--rw vrrpv3:vrid                       vrid-type
|  |  |  |  +--rw vrrpv3:use-v2-checksum?           empty
|  |  |  |  +--rw vrrpv3:virtual-ip [virtual-ipaddr]
|  |  |  |  |  +--rw vrrpv3:virtual-ipaddr    inet:ipv6-address
|  |  |  |  +--rw vrrpv3:track
|  |  |  |  |  +--rw vrrpv3:interface [interface-type interface-name]
|  |  |  |  |     +--rw vrrpv3:interface-type    track-iftype
|  |  |  |  |     +--rw vrrpv3:interface-name    track-ifname
|  |  |  |  |     +--rw vrrpv3:track-priority?   uint8
|  |  |  |  +--rw vrrpv3:advertisement-interval?   uint32
|  |  |  |  +--rw vrrpv3:enable?                   empty
|  |  |  |  +--rw vrrpv3:hold-time?                uint32
|  |  |  |  +--rw vrrpv3:preempt-mode?             empty
|  |  |  |  +--rw vrrpv3:priority?                 uint8
|  |  |  |  +--rw vrrpv3:description?              string
|  |  |  +--rw vrrpv3:vrrpv3e [vrid]
|  |  |  |  +--rw vrrpv3:vrid                             vrrpe-vrid-type
|  |  |  |  +--rw vrrpv3:virtual-mac?                     enumeration
|  |  |  |  +--rw vrrpv3:virtual-ip [virtual-ipaddr]
|  |  |  |  |  +--rw vrrpv3:virtual-ipaddr    inet:ipv6-address
|  |  |  |  +--rw vrrpv3:track
|  |  |  |  |  +--rw vrrpv3:network [network-address]
|  |  |  |  |  |  +--rw vrrpv3:network-address     common-def:ipv6-address-prefix
|  |  |  |  |  |  +--rw vrrpv3:network-priority?   uint8
|  |  |  |  |  +--rw vrrpv3:interface [interface-type interface-name]
|  |  |  |  |     +--rw vrrpv3:interface-type    track-iftype
|  |  |  |  |     +--rw vrrpv3:interface-name    track-ifname
|  |  |  |  |     +--rw vrrpv3:track-priority?   uint8
|  |  |  |  +--rw vrrpv3:enable?                          empty
|  |  |  |  +--rw vrrpv3:hold-time?                       uint32
|  |  |  |  +--rw vrrpv3:preempt-mode?                    empty
|  |  |  |  +--rw vrrpv3:priority?                        uint8
|  |  |  |  +--rw vrrpv3:description?                     string
|  |  |  |  +--rw vrrpv3:advertise-backup?                empty
|  |  |  |  +--rw vrrpv3:nd-advertisement-timer?          uint32
|  |  |  |  +--rw vrrpv3:advertisement-interval-scale?    uint32
|  |  |  |  +--rw vrrpv3:backup-advertisement-interval?   uint32
|  |  |  |  +--rw vrrpv3:vrrpe-advertisement-interval?    uint32
|  |  |  |  +--rw vrrpv3:short-path-forwarding
|  |  |  |     +--rw vrrpv3:basic?            empty
```

```
|  |  |  |     +--rw vrrpv3:revert-priority?   uint8
|  |  |  +--rw vrrp:ipv6-vrrp-extended
|  |  |     +--rw vrrp:auth-type
|  |  |        +--rw vrrp:md5-auth
|  |  |           +--rw vrrp:auth-data?   string
|  |  +--rw ip-config:vrf
|  |  |  +--rw ip-config:forwarding?   common-def:vrf-name
|  |  +--rw ip-config:ip
|  |  |  +--rw ip-config:ip-config
|  |  |  |  +--rw ip-config:mtu?                ip-mtu
|  |  |  |  +--rw ip-config:proxy-arp?          empty
|  |  |  |  +--rw ip-config:arp-aging-timeout?   uint32
|  |  |  |  +--rw ip-config:address [address]
|  |  |  |     +--rw ip-config:address         union
|  |  |  |     +--rw ip-config:secondary?      empty
|  |  |  |     +--rw ip-config:ospf-passive?   empty
|  |  |  |     +--rw ip-config:ospf-ignore?    empty
|  |  |  +--rw dhcp:interface-ve-dhcp-conf
|  |  |  |  +--rw dhcp:dhcp
|  |  |  |     +--rw dhcp:relay
|  |  |  |        +--rw dhcp:servers [relay-ip-addr server-vrf-name]
|  |  |  |        |  +--rw dhcp:relay-ip-addr      dhcp-ipv4-address
|  |  |  |        |  +--rw dhcp:server-vrf-name    common-def:vrf-name
|  |  |  |        +--rw dhcp:gateway?   dhcp-ipv4-address
|  |  |  +--rw icmp:icmp
|  |  |  |  +--rw icmp:rate-limiting?   uint32
|  |  |  +--rw isis:intf-router-isis
|  |  |  |  +--rw isis:int-router-isis
|  |  |  |     +--rw isis:interface-ip-router-isis?   empty
|  |  |  +--rw ospf:interface-vlan-ospf-conf
|  |  |  |  +--rw ospf:ospf1
|  |  |  |     +--rw ospf:area?                    ospf-area-id
|  |  |  |     +--rw ospf:auth-change-wait-time?   common-def:time-interval-sec
|  |  |  |     +--rw ospf:authentication-key
|  |  |  |     |  +--rw ospf:no-encrypt-auth-key-table
|  |  |  |     |     +--rw ospf:no-encrypt-auth-key?   ospf-auth-psswd-string
|  |  |  |     +--rw ospf:hello-interval?          common-def:time-interval-sec
|  |  |  |     +--rw ospf:dead-interval?           common-def:time-interval-sec
|  |  |  |     +--rw ospf:retransmit-interval?     common-def:time-interval-sec
|  |  |  |     +--rw ospf:transmit-delay?          common-def:time-interval-sec
|  |  |  |     +--rw ospf:md5-authentication
|  |  |  |     |  +--rw ospf:key-activation-wait-time?   common-def:time-interval-sec
|  |  |  |     |  +--rw ospf:key-table
|  |  |  |     |     +--rw ospf:key-id?                    uint32
|  |  |  |     |     +--rw ospf:md5-authentication-key?   ospf-auth-psswd-string
|  |  |  |     +--rw ospf:cost?                    uint32
|  |  |  |     +--rw ospf:network?                 enumeration
|  |  |  |     +--rw ospf:intf-ldp-sync?           enumeration
|  |  |  |     +--rw ospf:database-filter
|  |  |  |     |  +--rw ospf:all-out?               empty
|  |  |  |     |  +--rw ospf:all-external?          database-filter-options
|  |  |  |     |  +--rw ospf:all-summary-external?   database-filter-options
|  |  |  |     +--rw ospf:mtu-ignore?              empty
|  |  |  |     +--rw ospf:active?                  empty
|  |  |  |     +--rw ospf:passive?                 empty
|  |  |  |     +--rw ospf:priority?                uint32
|  |  |  +--rw pim:pim-intf-vlan-cont
|  |  |  |  +--rw pim:pim-int-cmd
|  |  |  |     +--rw pim:pim-sparse?   empty
|  |  |  |     +--rw pim:pim
|  |  |  |        +--rw pim:dr-priority?     uint32
|  |  |  |        +--rw pim:ttl-threshold?   uint32
|  |  |  +--rw vrrp:ip-vrrp-extended
|  |  |     +--rw vrrp:auth-type
|  |  |        +--rw vrrp:md5-auth
|  |  |           +--rw vrrp:auth-data?   string
|  |  +--rw ip-config:shutdown?               empty
|  |  +--rw ip-access-list:ip-acl-interface
|  |  |  +--rw ip-access-list:ip
|  |  |     +--rw ip-access-list:access-group [ip-access-list ip-direction]
|  |  |        +--rw ip-access-list:ip-access-list    l3-acl-policy-name
|  |  |        +--rw ip-access-list:ip-direction      enumeration
```

```
|  |  |        +--rw ip-access-list:traffic-type?     enumeration
|  |  +--rw ip-policy:ip-pbr-interface
|  |  |  +--rw ip-policy:ip
|  |  |     +--rw ip-policy:policy
|  |  |        +--rw ip-policy:route-map
|  |  |           +--rw ip-policy:route-map-name?   common-def:name-string63
|  |  +--rw isis:intf-isis?
|  |  |  +--rw isis:interface-isis
|  |  |     +--rw isis:auth-check
|  |  |     |  +--rw isis:auth-check-level1
|  |  |     |  |  +--rw isis:interface-auth-check-level1-disable?   empty
|  |  |     |  +--rw isis:auth-check-level2
|  |  |     |     +--rw isis:interface-auth-check-level2-disable?   empty
|  |  |     +--rw isis:interface-reverse-metric?
|  |  |     |  +--rw isis:rev-metric-common-attributes
|  |  |     |     +--rw isis:rev-metric-val?             uint32
|  |  |     |     +--rw isis:rev-metric-whole-lan?       empty
|  |  |     |     +--rw isis:rev-metric-te-def-metric?   empty
|  |  |     +--rw isis:interface-auth-mode
|  |  |     |  +--rw isis:interface-md5
|  |  |     |     +--rw isis:interface-auth-mode-md5-level1?   empty
|  |  |     |     +--rw isis:interface-auth-mode-md5-level2?   empty
|  |  |     +--rw isis:interface-auth-key [interface-auth-key-level]
|  |  |     |  +--rw isis:interface-auth-key-level    enumeration
|  |  |     |  +--rw isis:interface-auth-key-str?     string
|  |  |     +--rw isis:interface-hello
|  |  |     |  +--rw isis:interface-hello-padding
|  |  |     |     +--rw isis:interface-hello-padding-disable?   empty
|  |  |     +--rw isis:interface-hello-interval [interface-hello-interval-level]
|  |  |     |  +--rw isis:interface-hello-interval-level    enumeration
|  |  |     |  +--rw isis:interface-hello-interval-val?     uint32
|  |  |     +--rw isis:interface-hello-multiplier [interface-hello-multiplier-level]
|  |  |     |  +--rw isis:interface-hello-multiplier-level    enumeration
|  |  |     |  +--rw isis:interface-hello-multiplier-val?     uint32
|  |  |     +--rw isis:circuit-type?                enumeration
|  |  |     +--rw isis:interface-ipv6
|  |  |     |  +--rw isis:interface-ipv6-metric [interface-ipv6-metric-level]
|  |  |     |     +--rw isis:interface-ipv6-metric-level    enumeration
|  |  |     |     +--rw isis:interface-ipv6-metric-val?     uint32
|  |  |     +--rw isis:interface-metric [interface-metric-level]
|  |  |     |  +--rw isis:interface-metric-level    enumeration
|  |  |     |  +--rw isis:interface-metric-val?     uint32
|  |  |     +--rw isis:interface-point-to-point?     empty
|  |  |     +--rw isis:interface-passive?            empty
|  |  |     +--rw isis:interface-priority
|  |  |     |  +--rw isis:interface-priority-level1?   uint32
|  |  |     |  +--rw isis:interface-priority-level2?   uint32
|  |  |     +--rw isis:interface-ldp-sync?          enumeration
|  |  +--rw qos-mls:qos
|  |  |  +--rw qos-mls:dscp-cos?             map-name-type
|  |  |  +--rw qos-mls:dscp-mutation?        map-name-type
|  |  |  +--rw qos-mls:dscp-traffic-class?   map-name-type
|  |  +--rw vrrp:vrrp [vrid version]
|  |  |  +--rw vrrp:vrid                      vrid-type
|  |  |  +--rw vrrp:version                   uint8
|  |  |  +--rw vrrp:use-v2-checksum?          empty
|  |  |  +--rw vrrp:virtual-ip [virtual-ipaddr]
|  |  |  |  +--rw vrrp:virtual-ipaddr    inet:ipv4-address
|  |  |  +--rw vrrp:track
|  |  |  |  +--rw vrrp:interface [interface-type interface-name]
|  |  |  |     +--rw vrrp:interface-type    track-iftype
|  |  |  |     +--rw vrrp:interface-name    track-ifname
|  |  |  |     +--rw vrrp:track-priority?   uint8
|  |  |  +--rw vrrp:advertisement-interval?   uint32
|  |  |  +--rw vrrp:enable?                   empty
|  |  |  +--rw vrrp:hold-time?                uint32
|  |  |  +--rw vrrp:preempt-mode?             empty
|  |  |  +--rw vrrp:arp
|  |  |  |  +--rw vrrp:unicast-request
|  |  |  |     +--rw vrrp:receive?   empty
|  |  |  +--rw vrrp:priority?                 uint8
|  |  |  +--rw vrrp:description?              string
```

```
|  |  +--rw vrrp:vrrpe [vrid]
|  |     +--rw vrrp:vrid                              vrrpe-vrid-type
|  |     +--rw vrrp:virtual-mac?                      enumeration
|  |     +--rw vrrp:virtual-ip [virtual-ipaddr]
|  |     |  +--rw vrrp:virtual-ipaddr    inet:ipv4-address
|  |     +--rw vrrp:track
|  |     |  +--rw vrrp:network [network-address]
|  |     |  |  +--rw vrrp:network-address     union
|  |     |  |  +--rw vrrp:network-priority?   uint8
|  |     |  +--rw vrrp:interface [interface-type interface-name]
|  |     |     +--rw vrrp:interface-type    track-iftype
|  |     |     +--rw vrrp:interface-name    track-ifname
|  |     |     +--rw vrrp:track-priority?   uint8
|  |     +--rw vrrp:advertisement-interval?          uint32
|  |     +--rw vrrp:enable?                          empty
|  |     +--rw vrrp:hold-time?                       uint32
|  |     +--rw vrrp:preempt-mode?                    empty
|  |     +--rw vrrp:arp
|  |     |  +--rw vrrp:unicast-request
|  |     |     +--rw vrrp:receive?   empty
|  |     +--rw vrrp:priority?                        uint8
|  |     +--rw vrrp:description?                     string
|  |     +--rw vrrp:advertise-backup?                empty
|  |     +--rw vrrp:vrrpe-garp-timer?                uint32
|  |     +--rw vrrp:backup-advertisement-interval?   uint32
|  |     +--rw vrrp:short-path-forwarding
|  |     |  +--rw vrrp:basic?             empty
|  |     |  +--rw vrrp:revert-priority?   uint8
|  |     +--rw vrrp:advertisement-interval-scale?    uint32
|  +--rw intf-loopback:loopback [id]
|     +--rw intf-loopback:id          intf-loopback-port-type
|     +--rw intf-loopback:vrf
|     |  +--rw intf-loopback:forwarding?   common-def:vrf-name
|     +--rw intf-loopback:shutdown?   empty
|     +--rw ipv6-config:ipv6
|     |  +--rw ipv6-config:ipv6-config
|     |  |  +--rw ipv6-config:address
|     |  |     +--rw ipv6-config:use-link-local-only?   empty
|     |  |     +--rw ipv6-config:link-local-config
|     |  |     |  +--rw ipv6-config:link-local-address?   inet:ipv6-address
|     |  |     |  +--rw ipv6-config:link-local?           empty
|     |  |     +--rw ipv6-config:ipv6-address [address]
|     |  |        +--rw ipv6-config:address    union
|     |  |        +--rw ipv6-config:eui64?     empty
|     |  |        +--rw ipv6-config:anycast?   empty
|     |  +--rw isis:intf-ipv6-router-isis
|     |  |  +--rw isis:int-ipv6-router-isis
|     |  |     +--rw isis:interface-ipv6-router-isis?   empty
|     |  +--rw ospfv3:interface-ospfv3-conf
|     |     +--rw ospfv3:interface-area?             ospf:ospf-area-id
|     |     +--rw ospfv3:active?                     empty
|     |     +--rw ospfv3:passive?                    empty
|     |     +--rw ospfv3:cost?                       uint32
|     |     +--rw ospfv3:instance?                   uint32
|     |     +--rw ospfv3:mtu-ignore?                 empty
|     |     +--rw ospfv3:network?                    enumeration
|     |     +--rw ospfv3:priority?                   uint32
|     |     +--rw ospfv3:suppress-linklsa?           empty
|     |     +--rw ospfv3:authentication
|     |     |  +--rw ospfv3:ipsec-auth-key-config
|     |     |  |  +--rw ospfv3:spi?            spi-value-type
|     |     |  |  +--rw (ch-algorithm)?
|     |     |  |     +--:(ca-ah-algorithm)
|     |     |  |     |  +--rw ospfv3:ah?             algorithm-type-ah
|     |     |  |     |  +--rw ospfv3:ah-key?         ipsec-authentication-hexkey-string
|     |     |  |     +--:(ca-esp-algorithm)
|     |     |  |        +--rw ospfv3:esp?            algorithm-type-esp
|     |     |  |        +--rw ospfv3:esp-auth?       algorithm-type-ah
|     |     |  |        +--rw ospfv3:esp-auth-key?   ipsec-authentication-hexkey-string
|     |     |  +--rw ospfv3:ipsec
|     |     |     +--rw ospfv3:ipsec-authentication-disable?   empty
|     |     |     +--rw ospfv3:ifc-key-add-remove-interval?    common-def:time-interval-sec
```

```
|     |     +--rw ospfv3:link-interval-properties
|     |        +--rw ospfv3:hello-interval?        common-def:time-interval-sec
|     |        +--rw ospfv3:dead-interval?         common-def:time-interval-sec
|     |        +--rw ospfv3:hello-jitter?          uint32
|     |        +--rw ospfv3:retransmit-interval?   common-def:time-interval-sec
|     |        +--rw ospfv3:transmit-delay?        common-def:time-interval-sec
|     +--rw ip-config:ip
|     |  +--rw ip-config:ip-config
|     |  |  +--rw ip-config:address [address]
|     |  |     +--rw ip-config:address    union
|     |  +--rw isis:intf-router-isis
|     |  |  +--rw isis:int-router-isis
|     |  |     +--rw isis:interface-ip-router-isis?   empty
|     |  +--rw ospf:interface-loopback-ospf-conf
|     |  |  +--rw ospf:ospf1
|     |  |     +--rw ospf:area?                    ospf-area-id
|     |  |     +--rw ospf:auth-change-wait-time?   common-def:time-interval-sec
|     |  |     +--rw ospf:authentication-key
|     |  |     |  +--rw ospf:no-encrypt-auth-key-table
|     |  |     |     +--rw ospf:no-encrypt-auth-key?   ospf-auth-psswd-string
|     |  |     +--rw ospf:hello-interval?          common-def:time-interval-sec
|     |  |     +--rw ospf:dead-interval?           common-def:time-interval-sec
|     |  |     +--rw ospf:retransmit-interval?     common-def:time-interval-sec
|     |  |     +--rw ospf:transmit-delay?          common-def:time-interval-sec
|     |  |     +--rw ospf:md5-authentication
|     |  |     |  +--rw ospf:key-activation-wait-time?   common-def:time-interval-sec
|     |  |     |  +--rw ospf:key-table
|     |  |     |     +--rw ospf:key-id?                  uint32
|     |  |     |     +--rw ospf:md5-authentication-key?   ospf-auth-psswd-string
|     |  |     +--rw ospf:cost?                    uint32
|     |  |     +--rw ospf:network?                 enumeration
|     |  |     +--rw ospf:intf-ldp-sync?           enumeration
|     |  |     +--rw ospf:database-filter
|     |  |     |  +--rw ospf:all-out?                empty
|     |  |     |  +--rw ospf:all-external?           database-filter-options
|     |  |     |  +--rw ospf:all-summary-external?   database-filter-options
|     |  |     +--rw ospf:mtu-ignore?              empty
|     |  |     +--rw ospf:active?                  empty
|     |  |     +--rw ospf:passive?                 empty
|     |  |     +--rw ospf:priority?                uint32
|     |  +--rw pim:pim-intf-loopback-cont
|     |     +--rw pim:pim-int-cmd
|     |        +--rw pim:pim-sparse?   empty
|     |        +--rw pim:pim
|     |           +--rw pim:dr-priority?     uint32
|     |           +--rw pim:ttl-threshold?   uint32
|     +--rw isis:intf-isis?
|        +--rw isis:interface-isis
|           +--rw isis:auth-check
|           |  +--rw isis:auth-check-level1
|           |  |  +--rw isis:interface-auth-check-level1-disable?   empty
|           |  +--rw isis:auth-check-level2
|           |     +--rw isis:interface-auth-check-level2-disable?   empty
|           +--rw isis:interface-reverse-metric?
|           |  +--rw isis:rev-metric-common-attributes
|           |     +--rw isis:rev-metric-val?             uint32
|           |     +--rw isis:rev-metric-whole-lan?       empty
|           |     +--rw isis:rev-metric-te-def-metric?   empty
|           +--rw isis:interface-auth-mode
|           |  +--rw isis:interface-md5
|           |     +--rw isis:interface-auth-mode-md5-level1?   empty
|           |     +--rw isis:interface-auth-mode-md5-level2?   empty
|           +--rw isis:interface-auth-key [interface-auth-key-level]
|           |  +--rw isis:interface-auth-key-level    enumeration
|           |  +--rw isis:interface-auth-key-str?     string
|           +--rw isis:interface-hello
|           |  +--rw isis:interface-hello-padding
|           |     +--rw isis:interface-hello-padding-disable?   empty
|           +--rw isis:interface-hello-interval [interface-hello-interval-level]
|           |  +--rw isis:interface-hello-interval-level    enumeration
|           |  +--rw isis:interface-hello-interval-val?     uint32
|           +--rw isis:interface-hello-multiplier [interface-hello-multiplier-level]
```

```
|           |  +--rw isis:interface-hello-multiplier-level    enumeration
|           |  +--rw isis:interface-hello-multiplier-val?     uint32
|           +--rw isis:circuit-type?                 enumeration
|           +--rw isis:interface-ipv6
|           |  +--rw isis:interface-ipv6-metric [interface-ipv6-metric-level]
|           |     +--rw isis:interface-ipv6-metric-level    enumeration
|           |     +--rw isis:interface-ipv6-metric-val?     uint32
|           +--rw isis:interface-metric [interface-metric-level]
|           |  +--rw isis:interface-metric-level    enumeration
|           |  +--rw isis:interface-metric-val?     uint32
|           +--rw isis:interface-point-to-point?     empty
|           +--rw isis:interface-passive?            empty
|           +--rw isis:interface-priority
|           |  +--rw isis:interface-priority-level1?   uint32
|           |  +--rw isis:interface-priority-level2?   uint32
|           +--rw isis:interface-ldp-sync?           enumeration
+--rw ip-policy:route-map [name action-rm instance]
   +--rw ip-policy:name         common-def:name-string63
   +--rw ip-policy:action-rm    action-t
   +--rw ip-policy:instance     instance-id-t
   +--rw ip-policy:content
      +--rw ip-policy:match
      |  +--rw ip-policy:vrf?            common-def:vrf-name
      |  +--rw ip-policy:interface
      |  |  +--rw ip-policy:ethernet-rmm*   interface:interface-type
      |  |  +--rw ip-policy:loopback*       loopback-intf:intf-loopback-port-type
      |  |  +--rw ip-policy:ve*             interface:ve-type
      |  +--rw ip-policy:ipv6
      |  |  +--rw ip-policy:address
      |  |  |  +--rw ip-policy:ipv6-prefix-list-rmm?   ipv6-prefix-name-t
      |  |  |  +--rw ip-policy:ipv6-acl-rmm?           ipv6-access-list:ipv6-l3-acl-policy-name
      |  |  +--rw ip-policy:next-hop
      |  |  |  +--rw ip-policy:ipv6-prefix-list-rmm-n?   ipv6-prefix-name-t
      |  |  +--rw ip-policy:route-source
      |  |     +--rw ip-policy:ipv6-prefix-list-rmrs?   string
      |  +--rw ip-policy:ip
      |  |  +--rw ip-policy:address
      |  |  |  +--rw ip-policy:prefix-list-rmm?   ip-prefix-name-t
      |  |  |  +--rw ip-policy:acl-rmm?           ip-access-list:l3-acl-policy-name
      |  |  +--rw ip-policy:next-hop
      |  |  |  +--rw ip-policy:prefix-list-rmm-n?   ip-prefix-name-t
      |  |  +--rw ip-policy:route-source
      |  |     +--rw ip-policy:prefix-list-rmrs?   string
      |  +--rw ip-policy:extcommunity
      |  |  +--rw ip-policy:extcommunity-name?   ip-extcommunity-list-name-t
      |  +--rw ip-policy:metric
      |  |  +--rw ip-policy:metric-rmm?   metric-t
      |  +--rw ip-policy:route-type
      |  |  +--rw ip-policy:route-type-rmm?   match-route-type-t
      |  +--rw ip-policy:tag
      |  |  +--rw ip-policy:tag-rmm*   tag-t
      |  +--rw ip-policy:as-path
      |  |  +--rw ip-policy:as-path-access-list-name?   ip-as-path-name-t
      |  +--rw ip-policy:community
      |  |  +--rw ip-policy:community-access-list-name?   match-community-list-name-t
      |  +--rw ip-policy:protocol
      |     +--rw ip-policy:protocol-static-container
      |     |  +--rw ip-policy:static?   empty
      |     +--rw ip-policy:bgp-protocol-container
      |     |  +--rw ip-policy:protocol-bgp?     empty
      |     |  +--rw ip-policy:bgp-route-type?   enumeration
      |     +--rw ip-policy:isis-protocol-container
      |     |  +--rw ip-policy:protocol-isis?      empty
      |     |  +--rw ip-policy:match-isis-level?   enumeration
      |     +--rw ip-policy:ospf-protocol-container
      |        +--rw ip-policy:protocol-ospf?     empty
      |        +--rw ip-policy:ospf-route-type?   enumeration
      +--rw ip-policy:set
      |  +--rw ip-policy:level
      |  |  +--rw ip-policy:set-isis-level?   enumeration
      |  +--rw ip-policy:ip
      |  |  +--rw ip-policy:dscp
```

```
|  |  |  +--rw ip-policy:dscp-rms?   dscp-precedence
|  |  +--rw ip-policy:interface
|  |  |  +--rw ip-policy:null0?   empty
|  |  +--rw ip-policy:next-hop
|  |  |  +--rw ip-policy:peer-address?    empty
|  |  |  +--rw ip-policy:next-hop-list [next-hop-addr]
|  |  |     +--rw ip-policy:next-hop-addr    inet:ipv4-address
|  |  +--rw ip-policy:global
|  |  |  +--rw ip-policy:next-global-hop [next-hop]
|  |  |     +--rw ip-policy:next-hop    inet:ipv4-address
|  |  +--rw ip-policy:next-vrf
|  |     +--rw ip-policy:next-vrf-list [vrf next-hop]
|  |        +--rw ip-policy:vrf         string
|  |        +--rw ip-policy:next-hop    inet:ipv4-address
|  +--rw ip-policy:ipv6
|  |  +--rw ip-policy:interface
|  |  |  +--rw ip-policy:ipv6-null0?   empty
|  |  +--rw ip-policy:global
|  |  |  +--rw ip-policy:next-global-hop [next-hop]
|  |  |     +--rw ip-policy:next-hop    inet:ipv6-address
|  |  +--rw ip-policy:next-ip
|  |  |  +--rw ip-policy:next-hop [next-hop]
|  |  |     +--rw ip-policy:next-hop    inet:ipv6-address
|  |  +--rw ip-policy:next-vrf
|  |     +--rw ip-policy:next-vrf-list [vrf next-hop]
|  |        +--rw ip-policy:vrf         string
|  |        +--rw ip-policy:next-hop    inet:ipv6-address
|  +--rw ip-policy:extcommunity
|  |  +--rw ip-policy:rt
|  |  |  +--rw ip-policy:ASN-NN-rt?   ext-community-rt-expr-t
|  |  +--rw ip-policy:soo
|  |     +--rw ip-policy:ASN-NN-soo?   ext-community-soo-expr-t
|  +--rw ip-policy:community
|  |  +--rw ip-policy:set-community-expr?   set-community-expr-t
|  +--rw ip-policy:metric
|  |  +--rw ip-policy:delta-rms?    enumeration
|  |  +--rw ip-policy:metric-rms?   metric-t
|  +--rw ip-policy:distance
|  |  +--rw ip-policy:dist-rms?   distance-t
|  +--rw ip-policy:tag
|  |  +--rw ip-policy:tag-rms?   tag-t
|  +--rw ip-policy:weight
|  |  +--rw ip-policy:weight-value?   uint32
|  +--rw ip-policy:as-path
|  |  +--rw ip-policy:aspath-tag?   empty
|  |  +--rw ip-policy:prepend?      string
|  +--rw ip-policy:automatic-tag
|  |  +--rw ip-policy:tag-empty?   empty
|  +--rw ip-policy:comm-list
|  |  +--rw ip-policy:comm-list-name?      ip-community-list-name-t
|  |  +--rw ip-policy:match-comm-delete?   empty
|  +--rw ip-policy:dampening
|  |  +--rw ip-policy:half-life?           uint32
|  |  +--rw ip-policy:reuse?               uint32
|  |  +--rw ip-policy:suppress?            uint32
|  |  +--rw ip-policy:max-suppress-time?   uint32
|  +--rw ip-policy:local-preference
|  |  +--rw ip-policy:local-preference-value?   uint32
|  +--rw ip-policy:origin
|  |  +--rw ip-policy:origin-igp?          empty
|  |  +--rw ip-policy:origin-incomplete?   empty
|  +--rw ip-policy:metric-type
|     +--rw ip-policy:type-1?   empty
|     +--rw ip-policy:type-2?   empty
+--rw ip-policy:continue-holder
   +--rw ip-policy:continue?       empty
   +--rw ip-policy:continue-val?   uint32
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-control-plane

This management module is an instrumentation to control-plane level commands.

Top-level container

```
module: brocade-control-plane
+--rw control-plane
      +--rw ipv6
         +--rw subnet-rate-limit
            +--rw cir?   rate-limit-cir
            +--rw cbr?   rate-limit-cbr
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-crypto

Configures Crypto services for HTTPS certificate management.

Top-level container

```
module: brocade-crypto
   +--rw crypto-sa
      +--rw crypto
         +--rw key [label]
         |  +--rw label      string
         |  +--rw type?      key-type
         |  +--rw modulus?   uint32
         +--rw ca [trustpoint]
            +--rw trustpoint    string
            +--rw keypair?      string
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-crypto-ext

Configures Crypto services for HTTPS certificate management.

Top-level container

```
module: brocade-crypto-ext
   +--rw crypto
      +--rw ca
         +---x authenticate
         |  +--ro input
         |     +--ro authenticate_params
         |        +--ro trustpoint    string
         |        +--ro protocol      enumeration
         |        +--ro user          string
         |        +--ro password?     string
         |        +--ro host          inet:host
         |        +--ro directory     string
         |        +--ro file          string
         +---x enroll
         |  +--ro input
         |     +--ro authenticate_params
         |        +--ro trustpoint      string
         |        +--ro country         string
         |        +--ro state           string
         |        +--ro locality        string
         |        +--ro organization    string
         |        +--ro orgunit         string
         |        +--ro common          inet:host
         |        +--ro protocol        enumeration
         |        +--ro user            string
         |        +--ro password?       string
         |        +--ro host            inet:host
         |        +--ro directory       string
         +---x import
            +--ro input
               +--ro authenticate_params
                  +--ro trustpoint     string
                  +--ro certificate    empty
                  +--ro protocol       enumeration
                  +--ro user           string
                  +--ro password?      string
                  +--ro host           inet:host
                  +--ro directory      string
                  +--ro file           string
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-dhcp

Provides a data model to manage DHCP functionality.

External augmentations

```
module: brocade-interface
   |  |  |  +--rw dhcp:interface-eth-dhcp-conf
   |  |  |  |  +--rw dhcp:dhcp
   |  |  |  |     +--rw dhcp:relay
   |  |  |  |        +--rw dhcp:servers [relay-ip-addr server-vrf-name]
   |  |  |  |        |  +--rw dhcp:relay-ip-addr      dhcp-ipv4-address /*alt-name:"address"*/
   |  |  |  |        |  +--rw dhcp:server-vrf-name    common-def:vrf-name /*alt-name:"use-vrf"*/
   |  |  |  |        +--rw dhcp:gateway?   dhcp-ipv4-address
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-dhcpv6

Provides a data model to manage DHCPv6 functionality.

External augmentations

```
module: brocade-interface
   |  |  |  +--rw dhcpv6:interface-phy-dhcp-conf /*drop-node-name*/
   |  |  |  |  +--rw dhcpv6:dhcp
   |  |  |  |     +--rw dhcpv6:relay
   |  |  |  |        +--rw dhcpv6:servers [relay-ip-addr] /*drop-node-name*/
   |  |  |  |           +--rw dhcpv6:relay-ip-addr      dhcp-ipv6-address /*alt-name:"address"*/
   |  |  |  |           +--rw dhcpv6:server-vrf-name?   common-def:vrf-name /*alt-name:"use-vrf"*/
   |  |  |  |           +--rw dhcpv6:interface /*alt-name:"interface"*/
   |  |  |  |              +--rw dhcpv6:interface-type?   dhcpv6-iftype /*drop-node-name*/; /*alt-
name:"interface"*/
   |  |  |  |              +--rw dhcpv6:interface-name?   dhcpv6-ifname /*drop-node-name*/
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-diagnostics

Provides a data model for managing diagnostic tests.

This data model enables or disables power-on self-test (POST) and actions to initiate the tests listed in Table 2.

TABLE 2 Diagnostic actions

Action	Purpose
burninerrclear	Clears the errors that are stored in the nonvolatile storage on the slot during the burn-in process.
clearerror	Clears the diagnostics failure status.
portledtest	Runs various action modes on the port LEDs and validates the functionality.
portloopbacktest	Sends frames between various ASICs on the switch and validates the ASIC functionality.
post	Performs power-on self-test.
prbstest	Performs pseudo-random binary-sequence tests.
setcycle	Configures all the parameters required for the system verification test.
setdbg	Changes the debug level.
systemverification	Runs a combination of various hardware diagnostic tests.
turboramtest	Performs a turbo static RAM (SRAM) test of the ASIC chips.

Top-level container

```
module: brocade-diagnostics
   +--rw diag
   |  +---x turboramtest
   |  |  +--ro input
   |  |  |  +--ro slot       slotidtype
   |  |  |  +--ro passcnt?   uint32
   |  |  +--ro output
   |  |     +--ro result?   string
   |  +---x portloopbacktest
   |  |  +--ro input
   |  |  |  +--ro (interfaces)?
   |  |  |  |  +--:(slot)
   |  |  |  |  |  +--ro slot            slotidtype
   |  |  |  |  +--:(ethernet)
   |  |  |  |  |  +--ro ethernet?       interfaces:interface-type
   |  |  |  |  +--:(fibrechannel)
   |  |  |  |     +--ro fibrechannel?   interfaces:interface-type
   |  |  |  +--ro nframes?        uint32
   |  |  |  +--ro lbmode?         uint32
   |  |  |  +--ro spdmode?        enumeration
   |  |  +--ro output
   |  |     +--ro result?   string
   |  +---x portledtest
   |  |  +--ro input
   |  |  |  +--ro (interfaces)?
   |  |  |  |  +--:(slot)
   |  |  |  |  |  +--ro slot            slotidtype
   |  |  |  |  +--:(ethernet)
   |  |  |  |  |  +--ro ethernet?       interfaces:interface-type
   |  |  |  |  +--:(fibrechannel)
   |  |  |  |     +--ro fibrechannel?   interfaces:interface-type
   |  |  |  +--ro action?         enumeration
   |  |  |  +--ro npass?          uint32
   |  |  +--ro output
   |  |     +--ro result?   string
   |  +---x systemverification
   |  |  +--ro input
   |  |  |  +--ro (sysv)?
   |  |  |     +--:(short)
```

```
   |  |  |     |  +--ro short?   empty
   |  |  |     +--:(stop)
   |  |  |        +--ro stop?    empty
   |  |  +--ro output
   |  |     +--ro result?   string
   |  +---x prbstest
   |  |  +--ro input
   |  |  |  +--ro slot       slotidtype
   |  |  |  +--ro pattern?   enumeration
   |  |  +--ro output
   |  |     +--ro result?   string
   |  +---x clearerror
   |  |  +--ro output
   |  |     +--ro result?   string
   |  +---x burninerrclear
   |  |  +--ro output
   |  |     +--ro result?   string
   |  +---x setcycle
   |  |  +--ro input
   |  |  |  +--ro tbr_passes?    uint32
   |  |  |  +--ro num_of_runs?   uint32
   |  |  |  +--ro min_lb_mode?   uint32
   |  |  |  +--ro plb_nframes?   uint32
   |  |  +--ro output
   |  |     +--ro result?   string
   |  +---x setdbg
   |  |  +--ro input
   |  |     +--ro level?   enumeration
   |  +--rw post
   |     +--rw enable?   empty
   +--rw fos
      +---x exec
         +--ro input
         |  +--ro (op)?
         |     +--:(file)
         |     |  +--ro file?   string
         |     +--:(cmd)
         |        +--ro cmd?    string
         +--ro output
module: brocade-distributedlog
module: brocade-dle
module: brocade-dot1ag
module: brocade-dot1x
   +--rw dot1x
      +--rw enable?   empty
      +--rw test
         +--rw timeout?   dot1x-readinesstest-timeout-interval
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-dle

Provides a data model for managing a delay link event (DLE).

External augmentation

```
module: brocade-interface
+--rw dle:delay-link-event
   |  |  |  +--rw dle:delay-link
   |  |  |     +--rw dle:delay-link-event-entry?   uint32 /*drop-node-name*/
   |  |  |     +--rw dle:delay-link-event-type?    enumeration /*drop-node-name*/
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-dot1x

Provides a data model for managing the 802.1X authorization feature.

IEEE 802.1X is an IEEE standard for port-based Network Access Control (PNAC). It is a networking protocol that provides an authentication mechanism to devices attempting to attach to a LAN or WLAN. IEEE 802.1X defines the encapsulation of the Extensible Authentication Protocol (EAP) over IEEE 802, which is known as EAP over LAN or EAPoL.

802.1X involves three parties:

- Supplicant—A device that connects to a network
- Authenticator—A network device such as an Ethernet switch
- Authentication server—A host running software that supports RADIUS and EAP

This module defines the parameters used for the PNAC.

Top-level container

```
module: brocade-dot1x
   +--rw dot1x
      +--rw enable?   empty
      +--rw test
         +--rw timeout?   dot1x-readinesstest-timeout-interval
```

External augmentations

```
module: brocade-interface
   +--rw dot1x:dot1x
   |  |  |  +--rw dot1x:authentication?           empty
   |  |  |  +--rw dot1x:port-control?             enumeration
   |  |  |  +--rw dot1x:protocol-version?         uint32
   |  |  |  +--rw dot1x:quiet-period?             uint32
   |  |  |  +--rw dot1x:reauthMax?                uint32
   |  |  |  +--rw dot1x:max-req?                  uint32
   |  |  |  +--rw dot1x:reauthentication?         empty
   |  |  |  +--rw dot1x:filter-strict-security?   empty
   |  |  |  +--rw dot1x:timeout
   |  |  |     +--rw dot1x:re-authperiod?    dot1x-reauth-timeout-interval
   |  |  |     +--rw dot1x:server-timeout?   dot1x-server-timeout-interval
   |  |  |     +--rw dot1x:supp-timeout?     dot1x-supp-timeout-interval
   |  |  |     +--rw dot1x:tx-period?        dot1x-tx-timeout-interval
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-dot1ag

Manages the connectivity fault management (CFM) Protocol.

RPCs

```
rpcs:
  +---x get-show-cfm
     +--ro output
        +--ro show-cfm
           +--ro show-cfm-domain-list
              +--ro show-cfm-md-name?    string
              +--ro show-cfm-md-idx?     uint8
              +--ro show-cfm-md-level?   uint8
              +--ro show-cfm-ma-list
                 +--ro show-cfm-ma-name?        string
                 +--ro show-cfm-ma-idx?         uint32
                 +--ro show-cfm-ccm-interval?   uint32
                 +--ro show-cfm-vid?            uint32
                 +--ro show-cfm-priority?       uint32
                 +--ro show-cfm-eth-ais-tx?     uint32
                 +--ro show-cfm-eth-ais-rx?     uint32
                 +--ro show-cfm-eth-ais-int?    uint32
                 +--ro show-cfm-ma-list
                    +--ro show-cfm-mep-id?          uint16
                    +--ro show-cfm-vlan-id?         uint16
                    +--ro show-cfm-mep-direction?   uint16
                    +--ro show-cfm-mac?             string
                    +--ro show-cfm-port?            string
                    +--ro show-cfm-statusTlv?       uint32
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-eld

Provides a data model for configuring global parameters for Edge-Loop-Detection.

External augmentations

```
module: brocade-interface
   +--rw protocol
   |  +--rw eld:edge-loop-detection
   |  |  +--rw eld:pdu-rx-limit?              uint32
   |  |  +--rw eld:hello-interval?            uint32
   |  |  +--rw eld:shutdown-time?             uint32
   |  |  +--rw eld:mac-refresh-time-config /*alt-name:"mac-refresh"*/
   |  |     +--rw eld:mac-refresh-time?   uint32 /*drop-node-name*/
   |  |     +--rw eld:mac-refresh-type?   enumeration /*drop-node-name*/
```

brocade-entity

Provides a data model for obtaining the enclosure-related information on embedded platforms.

RPCs

```
+---x get-contained-in-ID
   +--ro output
      +--ro contained-in-ID?   common-def:name-string64
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-event-handler

Provides event handler-related information.

Top-level container

```
module: brocade-event-handler
   +--rw event-handler
      +--rw event-handler-list [name]
      |  +--rw name       common-def:name-string32
      |  +--rw trigger [trigger-id]
      |  |  +--rw trigger-id    uint32
      |  |  +--rw (trigger-choice)?
      |  |     +--:(raslog)
      |  |        +--rw raslog?       common-def:name-string32
      |  +--rw action
      |     +--rw (action-choice)?
      |        +--:(python-script)
      |           +--rw python-script?   common-def:name-string32
      +--rw activate
         +--rw name [name]
            +--rw name                          common-def:name-string32
            +--rw delay?                        uint32
            +--rw iterations?                   uint32
            +--rw interval?                     uint32
            +--rw run-mode?                     enumeration
            +--rw trigger-mode?                 enumeration
            +--rw trigger-function-container
               +--rw trigger-function?   enumeration
               +--rw time-window         uint32
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-fc-auth

Provides a data model for configuring Fibre Channel authentication through Fibre Channel Security Protocol (FCSP) and Switch Connection Control (SCC) security policy parameters.

Top-level container

```
module: brocade-fc-auth
   +--rw secpolicy
      +--rw action
         +--ro activate
            +--ro input
            +--ro output
```

External augmentations

```
module: brocade-common-def
   +--rw show
   |  +--rw brcd-fc-auth:fcsp
   |     +--rw brcd-fc-auth:authsecret

module: brocade-common-def
   +--rw no
   |  +--rw brcd-fc-auth:fcsp
   |     +--rw brcd-fc-auth:auth-secret
```

History

Release version	History
16.1.	This YANG module was introduced.

brocade-firmware

Provides a data model for managing the download of firmware and for reporting firmware download status.

This module supports the custom actions listed in Table 3.

TABLE 3 Custom actions for firmware version management

Action	Purpose
<ftp>	Download firmware with FTP.
<scp>	Download firmware with SCP.
<usb>	Download firmware from a USB device.
<interactive>	Download firmware interactively.
<commit>	Commits a firmware upgrade after evaluation.
<restore>	Restores a firmware version.
<sync>	Synchronizes the firmware with its peer.
<fastboot>	Reboots the control processor (CP), bypassing the power-on self-test (POST).

Top-level container

```
module: brocade-firmware
   +--rw firmware
   |  +--rw download
   |  |  +---x ftp
   |  |  |  +--ro input
   |  |  |  |  +--ro user          string
   |  |  |  |  +--ro password?     string
   |  |  |  |  +--ro host          string
   |  |  |  |  +--ro directory     string
   |  |  |  |  +--ro file?         string
   |  |  |  |  +--ro (options)?
   |  |  |  |  |  +--:(manual)
   |  |  |  |  |  |  +--ro manual?       empty
   |  |  |  |  |  |  +--ro noreboot?     empty
   |  |  |  |  |  |  +--ro nocommit?     empty
   |  |  |  |  |  +--:(noactivate)
   |  |  |  |  |  |  +--ro noactivate?   empty
   |  |  |  |  |  +--:(coldboot)
   |  |  |  |  |     +--ro coldboot?     empty
   |  |  |  |  +--ro use-vrf?      common-def:vrf-name
   |  |  |  +--ro output
   |  |  |     +--ro fwdl-tid?      int32
   |  |  |     +--ro fwdl-status?   int32
   |  |  |     +--ro fwdl-msg?      string
   |  |  +---x scp
   |  |  |  +--ro input
   |  |  |  |  +--ro user          string
   |  |  |  |  +--ro password?     string
   |  |  |  |  +--ro host          string
   |  |  |  |  +--ro directory     string
   |  |  |  |  +--ro file?         string
   |  |  |  |  +--ro (options)?
   |  |  |  |  |  +--:(manual)
   |  |  |  |  |  |  +--ro manual?       empty
   |  |  |  |  |  |  +--ro noreboot?     empty
   |  |  |  |  |  |  +--ro nocommit?     empty
   |  |  |  |  |  +--:(noactivate)
   |  |  |  |  |  |  +--ro noactivate?   empty
   |  |  |  |  |  +--:(coldboot)
   |  |  |  |  |     +--ro coldboot?     empty
   |  |  |  |  +--ro use-vrf?      common-def:vrf-name
   |  |  |  +--ro output
```

```
|  |  |     +--ro fwdl-tid?      int32
|  |  |     +--ro fwdl-status?   int32
|  |  |     +--ro fwdl-msg?      string
|  |  +---x tftp
|  |  |  +--ro input
|  |  |  |  +--ro host          string
|  |  |  |  +--ro directory     string
|  |  |  |  +--ro file?         string
|  |  |  |  +--ro (options)?
|  |  |  |     +--:(manual)
|  |  |  |     |  +--ro manual?       empty
|  |  |  |     |  +--ro noreboot?     empty
|  |  |  |     |  +--ro nocommit?     empty
|  |  |  |     +--:(noactivate)
|  |  |  |     |  +--ro noactivate?   empty
|  |  |  |     +--:(coldboot)
|  |  |  |        +--ro coldboot?     empty
|  |  |  +--ro output
|  |  |     +--ro fwdl-tid?      int32
|  |  |     +--ro fwdl-status?   int32
|  |  |     +--ro fwdl-msg?      string
|  |  +---x sftp
|  |  |  +--ro input
|  |  |  |  +--ro user              string
|  |  |  |  +--ro password?         string
|  |  |  |  +--ro host              string
|  |  |  |  +--ro directory         string
|  |  |  |  +--ro file?             string
|  |  |  |  +--ro (options)?
|  |  |  |  |  +--:(manual)
|  |  |  |  |  |  +--ro manual?           empty
|  |  |  |  |  |  +--ro noreboot?         empty
|  |  |  |  |  |  +--ro nocommit?         empty
|  |  |  |  |  +--:(noactivate)
|  |  |  |  |  |  +--ro noactivate?       empty
|  |  |  |  |  +--:(coldboot)
|  |  |  |  |     +--ro coldboot?         empty
|  |  |  |  +--ro port?             int32
|  |  |  |  +--ro host-key-check?   empty
|  |  |  |  +--ro use-vrf?          common-def:vrf-name
|  |  |  +--ro output
|  |  |     +--ro fwdl-tid?      int32
|  |  |     +--ro fwdl-status?   int32
|  |  |     +--ro fwdl-msg?      string
|  |  +---x usb
|  |  |  +--ro input
|  |  |  |  +--ro directory     string
|  |  |  |  +--ro (options)?
|  |  |  |     +--:(manual)
|  |  |  |     |  +--ro manual?       empty
|  |  |  |     |  +--ro noreboot?     empty
|  |  |  |     |  +--ro nocommit?     empty
|  |  |  |     +--:(noactivate)
|  |  |  |     |  +--ro noactivate?   empty
|  |  |  |     +--:(coldboot)
|  |  |  |        +--ro coldboot?     empty
|  |  |  +--ro output
|  |  |     +--ro fwdl-tid?      int32
|  |  |     +--ro fwdl-status?   int32
|  |  |     +--ro fwdl-msg?      string
|  |  +---x interactive
|  |  |  +--ro input
|  |  |  +--ro output
|  |  |     +--ro result?   string
|  |  +--rw default-config
|  |     +---x ftp
|  |     |  +--ro input
|  |     |  |  +--ro user          string
|  |     |  |  +--ro password?     string
|  |     |  |  +--ro host          string
|  |     |  |  +--ro directory     string
|  |     |  |  +--ro file?         string
```

```
|  |     |  |  +--ro manual?      empty
|  |     |  |  +--ro noreboot?    empty
|  |     |  |  +--ro use-vrf?     common-def:vrf-name
|  |     |  +--ro output
|  |     |     +--ro fwdl-tid?      int32
|  |     |     +--ro fwdl-status?   int32
|  |     |     +--ro fwdl-msg?      string
|  |     +---x scp
|  |     |  +--ro input
|  |     |  |  +--ro user         string
|  |     |  |  +--ro password?    string
|  |     |  |  +--ro host         string
|  |     |  |  +--ro directory    string
|  |     |  |  +--ro file?        string
|  |     |  |  +--ro manual?      empty
|  |     |  |  +--ro noreboot?    empty
|  |     |  |  +--ro use-vrf?     common-def:vrf-name
|  |     |  +--ro output
|  |     |     +--ro fwdl-tid?      int32
|  |     |     +--ro fwdl-status?   int32
|  |     |     +--ro fwdl-msg?      string
|  |     +---x sftp
|  |     |  +--ro input
|  |     |  |  +--ro user         string
|  |     |  |  +--ro password?    string
|  |     |  |  +--ro host         string
|  |     |  |  +--ro directory    string
|  |     |  |  +--ro file?        string
|  |     |  |  +--ro manual?      empty
|  |     |  |  +--ro noreboot?    empty
|  |     |  |  +--ro use-vrf?     common-def:vrf-name
|  |     |  +--ro output
|  |     |     +--ro fwdl-tid?      int32
|  |     |     +--ro fwdl-status?   int32
|  |     |     +--ro fwdl-msg?      string
|  |     +---x tftp
|  |     |  +--ro input
|  |     |  |  +--ro host         string
|  |     |  |  +--ro directory    string
|  |     |  |  +--ro file?        string
|  |     |  |  +--ro manual?      empty
|  |     |  |  +--ro noreboot?    empty
|  |     |  +--ro output
|  |     |     +--ro fwdl-tid?      int32
|  |     |     +--ro fwdl-status?   int32
|  |     |     +--ro fwdl-msg?      string
|  |     +---x usb
|  |        +--ro input
|  |        |  +--ro directory    string
|  |        |  +--ro manual?      empty
|  |        |  +--ro noreboot?    empty
|  |        +--ro output
|  |           +--ro fwdl-tid?      int32
|  |           +--ro fwdl-status?   int32
|  |           +--ro fwdl-msg?      string
|  +---x commit
|  |  +--ro input
|  |  +--ro output
|  |     +--ro result?   string
|  +---x restore
|  |  +--ro input
|  |  +--ro output
|  |     +--ro result?   string
|  +---x sync
|  |  +--ro input
|  |  +--ro output
|  |     +--ro result?   string
|  +---x activate
|  |  +--ro input
|  |  +--ro output
|  |     +--ro overall-status?      int32
|  |     +--ro overall-error-msg?   string
```

```
|  |     +--ro status?              int32
|  +---x recover
|  |  +--ro input
|  |  +--ro output
|  |     +--ro result?   string
|  +--rw auto-sync
|     +---x enable
|     |  +--ro input
|     |  +--ro output
|     |     +--ro result?   string
|     +---x disable
|        +--ro input
|        +--ro output
|           +--ro result?   string
+--rw write
|  +---x erase
|     +--ro input
|     +--ro output
|        +--ro fwdl-tid?      int32
|        +--ro fwdl-status?   int32
|        +--ro fwdl-msg?      string
+--rw reboot
|  +---x fastboot
|     +--ro input
+--rw dhcp
   +--rw auto-deployment
      +---x enable
         +--ro input
         +--ro output
            +--ro dad-cmd-msg?   string
```

External augmentations

```
module: brocade-common-def
   +--rw show
   |  +--rw firmware:dhcp-auto-deployment /*drop-node-name*/
```

RPCs

```
+---x fwdl-status
  |  +--ro input
  |  |  +--ro fwdl-tid?   int32
  |  +--ro output
  |     +--ro number-of-entries?   uint32
  |     +--ro fwdl-state?          enumeration
  |     +--ro fwdl-entries
  |        +--ro index?                uint32
  |        +--ro message-id?           int32
  |        +--ro date-and-time-info?   string
  |        +--ro message?              string
  |        +--ro blade-slot?           int32
  |        +--ro blade-swbd?           int32
  |        +--ro blade-name?           string
  |        +--ro blade-state?          enumeration
  |        +--ro blade-app?            string
  +---x activate-status
  |  +--ro output
  |     +--ro overall-status?      int32
  |     +--ro overall-error-msg?   string
  |     +--ro status?              int32
  +---x firmware-download
  |  +--ro input
  |  |  +--ro (protocol-type)?
  |  |  |  +--:(scp-protocol)
  |  |  |  |  +--ro scp
```

```
|  |  |  |     +--ro user          string
|  |  |  |     +--ro password?     string
|  |  |  |     +--ro host          string
|  |  |  |     +--ro directory     string
|  |  |  |     +--ro file?         string
|  |  |  |  +--:(ftp-protocol)
|  |  |  |  |  +--ro ftp
|  |  |  |     +--ro user          string
|  |  |  |     +--ro password?     string
|  |  |  |     +--ro host          string
|  |  |  |     +--ro directory     string
|  |  |  |     +--ro file?         string
|  |  |  |  +--:(sftp-protocol)
|  |  |  |  |  +--ro sftp
|  |  |  |     +--ro user               string
|  |  |  |     +--ro password?          string
|  |  |  |     +--ro host               string
|  |  |  |     +--ro directory          string
|  |  |  |     +--ro file?              string
|  |  |  |     +--ro port?              int32
|  |  |  |     +--ro host-key-check?    empty
|  |  |  |  +--:(usb-protocol)
|  |  |  |     +--ro usb
|  |  |  |        +--ro directory     string
|  |  |  +--ro coldboot?    empty
|  |  +--ro output
|  |     +--ro fwdl-cmd-status?    int32
|  |     +--ro fwdl-cmd-msg?       string
|  |     +--ro cluster-output
|  |        +--ro fwdl-status?     int32
|  |        +--ro fwdl-msg?        string
|  +---x dad-status
|     +--ro output
|        +--ro dad-last-state?        enumeration
|        +--ro dad-status-entries
|           +--ro index?                uint32
|           +--ro date-and-time-info?   string
|           +--ro message?              string
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-firmware-ext

Provides a data model with extensions to the brocade-firmware model for reporting firmware information.

External augmentations

RPCs

Return firmware version information:

```
+---x show-firmware-version
     +--ro output
        +--ro show-firmware-version
           +--ro os-name?                      string
           +--ro os-version?                   string
           +--ro copy-right-info?              string
           +--ro build-time?                   string
           +--ro firmware-full-version?        string
           +--ro control-processor-vendor?     string
           +--ro control-processor-chipset?    string
           +--ro control-processor-memory?     string
           +--ro node-info
              +--ro slot-no?                  uint32
              +--ro node-instance-no?         uint32
              +--ro node-type?                node-type-enum
              +--ro is-active-cp?             boolean
              +--ro firmware-version-info
                 +--ro application-name?    string
                 +--ro primary-version?     string
                 +--ro secondary-version?   string
```

brocade-gre-vxlan

Provides a data module that manages Generic Routing Encapsulation (GRE) Virtual Extensible LAN (VXLAN) commands.

External augmentations

```
module: brocade:interface
+--rw gre-vxlan:tunnel [identifier]
   |     +--rw gre-vxlan:identifier                uint32
   |     +--rw gre-vxlan:mode
   |     |  +--rw gre-vxlan:gre
   |     |  |  +--rw gre-vxlan:ip?   empty
   |     |  +--rw gre-vxlan:vxlan?   empty
   |     +--rw gre-vxlan:gre-source
   |     |  +--rw (source-cmd)? /*alt-name:source/
   |     |     +--:(ca-source-address) /*drop-node-name*/
   |     |     |  +--rw gre-vxlan:source-address?       inet:ipv4-address
   |     |     +--:(ca-interface-loopback) /*alt-name:loopback/
   |     |     |  +--rw gre-vxlan:interface-loopback?   lo:intf-loopback-port-type
   |     |     +--:(ca-interface-ethernet) /*alt-name:ethernet/
   |     |     |  +--rw gre-vxlan:interface-ethernet?   interface:interface-type
   |     |     +--:(ca-interface-ve) /*alt-name:ve/
   |     |        +--rw gre-vxlan:interface-ve?         uint32
   |     +--rw gre-vxlan:tunnel-destination?        inet:ipv4-address /*alt-name:destination/
   |     +--rw gre-vxlan:tunnel-shutdown?           empty /*alt-name:shutdown
   |     +--rw gre-vxlan:tunnel-router-interface /*alt-name:router-interface/
   |     |  +--rw gre-vxlan:router-ve?   uint32 /*alt-name:ve/
   |     +--rw gre-vxlan:tunnel-map /*alt-name:map/
   |     |  +--rw (map-vlan-bd)?
   |     |  |  +--:(ca-map-vlan)
   |     |  |  |  +--rw gre-vxlan:map-vlan?   uint32 /*alt-name:vlan/
   |     |  |  +--:(ca-map-bd)
   |     |  |     +--rw gre-vxlan:map-bd?     uint32 /*alt-name:bd/
   |     |  +--rw gre-vxlan:map-vni?    uint32
   |     +--rw gre-vxlan:gre-ttl?                   uint32 /*alt-name:ttl/
   |     +--rw gre-vxlan:gre-dscp?                  uint32 /*alt-name:dscp/
   |     +--rw gre-vxlan:tunnel-name?               string /*alt-name:name/
   |     +--rw gre-vxlan:dscp-ttl-mode?             enumeration
   |     +--rw gre-vxlan:statistics?                empty
   |     +--rw gre-vxlan:keepalive
   |        +--rw gre-vxlan:time-interval?   uint32
   |        +--rw gre-vxlan:retry-count?     uint32
```

History

Release version	History
17s.1.00	This YANG odule was introduced.

brocade-ha

Provides a model data for enabling and disabling high availability (HA), displaying high availability status information, rebooting the chassis, performing failover, and displaying the high availability state.

Top-level container

```
module: brocade-ha
   +--rw ha
   |  +--rw process-restart
   |     +--rw disable-res
   |        +--rw mpls?   empty
   +--rw ha-action
   |  +--rw ha
   |     +---x enable
   |     |  +--ro input
   |     |     +--ro force?   empty
   |     +---x disable
   |     |  +--ro input
   |     |     +--ro force?   empty
   |     +---x dump
   |     |  +--ro input
   |     +---x chassisreboot
   |     |  +--ro input
   |     +---x failover
   |     |  +--ro input
   |     |     +--ro force?   empty
   |     +--rw sync
   |        +---x start
   |        |  +--ro input
   |        |  +--ro output
   |        |     +--ro result?   string
   |        +---x stop
   |           +--ro input
   |           +--ro output
   |              +--ro result?   string
   +--rw system
      +---x reload
         +--ro input
         |  +--ro system?    empty
         |  +--ro standby?   empty
         +--ro output
            +--ro status-string?   string
```

External augmentations

```
module: brocade-common-def
   +--rw show
   |  +--rw ha:ha /*drop-node-name*/

module: brocade-common-def
   +--rw show
   |  +--rw ha:redundancy /*drop-node-name*/
```

RPCs

```
+---x reload
      +--ro input
         +--ro system?    empty
         +--ro standby?   empty
```

History

Release version	History
16.1.00	This YANG module was introduced .

brocade-hardware

Provides a data model for managing connectors.

Top-level container

```
module: brocade-hardware
   +--rw hardware
      +--rw connector [name]
      |  +--rw name         connector-type
      |  +--rw breakout?
      |     +--rw cage-mode?   connector-mode-type
      +--rw port-group [name]
      |  +--rw name               interface:port-group-type
      |  +--rw portgroup-speed?   portgroup-speed-type
      +--rw profile
         +--rw tcam
         |  +--rw predefined
         |     +--rw tcam_profiletype?   tcam-profile-subtype
         +--rw lag
         |  +--rw predefined
         |     +--rw lag_profiletype?   lag-profile-subtype
         +--rw counters
            +--rw predefined
               +--rw counters_profiletype?   counters-profile-subtype
```

External augmentations

```
module: brocade-common-def
   +--rw show
   |  +--rw hardware:hardware
   |  +--rw hardware:hardware-profile /*drop-node-name*/
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-http-config

Provides a data model for configuring the HTTP server.

Top-level container

```
module: brocade-http-config
   +--rw http-sa
      +--rw http
         +--rw server
            +--rw shutdown?        empty
            +--rw http-vrf-cont
               +--rw use-vrf [use-vrf-name]
                  +--rw use-vrf-name         string
                  +--rw http-vrf-shutdown?   empty
```

External augmentations

```
module: brocade-common-def
   +--rw show
   |  +--rw http-config:http
   |  |  +--rw http-config:server
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-http-redirect

Provides a data model to redirect the HTTP server.

RPCs

```
+---x set-http-application-url
     +--ro input
     |  +--ro config-http-app-url
     |     +--ro url         string
     |     +--ro op-type     uint32
     +--ro output
        +--ro status-code       int32
        +--ro status-string?    string
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-icmp

Provides a data model for configuring Internet Control Message Protocol (ICMP) parameters such as echo reply, rate limiting and unreachable destination, which are used in controlling ICMP frames.

External augmentations

```
module: brocade-interface
      +--rw icmp:icmp
      |  |  |  +--rw icmp:rate-limiting?   uint32
      |  |  |  +--rw icmp:redirect?        empty

module: brocade-interface
      +--rw icmp:icmpv6
      |  |  |  +--rw icmp:rate-limiting?   uint32
      |  |  |  +--rw icmp:redirect?        empty


module: brocade-interface
+--rw ip
   |  |  |  +--rw icmp
   |  |  |  |  +--rw unreachable?     empty
   |  |  |  |  +--rw echo_reply?      empty
   |  |  |  |  +--rw rate_limiting?   uint32


module: brocade-interface
+--rw ipv6
   |  |  |  +--rw icmpv6
   |  |  |  |  +--rw unreachable?     empty
   |  |  |  |  +--rw echo_reply?      empty
   |  |  |  |  +--rw rate_limiting?   uint32
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-igmp

Provides a data model for configuring the Internet Group Management Protocol (IGMP).

External augmentations

```
+--rw igmp:igmp-phy-intf-cfg
   |  |  |  |  +--rw igmp:igmp
   |  |  |  |     +--rw igmp:igmpl3-last-member-query-interval?   igmp-snooping:lmqt-type
   |  |  |  |     +--rw igmp:igmpl3-query-interval?               igmp-snooping:qi-type
   |  |  |  |     +--rw igmp:igmpl3-query-max-response-time?      igmp-snooping:qmrt-type
   |  |  |  |     +--rw igmp:igmpl3-immediate-leave?              empty
   |  |  |  |     +--rw igmp:igmpl3-version?                      uint32
   |  |  |  |     +--rw igmp:igmpl3-static-group [igmpl3-sg-addr]
   |  |  |  |        +--rw igmp:igmpl3-sg-addr    inet:ipv4-address
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-igmp-snooping

Provides a data model for configuring the Internet Group Management Protocol (IGMP) snooping.

Top-level container

```
module: brocade-igmp-snooping
   +--rw igmp-snooping
      +--rw ip
         +--rw igmp
            +--rw router-alert-check-disable?   empty
            +--rw ssm-map
               +--rw igmps-ssmmap?        empty
               +--rw igmps-prefix-list [igmps-prefix-list-name igmps-prefix-src-addr]
                  +--rw igmps-prefix-list-name    string
                  +--rw igmps-prefix-src-addr     inet:ipv4-address
```

External augmentations

```
module: brocade-interface
+--rw igmp:igmp-phy-intf-cfg
   |  |  |  |  +--rw igmp:igmp
   |  |  |  |     +--rw igmp:igmpl3-last-member-query-interval?   igmp-snooping:lmqt-type
   |  |  |  |     +--rw igmp:igmpl3-query-interval?               igmp-snooping:qi-type
   |  |  |  |     +--rw igmp:igmpl3-query-max-response-time?      igmp-snooping:qmrt-type
   |  |  |  |     +--rw igmp:igmpl3-immediate-leave?              empty
   |  |  |  |     +--rw igmp:igmpl3-version?                      uint32
   |  |  |  |     +--rw igmp:igmpl3-static-group [igmpl3-sg-addr]
   |  |  |  |        +--rw igmp:igmpl3-sg-addr    inet:ipv4-address
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-interface

Provides the data model for managing Ethernet network interfaces and their sublayers.

Table 4 lists the Ethernet interfaces and other entities modeled by high-level nodes in this management module.

TABLE 4 Entities managed through brocade-interface module

High-level node name	Description
interface/ethernet	Physical Ethernet interfaces
interface/management	Models the management port or management interfaces
interface/port-channel	Models port-channel or LAG interfaces
interface-vlan	Models Layer 2 VLAN interfaces

This module provides the mechanism to support the following actions:

- Discover and characterize the interface sublayers.
- Configure various attributes of these interfaces.
- Structure the interfaces so that various Layer 2 or Layer 3 access and security policies, network discovery policies, QoS policies, and link aggregation policies can be applied using other modules supported by the managed entity.

Top-level container

```
module: brocade-interface
   +--rw protocol

  module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw name                                interface-type
   |  |  +--rw speed?                              enumeration
   |  |  +--ro ifindex?                            uint64
   |  |  +--rw description?                        string
   |  |  +--rw shutdown?                           empty
   |  |  +--rw channel-group
   |  |  |  +--rw port-int?   portchannel-type
   |  |  |  +--rw mode?       po-mode
   |  |  |  +--rw type?       po-type
   |  |  +--rw mtu?                                mtu-type
   |  |  +--rw switchport-basic
   |  |  |  +--rw basic?   empty
   |  |  +--rw switchport
   |  |  |  +--rw mode
   |  |  |  |  +--rw vlan-mode?   l2-mode-type
   |  |  |  +--rw port-security?
   |  |  |  |  +--rw port-sec-max?                uint32
   |  |  |  |  +--rw port-sec-violation?          port-sec-violation
   |  |  |  |  +--rw port-security-mac-address [mac-address port-sec-vlan]
   |  |  |  |  |  +--rw mac-address      mac-address-type
   |  |  |  |  |  +--rw port-sec-vlan    vlan-type
   |  |  |  |  +--rw sticky
   |  |  |  |  |  +--rw sticky-flag?                empty
   |  |  |  |  |  +--rw port-security-mac-address [mac-address port-sec-vlan]
   |  |  |  |  |     +--rw mac-address      mac-address-type
   |  |  |  |  |     +--rw port-sec-vlan    vlan-type
   |  |  |  |  +--rw shutdown-time?                uint32
   |  |  |  +--rw access
   |  |  |  |  +--rw accessvlan?     vlan-type
   |  |  |  |  +--rw rspan-access
   |  |  |  |     +--rw rspan-access-vlan?   vlan-type
   |  |  |  +--rw trunk
```

```
|  |  |     +--rw allowed
|  |  |     |  +--rw vlan
|  |  |     |  |  +--rw all?      empty
|  |  |     |  |  +--rw none?     empty
|  |  |     |  |  +--rw add?      ui32-vlan-20k-range
|  |  |     |  |  +--rw except?   ui32-1k-vlan-range
|  |  |     |  |  +--rw remove?   ui32-1k-vlan-range
|  |  |     |  x--rw vlanoper
|  |  |     |  |  +--rw vlan
|  |  |     |  |     +--rw add?      ui32-vlan-range
|  |  |     |  |     +--rw remove?   ui32-vlan-range
|  |  |     |  +--rw rspan-vlan
|  |  |     |     +--rw add-rspan-trunk-vlan?      ui32-1k-vlan-range
|  |  |     |     +--rw remove-rspan-trunk-vlan?   ui32-1k-vlan-range
|  |  |     +--rw tag?
|  |  |     |  +--rw native-vlan?   empty
|  |  |     +--rw native-vlan-classification
|  |  |        +--rw native-vlan-id?   native-vlan-type
|  |  +--rw ip
|  |  |  +--rw ip-config:ip-config
|  |  |  |  +--rw ip-config:mtu?                ip-mtu
|  |  |  |  +--rw ip-config:proxy-arp?          empty
|  |  |  |  +--rw ip-config:arp-aging-timeout?   uint32
|  |  |  |  +--rw ip-config:address [address]
|  |  |  |     +--rw ip-config:address         union
|  |  |  |     +--rw ip-config:secondary?      empty
|  |  |  |     +--rw ip-config:ospf-passive?   empty
|  |  |  |     +--rw ip-config:ospf-ignore?    empty
|  |  |  +--rw dhcp:interface-eth-dhcp-conf
|  |  |  |  +--rw dhcp:dhcp
|  |  |  |     +--rw dhcp:relay
|  |  |  |        +--rw dhcp:servers [relay-ip-addr server-vrf-name]
|  |  |  |        |  +--rw dhcp:relay-ip-addr      dhcp-ipv4-address
|  |  |  |        |  +--rw dhcp:server-vrf-name    common-def:vrf-name
|  |  |  |        +--rw dhcp:gateway?   dhcp-ipv4-address
|  |  |  +--rw icmp:icmp
|  |  |  |  +--rw icmp:rate-limiting?   uint32
|  |  |  |  +--rw icmp:redirect?        empty
|  |  |  +--rw igmp:igmp-phy-intf-cfg
|  |  |  |  +--rw igmp:igmp
|  |  |  |     +--rw igmp:igmpl3-last-member-query-interval?   igmp-snooping:lmqt-type
|  |  |  |     +--rw igmp:igmpl3-query-interval?               igmp-snooping:qi-type
|  |  |  |     +--rw igmp:igmpl3-query-max-response-time?      igmp-snooping:qmrt-type
|  |  |  |     +--rw igmp:igmpl3-immediate-leave?              empty
|  |  |  |     +--rw igmp:igmpl3-version?                      uint32
|  |  |  |     +--rw igmp:igmpl3-static-group [igmpl3-sg-addr]
|  |  |  |        +--rw igmp:igmpl3-sg-addr    inet:ipv4-address
|  |  |  +--rw isis:intf-router-isis
|  |  |  |  +--rw isis:int-router-isis
|  |  |  |     +--rw isis:interface-ip-router-isis?   empty
|  |  |  +--rw ospf:interface-eth-ospf-conf
|  |  |  |  +--rw ospf:ospf1
|  |  |  |     +--rw ospf:area?                    ospf-area-id
|  |  |  |     +--rw ospf:auth-change-wait-time?   common-def:time-interval-sec
|  |  |  |     +--rw ospf:authentication-key
|  |  |  |     |  +--rw ospf:no-encrypt-auth-key-table
|  |  |  |     |     +--rw ospf:no-encrypt-auth-key?   ospf-auth-psswd-string
|  |  |  |     +--rw ospf:hello-interval?          common-def:time-interval-sec
|  |  |  |     +--rw ospf:dead-interval?           common-def:time-interval-sec
|  |  |  |     +--rw ospf:retransmit-interval?     common-def:time-interval-sec
|  |  |  |     +--rw ospf:transmit-delay?          common-def:time-interval-sec
|  |  |  |     +--rw ospf:md5-authentication
|  |  |  |     |  +--rw ospf:key-activation-wait-time?   common-def:time-interval-sec
|  |  |  |     |  +--rw ospf:key-table
|  |  |  |     |     +--rw ospf:key-id?                   uint32
|  |  |  |     |     +--rw ospf:md5-authentication-key?   ospf-auth-psswd-string
|  |  |  |     +--rw ospf:cost?                    uint32
|  |  |  |     +--rw ospf:network?                 enumeration
|  |  |  |     +--rw ospf:intf-ldp-sync?           enumeration
|  |  |  |     +--rw ospf:database-filter
|  |  |  |     |  +--rw ospf:all-out?               empty
|  |  |  |     |  +--rw ospf:all-external?          database-filter-options
```

```
|  |  |  |     |  +--rw ospf:all-summary-external?   database-filter-options
|  |  |  |     +--rw ospf:mtu-ignore?              empty
|  |  |  |     +--rw ospf:active?                  empty
|  |  |  |     +--rw ospf:passive?                 empty
|  |  |  |     +--rw ospf:priority?                uint32
|  |  |  +--rw pim:pim-intf-phy-cont
|  |  |     +--rw pim:pim-int-cmd
|  |  |        +--rw pim:pim-sparse?   empty
|  |  |        +--rw pim:pim
|  |  |           +--rw pim:dr-priority?     uint32
|  |  |           +--rw pim:ttl-threshold?   uint32
|  |  +--rw vrf
|  |  |  +--rw forwarding?   common-def:vrf-name
|  |  +--rw ipv6
|  |  |  +--rw ipv6-config:ipv6-config
|  |  |  |  +--rw ipv6-config:address
|  |  |  |  |  +--rw ipv6-config:use-link-local-only?   empty
|  |  |  |  |  +--rw ipv6-config:link-local-config
|  |  |  |  |  |  +--rw ipv6-config:link-local-address?   inet:ipv6-address
|  |  |  |  |  |  +--rw ipv6-config:link-local?           empty
|  |  |  |  |  +--rw ipv6-config:ipv6-address [address]
|  |  |  |  |     +--rw ipv6-config:address       union
|  |  |  |  |     +--rw ipv6-config:secondary?    empty
|  |  |  |  |     +--rw ipv6-config:eui-config
|  |  |  |  |     |  +--rw ipv6-config:eui64?           empty
|  |  |  |  |     |  +--rw ipv6-config:eui-secondary?   empty
|  |  |  |  |     +--rw ipv6-config:anycast?      empty
|  |  |  |  +--rw ipv6-config:mtu?       ip-mtu
|  |  |  +--rw dhcpv6:interface-phy-dhcp-conf
|  |  |  |  +--rw dhcpv6:dhcp
|  |  |  |     +--rw dhcpv6:relay
|  |  |  |        +--rw dhcpv6:servers [relay-ip-addr]
|  |  |  |           +--rw dhcpv6:relay-ip-addr      dhcp-ipv6-address
|  |  |  |           +--rw dhcpv6:server-vrf-name?   common-def:vrf-name
|  |  |  |           +--rw dhcpv6:interface
|  |  |  |              +--rw dhcpv6:interface-type?   dhcpv6-iftype
|  |  |  |              +--rw dhcpv6:interface-name?   dhcpv6-ifname
|  |  |  +--rw icmp:icmpv6
|  |  |  |  +--rw icmp:rate-limiting?   uint32
|  |  |  |  +--rw icmp:redirect?        empty
|  |  |  +--rw ipv6-access-list:access-group [ipv6-access-list ip-direction]
|  |  |  |  +--rw ipv6-access-list:ipv6-access-list    ipv6-l3-acl-policy-name
|  |  |  |  +--rw ipv6-access-list:ip-direction        enumeration
|  |  |  |  +--rw ipv6-access-list:traffic-type?       enumeration
|  |  |  +--rw ip-policy:policy
|  |  |  |  +--rw ip-policy:route-map
|  |  |  |     +--rw ip-policy:ipv6-route-map-name?   common-def:name-string63
|  |  |  +--rw ipv6-nd-ra:ipv6-nd-ra
|  |  |  |  +--rw ipv6-nd-ra:ipv6-intf-cmds
|  |  |  |     +--rw ipv6-nd-ra:vrrp-suppress-interface-ra?   empty
|  |  |  |     +--rw ipv6-nd-ra:nd
|  |  |  |     |  +--rw ipv6-nd-ra:managed-config-flag?   empty
|  |  |  |     |  +--rw ipv6-nd-ra:other-config-flag?     empty
|  |  |  |     |  +--rw ipv6-nd-ra:broadcast-mac-trap?    empty
|  |  |  |     |  +--rw ipv6-nd-ra:ra-lifetime?           common-def:time-interval-sec
|  |  |  |     |  +--rw ipv6-nd-ra:reachable-time?        common-def:time-interval-msec
|  |  |  |     |  +--rw ipv6-nd-ra:mtu?                   uint32
|  |  |  |     |  +--rw ipv6-nd-ra:retrans-timer?         common-def:time-interval-msec
|  |  |  |     |  +--rw ipv6-nd-ra:hoplimit?              uint32
|  |  |  |     |  +--rw ipv6-nd-ra:ns-interval?           common-def:time-interval-sec
|  |  |  |     |  +--rw ipv6-nd-ra:suppress-ra
|  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-flag?   empty
|  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-mtu?    empty
|  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-all?    empty
|  |  |  |     |  +--rw ipv6-nd-ra:ra-interval
|  |  |  |     |  |  +--rw ipv6-nd-ra:max-interval?   common-def:time-interval-sec
|  |  |  |     |  |  +--rw ipv6-nd-ra:min?            common-def:time-interval-sec
|  |  |  |     |  +--rw ipv6-nd-ra:send-ra?               empty
|  |  |  |     |  +--rw ipv6-nd-ra:router-preference
|  |  |  |     |  |  +--rw ipv6-nd-ra:router-pref-high?     empty
|  |  |  |     |  |  +--rw ipv6-nd-ra:router-pref-low?      empty
|  |  |  |     |  |  +--rw ipv6-nd-ra:router-pref-medium?   empty
```

```
|  |  |  |     |  +--rw ipv6-nd-ra:ra-dns-server [dns-server-prefix]
|  |  |  |     |  |  +--rw ipv6-nd-ra:dns-server-prefix                inet:ipv6-address
|  |  |  |     |  |  +--rw ipv6-nd-ra:dns-server-lifetime-multiplier?   uint32
|  |  |  |     |  +--rw ipv6-nd-ra:ra-domain-name [domain-name-string]
|  |  |  |     |  |  +--rw ipv6-nd-ra:domain-name-string                string
|  |  |  |     |  |  +--rw ipv6-nd-ra:domain-name-lifetime-multiplier?   uint32
|  |  |  |     |  +--rw ipv6-nd-ra:address
|  |  |  |     |  |  +--rw ipv6-nd-ra:suppressing-address [suppress-ipv6-address]
|  |  |  |     |  |  |  +--rw ipv6-nd-ra:suppress-ipv6-address    inet:ipv6-address
|  |  |  |     |  |  |  +--rw ipv6-nd-ra:suppress-per-address?    empty
|  |  |  |     |  |  +--rw ipv6-nd-ra:address-suppress-all?   empty
|  |  |  |     |  +--rw ipv6-nd-ra:dad
|  |  |  |     |  |  +--rw ipv6-nd-ra:attempts?   uint32
|  |  |  |     |  |  +--rw ipv6-nd-ra:time?       common-def:time-interval-sec
|  |  |  |     |  +--rw ipv6-nd-ra:cache
|  |  |  |     |  |  +--rw ipv6-nd-ra:expire?   common-def:time-interval-sec
|  |  |  |     |  +--rw ipv6-nd-ra:prefix [prefix-ipv6-address]
|  |  |  |     |     +--rw ipv6-nd-ra:prefix-ipv6-address    inet:ipv6-prefix
|  |  |  |     |     +--rw ipv6-nd-ra:lifetime
|  |  |  |     |        +--rw (ch-valid-type)?
|  |  |  |     |        |  +--:(ca-no-advertise)
|  |  |  |     |        |  |  +--rw ipv6-nd-ra:no-advertise?     empty
|  |  |  |     |        |  +--:(ca-valid-lifetime)
|  |  |  |     |        |  |  +--rw ipv6-nd-ra:valid-lifetime?   common-def:time-interval-sec
|  |  |  |     |        |  +--:(ca-valid-infinite)
|  |  |  |     |        |     +--rw ipv6-nd-ra:valid-infinite?   empty
|  |  |  |     |        +--rw ipv6-nd-ra:preferred
|  |  |  |     |           +--rw (ch-preferred-type)?
|  |  |  |     |           |  +--:(ca-preferred-lifetime)
|  |  |  |     |           |  |  +--rw ipv6-nd-ra:preferred-lifetime?   common-def:time-interval-sec
|  |  |  |     |           |  +--:(ca-preferred-infinite)
|  |  |  |     |           |     +--rw ipv6-nd-ra:preferred-infinite?   empty
|  |  |  |     |           +--rw ipv6-nd-ra:prefix-flags
|  |  |  |     |              +--rw ipv6-nd-ra:no-autoconfig?   empty
|  |  |  |     |              +--rw ipv6-nd-ra:no-onlink?       empty
|  |  |  |     |              +--rw ipv6-nd-ra:off-link?        empty
|  |  |  |     +--rw ipv6-nd-ra:neighbor [ipv6-address]
|  |  |  |        +--rw ipv6-nd-ra:ipv6-address        neighbor-ipv6-address
|  |  |  |        +--rw ipv6-nd-ra:hardware-address?   macAddr
|  |  |  +--rw isis:intf-ipv6-router-isis
|  |  |  |  +--rw isis:int-ipv6-router-isis
|  |  |  |     +--rw isis:interface-ipv6-router-isis?   empty
|  |  |  +--rw ospfv3:interface-ospfv3-conf
|  |  |  |  +--rw ospfv3:interface-area?             ospf:ospf-area-id
|  |  |  |  +--rw ospfv3:active?                     empty
|  |  |  |  +--rw ospfv3:passive?                    empty
|  |  |  |  +--rw ospfv3:cost?                       uint32
|  |  |  |  +--rw ospfv3:instance?                   uint32
|  |  |  |  +--rw ospfv3:mtu-ignore?                 empty
|  |  |  |  +--rw ospfv3:network?                    enumeration
|  |  |  |  +--rw ospfv3:priority?                   uint32
|  |  |  |  +--rw ospfv3:suppress-linklsa?           empty
|  |  |  |  +--rw ospfv3:authentication
|  |  |  |  |  +--rw ospfv3:ipsec-auth-key-config
|  |  |  |  |  |  +--rw ospfv3:spi?            spi-value-type
|  |  |  |  |  |  +--rw (ch-algorithm)?
|  |  |  |  |  |     +--:(ca-ah-algorithm)
|  |  |  |  |  |     |  +--rw ospfv3:ah?             algorithm-type-ah
|  |  |  |  |  |     |  +--rw ospfv3:ah-key?         ipsec-authentication-hexkey-string
|  |  |  |  |  |     +--:(ca-esp-algorithm)
|  |  |  |  |  |        +--rw ospfv3:esp?            algorithm-type-esp
|  |  |  |  |  |        +--rw ospfv3:esp-auth?       algorithm-type-ah
|  |  |  |  |  |        +--rw ospfv3:esp-auth-key?   ipsec-authentication-hexkey-string
|  |  |  |  |  +--rw ospfv3:ipsec
|  |  |  |  |     +--rw ospfv3:ipsec-authentication-disable?   empty
|  |  |  |  |     +--rw ospfv3:ifc-key-add-remove-interval?    common-def:time-interval-sec
|  |  |  |  +--rw ospfv3:link-interval-properties
|  |  |  |     +--rw ospfv3:hello-interval?        common-def:time-interval-sec
|  |  |  |     +--rw ospfv3:dead-interval?         common-def:time-interval-sec
|  |  |  |     +--rw ospfv3:hello-jitter?          uint32
|  |  |  |     +--rw ospfv3:retransmit-interval?   common-def:time-interval-sec
|  |  |  |     +--rw ospfv3:transmit-delay?        common-def:time-interval-sec
```

```
|  |  |  +--rw vrrpv3:vrrpv3-group [vrid]
|  |  |  |  +--rw vrrpv3:vrid                        vrid-type
|  |  |  |  +--rw vrrpv3:use-v2-checksum?            empty
|  |  |  |  +--rw vrrpv3:virtual-ip [virtual-ipaddr]
|  |  |  |  |  +--rw vrrpv3:virtual-ipaddr    inet:ipv6-address
|  |  |  |  +--rw vrrpv3:track
|  |  |  |  |  +--rw vrrpv3:interface [interface-type interface-name]
|  |  |  |  |     +--rw vrrpv3:interface-type    track-iftype
|  |  |  |  |     +--rw vrrpv3:interface-name    track-ifname
|  |  |  |  |     +--rw vrrpv3:track-priority?   uint8
|  |  |  |  +--rw vrrpv3:advertisement-interval?   uint32
|  |  |  |  +--rw vrrpv3:enable?                   empty
|  |  |  |  +--rw vrrpv3:hold-time?                uint32
|  |  |  |  +--rw vrrpv3:preempt-mode?             empty
|  |  |  |  +--rw vrrpv3:priority?                 uint8
|  |  |  |  +--rw vrrpv3:description?              string
|  |  |  +--rw vrrpv3:vrrpv3e-group [vrid]
|  |  |     +--rw vrrpv3:vrid                              vrrpe-vrid-type
|  |  |     +--rw vrrpv3:virtual-ip [virtual-ipaddr]
|  |  |     |  +--rw vrrpv3:virtual-ipaddr    inet:ipv6-address
|  |  |     +--rw vrrpv3:track
|  |  |     |  +--rw vrrpv3:interface [interface-type interface-name]
|  |  |     |     +--rw vrrpv3:interface-type    track-iftype
|  |  |     |     +--rw vrrpv3:interface-name    track-ifname
|  |  |     |     +--rw vrrpv3:track-priority?   uint8
|  |  |     +--rw vrrpv3:enable?                           empty
|  |  |     +--rw vrrpv3:hold-time?                        uint32
|  |  |     +--rw vrrpv3:preempt-mode?                     empty
|  |  |     +--rw vrrpv3:priority?                         uint8
|  |  |     +--rw vrrpv3:description?                      string
|  |  |     +--rw vrrpv3:advertise-backup?                 empty
|  |  |     +--rw vrrpv3:nd-advertisement-timer?           uint32
|  |  |     +--rw vrrpv3:advertisement-interval-scale?     uint32
|  |  |     +--rw vrrpv3:backup-advertisement-interval?    uint32
|  |  |     +--rw vrrpv3:vrrpe-advertisement-interval?     uint32
|  |  |     +--rw vrrpv3:short-path-forwarding
|  |  |        +--rw vrrpv3:basic?             empty
|  |  |        +--rw vrrpv3:revert-priority?   uint8
|  |  +--rw vepa
|  |  |  +--rw vepa-enable?   empty
|  |  +--rw priority-tag-enable?               empty
|  |  +--rw mac-access-list:mac
|  |  |  +--rw mac-access-list:access-group [mac-access-list mac-direction]
|  |  |     +--rw mac-access-list:mac-access-list    mac-acl-name
|  |  |     +--rw mac-access-list:mac-direction      enumeration
|  |  |     +--rw mac-access-list:traffic-type?      enumeration
|  |  +--rw lif:logical-interface
|  |  |  +--rw lif:ethernet [instance-id]
|  |  |     +--rw lif:instance-id            lif-interface-type
|  |  |     +--rw lif:cmd-container-dummy
|  |  |        +--rw lif:service-instance-common-commands-dummy
|  |  |        |  +--rw lif:shutdown
|  |  |        |  |  +--rw lif:shutdown-status?   empty
|  |  |        |  +--rw lif:name
|  |  |        |     +--rw lif:logical-interface-name?   string
|  |  |        +--rw lif:service-instance-vlan-cmds-dummy-container
|  |  |           +--rw lif:get-untagged-vlan-dummy
|  |  |           |  +--rw lif:untagged
|  |  |           |     +--rw lif:untagged-vlan
|  |  |           |        +--rw lif:untagged-vlan-id?   uint32
|  |  |           +--rw lif:tagged-outer-vlan
|  |  |              +--rw lif:outer-tagged-vlan-id?   uint32
|  |  |              +--rw lif:inner-vlan?             empty
|  |  |              +--rw lif:inner-tagged-vlan-id?   uint32
|  |  +--rw dle:delay-link-event
|  |  |  +--rw dle:delay-link
|  |  |     +--rw dle:delay-link-event-entry?   uint32
|  |  |     +--rw dle:delay-link-event-type?    enumeration
|  |  +--rw dot1x:dot1x
|  |  |  +--rw dot1x:authentication?           empty
|  |  |  +--rw dot1x:port-control?             enumeration
|  |  |  +--rw dot1x:protocol-version?         uint32
```

```
|  |  |  +--rw dot1x:quiet-period?             uint32
|  |  |  +--rw dot1x:reauthMax?                uint32
|  |  |  +--rw dot1x:max-req?                  uint32
|  |  |  +--rw dot1x:reauthentication?         empty
|  |  |  +--rw dot1x:filter-strict-security?   empty
|  |  |  +--rw dot1x:timeout
|  |  |     +--rw dot1x:re-authperiod?   dot1x-reauth-timeout-interval
|  |  |     +--rw dot1x:supp-timeout?    dot1x-supp-timeout-interval
|  |  |     +--rw dot1x:tx-period?       dot1x-tx-timeout-interval
|  |  +--rw ip-access-list:ip-acl-interface
|  |  |  +--rw ip-access-list:ip
|  |  |     +--rw ip-access-list:access-group [ip-access-list ip-direction]
|  |  |        +--rw ip-access-list:ip-access-list    l3-acl-policy-name
|  |  |        +--rw ip-access-list:ip-direction      enumeration
|  |  |        +--rw ip-access-list:traffic-type?     enumeration
|  |  +--rw ip-policy:ip-pbr-interface
|  |  |  +--rw ip-policy:ip
|  |  |     +--rw ip-policy:policy
|  |  |        +--rw ip-policy:route-map
|  |  |           +--rw ip-policy:route-map-name?   common-def:name-string63
|  |  +--rw isis:interface-eth-isis-conf
|  |  |  +--rw isis:intf-isis?
|  |  |     +--rw isis:interface-isis
|  |  |        +--rw isis:auth-check
|  |  |        |  +--rw isis:auth-check-level1
|  |  |        |  |  +--rw isis:interface-auth-check-level1-disable?   empty
|  |  |        |  +--rw isis:auth-check-level2
|  |  |        |     +--rw isis:interface-auth-check-level2-disable?   empty
|  |  |        +--rw isis:interface-reverse-metric?
|  |  |        |  +--rw isis:rev-metric-common-attributes
|  |  |        |     +--rw isis:rev-metric-val?             uint32
|  |  |        |     +--rw isis:rev-metric-whole-lan?       empty
|  |  |        |     +--rw isis:rev-metric-te-def-metric?   empty
|  |  |        +--rw isis:interface-auth-mode
|  |  |        |  +--rw isis:interface-md5
|  |  |        |     +--rw isis:interface-auth-mode-md5-level1?   empty
|  |  |        |     +--rw isis:interface-auth-mode-md5-level2?   empty
|  |  |        +--rw isis:interface-auth-key [interface-auth-key-level]
|  |  |        |  +--rw isis:interface-auth-key-level    enumeration
|  |  |        |  +--rw isis:interface-auth-key-str?     string
|  |  |        +--rw isis:interface-hello
|  |  |        |  +--rw isis:interface-hello-padding
|  |  |        |     +--rw isis:interface-hello-padding-disable?   empty
|  |  |        +--rw isis:interface-hello-interval [interface-hello-interval-level]
|  |  |        |  +--rw isis:interface-hello-interval-level    enumeration
|  |  |        |  +--rw isis:interface-hello-interval-val?     uint32
|  |  |        +--rw isis:interface-hello-multiplier [interface-hello-multiplier-level]
|  |  |        |  +--rw isis:interface-hello-multiplier-level    enumeration
|  |  |        |  +--rw isis:interface-hello-multiplier-val?     uint32
|  |  |        +--rw isis:circuit-type?                 enumeration
|  |  |        +--rw isis:interface-ipv6
|  |  |        |  +--rw isis:interface-ipv6-metric [interface-ipv6-metric-level]
|  |  |        |     +--rw isis:interface-ipv6-metric-level    enumeration
|  |  |        |     +--rw isis:interface-ipv6-metric-val?     uint32
|  |  |        +--rw isis:interface-metric [interface-metric-level]
|  |  |        |  +--rw isis:interface-metric-level    enumeration
|  |  |        |  +--rw isis:interface-metric-val?     uint32
|  |  |        +--rw isis:interface-point-to-point?     empty
|  |  |        +--rw isis:interface-passive?            empty
|  |  |        +--rw isis:interface-priority
|  |  |        |  +--rw isis:interface-priority-level1?   uint32
|  |  |        |  +--rw isis:interface-priority-level2?   uint32
|  |  |        +--rw isis:interface-ldp-sync?           enumeration
|  |  +--rw lacp:lacp
|  |  |  +--rw lacp:timeout?             enumeration
|  |  |  +--rw lacp:std_port-priority?   uint32
|  |  |  +--rw lacp:default-up?          empty
|  |  +--rw lfs:link-fault-signaling
|  |  |  +--rw lfs:rx?   enumeration
|  |  |  +--rw lfs:tx?   enumeration
|  |  +--rw lldp:lldp
|  |  |  +--rw lldp:cee
```

```
|  |  |  |  +--rw lldp:lldp-cee-on-off?   enumeration
|  |  |  +--rw lldp:disable?   empty
|  |  |  +--rw lldp:profile?   string
|  |  +--rw openflow:openflow
|  |  |  +--rw openflow:protected-vlans
|  |  |  |  +--rw openflow:protected-vlan-add?      ui32-vlan-range
|  |  |  |  +--rw openflow:protected-vlan-remove?   ui32-vlan-range
|  |  |  +--rw openflow:enableInterfaceLevel
|  |  |     +--rw openflow:modeType?      enumeration
|  |  |     +--rw openflow:hybrid-mode?   empty
|  |  +--rw pld:link-error-disable
|  |  |  +--rw pld:link-error-disable-entry?   uint32
|  |  |  +--rw pld:sampling-time-in-sec?       uint32
|  |  |  +--rw pld:wait-time-in-sec?           uint32
|  |  +--rw qos-mls:storm-control
|  |  |  +--rw qos-mls:ingress [protocol-type]
|  |  |     +--rw qos-mls:protocol-type    enumeration
|  |  |     +--rw qos-mls:rate-format?     enumeration
|  |  |     +--rw qos-mls:rate-bps?        rate-limit-bps-type
|  |  |     +--rw qos-mls:rate-percent?    rate-limit-percentage-type
|  |  |     +--rw qos-mls:bum-action?      enumeration
|  |  +--rw qos-mls:qos
|  |  |  +--rw qos-mls:default-cos?          cos-id-type
|  |  |  +--rw qos-mls:default-tc?           traffic-class-id-type
|  |  |  +--rw qos-mls:trust
|  |  |  |  +--rw qos-mls:trust-cos?    empty
|  |  |  |  +--rw qos-mls:trust-dscp?   empty
|  |  |  +--rw qos-mls:cos-mutation?         map-name-type
|  |  |  +--rw qos-mls:traffic-class-cos?    map-name-type
|  |  |  +--rw qos-mls:cos-traffic-class?    map-name-type
|  |  |  +--rw qos-mls:dscp-mutation?        map-name-type
|  |  |  +--rw qos-mls:dscp-traffic-class?   map-name-type
|  |  |  +--rw qos-mls:dscp-cos?             map-name-type
|  |  |  +--rw qos-mls:random-detect
|  |  |  |  +--rw qos-mls:traffic-class [red-tc-value]
|  |  |  |     +--rw qos-mls:red-tc-value      traffic-class-id-type
|  |  |  |     +--rw qos-mls:red-profile-id?   uint32
|  |  |  +--rw qos-mls:drop-monitor
|  |  |  |  +--rw qos-mls:drop-monitor-enable?   empty
|  |  |  +--rw qos-mls:flowcontrol
|  |  |  |  +--rw qos-mls:link-level-flowcontrol
|  |  |  |     +--rw qos-mls:flowcontrol-tx?   enumeration
|  |  |  |     +--rw qos-mls:flowcontrol-rx?   enumeration
|  |  |  +--rw qos-mls:rx-queue
|  |  |     +--rw qos-mls:cos-threshold
|  |  |     |  +--rw qos-mls:cos0-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos1-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos2-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos3-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos4-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos5-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos6-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos7-threshold?   uint32
|  |  |     +--rw qos-mls:unicast
|  |  |     |  +--rw qos-mls:queue-size [traffic-class]
|  |  |     |     +--rw qos-mls:traffic-class     traffic-class-id-type
|  |  |     |     +--rw qos-mls:min-queue-size?   min-queue-size-type
|  |  |     |     +--rw qos-mls:max-queue-size?   max-queue-size-type
|  |  |     +--rw qos-mls:multicast
|  |  |        +--rw qos-mls:guarantee-rate?     guarantee-rate-type
|  |  |        +--rw qos-mls:best-effort-rate?   best-effort-rate-type
|  |  |        +--rw qos-mls:queue-size [traffic-class]
|  |  |           +--rw qos-mls:traffic-class     uint8
|  |  |           +--rw qos-mls:min-queue-size?   min-queue-size-type
|  |  |           +--rw qos-mls:max-queue-size?   max-queue-size-type
|  |  +--rw sflow:sflow
|  |  |  +--rw sflow:enable?             empty
|  |  |  +--rw sflow:polling-interval?   uint32
|  |  |  +--rw sflow:sample-rate?        uint32
|  |  +--rw qos-mqc:service-policy
|  |  |  +--rw qos-mqc:in?    map-name-type
|  |  |  +--rw qos-mqc:out?   map-name-type
```

```
|  |  +--rw rmon:rmon
|  |  |  +--rw rmon:collection
|  |  |     +--rw rmon:ether-stats-entry [ether-stats-index]
|  |  |     |  +--rw rmon:ether-stats-index    ether-stats-index-type
|  |  |     |  +--rw rmon:ether-stats-owner?   owner-string
|  |  |     +--rw rmon:history-control-entry [history-control-index]
|  |  |        +--rw rmon:history-control-index                history-control-index-type
|  |  |        +--rw rmon:history-control-buckets-requested?   history-control-buckets-requested-type
|  |  |        +--rw rmon:history-control-interval?            history-control-interval-type
|  |  |        +--rw rmon:history-control-owner?               owner-string
|  |  +--rw udld:udld
|  |  |  +--rw udld:udld-enable?   empty
|  |  +--rw vrrp:vrrp [vrid version]
|  |  |  +--rw vrrp:vrid                      vrid-type
|  |  |  +--rw vrrp:version                   uint8
|  |  |  +--rw vrrp:use-v2-checksum?          empty
|  |  |  +--rw vrrp:virtual-ip [virtual-ipaddr]
|  |  |  |  +--rw vrrp:virtual-ipaddr    inet:ipv4-address
|  |  |  +--rw vrrp:track
|  |  |  |  +--rw vrrp:interface [interface-type interface-name]
|  |  |  |     +--rw vrrp:interface-type    track-iftype
|  |  |  |     +--rw vrrp:interface-name    track-ifname
|  |  |  |     +--rw vrrp:track-priority?   uint8
|  |  |  +--rw vrrp:advertisement-interval?   uint32
|  |  |  +--rw vrrp:enable?                   empty
|  |  |  +--rw vrrp:hold-time?                uint32
|  |  |  +--rw vrrp:preempt-mode?             empty
|  |  |  +--rw vrrp:arp
|  |  |  |  +--rw vrrp:unicast-request
|  |  |  |     +--rw vrrp:receive?   empty
|  |  |  +--rw vrrp:priority?                 uint8
|  |  |  +--rw vrrp:description?              string
|  |  +--rw xstp:spanning-tree
|  |     +--rw xstp:autoedge?          empty
|  |     +--rw xstp:cost?              uint32
|  |     +--rw xstp:portfast
|  |     |  +--rw xstp:portfastbasic?   empty
|  |     |  +--rw xstp:bpdu-guard?      empty
|  |     |  +--rw xstp:bpdu-filter?     empty
|  |     +--rw xstp:edgeport
|  |     |  +--rw xstp:edgeportbasic?   empty
|  |     |  +--rw xstp:bpdu-guard?      empty
|  |     |  +--rw xstp:bpdu-filter?     empty
|  |     +--rw xstp:guard
|  |     |  +--rw xstp:root?   empty
|  |     +--rw xstp:bpdu-mac?          enumeration
|  |     +--rw xstp:link-type?         enumeration
|  |     +--rw xstp:priority?          uint32
|  |     +--rw xstp:restricted-role?   empty
|  |     +--rw xstp:restricted-tcn?    empty
|  |     +--rw xstp:shutdown?          empty
|  |     +--rw xstp:vlan [id]
|  |     |  +--rw xstp:id          uint32
|  |     |  +--rw xstp:cost?       uint32
|  |     |  +--rw xstp:priority?   uint32
|  |     |  +--rw xstp:guard
|  |     |     +--rw xstp:root?   empty
|  |     +--rw xstp:instance [id]
|  |        +--rw xstp:id                mstp-instance-type
|  |        +--rw xstp:cost?             uint32
|  |        +--rw xstp:priority?         uint32
|  |        +--rw xstp:restricted-role?   empty
|  |        +--rw xstp:restricted-tcn?    empty
|  +--rw port-channel [name]
|  |  +--rw name                              portchannel-type
|  |  +--rw po-speed?                         enumeration
|  |  +--ro ifindex?                          uint64
|  |  +--rw description?                      string
|  |  +--rw shutdown?                         empty
|  |  +--rw minimum-links?                    uint32
|  |  +--rw mtu?                              mtu-type
|  |  +--rw switchport-basic
```

```
|  |  |  +--rw basic?   empty
|  |  +--rw switchport
|  |  |  +--rw mode
|  |  |  |  +--rw vlan-mode?   l2-mode-type
|  |  |  +--rw port-security?
|  |  |  |  +--rw port-sec-max?                uint32
|  |  |  |  +--rw port-sec-violation?          port-sec-violation
|  |  |  |  +--rw port-security-mac-address [mac-address port-sec-vlan]
|  |  |  |  |  +--rw mac-address      mac-address-type
|  |  |  |  |  +--rw port-sec-vlan    vlan-type
|  |  |  |  +--rw sticky
|  |  |  |  |  +--rw sticky-flag?                 empty
|  |  |  |  |  +--rw port-security-mac-address [mac-address port-sec-vlan]
|  |  |  |  |     +--rw mac-address      mac-address-type
|  |  |  |  |     +--rw port-sec-vlan    vlan-type
|  |  |  |  +--rw shutdown-time?               uint32
|  |  |  +--rw access
|  |  |  |  +--rw accessvlan?   vlan-type
|  |  |  +--rw trunk
|  |  |     +--rw allowed
|  |  |     |  +--rw vlan
|  |  |     |  |  +--rw all?      empty
|  |  |     |  |  +--rw none?     empty
|  |  |     |  |  +--rw add?      ui32-vlan-20k-range
|  |  |     |  |  +--rw except?   ui32-1k-vlan-range
|  |  |     |  |  +--rw remove?   ui32-1k-vlan-range
|  |  |     |  x--rw vlanoper
|  |  |     |     +--rw vlan
|  |  |     |        +--rw add?      ui32-vlan-range
|  |  |     |        +--rw remove?   ui32-vlan-range
|  |  |     +--rw tag?
|  |  |     |  +--rw native-vlan?   empty
|  |  |     +--rw native-vlan-classification
|  |  |        +--rw native-vlan-id?   native-vlan-type
|  |  +--rw ip
|  |  +--rw ipv6
|  |  |  +--rw ipv6-access-list:access-group [ipv6-access-list ip-direction]
|  |  |     +--rw ipv6-access-list:ipv6-access-list    ipv6-l3-acl-policy-name
|  |  |     +--rw ipv6-access-list:ip-direction        enumeration
|  |  |     +--rw ipv6-access-list:traffic-type?       enumeration
|  |  +--rw priority-tag-enable?               empty
|  |  +--rw load-balance-type?                 enumeration
|  |  +--rw mac-access-list:mac
|  |  |  +--rw mac-access-list:access-group [mac-access-list mac-direction]
|  |  |     +--rw mac-access-list:mac-access-list    mac-acl-name
|  |  |     +--rw mac-access-list:mac-direction      enumeration
|  |  |     +--rw mac-access-list:traffic-type?      enumeration
|  |  +--rw lif:logical-interface
|  |  |  +--rw lif:port-channel [pc-instance-id]
|  |  |     +--rw lif:pc-instance-id            lif-port-channel-type
|  |  |     +--rw lif:pc-cmd-container-dummy
|  |  |        +--rw lif:service-instance-common-commands-dummy
|  |  |        |  +--rw lif:shutdown
|  |  |        |  |  +--rw lif:shutdown-status?   empty
|  |  |        |  +--rw lif:name
|  |  |        |     +--rw lif:logical-interface-name?   string
|  |  |        +--rw lif:service-instance-vlan-cmds-dummy-container
|  |  |           +--rw lif:get-untagged-vlan-dummy
|  |  |           |  +--rw lif:untagged
|  |  |           |     +--rw lif:untagged-vlan
|  |  |           |        +--rw lif:untagged-vlan-id?   uint32
|  |  |           +--rw lif:tagged-outer-vlan
|  |  |              +--rw lif:outer-tagged-vlan-id?   uint32
|  |  |              +--rw lif:inner-vlan?             empty
|  |  |              +--rw lif:inner-tagged-vlan-id?   uint32
|  |  +--rw ip-access-list:ip-acl-interface
|  |  |  +--rw ip-access-list:ip
|  |  |     +--rw ip-access-list:access-group [ip-access-list ip-direction]
|  |  |        +--rw ip-access-list:ip-access-list    l3-acl-policy-name
|  |  |        +--rw ip-access-list:ip-direction      enumeration
|  |  |        +--rw ip-access-list:traffic-type?     enumeration
|  |  +--rw qos-mls:qos
```

```
|  |  |  +--rw qos-mls:default-cos?          cos-id-type
|  |  |  +--rw qos-mls:default-tc?           traffic-class-id-type
|  |  |  +--rw qos-mls:trust
|  |  |  |  +--rw qos-mls:trust-cos?    empty
|  |  |  |  +--rw qos-mls:trust-dscp?   empty
|  |  |  +--rw qos-mls:cos-mutation?         map-name-type
|  |  |  +--rw qos-mls:traffic-class-cos?    map-name-type
|  |  |  +--rw qos-mls:cos-traffic-class?    map-name-type
|  |  |  +--rw qos-mls:dscp-mutation?        map-name-type
|  |  |  +--rw qos-mls:dscp-traffic-class?   map-name-type
|  |  |  +--rw qos-mls:dscp-cos?             map-name-type
|  |  |  +--rw qos-mls:random-detect
|  |  |  |  +--rw qos-mls:traffic-class [red-tc-value]
|  |  |  |     +--rw qos-mls:red-tc-value      traffic-class-id-type
|  |  |  |     +--rw qos-mls:red-profile-id?   uint32
|  |  |  +--rw qos-mls:drop-monitor
|  |  |  |  +--rw qos-mls:drop-monitor-enable?   empty
|  |  |  +--rw qos-mls:flowcontrol
|  |  |     +--rw qos-mls:link-level-flowcontrol
|  |  |        +--rw qos-mls:flowcontrol-tx?   enumeration
|  |  |        +--rw qos-mls:flowcontrol-rx?   enumeration
|  |  +--rw qos-mqc:service-policy
|  |  |  +--rw qos-mqc:in?    map-name-type
|  |  |  +--rw qos-mqc:out?   map-name-type
|  |  +--rw xstp:spanning-tree
|  |     +--rw xstp:autoedge?          empty
|  |     +--rw xstp:cost?              uint32
|  |     +--rw xstp:portfast
|  |     |  +--rw xstp:portfastbasic?   empty
|  |     |  +--rw xstp:bpdu-guard?      empty
|  |     |  +--rw xstp:bpdu-filter?     empty
|  |     +--rw xstp:edgeport
|  |     |  +--rw xstp:edgeportbasic?   empty
|  |     |  +--rw xstp:bpdu-guard?      empty
|  |     |  +--rw xstp:bpdu-filter?     empty
|  |     +--rw xstp:guard
|  |     |  +--rw xstp:root?   empty
|  |     +--rw xstp:bpdu-mac?          enumeration
|  |     +--rw xstp:link-type?         enumeration
|  |     +--rw xstp:priority?          uint32
|  |     +--rw xstp:restricted-role?   empty
|  |     +--rw xstp:restricted-tcn?    empty
|  |     +--rw xstp:shutdown?          empty
|  |     +--rw xstp:vlan [id]
|  |     |  +--rw xstp:id          uint32
|  |     |  +--rw xstp:cost?       uint32
|  |     |  +--rw xstp:priority?   uint32
|  |     |  +--rw xstp:guard
|  |     |     +--rw xstp:root?   empty
|  |     +--rw xstp:instance [id]
|  |        +--rw xstp:id                mstp-instance-type
|  |        +--rw xstp:cost?             uint32
|  |        +--rw xstp:priority?         uint32
|  |        +--rw xstp:restricted-role?   empty
|  |        +--rw xstp:restricted-tcn?    empty
|  +--rw management [name]
|  |  +--rw name                        standalone-man-interface-type
|  |  +--rw tcp
|  |  |  +--rw tcp_burstrate?   uint32
|  |  |  +--rw tcp_lockdown?    uint32
|  |  +--rw ip
|  |  |  +--rw icmp
|  |  |  |  +--rw rate_limiting?   uint32
|  |  |  +--rw address
|  |  |  |  +--rw dhcp?         empty
|  |  |  |  +--rw ip-address?   common-def:ipv4-address-prefix-type
|  |  |  +--rw oper-address
|  |  |  |  +--ro oper-ip-address?   common-def:ipv4-address-prefix-type
|  |  |  +--rw oper-gateway-con
|  |  |  |  +--ro oper-gateway?   inet:ipv4-address
|  |  |  +--rw ip-access-list:access-group
|  |  |     +--rw ip-access-list:mgmt-ip-access-list?   l3-acl-policy-name
```

```
|  |  |     +--rw ip-access-list:mgmt-ip-direction?     enumeration
|  |  +--rw ipv6
|  |  |  +--rw icmpv6
|  |  |  |  +--rw v6_rate_limiting?   uint32
|  |  |  +--rw ipv6-address-cont
|  |  |  |  +--rw ipv6-global-cont
|  |  |  |     +--rw ipv6-global-address?         common-def:ipv6-address-prefix
|  |  |  |     +--rw ipv6-global-address-eui64?   empty
|  |  |  +--ro ipv6-address*                    string
|  |  |  +--ro ipv6-gateways*                   string
|  |  |  +--rw ipv6-access-list:access-group
|  |  |     +--rw ipv6-access-list:mgmt-ipv6-access-list?   ipv6-l3-acl-policy-name
|  |  |     +--rw ipv6-access-list:mgmt-ip-direction?       enumeration
|  |  +--rw vrf
|  |  |  +--rw vrf-forwarding?   common-def:vrf-name
|  |  +--rw speed?                       enumeration
|  |  +--rw line-speed
|  |  |  +--ro actual?       string
|  |  |  +--ro configured?   string
|  |  +--rw shutdown_management?        empty
|  |  +--ro shutdown_management_oper?   string
|  +--rw gre-vxlan:tunnel [identifier]
|     +--rw gre-vxlan:identifier                 uint32
|     +--rw gre-vxlan:mode
|     |  +--rw gre-vxlan:gre
|     |     +--rw gre-vxlan:ip?   empty
|     +--rw gre-vxlan:gre-source
|     |  +--rw (source-cmd)?
|     |     +--:(ca-source-address)
|     |     |  +--rw gre-vxlan:source-address?       inet:ipv4-address
|     |     +--:(ca-interface-loopback)
|     |     |  +--rw gre-vxlan:interface-loopback?   lo:intf-loopback-port-type
|     |     +--:(ca-interface-ethernet)
|     |     |  +--rw gre-vxlan:interface-ethernet?   interface:interface-type
|     |     +--:(ca-interface-ve)
|     |        +--rw gre-vxlan:interface-ve?         uint32
|     +--rw gre-vxlan:tunnel-destination?        inet:ipv4-address
|     +--rw gre-vxlan:tunnel-shutdown?           empty
|     +--rw gre-vxlan:tunnel-router-interface
|     |  +--rw gre-vxlan:router-ve?   uint32
|     +--rw gre-vxlan:gre-ttl?                   uint32
|     +--rw gre-vxlan:gre-dscp?                  uint32
|     +--rw gre-vxlan:tunnel-name?               string
|     +--rw gre-vxlan:dscp-ttl-mode?             enumeration
|     +--rw gre-vxlan:statistics?                empty
|     +--rw gre-vxlan:keepalive
|        +--rw gre-vxlan:time-interval?   uint32
|        +--rw gre-vxlan:retry-count?     uint32
+--rw interface-vlan
|  +--rw vlan [name]
|     +--rw name                   vlan-type
|     +--rw statistics?            empty
|     +--rw router-interface
|     |  +--rw ve-config?   ve-type
|     +--ro ifindex?               uint64
|     +--rw description?           string
|     +--rw vlan-name?             string
|     +--rw ip
|     |  +--rw igmp-snooping:igmpVlan
|     |     +--rw igmp-snooping:snooping
|     |        +--rw igmp-snooping:igmps-version?                      igmps-version-type
|     |        +--rw igmp-snooping:igmps-last-member-query-interval?   lmqt-type
|     |        +--rw igmp-snooping:igmps-query-interval?               qi-type
|     |        +--rw igmp-snooping:igmps-query-max-response-time?      qmrt-type
|     |        +--rw igmp-snooping:igmps-enable?                       empty
|     |        +--rw igmp-snooping:igmps-fast-leave?                   empty
|     |        +--rw igmp-snooping:igmps-querier
|     |        |  +--rw igmp-snooping:igmps-qenable?   empty
|     |        +--rw igmp-snooping:igmps_mrouter
|     |        |  +--rw igmp-snooping:igmps-interface [igmps-if-type igmps-value]
|     |        |     +--rw igmp-snooping:igmps-if-type    enumeration
|     |        |     +--rw igmp-snooping:igmps-value      string-type
```

```
   |     |        +--rw igmp-snooping:igmps_static-group [igmps-mcast-address igmps-interface igmps-if-
type igmps-value]
   |     |           +--rw igmp-snooping:igmps-mcast-address    inet:ipv4-address
   |     |           +--rw igmp-snooping:igmps-interface        enumeration
   |     |           +--rw igmp-snooping:igmps-if-type          enumeration
   |     |           +--rw igmp-snooping:igmps-value            string-type
   |     +--rw mac-access-list:mac
   |     |  +--rw mac-access-list:access-group [mac-access-list mac-direction]
   |     |     +--rw mac-access-list:mac-access-list    mac-acl-name
   |     |     +--rw mac-access-list:mac-direction      enumeration
   |     |     +--rw mac-access-list:traffic-type?      enumeration
   |     +--rw xstp:spanning-tree
   |        +--rw xstp:stp-shutdown?   empty
   +--rw protocol
      +--rw dot1ag:cfm?
      |  +--rw dot1ag:domain-name [domain-name]
      |     +--rw dot1ag:domain-name     string
      |     +--rw dot1ag:domain-level    uint32
      |     +--rw dot1ag:ma-name [ma-name]
      |        +--rw dot1ag:ma-name                string
      |        +--rw dot1ag:ma-id                  uint32
      |        +--rw (vid-type)?
      |        |  +--:(vlan)
      |        |  |  +--rw dot1ag:ma-vlan-vid?           uint32
      |        |  +--:(bridgeDomain)
      |        |     +--rw dot1ag:ma-bd-vid?             uint32
      |        +--rw dot1ag:ma-priority?           uint32
      |        +--rw dot1ag:cfm-ma-sub-commands
      |           +--rw dot1ag:ccm-interval?   ccm-interval-type
      |           +--rw dot1ag:mip-policy?     mip-policy-type
      |           +--rw dot1ag:mep [mep-id]
      |              +--rw dot1ag:mep-id                  uint32
      |              +--rw dot1ag:mep-down-up             mep-down-up-type
      |              +--rw dot1ag:vlan?                   uint32
      |              +--rw dot1ag:mep-intf-type?          dot1ag-interface-type
      |              +--rw dot1ag:mep-intf-name?          dot1ag-interface-name
      |              +--rw dot1ag:cfm-mep-sub-commands
      |                 +--rw dot1ag:tlv-type?     ccm-tlv-type
      |                 +--rw dot1ag:remote-mep [remote-mep]
      |                    +--rw dot1ag:remote-mep    uint32
      +--rw lldp:lldp?
      |  +--rw lldp:description?          string
      |  +--rw lldp:hello?                uint32
      |  +--rw lldp:mode?                 enumeration
      |  +--rw lldp:multiplier?           uint32
      |  +--rw lldp:advertise
      |  |  +--rw lldp:dcbx-fcoe-app-tlv?            empty
      |  |  +--rw lldp:dcbx-fcoe-logical-link-tlv?   empty
      |  |  +--rw lldp:dot1-tlv?                     empty
      |  |  +--rw lldp:dot3-tlv?                     empty
      |  |  +--rw lldp:optional-tlv
      |  |     +--rw lldp:management-address?           empty
      |  |     +--rw lldp:port-description?             empty
      |  |     +--rw lldp:system-capabilities?          empty
      |  |     +--rw lldp:adv-tlv-system-description?   empty
      |  |     +--rw lldp:adv-tlv-system-name?          empty
      |  +--rw lldp:system-name?          string
      |  +--rw lldp:system-description?   string
      |  +--rw lldp:disable?              empty
      |  +--rw lldp:profile [profile-name]
      |     +--rw lldp:profile-name    string
      |     +--rw lldp:description?    string
      |     +--rw lldp:hello?          uint32
      |     +--rw lldp:mode?           enumeration
      |     +--rw lldp:multiplier?     uint32
      |     +--rw lldp:advertise
      |        +--rw lldp:dcbx-fcoe-app-tlv?            empty
      |        +--rw lldp:dcbx-fcoe-logical-link-tlv?   empty
      |        +--rw lldp:dot1-tlv?                     empty
      |        +--rw lldp:dot3-tlv?                     empty
      |        +--rw lldp:optional-tlv
      |           +--rw lldp:management-address?           empty
```

```
|           +--rw lldp:port-description?             empty
|           +--rw lldp:system-capabilities?          empty
|           +--rw lldp:adv-tlv-system-description?   empty
|           +--rw lldp:adv-tlv-system-name?          empty
+--rw udld:udld?
|  +--rw udld:hello?        uint32
|  +--rw udld:multiplier?   uint32
|  +--rw udld:shutdown?     empty
+--rw xstp:spanning-tree
   +--rw xstp:stp?
   |  +--rw xstp:timer-config
   |  |  +--rw xstp:hello-time?      uint32
   |  |  +--rw xstp:forward-delay?   uint32
   |  |  +--rw xstp:max-age?         uint32
   |  +--rw xstp:description?             string
   |  +--rw xstp:bridge-priority?         uint32
   |  +--rw xstp:error-disable-timeout
   |  |  +--rw xstp:enable?     empty
   |  |  +--rw xstp:interval?   uint32
   |  +--rw xstp:port-channel
   |  |  +--rw xstp:path-cost?   enumeration
   |  +--rw xstp:shutdown?                empty
   +--rw xstp:rstp?
   |  +--rw xstp:timer-config
   |  |  +--rw xstp:hello-time?      uint32
   |  |  +--rw xstp:forward-delay?   uint32
   |  |  +--rw xstp:max-age?         uint32
   |  +--rw xstp:description?             string
   |  +--rw xstp:bridge-priority?         uint32
   |  +--rw xstp:error-disable-timeout
   |  |  +--rw xstp:enable?     empty
   |  |  +--rw xstp:interval?   uint32
   |  +--rw xstp:port-channel
   |  |  +--rw xstp:path-cost?   enumeration
   |  +--rw xstp:shutdown?                empty
   |  +--rw xstp:transmit-holdcount?      uint32
   +--rw xstp:pvst?
   |  +--rw xstp:timer-config
   |  |  +--rw xstp:hello-time?      uint32
   |  |  +--rw xstp:forward-delay?   uint32
   |  |  +--rw xstp:max-age?         uint32
   |  +--rw xstp:description?             string
   |  +--rw xstp:bridge-priority?         uint32
   |  +--rw xstp:error-disable-timeout
   |  |  +--rw xstp:enable?     empty
   |  |  +--rw xstp:interval?   uint32
   |  +--rw xstp:port-channel
   |  |  +--rw xstp:path-cost?   enumeration
   |  +--rw xstp:shutdown?                empty
   |  +--rw xstp:vlan [id]
   |     +--rw xstp:id              uint32
   |     +--rw xstp:priority?       uint32
   |     +--rw xstp:timer-config
   |        +--rw xstp:hello-time?      uint32
   |        +--rw xstp:forward-delay?   uint32
   |        +--rw xstp:max-age?         uint32
   +--rw xstp:rpvst?
   |  +--rw xstp:timer-config
   |  |  +--rw xstp:hello-time?      uint32
   |  |  +--rw xstp:forward-delay?   uint32
   |  |  +--rw xstp:max-age?         uint32
   |  +--rw xstp:description?             string
   |  +--rw xstp:bridge-priority?         uint32
   |  +--rw xstp:error-disable-timeout
   |  |  +--rw xstp:enable?     empty
   |  |  +--rw xstp:interval?   uint32
   |  +--rw xstp:port-channel
   |  |  +--rw xstp:path-cost?   enumeration
   |  +--rw xstp:shutdown?                empty
   |  +--rw xstp:vlan [id]
   |  |  +--rw xstp:id              uint32
   |  |  +--rw xstp:priority?       uint32
```

```
|  |  +--rw xstp:timer-config
|  |     +--rw xstp:hello-time?      uint32
|  |     +--rw xstp:forward-delay?   uint32
|  |     +--rw xstp:max-age?         uint32
|  +--rw xstp:transmit-holdcount?      uint32
+--rw xstp:mstp?
   +--rw xstp:timer-config
   |  +--rw xstp:hello-time?      uint32
   |  +--rw xstp:forward-delay?   uint32
   |  +--rw xstp:max-age?         uint32
   +--rw xstp:description?              string
   +--rw xstp:bridge-priority?         uint32
   +--rw xstp:error-disable-timeout
   |  +--rw xstp:enable?     empty
   |  +--rw xstp:interval?   uint32
   +--rw xstp:port-channel
   |  +--rw xstp:path-cost?   enumeration
   +--rw xstp:shutdown?                empty
   +--rw xstp:cisco-interoperability?   enumeration
   +--rw xstp:instance [id]
   |  +--rw xstp:id          mstp-instance-type
   |  +--rw xstp:vlan?       xstp-ui32-vlan-range
   |  +--rw xstp:priority?   uint32
   +--rw xstp:region?                  string
   +--rw xstp:revision?                uint16
   +--rw xstp:max-hops?                uint32
   +--rw xstp:transmit-holdcount?      uint32
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-interface-ext

Provides a data model extension to the brocade-interface module for defining RPCs to retrieve interface-related operational data in the managed device.

RPCs

```
+---x get-vlan-brief
  |  +--ro input
  |  |  +--ro (request-type)?
  |  |     +--:(get-request)
  |  |     |  +--ro vlan-id?             interface:vlan-type
  |  |     +--:(get-next-request)
  |  |        +--ro last-rcvd-vlan-id?   interface:vlan-type
  |  +--ro output
  |     +--ro configured-vlans-count?      uint32
  |     +--ro provisioned-vlans-count?     uint32
  |     +--ro unprovisioned-vlans-count?   uint32
  |     +--ro vlan [vlan-id]
  |     |  +--ro vlan-id       interface:vlan-type
  |     |  +--ro vlan-type?    enumeration
  |     |  +--ro vlan-name?    string
  |     |  +--ro vlan-state?   enumeration
  |     |  +--ro interface [interface-type interface-name]
  |     |     +--ro interface-type    enumeration
  |     |     +--ro interface-name    union
  |     |     +--ro tag?              enumeration
  |     |     +--ro classification [classification-type classification-value]
  |     |        +--ro classification-type     enumeration
  |     |        +--ro classification-value    string
  |     +--ro last-vlan-id?               interface:vlan-type
  |     +--ro has-more?                   boolean
  +---x get-interface-switchport
  |  +--ro output
  |     +--ro switchport [interface-type interface-name]
  |        +--ro interface-type            enumeration
  |        +--ro interface-name            union
  |        +--ro mode?                     interface:switchport-mode-type
  |        +--ro fcoe-port-enabled?        boolean
  |        +--ro ingress-filter-enabled?   boolean
  |        +--ro acceptable-frame-type?    enumeration
  |        +--ro default-vlan?             interface:vlan-type
  |        +--ro active-vlans
  |        |  +--ro vlanid*   interface:vlan-type
  |        +--ro inactive-vlans
  |           +--ro vlanid*   interface:vlan-type
  +---x get-ip-interface
  |  +--ro input
  |  |  +--ro (request-type)?
  |  |     +--:(get-request)
  |  |        +--ro interface-type?   enumeration
  |  |        +--ro interface-name?   union
  |  +--ro output
  |     +--ro interface [interface-type interface-name]
  |     |  +--ro interface-type         enumeration
  |     |  +--ro interface-name         union
  |     |  +--ro if-name?               string
  |     |  +--ro ip-address [ipv4]
  |     |  |  +--ro ipv4         string
  |     |  |  +--ro ipv4-type?   enumeration
  |     |  |  +--ro broadcast?   string
  |     |  |  +--ro ip-mtu?      interface:mtu-type
  |     |  +--ro if-state?              enumeration
  |     |  +--ro line-protocol-state?   enumeration
  |     |  +--ro proxy-arp?             string
  |     |  +--ro vrf?                   string
  |     +--ro has-more?    boolean
```

```
+---x get-interface-detail
|  +--ro input
|  |  +--ro (request-type)?
|  |     +--:(get-request)
|  |     |  +--ro interface-type?        enumeration
|  |     |  +--ro interface-name?        union
|  |     +--:(get-next-request)
|  |        +--ro last-rcvd-interface
|  |           +--ro interface-type?   enumeration
|  |           +--ro interface-name?   union
|  +--ro output
|     +--ro interface [interface-type interface-name]
|     |  +--ro interface-type                  enumeration
|     |  +--ro interface-name                  union
|     |  +--ro ifindex?                        uint64
|     |  +--ro mtu?                            interface:mtu-type
|     |  +--ro ip-mtu?                         interface:mtu-type
|     |  +--ro if-name?                        string
|     |  +--ro if-state?                       enumeration
|     |  +--ro line-protocol-state?            enumeration
|     |  +--ro line-protocol-state-info?       string
|     |  +--ro line-protocol-exception-info?   string
|     |  +--ro hardware-type?                  enumeration
|     |  +--ro logical-hardware-address?       yang:mac-address
|     |  +--ro current-hardware-address?       yang:mac-address
|     |  +--ro media-type?                     enumeration
|     |  +--ro wavelength?                     uint32
|     |  +--ro if-description?                 string
|     |  +--ro actual-line-speed?              string
|     |  +--ro configured-line-speed?          line-speed
|     |  +--ro line-duplex-state?              enumeration
|     |  +--ro flow-control?                   bits
|     |  +--ro queuing-strategy?               enumeration
|     |  +--ro port-role?                      enumeration
|     |  +--ro port-mode?                      enumeration
|     |  +--ro ifHCInOctets?                   yang:counter64
|     |  +--ro ifHCInUcastPkts?                yang:counter64
|     |  +--ro ifHCInMulticastPkts?            yang:counter64
|     |  +--ro ifHCInBroadcastPkts?            yang:counter64
|     |  +--ro ifHCInErrors?                   yang:counter64
|     |  +--ro ifHCOutOctets?                  yang:counter64
|     |  +--ro ifHCOutUcastPkts?               yang:counter64
|     |  +--ro ifHCOutMulticastPkts?           yang:counter64
|     |  +--ro ifHCOutBroadcastPkts?           yang:counter64
|     |  +--ro ifHCOutErrors?                  yang:counter64
|     +--ro has-more?    boolean
+---x get-media-detail
   +--ro input
   |  +--ro interface-type?   enumeration
   |  +--ro interface-name?   union
   +--ro output
      +--ro interface [interface-type interface-name]
         +--ro interface-type    enumeration
         +--ro interface-name    union
         +--ro (interface-identifier)?
            +--:(sfp)
            |  +--ro sfp
            |     +--ro speed?               line-speed
            |     +--ro connector?           enumeration
            |     +--ro encoding?            enumeration
            |     +--ro vendor-name?         string
            |     +--ro vendor-oui?          string
            |     +--ro vendor-pn?           string
            |     +--ro vendor-rev?          string
            |     +--ro distance?            enumeration
            |     +--ro media-form-factor?   enumeration
            |     +--ro wavelength?          string
            |     +--ro serial-no?           string
            |     +--ro date-code?           string
            |     +--ro temperature?         uint32
            |     +--ro voltage?             decimal64
            |     +--ro current?             decimal64
```

```
|     +--ro tx-power?            decimal64
|     +--ro rx-power?            decimal64
+--:(on-board)
|  +--ro on-board
|     +--ro speed?          line-speed
|     +--ro connector?      enumeration
|     +--ro encoding?       enumeration
|     +--ro vendor-name?    string
|     +--ro vendor-oui?     string
|     +--ro vendor-pn?      string
|     +--ro vendor-rev?     string
+--:(gbic)
|  +--ro gbc
|     +--ro vendor-name?    string
|     +--ro vendor-oui?     string
|     +--ro vendor-pn?      string
|     +--ro vendor-rev?     string
+--:(xfp)
|  +--ro xfp
|     +--ro vendor-name?    string
|     +--ro vendor-oui?     string
|     +--ro vendor-pn?      string
|     +--ro vendor-rev?     string
+--:(xff)
|  +--ro xff
|     +--ro vendor-name?    string
|     +--ro vendor-oui?     string
|     +--ro vendor-pn?      string
|     +--ro vendor-rev?     string
+--:(xfpe)
|  +--ro xfpe
|     +--ro vendor-name?    string
|     +--ro vendor-oui?     string
|     +--ro vendor-pn?      string
|     +--ro vendor-rev?     string
+--:(unknown)
|  +--ro unknown
|     +--ro vendor-name?    string
|     +--ro vendor-oui?     string
|     +--ro vendor-pn?      string
|     +--ro vendor-rev?     string
+--:(qsfp)
|  +--ro qsfp
|     +--ro speed?               line-speed
|     +--ro connector?           enumeration
|     +--ro encoding?            enumeration
|     +--ro vendor-name?         string
|     +--ro vendor-oui?          string
|     +--ro vendor-pn?           string
|     +--ro vendor-rev?          string
|     +--ro distance?            enumeration
|     +--ro media-form-factor?   enumeration
|     +--ro wavelength?          string
|     +--ro serial-no?           string
|     +--ro date-code?           string
|     +--ro temperature?         uint32
|     +--ro voltage?             decimal64
|     +--ro current?             decimal64
|     +--ro tx-power?            decimal64
|     +--ro rx-power?            decimal64
+--:(qsfpp)
|  +--ro qsfpp
|     +--ro speed?               line-speed
|     +--ro connector?           enumeration
|     +--ro encoding?            enumeration
|     +--ro vendor-name?         string
|     +--ro vendor-oui?          string
|     +--ro vendor-pn?           string
|     +--ro vendor-rev?          string
|     +--ro distance?            enumeration
|     +--ro media-form-factor?   enumeration
|     +--ro wavelength?          string
```

```
|     +--ro serial-no?           string
|     +--ro date-code?           string
|     +--ro temperature?         uint32
|     +--ro voltage?             decimal64
|     +--ro current?             decimal64
|     +--ro tx-power?            decimal64
|     +--ro rx-power?            decimal64
+--:(cfp)
|  +--ro cfp
|     +--ro speed?               line-speed
|     +--ro connector?           enumeration
|     +--ro encoding?            enumeration
|     +--ro vendor-name?         string
|     +--ro vendor-oui?          string
|     +--ro vendor-pn?           string
|     +--ro vendor-rev?          string
|     +--ro distance?            enumeration
|     +--ro media-form-factor?   enumeration
|     +--ro wavelength?          string
|     +--ro serial-no?           string
|     +--ro date-code?           string
|     +--ro temperature?         uint32
|     +--ro voltage?             decimal64
|     +--ro current?             decimal64
|     +--ro tx-power?            decimal64
|     +--ro rx-power?            decimal64
+--:(qsfp28)
|  +--ro qsfp28
|     +--ro speed?               line-speed
|     +--ro connector?           enumeration
|     +--ro encoding?            enumeration
|     +--ro vendor-name?         string
|     +--ro vendor-oui?          string
|     +--ro vendor-pn?           string
|     +--ro vendor-rev?          string
|     +--ro distance?            enumeration
|     +--ro media-form-factor?   enumeration
|     +--ro wavelength?          string
|     +--ro serial-no?           string
|     +--ro date-code?           string
|     +--ro temperature?         uint32
|     +--ro voltage?             decimal64
|     +--ro current?             decimal64
|     +--ro tx-power?            decimal64
|     +--ro rx-power?            decimal64
+--:(cfp2)
   +--ro cfp2
      +--ro speed?               line-speed
      +--ro connector?           enumeration
      +--ro encoding?            enumeration
      +--ro vendor-name?         string
      +--ro vendor-oui?          string
      +--ro vendor-pn?           string
      +--ro vendor-rev?          string
      +--ro distance?            enumeration
      +--ro media-form-factor?   enumeration
      +--ro wavelength?          string
      +--ro serial-no?           string
      +--ro date-code?           string
      +--ro temperature?         uint32
      +--ro voltage?             decimal64
      +--ro current?             decimal64
      +--ro tx-power?            decimal64
      +--ro rx-power?            decimal64
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-intf-loopback

Provides a data model for managing the interface loopback feature.

Top-level container

```
module: brocade-intf-loopback
   +--rw hide-intf-loopback-holder /*drop-node-name*/
      +--rw interface
         +--rw loopback [id] /*alt-name:Loopback*/
            +--rw id               intf-loopback-port-type
            +--rw vrf
            |  +--rw forwarding?   common-def:vrf-name
            +--rw intf-loopback /*drop-node-name*/
            |  +--rw shutdown?   empty
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-ip-access-list

Provides a data model for the configuration of IP access control lists (ACLs).

Top-level container

```
module: brocade-ip-access-list
   +--rw ip-acl
   |  +--rw ip
   |     +--rw access-list
   |        +--rw standard [name]
   |        |  +--rw name               l3-acl-policy-name
   |        |  +--rw hide-ip-acl-std
   |        |     +--rw seq [seq-id]
   |        |        +--rw seq-id              seq-id-std-ext
   |        |        +--rw action              enumeration
   |        |        +--rw src-host-any-sip    union
   |        |        +--rw src-host-ip         sip
   |        |        +--rw src-mask            sip-mask
   |        |        +--rw count?              empty
   |        |        +--rw log?                empty
   |        |        +--rw copy-sflow?         empty
   |        +--rw extended [name]
   |           +--rw name               l3-acl-policy-name
   |           +--rw hide-ip-acl-ext
   |              +--rw seq [seq-id]
   |                 +--rw seq-id                          seq-id-std-ext
   |                 +--rw action                          enumeration
   |                 +--rw protocol-type                   union
   |                 +--rw src-host-any-sip                union
   |                 +--rw src-host-ip                     sip
   |                 +--rw src-mask                        sip-mask
   |                 +--rw sport?                          enumeration
   |                 +--rw sport-number-eq-neq-tcp         union
   |                 +--rw sport-number-lt-tcp             union
   |                 +--rw sport-number-gt-tcp             union
   |                 +--rw sport-number-eq-neq-udp         union
   |                 +--rw sport-number-lt-udp             union
   |                 +--rw sport-number-gt-udp             union
   |                 +--rw sport-number-range-lower-tcp    union
   |                 +--rw sport-number-range-lower-udp    union
   |                 +--rw sport-number-range-higher-tcp   union
   |                 +--rw sport-number-range-higher-udp   union
   |                 +--rw dst-host-any-dip                union
   |                 +--rw dst-host-ip                     dip
   |                 +--rw dst-mask                        dip-mask
   |                 +--rw dport?                          enumeration
   |                 +--rw dport-number-eq-neq-tcp         union
   |                 +--rw dport-number-lt-tcp             union
   |                 +--rw dport-number-gt-tcp             union
   |                 +--rw dport-number-eq-neq-udp         union
   |                 +--rw dport-number-lt-udp             union
   |                 +--rw dport-number-gt-udp             union
   |                 +--rw dport-number-range-lower-tcp    union
   |                 +--rw dport-number-range-lower-udp    union
   |                 +--rw dport-number-range-higher-tcp   union
   |                 +--rw dport-number-range-higher-udp   union
   |                 +--rw dscp?                           union
   |                 +--rw dscp-force?                     dscprmrk-uint
   |                 +--rw drop-precedence-force?          drop-prec-uint
   |                 +--rw urg?                            empty
   |                 +--rw ack?                            empty
   |                 +--rw push?                           empty
   |                 +--rw fin?                            empty
   |                 +--rw rst?                            empty
   |                 +--rw sync?                           empty
   |                 +--rw vlan?                           interface:vlan-type
   |                 +--rw count?                          empty
```

```
   |                +--rw log?                              empty
   |                +--rw mirror?                           empty
   |                +--rw copy-sflow?                       empty
   +--rw acl-mirror
      +--rw source [src-interface-type src-interface-name destination dst-interface-type dst-interface-
name]
         +--rw src-interface-type    enumeration
         +--rw src-interface-name    mirror-ifname
         +--rw destination           enumeration
         +--rw dst-interface-type    enumeration
         +--rw dst-interface-name    mirror-ifname
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-ip-administration

Provides a data model for configuring the domain name server.

External augmentations

```
module: brocade-common-def
   +--rw ip
   |  +--rw ip-administration:dns
   |  |  +--rw ip-administration:dom-name /*drop-node-name*/
   |  |  |  +--rw ip-administration:domain-name?   string
   |  |  +--rw ip-administration:name-server [name-server-ip]
   |  |     +--rw ip-administration:name-server-ip    inet:ip-address
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-ip-config

Provides a data model for managing Layer 3 interfaces.

Using this module, you can apply primary and secondary IP addresses to a physical interface, port-channel, or VE interface.

External augmentations

```
module: brocade-common-def
   +--rw ip
      |  |  +--rw ip-config:ip-config
         |  |  |  +--rw ip-config:mtu?                  ip-mtu
         |  |  |  +--rw ip-config:directed-broadcast?   empty
         |  |  |  +--rw ip-config:proxy-arp?            empty
         |  |  |  +--rw ip-config:arp-aging-timeout?    uint32
         |  |  |  +--rw ip-config:address [address]
         |  |  |     +--rw ip-config:address         union
         |  |  |     +--rw ip-config:secondary?      empty
         |  |  |     +--rw ip-config:ospf-passive?   empty
         |  |  |     +--rw ip-config:ospf-ignore?    empty
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-ip-forward

This management module is an instrumentation for the management of CIDR multipath IP Routes. Multipath IP routes have the same network number but differing network masks.

External augmentations

```
No node found
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-ip-policy

Provides a data model for managing IP route policies.

IP route policy controls how routes or IP subnets are transported from one subsystem to another subsystem. The IP route policy may perform “permit” or “deny” actions so that matched routes may be allowed or denied to the target subsystem accordingly. Additionally, an IP route policy may be used to modify the characteristics of a matched route and IP subnet pair.

This module models two types of IP route policies: prefix lists and route maps.

Top-level container

```
module: brocade-ip-policy
   +--rw hide-filter-change-update-delay-holder
      +--rw filter-change-update-delay [filter-delay-value]
         +--rw filter-delay-value    uint32
```

External augmentations

```
module: brocade-common-def
   +--rw ipv6
   |  +--rw ip-policy:hide-prefix-holder /*drop-node-name*/
   |     +--rw ip-policy:prefix-list [name seq-keyword instance]
   |        +--rw ip-policy:name               ipv6-prefix-name-t /*drop-node-name*/
   |        +--rw ip-policy:seq-keyword        enumeration /*drop-node-name*/
   |        +--rw ip-policy:instance           instance-id-t
   |        +--rw ip-policy:action-ipp?        action-t
   |        +--rw ip-policy:ipv6-prefix-ipp?   inet:ipv6-prefix /*drop-node-name*/
   |        +--rw ip-policy:ge-ipp?            ipv6-prefix-len-t /*alt-name:ge*/
   |        +--rw ip-policy:le-ipp?            ipv6-prefix-len-t /*alt-name:le*/

module: brocade-interface
   +--rw interface
   |  +--rw gigabitethernet [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ip-policy:policy
   |  |  |  |  +--rw ip-policy:route-map
   |  |  |  |     +--rw ip-policy:ipv6-route-map-name?   common-def:name-string63 /*drop-node-name*/


module: brocade-interface
   +--rw interface
   |  +--rw tengigabitethernet [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ip-policy:policy
   |  |  |  |  +--rw ip-policy:route-map
   |  |  |  |     +--rw ip-policy:ipv6-route-map-name?   common-def:name-string63 /*drop-node-name*/


module: brocade-interface
   +--rw interface
   |  +--rw fortygigabitethernet [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ip-policy:policy
   |  |  |  |  +--rw ip-policy:route-map
   |  |  |  |     +--rw ip-policy:ipv6-route-map-name?   common-def:name-string63 /*drop-node-name*/


module: brocade-interface
   +--rw interface
   |  +--rw hundredgigabitethernet [name]
   |  |  +--rw ipv6
   |  |  +--rw ip-policy:ip-pbr-interface  /*drop-node-name*/
   |  |  |  +--rw ip-policy:ip
```

```
   |  |  |  +--rw ip-policy:policy
   |  |  |  |  +--rw ip-policy:route-map
   |  |  |  |     +--rw ip-policy:ipv6-route-map-name?   common-def:name-string63 /*drop-node-name*/


module: brocade-interface
   +--rw interface
   |  +--rw port-channel [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ip-policy:policy
   |  |  |  |  +--rw ip-policy:route-map
   |  |  |  |     +--rw ip-policy:ipv6-route-map-name?   common-def:name-string63

module: brocade-common-def
   +--rw ip
   |  +--rw ip-policy:hide-prefix-holder /*drop-node-name*/
   |  |  +--rw ip-policy:prefix-list [name seq-keyword instance]
   |  |     +--rw ip-policy:name           ip-prefix-name-t /*drop-node-name*/
   |  |     +--rw ip-policy:seq-keyword    enumeration /*drop-node-name*/
   |  |     +--rw ip-policy:instance       instance-id-t
   |  |     +--rw ip-policy:action-ipp?    action-t
   |  |     +--rw ip-policy:prefix-ipp?    inet:ipv4-prefix /*drop-node-name*/
   |  |     +--rw ip-policy:ge-ipp?        prefix-len-t /*alt-name:ge*/
   |  |     +--rw ip-policy:le-ipp?        prefix-len-t /*alt-name:le*/
   |  +--rw ip-policy:hide-as-path-holder /*drop-node-name*/
   |  |  +--rw ip-policy:as-path
   |  |     +--rw ip-policy:access-list [name seq-keyword instance]
   |  |        +--rw ip-policy:name           ip-as-path-name-t
   |  |        +--rw ip-policy:seq-keyword    enumeration /*drop-node-name*/
   |  |        +--rw ip-policy:instance       instance-id-t
   |  |        +--rw ip-policy:ip-action?     action-t /*drop-node-name*/
   |  |        +--rw ip-policy:ip-reg-expr?   ip-as-path-reg-expr-t /*drop-node-name*/
   |  +--rw ip-policy:hide-community-list-holder /*drop-node-name*/
   |  |  +--rw ip-policy:community-list
   |  |     +--rw ip-policy:standard [name seq-keyword instance]
   |  |     |  +--rw ip-policy:name                 ip-community-list-name-t /*drop-node-name*/
   |  |     |  +--rw ip-policy:seq-keyword          enumeration /*drop-node-name*/
   |  |     |  +--rw ip-policy:instance             instance-id-t
   |  |     |  +--rw ip-policy:ip-action?           action-t /*drop-node-name*/
   |  |     |  +--rw ip-policy:std-community-expr?  ip-std-community-expr-t /*drop-node-name*/
   |  |     +--rw ip-policy:extended [name seq-keyword instance]
   |  |        +--rw ip-policy:name                    ip-community-list-name-t
   |  |        +--rw ip-policy:seq-keyword             enumeration /*drop-node-name*/
   |  |        +--rw ip-policy:instance                instance-id-t
   |  |        +--rw ip-policy:ip-action?              action-t /*drop-node-name*/
   |  |        +--rw ip-policy:ip-community-reg-expr?  ip-community-reg-expr-t /*drop-node-name*/
   |  +--rw ip-policy:hide-ext-community-list-holder /*drop-node-name*/
   |  |  +--rw ip-policy:extcommunity-list [extcommunity-list-num]
   |  |     +--rw ip-policy:extcommunity-list-num    extcommunitylist-instance /*drop-node-name*/
   |  |     +--rw ip-policy:ext-community-action?    action-t /*drop-node-name*/
   |  |     +--rw ip-policy:ext-community-expr?      extcommunity-list-expr-t
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-ipv6-access-list

Provides a data model for the configuration of IPv6 access control lists (ACLs) and for retrieval of ACL operational data through custom RPCs.

Top-level container

```
module: brocade-ipv6-access-list
   +--rw ipv6-acl
      +--rw ipv6
         +--rw access-list
            +--rw standard [name]
            |  +--rw name    ipv6-l3-acl-policy-name
            |  +--rw seq [seq-id]
            |     +--rw seq-id              ip-access-list:seq-id-std-ext
            |     +--rw action              enumeration
            |     +--rw src-host-any-sip    union
            |     +--rw src-host-ip         sip
            |     +--rw src-mask            sip-mask
            |     +--rw count?              empty
            |     +--rw log?                empty
            |     +--rw copy-sflow?         empty
            +--rw extended [name]
               +--rw name    ipv6-l3-acl-policy-name
               +--rw seq [seq-id]
                  +--rw seq-id                          ip-access-list:seq-id-std-ext
                  +--rw action                          enumeration
                  +--rw protocol-type                   union
                  +--rw src-host-any-sip                union
                  +--rw src-host-ip                     sip
                  +--rw src-mask                        sip-mask
                  +--rw sport?                          enumeration
                  +--rw sport-number-eq-neq-tcp         union
                  +--rw sport-number-lt-tcp             union
                  +--rw sport-number-gt-tcp             union
                  +--rw sport-number-eq-neq-udp         union
                  +--rw sport-number-lt-udp             union
                  +--rw sport-number-gt-udp             union
                  +--rw sport-number-range-lower-tcp    union
                  +--rw sport-number-range-lower-udp    union
                  +--rw sport-number-range-higher-tcp   union
                  +--rw sport-number-range-higher-udp   union
                  +--rw dst-host-any-dip                union
                  +--rw dst-host-ip                     dip
                  +--rw dst-mask                        dip-mask
                  +--rw dport?                          enumeration
                  +--rw dport-number-eq-neq-tcp         union
                  +--rw dport-number-lt-tcp             union
                  +--rw dport-number-gt-tcp             union
                  +--rw dport-number-eq-neq-udp         union
                  +--rw dport-number-lt-udp             union
                  +--rw dport-number-gt-udp             union
                  +--rw dport-number-range-lower-tcp    union
                  +--rw dport-number-range-lower-udp    union
                  +--rw dport-number-range-higher-tcp   union
                  +--rw dport-number-range-higher-udp   union
                  +--rw dscp?                           union
                  +--rw dscp-force?                     ip-access-list:dscprmrk-uint
                  +--rw drop-precedence-force?          ip-access-list:drop-prec-uint
                  +--rw urg?                            empty
                  +--rw ack?                            empty
                  +--rw push?                           empty
                  +--rw fin?                            empty
                  +--rw rst?                            empty
                  +--rw sync?                           empty
                  +--rw vlan?                           interface:vlan-type
                  +--rw count?                          empty
```

```
                +--rw log?                                empty
                +--rw mirror?                             empty
                +--rw copy-sflow?                         empty
```

External augmentations

```
module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ipv6-access-list:access-group [ipv6-access-list ip-direction]
   |  |  |  |  +--rw ipv6-access-list:ipv6-access-list    ipv6-l3-acl-policy-name /*drop-node-name*/
   |  |  |  |  +--rw ipv6-access-list:ip-direction        enumeration /*drop-node-name*/
   |  |  |  |  +--rw ipv6-access-list:traffic-type?       enumeration /*drop-node-name*/

module: brocade-interface
   +--rw interface
   |  +--rw port-channel [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ipv6-access-list:access-group [ipv6-access-list ip-direction]
   |  |  |  |  +--rw ipv6-access-list:ipv6-access-list    ipv6-l3-acl-policy-name /*drop-node-name*/
   |  |  |  |  +--rw ipv6-access-list:ip-direction        enumeration /*drop-node-name*/
   |  |  |  |  +--rw ipv6-access-list:traffic-type?       enumeration /*drop-node-name*/


module: brocade-interface
   +--rw interface
      +--rw brocade-interface:interface
      |  +--rw brocade-interface:ve [name]
      |  |  +--rw brocade-interface:name              ve-type
      |  |  +--rw ip-access-list:ip-acl-interface /*drop-node-name*/
      |  |  |  +--rw ip-access-list:ip
      |  |  |     +--rw ip-access-list:access-group [ip-access-list ip-direction]
      |  |  |        +--rw ip-access-list:ip-access-list    l3-acl-policy-name
      |  |  |        +--rw ip-access-list:ip-direction      enumeration /*drop-node-name*/


module: brocade-interface
   +--rw interface
   |  +--rw management [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ipv6-access-list:access-group
   |  |  |     +--rw ipv6-access-list:mgmt-ipv6-access-list?   ipv6-l3-acl-policy-name /*drop-node-
name*/
   |  |  |     +--rw ipv6-access-list:mgmt-ip-direction?       enumeration /*drop-node-name*/
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-ipv6-config

Provides a data model to manage the configuration and RPC implementation for an IP access list.

External augmentations

```
module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw ipv6
   |  |  |  +--rw
   |  |  |  |  +--rw ipv6-config:address
   |  |  |  |  |  +--rw ipv6-config:use-link-local-only?   empty
   |  |  |  |  |  +--rw ipv6-config:link-local-config /*drop-node-name*/
   |  |  |  |  |  |  +--rw ipv6-config:link-local-address?   inet:ipv6-address /*drop-node-name*/
   |  |  |  |  |  |  +--rw ipv6-config:link-local?           empty
   |  |  |  |  |  +--rw ipv6-config:ipv6-address [address] /*drop-node-name*/
   |  |  |  |  |     +--rw ipv6-config:address       union
   |  |  |  |  |     +--rw ipv6-config:secondary?    empty
   |  |  |  |  |     +--rw ipv6-config:eui-config /*drop-node-name*/
   |  |  |  |  |     |  +--rw ipv6-config:eui64?           empty /*alt-name:eui-64*/
   |  |  |  |  |     |  +--rw ipv6-config:eui-secondary?   empty /*alt-name:secondary*/
   |  |  |  |  |     +--rw ipv6-config:anycast?      empty
   |  |  |  |  +--rw ipv6-config:mtu?       uint32

module: brocade-interface
   +--rw interface
   |  +--rw port-channel [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ipv6-config:ipv6-config /*drop-node-name*/
   |  |  |  |  +--rw ipv6-config:address
   |  |  |  |  |  +--rw ipv6-config:use-link-local-only?   empty
   |  |  |  |  |  +--rw ipv6-config:link-local-config /*drop-node-name*/
   |  |  |  |  |  |  +--rw ipv6-config:link-local-address?   inet:ipv6-address /*drop-node-name*/
   |  |  |  |  |  |  +--rw ipv6-config:link-local?           empty
   |  |  |  |  |  +--rw ipv6-config:ipv6-address [address] /*drop-node-name*/
   |  |  |  |  |     +--rw ipv6-config:address       union
   |  |  |  |  |     +--rw ipv6-config:secondary?    empty
   |  |  |  |  |     +--rw ipv6-config:eui-config /*drop-node-name*/
   |  |  |  |  |     |  +--rw ipv6-config:eui64?           empty /*alt-name eui-64*/
   |  |  |  |  |     |  +--rw ipv6-config:eui-secondary?   empty /*alt-name secondary*/
   |  |  |  |  |     +--rw ipv6-config:anycast?      empty
   |  |  |  |  +--rw ipv6-config:mtu?       uint32


module: brocade-intf-loopback
   +--rw hide-intf-loopback-holder
      +--rw interface
         +--rw loopback [id]
                                          +--rw ip-config:ip
            |  +--rw ip-config:ip-config
            |     +--rw ip-config:address [address]
            |        +--rw ip-config:address    intf-loopback:intf-loopback-ipv4addr-type
      |     +--ro ipv6-config:ipv6 /*drop-node-name*/
      |        +--ro ipv6-config:ipv6-config
      |        |  +--ro ipv6-config:address
      |        |     +--ro ipv6-config:use-link-local-only?   empty
      |        |     +--ro ipv6-config:link-local-config /*drop-node-name*/
      |        |     |  +--ro ipv6-config:link-local-address?   inet:ipv6-address /*drop-node-name*/
      |        |     |  +--ro ipv6-config:link-local?           empty
      |        |     +--ro ipv6-config:ipv6-address [address]
      |        |        +--ro ipv6-config:address    union /*drop-node-name*/
      |        |        +--ro ipv6-config:eui64?     empty /*alt-name:eui-64*/
      |        |        +--ro ipv6-config:anycast?   empty
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-ipv6-nd-ra

Provides a data model to manage the Neighbor Discovery (ND) and Router Advertisement (RA) configurations.

External augmentations

```
module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ipv6-nd-ra:ipv6-nd-ra /*drop-node-name*/
   |  |  |  |  +--rw ipv6-nd-ra:ipv6-intf-cmds /*drop-node-name*/
   |  |  |  |     +--rw ipv6-nd-ra:vrrp-suppress-interface-ra?   empty
   |  |  |  |     +--rw ipv6-nd-ra:nd
   |  |  |  |     |  +--rw ipv6-nd-ra:managed-config-flag?   empty
   |  |  |  |     |  +--rw ipv6-nd-ra:other-config-flag?     empty
   |  |  |  |     |  +--rw ipv6-nd-ra:broadcast-mac-trap?    empty
   |  |  |  |     |  +--rw ipv6-nd-ra:ra-lifetime?           common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:reachable-time?        common-def:time-interval-msec
   |  |  |  |     |  +--rw ipv6-nd-ra:mtu?                   uint32
   |  |  |  |     |  +--rw ipv6-nd-ra:retrans-timer?         common-def:time-interval-msec
   |  |  |  |     |  +--rw ipv6-nd-ra:hoplimit?              uint32
   |  |  |  |     |  +--rw ipv6-nd-ra:ns-interval?           common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:suppress-ra
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-flag?   empty /*drop-node-name*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-mtu?    empty /*alt-name:mtu*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-all?    empty /*alt-name:all*/
   |  |  |  |     |  +--rw ipv6-nd-ra:ra-interval
   |  |  |  |     |  |  +--rw ipv6-nd-ra:max-interval?   common-def:time-interval-sec /*drop-node-name*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:min?            common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:dad
   |  |  |  |     |  |  +--rw ipv6-nd-ra:attempts?   int32
   |  |  |  |     |  |  +--rw ipv6-nd-ra:time?       common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:cache
   |  |  |  |     |  |  +--rw ipv6-nd-ra:expire?   common-def:time-interval-sec
   |  |  |  |     |  |  +--rw ipv6-nd-ra:refresh?   empty
   |  |  |  |     |  +--rw ipv6-nd-ra:prefix [prefix-ipv6-address]
   |  |  |  |     |     +--rw ipv6-nd-ra:prefix-ipv6-address    inet:ipv6-prefix
   |  |  |  |     +--rw ipv6-nd-ra:neighbor [ipv6-address]
   |  |  |  |        +--rw ipv6-nd-ra:ipv6-address        neighbor-ipv6-address /*drop-node-name*/
   |  |  |  |        +--rw ipv6-nd-ra:hardware-address?   macAddr /*drop-node-name*/
```

```
module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ipv6-nd-ra:ipv6-nd-ra /*drop-node-name*/
   |  |  |  |  +--rw ipv6-nd-ra:ipv6-intf-cmds /*drop-node-name*/
   |  |  |  |     +--rw ipv6-nd-ra:vrrp-suppress-interface-ra?   empty
   |  |  |  |     +--rw ipv6-nd-ra:nd
   |  |  |  |     |  +--rw ipv6-nd-ra:managed-config-flag?   empty
   |  |  |  |     |  +--rw ipv6-nd-ra:other-config-flag?     empty
   |  |  |  |     |  +--rw ipv6-nd-ra:broadcast-mac-trap?    empty
   |  |  |  |     |  +--rw ipv6-nd-ra:ra-lifetime?           common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:reachable-time?        common-def:time-interval-msec
   |  |  |  |     |  +--rw ipv6-nd-ra:mtu?                   uint32
   |  |  |  |     |  +--rw ipv6-nd-ra:retrans-timer?         common-def:time-interval-msec
   |  |  |  |     |  +--rw ipv6-nd-ra:hoplimit?              uint32
   |  |  |  |     |  +--rw ipv6-nd-ra:ns-interval?           common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:suppress-ra
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-flag?   empty /*drop-node-name*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-mtu?    empty /*alt-name:mtu*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-all?    empty /*alt-name:all*/
   |  |  |  |     |  +--rw ipv6-nd-ra:ra-interval
   |  |  |  |     |  |  +--rw ipv6-nd-ra:max-interval?   common-def:time-interval-sec /*drop-node-name*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:min?            common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:dad
```

```
|  |  |  |     |  |  +--rw ipv6-nd-ra:attempts?   int32
|  |  |  |     |  |  +--rw ipv6-nd-ra:time?       common-def:time-interval-sec
|  |  |  |     |  +--rw ipv6-nd-ra:cache
|  |  |  |     |  |  +--rw ipv6-nd-ra:expire?   common-def:time-interval-sec
|  |  |  |     |  |  +--rw ipv6-nd-ra:refresh?   empty
|  |  |  |     |  +--rw ipv6-nd-ra:prefix [prefix-ipv6-address]
|  |  |  |     |     +--rw ipv6-nd-ra:prefix-ipv6-address    inet:ipv6-prefix
|  |  |  |     +--rw ipv6-nd-ra:neighbor [ipv6-address]
|  |  |  |        +--rw ipv6-nd-ra:ipv6-address        neighbor-ipv6-address /*drop-node-name*/
|  |  |  |        +--rw ipv6-nd-ra:hardware-address?   macAddr /*drop-node-name*/
```

```
module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ipv6-nd-ra:ipv6-nd-ra /*drop-node-name*/
   |  |  |  |  +--rw ipv6-nd-ra:ipv6-intf-cmds /*drop-node-name*/
   |  |  |  |     +--rw ipv6-nd-ra:vrrp-suppress-interface-ra?   empty
   |  |  |  |     +--rw ipv6-nd-ra:nd
   |  |  |  |     |  +--rw ipv6-nd-ra:managed-config-flag?   empty
   |  |  |  |     |  +--rw ipv6-nd-ra:other-config-flag?     empty
   |  |  |  |     |  +--rw ipv6-nd-ra:broadcast-mac-trap?    empty
   |  |  |  |     |  +--rw ipv6-nd-ra:ra-lifetime?           common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:reachable-time?        common-def:time-interval-msec
   |  |  |  |     |  +--rw ipv6-nd-ra:mtu?                   uint32
   |  |  |  |     |  +--rw ipv6-nd-ra:retrans-timer?         common-def:time-interval-msec
   |  |  |  |     |  +--rw ipv6-nd-ra:hoplimit?              uint32
   |  |  |  |     |  +--rw ipv6-nd-ra:ns-interval?           common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:suppress-ra
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-flag?   empty /*drop-node-name*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-mtu?    empty /*alt-name:mtu*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-all?    empty /*alt-name:all*/
   |  |  |  |     |  +--rw ipv6-nd-ra:ra-interval
   |  |  |  |     |  |  +--rw ipv6-nd-ra:max-interval?   common-def:time-interval-sec /*drop-node-name*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:min?            common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:dad
   |  |  |  |     |  |  +--rw ipv6-nd-ra:attempts?   int32
   |  |  |  |     |  |  +--rw ipv6-nd-ra:time?       common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:cache
   |  |  |  |     |  |  +--rw ipv6-nd-ra:expire?   common-def:time-interval-sec
   |  |  |  |     |  |  +--rw ipv6-nd-ra:refresh?   empty
   |  |  |  |     |  +--rw ipv6-nd-ra:prefix [prefix-ipv6-address]
   |  |  |  |     |     +--rw ipv6-nd-ra:prefix-ipv6-address    inet:ipv6-prefix
   |  |  |  |     +--rw ipv6-nd-ra:neighbor [ipv6-address]
   |  |  |  |        +--rw ipv6-nd-ra:ipv6-address        neighbor-ipv6-address /*drop-node-name*/
   |  |  |  |        +--rw ipv6-nd-ra:hardware-address?   macAddr /*drop-node-name*/
```

```
module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ipv6-nd-ra:ipv6-nd-ra /*drop-node-name*/
   |  |  |  |  +--rw ipv6-nd-ra:ipv6-intf-cmds /*drop-node-name*/
   |  |  |  |     +--rw ipv6-nd-ra:vrrp-suppress-interface-ra?   empty
   |  |  |  |     +--rw ipv6-nd-ra:nd
   |  |  |  |     |  +--rw ipv6-nd-ra:managed-config-flag?   empty
   |  |  |  |     |  +--rw ipv6-nd-ra:other-config-flag?     empty
   |  |  |  |     |  +--rw ipv6-nd-ra:broadcast-mac-trap?    empty
   |  |  |  |     |  +--rw ipv6-nd-ra:ra-lifetime?           common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:reachable-time?        common-def:time-interval-msec
   |  |  |  |     |  +--rw ipv6-nd-ra:mtu?                   uint32
   |  |  |  |     |  +--rw ipv6-nd-ra:retrans-timer?         common-def:time-interval-msec
   |  |  |  |     |  +--rw ipv6-nd-ra:hoplimit?              uint32
   |  |  |  |     |  +--rw ipv6-nd-ra:ns-interval?           common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:suppress-ra
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-flag?   empty /*drop-node-name*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-mtu?    empty /*alt-name:mtu*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-all?    empty /*alt-name:all*/
   |  |  |  |     |  +--rw ipv6-nd-ra:ra-interval
   |  |  |  |     |  |  +--rw ipv6-nd-ra:max-interval?   common-def:time-interval-sec /*drop-node-name*/
```

```
   |  |  |  |     |  |  +--rw ipv6-nd-ra:min?            common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:dad
   |  |  |  |     |  |  +--rw ipv6-nd-ra:attempts?   uint32
   |  |  |  |     |  |  +--rw ipv6-nd-ra:time?       common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:cache
   |  |  |  |     |  |  +--rw ipv6-nd-ra:expire?   common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:prefix [prefix-ipv6-address]
   |  |  |  |     |     +--rw ipv6-nd-ra:prefix-ipv6-address    inet:ipv6-prefix
   |  |  |  |     |     +--rw ipv6-nd-ra:lifetime /*drop-node-name*/
   |  |  |  |     |        +--rw (ch-valid-type)?
   |  |  |  |     |        |  +--:(ca-no-advertise)
   |  |  |  |     |        |  |  +--rw ipv6-nd-ra:no-advertise?     empty
   |  |  |  |     |        |  +--:(ca-valid-lifetime)
   |  |  |  |     |        |  |  +--rw ipv6-nd-ra:valid-lifetime?   common-def:time-interval-sec /*drop-
node-name*/
   |  |  |  |     |        |  +--:(ca-valid-infinite)
   |  |  |  |     |        |     +--rw ipv6-nd-ra:valid-infinite?   empty /*alt-name:infinite*/
   |  |  |  |     |        +--rw ipv6-nd-ra:preferred /*drop-node-name*/
   |  |  |  |     |           +--rw (ch-preferred-type)?
   |  |  |  |     |           |  +--:(ca-preferred-lifetime)
   |  |  |  |     |           |  |  +--rw ipv6-nd-ra:preferred-lifetime?   common-def:time-interval-
sec /*drop-node-name*/
   |  |  |  |     |           |  +--:(ca-preferred-infinite)
   |  |  |  |     |           |     +--rw ipv6-nd-ra:preferred-infinite?   empty
   |  |  |  |     |           +--rw ipv6-nd-ra:prefix-flags /*drop-node-name*/
   |  |  |  |     |              +--rw ipv6-nd-ra:no-autoconfig?   empty
   |  |  |  |     |              +--rw ipv6-nd-ra:no-onlink?       empty
   |  |  |  |     |              +--rw ipv6-nd-ra:off-link?        empty
   |  |  |  |     +--rw ipv6-nd-ra:neighbor [ipv6-address]
   |  |  |  |        +--rw ipv6-nd-ra:ipv6-address        neighbor-ipv6-address /*drop-node-name*/
   |  |  |  |        +--rw ipv6-nd-ra:hardware-address?   macAddr /*drop-node-name*/


module: brocade-interface
   +--rw interface
   |  +--rw port-channel [name]
   |  |  +--rw ipv6
   |  |  |  +--rw ipv6-nd-ra:ipv6-nd-ra /*drop-node-name*/
   |  |  |  |  +--rw ipv6-nd-ra:ipv6-intf-cmds /*drop-node-name*/
   |  |  |  |     +--rw ipv6-nd-ra:vrrp-suppress-interface-ra?   empty
   |  |  |  |     +--rw ipv6-nd-ra:nd
   |  |  |  |     |  +--rw ipv6-nd-ra:managed-config-flag?   empty
   |  |  |  |     |  +--rw ipv6-nd-ra:other-config-flag?     empty
   |  |  |  |     |  +--rw ipv6-nd-ra:broadcast-mac-trap?    empty
   |  |  |  |     |  +--rw ipv6-nd-ra:ra-lifetime?           common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:reachable-time?        common-def:time-interval-msec
   |  |  |  |     |  +--rw ipv6-nd-ra:mtu?                   uint32
   |  |  |  |     |  +--rw ipv6-nd-ra:retrans-timer?         common-def:time-interval-msec
   |  |  |  |     |  +--rw ipv6-nd-ra:hoplimit?              uint32
   |  |  |  |     |  +--rw ipv6-nd-ra:ns-interval?           common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:proxy?                 empty
   |  |  |  |     |  +--rw ipv6-nd-ra:suppress-ra
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-flag?   empty /*drop-node-name*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-mtu?    empty /*alt-name mtu*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:suppress-ra-all?    empty /*alt-name all*/
   |  |  |  |     |  +--rw ipv6-nd-ra:ra-interval
   |  |  |  |     |  |  +--rw ipv6-nd-ra:max-interval?   common-def:time-interval-sec /*drop-node-name*/
   |  |  |  |     |  |  +--rw ipv6-nd-ra:min?            common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:dad
   |  |  |  |     |  |  +--rw ipv6-nd-ra:attempts?   uint32
   |  |  |  |     |  |  +--rw ipv6-nd-ra:time?       common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:nud
   |  |  |  |     |  |  +--rw ipv6-nd-ra:retry
   |  |  |  |     |  |     +--rw ipv6-nd-ra:base?           int32 /*drop-node-name*/
   |  |  |  |     |  |     +--rw ipv6-nd-ra:interval?       common-def:time-interval-msec /*drop-node-
name*/
   |  |  |  |     |  |     +--rw ipv6-nd-ra:max-attempts?   int32 /*drop-node-name*/
   |  |  |  |     |  +--rw ipv6-nd-ra:cache
   |  |  |  |     |  |  +--rw ipv6-nd-ra:expire?   common-def:time-interval-sec
   |  |  |  |     |  +--rw ipv6-nd-ra:prefix [prefix-ipv6-address]
   |  |  |  |     |     +--rw ipv6-nd-ra:prefix-ipv6-address    inet:ipv6-prefix
   |  |  |  |     |     +--rw ipv6-nd-ra:lifetime /*drop-node-name*/
```

```
   |  |  |  |     |        +--rw (ch-valid-type)?
   |  |  |  |     |        |  +--:(ca-no-advertise)
   |  |  |  |     |        |  |  +--rw ipv6-nd-ra:no-advertise?     empty
   |  |  |  |     |        |  +--:(ca-valid-lifetime)
   |  |  |  |     |        |  |  +--rw ipv6-nd-ra:valid-lifetime?   common-def:time-interval-sec /*drop-
node-name*/
   |  |  |  |     |        |  +--:(ca-valid-infinite)
   |  |  |  |     |        |     +--rw ipv6-nd-ra:valid-infinite?   empty /*alt-name infinite*/
   |  |  |  |     |        +--rw ipv6-nd-ra:preferred /*drop-node-name*/
   |  |  |  |     |           +--rw (ch-preferred-type)?
   |  |  |  |     |           |  +--:(ca-preferred-lifetime)
   |  |  |  |     |           |  |  +--rw ipv6-nd-ra:preferred-lifetime?   common-def:time-interval-
sec /*drop-node-name*/
   |  |  |  |     |           |  +--:(ca-preferred-infinite)
   |  |  |  |     |           |     +--rw ipv6-nd-ra:preferred-infinite?   empty /*alt-name infinite*/
   |  |  |  |     |           +--rw ipv6-nd-ra:prefix-flags /*drop-node-name*/
   |  |  |  |     |              +--rw ipv6-nd-ra:no-autoconfig?   empty
   |  |  |  |     |              +--rw ipv6-nd-ra:no-onlink?       empty
   |  |  |  |     |              +--rw ipv6-nd-ra:off-link?        empty
   |  |  |  |     +--rw ipv6-nd-ra:neighbor [ipv6-address]
   |  |  |  |        +--rw ipv6-nd-ra:ipv6-address        neighbor-ipv6-address /*drop-node-name*/
   |  |  |  |        +--rw ipv6-nd-ra:hardware-address?   macAddr /*drop-node-name*/
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-ipv6-rtm

Provides a data model to manage IP routes.

External augmentations

```
Not found: augment "/common-def:ipv6

module: brocade-vrf
   +--rw vrf [vrf-name]
      +--rw vrf-name          common-def:vrf-name
      +--rw address-family
      |  +--rw ipv6
      |     +--rw unicast?
      |        +--rw max-route?   uint32
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-isis

Manages the Intermediate System to Intermediate System (IS-IS) protocol.

External augmentations

```
module: brocade-interface
       +--rw ip-config:ip
           |  +--rw ip-config:ip-config
           |  |  +--rw ip-config:address [address]
           |  |     +--rw ip-config:address    union
           |  +--rw isis:intf-router-isis
           |  |  +--rw isis:int-router-isis
           |  |     +--rw isis:interface-ip-router-isis?   empty

 module: brocade-interface
          +--rw isis:intf-router-isis
       |  +--rw isis:int-router-isis
       |     +--rw isis:interface-ip-router-isis?   empty

 module: brocade-interface

     +--rw isis:intf-router-isis
     |  +--rw isis:int-router-isis
     |     +--rw isis:interface-ip-router-isis?   empty
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-isis-operational

This management module is an instrumentation to manage ISIS.

Top-level container

```
module: brocade-isis-operational
   +--ro adj-neighbor-entries-state
   |  +--ro adj-neighbor [neighbor-id]
   |     +--ro adj-state-change-time?   uint32
   |     +--ro adj-type?                isis-adj-type
   |     +--ro adj-state?               string
   |     +--ro neighbor-id              string
   |     +--ro circuit-intf-name?       string
   |     +--ro snpa?                    string
   |     +--ro adj-holding-time?        uint8
   |     +--ro adj-priority?            uint8
   |     +--ro adj-mtprot?              isis-adj-prot-type
   |     +--ro adj-prot?                isis-adj-prot-type
   |     +--ro remaining-time?          uint32
   |     +--ro adj-3way-state?          isis-dcm-3way-adj-state
   |     +--ro host-name?               string
   |     +--ro adj-lan-name?            string
   |     +--ro adj-lan-id?              uint8
   |     +--ro adj-p2p-circ-id?         uint32
   |     +--ro adj-num-adds?            uint8
   |     +--ro adj-use?                 isis-spf-level
   |     +--ro ip-circuit-id?           uint32
   |     +--ro adj-address?             inet:ipv4-address
   |     +--ro ip6-circuit-id?          uint32
   |     +--ro adj-ip6-address?         string
   |     +--ro bfd-holdover-interval?   uint8
   |     +--ro adj-bfd-holdover-time?   uint8
   |     +--ro bfd-state?               string
   |     +--ro adj-area [adj-asi-area-name]
   |        +--ro adj-asi-area-name    string
   +--ro counts-state
   |  +--ro areamis?           uint32
   |  +--ro maxareamis?        uint32
   |  +--ro badidlen?          uint32
   |  +--ro seqskip?           uint32
   |  +--ro seqerr?            uint32
   |  +--ro l1dbol?            uint32
   |  +--ro l2dbol?            uint32
   |  +--ro ownpurge?          uint32
   |  +--ro csnp-l1authfail?   uint32
   |  +--ro csnp-l2authfail?   uint32
   |  +--ro psnp-l1authfail?   uint32
   |  +--ro psnp-l2authfail?   uint32
   |  +--ro circ-l1authfail?   uint32
   |  +--ro circ-l2authfail?   uint32
   |  +--ro bad-lsp-log [type-index]
   |     +--ro type-index    uint8
   |     +--ro time-stamp?   uint32
   |     +--ro l1-count?     uint32
   |     +--ro l2-count?     uint32
   +--ro isis-state
   |  +--ro global-isis-info
   |  |  +--ro isis-protocol?                   boolean
   |  |  +--ro isis-state?                      boolean
   |  |  +--ro is-type?                         uint32
   |  |  +--ro system-id?                       string
   |  |  +--ro area-addresses?                  string
   |  |  +--ro database-state-level-1?          string
   |  |  +--ro database-state-level-2?          string
   |  |  +--ro database-state-level-1-2?        string
   |  |  +--ro overload-reason?                 string
   |  |  +--ro check-alarm?                     boolean
```

```
|  |  +--ro overload-state-since?            string
|  |  +--ro overload-state-rem-time?         string
|  |  +--ro admin-distance?                  uint32
|  |  +--ro v6-admin-distance?               uint32
|  |  +--ro max-paths?                       uint32
|  |  +--ro v6-max-paths?                    uint32
|  |  +--ro default-redis-metric?            uint32
|  |  +--ro v6-default-redis-metric?         uint32
|  |  +--ro default-link-metric-l1-conf?     uint32
|  |  +--ro default-link-metric-l1-adv?      uint32
|  |  +--ro default-link-metric-l2-conf?     uint32
|  |  +--ro default-link-metric-l2-adv?      uint32
|  |  +--ro v6-default-link-metric-l1-conf?  uint32
|  |  +--ro v6-default-link-metric-l1-adv?   uint32
|  |  +--ro v6-default-link-metric-l2-conf?  uint32
|  |  +--ro v6-default-link-metric-l2-adv?   uint32
|  |  +--ro redis-protocol?                  string
|  |  +--ro no-routes-redis?                 uint32
|  |  +--ro v6-redis-protocol?               string
|  |  +--ro v6-no-routes-redis?              uint32
|  |  +--ro auth-mode-l1?                    string
|  |  +--ro auth-mode-l2?                    string
|  |  +--ro auth-key-l1?                     string
|  |  +--ro auth-key-l2?                     string
|  |  +--ro l1-auth-no-check?                isis-status
|  |  +--ro l2-auth-no-check?                isis-status
|  |  +--ro metric-style-l1?                 string
|  |  +--ro metric-style-l2?                 string
|  |  +--ro graceful-restart-helper?         boolean
|  |  +--ro pspf-optimization?               boolean
|  |  +--ro spf-max-wait-l1?                 uint32
|  |  +--ro spf-max-wait-l2?                 uint32
|  |  +--ro spf-init-wait-l1?                uint32
|  |  +--ro spf-init-wait-l2?                uint32
|  |  +--ro spf-second-wait-l1?              uint32
|  |  +--ro spf-second-wait-l2?              uint32
|  |  +--ro spf-scheduled-l1?                string
|  |  +--ro spf-scheduled-l2?                string
|  |  +--ro pspf-max-wait?                   uint32
|  |  +--ro pspf-init-wait?                  uint32
|  |  +--ro pspf-second-wait?                uint32
|  |  +--ro pspf-scheduled?                  string
|  |  +--ro spf6-max-wait-l1?                uint32
|  |  +--ro spf6-max-wait-l2?                uint32
|  |  +--ro spf6-init-wait-l1?               uint32
|  |  +--ro spf6-init-wait-l2?               uint32
|  |  +--ro spf6-second-wait-l1?             uint32
|  |  +--ro spf6-second-wait-l2?             uint32
|  |  +--ro spf6-scheduled-l1?               string
|  |  +--ro spf6-scheduled-l2?               string
|  |  +--ro pspf6-max-wait?                  uint32
|  |  +--ro pspf6-init-wait?                 uint32
|  |  +--ro pspf6-second-wait?               uint32
|  |  +--ro pspf6-scheduled?                 string
|  |  +--ro lsp-max-lifetime?                uint32
|  |  +--ro lsp-refresh-interval?            uint32
|  |  +--ro lsp-gen-interval?                uint32
|  |  +--ro lsp-retrans-interval?            uint32
|  |  +--ro lsp-interval?                    uint32
|  |  +--ro snp-csnp-interval?               uint32
|  |  +--ro snp-psnp-interval?               uint32
|  |  +--ro hello-padding?                   boolean
|  |  +--ro hello-padding-ptp?               uint32
|  |  +--ro ptp-handshake?                   boolean
|  |  +--ro bgp-ipv4-converged?              boolean
|  |  +--ro bgp-ipv6-converged?              boolean
|  |  +--ro isis-te?                         boolean
|  |  +--ro isis-shortcuts?                  string
|  |  +--ro isis-reverse-metric?             uint32
|  |  +--ro isis-reverse-metric-wbit?        uint32
|  |  +--ro isis-reverse-metric-sbit?        uint32
|  |  +--ro bfd-enabled?                     boolean
```

```
|  |  +--ro bfd-hold-interval?               uint32
|  |  +--ro nsr-enabled?                     boolean
|  |  +--ro nsr-state?                       string
|  |  +--ro nsr-sync-state?                  boolean
|  |  +--ro isis-is-mp?                      boolean
|  |  +--ro ldp-sync?                        boolean
|  |  +--ro ldp-sync-holddown-time?          uint32
|  +--ro router-isis-config
|  |  +--ro nsr-state?                isis-status
|  |  +--ro lsp-flood-count?          uint16
|  |  +--ro lsp-fast-flood-count?     uint16
|  |  +--ro fast-flood-wait-count?    uint16
|  |  +--ro hello-padding?            isis-status
|  |  +--ro hello-padding-ptp?        isis-status
|  |  +--ro csnp-interval?            uint16
|  |  +--ro lsp-gen-interval?         uint16
|  |  +--ro lsp-interval?             uint32
|  |  +--ro lsp-refresh-interval?     uint16
|  |  +--ro lsp-lifetime?             uint16
|  |  +--ro retransmit-interval?      uint16
|  |  +--ro pspf-enabled?             isis-status
|  |  +--ro ispf-enabled?             isis-status
|  |  +--ro istct-spf-enabled?        isis-status
|  |  +--ro overload-state?           isis-status
|  |  +--ro overload-startup-time?    uint32
|  |  +--ro overload-wait-on-bgp?     isis-status
|  |  +--ro overload-bgp-wait-time?   uint32
|  |  +--ro enable-code-assertions?   isis-status
|  |  +--ro graceful-restart-helper?  isis-status
|  |  +--ro isis-hostname-enabled?    isis-status
|  |  +--ro isis-system-info
|  |  |  +--ro protocol-enabled?   isis-status
|  |  |  +--ro operation-mode?     isis-level
|  |  |  +--ro system-id?          string
|  |  |  +--ro nsap [net-addr]
|  |  |     +--ro length?     uint8
|  |  |     +--ro net-addr    string
|  |  +--ro log-handler
|  |  |  +--ro log-adj-state-change?   isis-status
|  |  |  +--ro log-bad-lsp?            isis-status
|  |  +--ro is-address-family-v4
|  |  |  +--ro afi?                                 isis-afi
|  |  |  +--ro safi?                                isis-safi
|  |  |  +--ro originate-default-route?             isis-status
|  |  |  +--ro originate-default-routemap-name?     string
|  |  |  +--ro default-metric?                      uint16
|  |  |  +--ro l1-default-link-metric?              uint32
|  |  |  +--ro l2-default-link-metric?              uint32
|  |  |  +--ro administrative-distance?             uint32
|  |  |  +--ro maximum-equal-cost-paths?            uint32
|  |  |  +--ro redist-isis
|  |  |  |  +--ro redist-is-l2-to-l1?          isis-status
|  |  |  |  +--ro redist-is-l2-to-l1-prefix?   string
|  |  |  |  +--ro redist-is-l1-to-l2?          isis-status
|  |  |  |  +--ro redist-is-l1-to-l2-prefix?   string
|  |  |  +--ro redist-ospf
|  |  |  |  +--ro redist-enabled?           isis-status
|  |  |  |  +--ro redist-level?             isis-level
|  |  |  |  +--ro redist-metric?            uint32
|  |  |  |  +--ro redist-metric-type?       is-redist-metric-type
|  |  |  |  +--ro redist-routemap-name?     string
|  |  |  |  +--ro ospf-internal-enabled?    isis-status
|  |  |  |  +--ro ospf-external1-enabled?   isis-status
|  |  |  |  +--ro ospf-external2-enabled?   isis-status
|  |  |  +--ro redist-static
|  |  |  |  +--ro redist-enabled?         isis-status
|  |  |  |  +--ro redist-level?           isis-level
|  |  |  |  +--ro redist-metric?          uint32
|  |  |  |  +--ro redist-metric-type?     is-redist-metric-type
|  |  |  |  +--ro redist-routemap-name?   string
|  |  |  +--ro redist-connected
|  |  |  |  +--ro redist-enabled?         isis-status
```

```
|  |  |  |  +--ro redist-level?           isis-level
|  |  |  |  +--ro redist-metric?          uint32
|  |  |  |  +--ro redist-metric-type?     is-redist-metric-type
|  |  |  |  +--ro redist-routemap-name?   string
|  |  |  +--ro redist-rip
|  |  |  |  +--ro redist-enabled?         isis-status
|  |  |  |  +--ro redist-level?           isis-level
|  |  |  |  +--ro redist-metric?          uint32
|  |  |  |  +--ro redist-metric-type?     is-redist-metric-type
|  |  |  |  +--ro redist-routemap-name?   string
|  |  |  +--ro redist-bgp
|  |  |  |  +--ro redist-enabled?         isis-status
|  |  |  |  +--ro redist-level?           isis-level
|  |  |  |  +--ro redist-metric?          uint32
|  |  |  |  +--ro redist-metric-type?     is-redist-metric-type
|  |  |  |  +--ro redist-routemap-name?   string
|  |  |  +--ro l1-wide-metric-enabled?            boolean
|  |  |  +--ro l2-wide-metric-enabled?            boolean
|  |  |  +--ro ldp-sync-enabled?                  isis-status
|  |  |  +--ro ldp-sync-hold-down?                uint16
|  |  |  +--ro summary-address-v4 [address]
|  |  |     +--ro address      inet:ipv4-address
|  |  |     +--ro ipv4-mask?   inet:ipv4-address
|  |  |     +--ro level?       isis-level
|  |  +--ro is-address-family-v6
|  |  |  +--ro afi?                                isis-afi
|  |  |  +--ro safi?                               isis-safi
|  |  |  +--ro originate-default-route?            isis-status
|  |  |  +--ro originate-default-routemap-name?    string
|  |  |  +--ro default-metric?                     uint16
|  |  |  +--ro l1-default-link-metric?             uint32
|  |  |  +--ro l2-default-link-metric?             uint32
|  |  |  +--ro administrative-distance?            uint32
|  |  |  +--ro maximum-equal-cost-paths?           uint32
|  |  |  +--ro redist-isis
|  |  |  |  +--ro redist-is-l2-to-l1?          isis-status
|  |  |  |  +--ro redist-is-l2-to-l1-prefix?   string
|  |  |  |  +--ro redist-is-l1-to-l2?          isis-status
|  |  |  |  +--ro redist-is-l1-to-l2-prefix?   string
|  |  |  +--ro redist-ospf
|  |  |  |  +--ro redist-enabled?           isis-status
|  |  |  |  +--ro redist-level?             isis-level
|  |  |  |  +--ro redist-metric?            uint32
|  |  |  |  +--ro redist-metric-type?       is-redist-metric-type
|  |  |  |  +--ro redist-routemap-name?     string
|  |  |  |  +--ro ospf-internal-enabled?    isis-status
|  |  |  |  +--ro ospf-external1-enabled?   isis-status
|  |  |  |  +--ro ospf-external2-enabled?   isis-status
|  |  |  +--ro redist-static
|  |  |  |  +--ro redist-enabled?         isis-status
|  |  |  |  +--ro redist-level?           isis-level
|  |  |  |  +--ro redist-metric?          uint32
|  |  |  |  +--ro redist-metric-type?     is-redist-metric-type
|  |  |  |  +--ro redist-routemap-name?   string
|  |  |  +--ro redist-connected
|  |  |  |  +--ro redist-enabled?         isis-status
|  |  |  |  +--ro redist-level?           isis-level
|  |  |  |  +--ro redist-metric?          uint32
|  |  |  |  +--ro redist-metric-type?     is-redist-metric-type
|  |  |  |  +--ro redist-routemap-name?   string
|  |  |  +--ro redist-rip
|  |  |  |  +--ro redist-enabled?         isis-status
|  |  |  |  +--ro redist-level?           isis-level
|  |  |  |  +--ro redist-metric?          uint32
|  |  |  |  +--ro redist-metric-type?     is-redist-metric-type
|  |  |  |  +--ro redist-routemap-name?   string
|  |  |  +--ro redist-bgp
|  |  |  |  +--ro redist-enabled?         isis-status
|  |  |  |  +--ro redist-level?           isis-level
|  |  |  |  +--ro redist-metric?          uint32
|  |  |  |  +--ro redist-metric-type?     is-redist-metric-type
|  |  |  |  +--ro redist-routemap-name?   string
```

```
|  |  |  +--ro adjacency-check?                  isis-status
|  |  |  +--ro multi-topology?                   isis-status
|  |  |  +--ro mt-transition-state?              boolean
|  |  |  +--ro summary-prefix-v6 [address]
|  |  |     +--ro address    string
|  |  |     +--ro level?     isis-level
|  |  +--ro reverse-metric
|  |  |  +--ro reverse-metric-value?       uint32
|  |  |  +--ro rev-metric-whole-lan?       isis-status
|  |  |  +--ro rev-metric-te-def-metric?   isis-status
|  |  |  +--ro rev-metric-tlv-type?        uint32
|  |  +--ro debug-handler
|  |  |  +--ro debug-nsr?   isis-status
|  |  +--ro l1-auth-profile
|  |  |  +--ro auth-check?   isis-status
|  |  |  +--ro auth-mode?    auth-mode
|  |  |  +--ro auth-key?     string
|  |  +--ro l2-auth-profile
|  |  |  +--ro auth-check?   isis-status
|  |  |  +--ro auth-mode?    auth-mode
|  |  |  +--ro auth-key?     string
|  |  +--ro l1-spf-timer
|  |  |  +--ro init-delay-time?   uint32
|  |  |  +--ro hold-down-time?    uint32
|  |  |  +--ro max-time?          uint32
|  |  +--ro l2-spf-timer
|  |  |  +--ro init-delay-time?   uint32
|  |  |  +--ro hold-down-time?    uint32
|  |  |  +--ro max-time?          uint32
|  |  +--ro l1-spf6-timer
|  |  |  +--ro init-delay-time?   uint32
|  |  |  +--ro hold-down-time?    uint32
|  |  |  +--ro max-time?          uint32
|  |  +--ro l2-spf6-timer
|  |  |  +--ro init-delay-time?   uint32
|  |  |  +--ro hold-down-time?    uint32
|  |  |  +--ro max-time?          uint32
|  |  +--ro pspf-timer
|  |  |  +--ro init-delay-time?   uint32
|  |  |  +--ro hold-down-time?    uint32
|  |  |  +--ro max-time?          uint32
|  |  +--ro pspf6-timer
|  |     +--ro init-delay-time?   uint32
|  |     +--ro hold-down-time?    uint32
|  |     +--ro max-time?          uint32
|  +--ro host-table
|  |  +--ro hostname-enabled?    boolean
|  |  +--ro isis-router-entry [system-id]
|  |     +--ro system-id    string
|  |     +--ro host-name?   string
|  |     +--ro is-local?    boolean
|  +--ro ipv4-routes
|  |  +--ro total-routes-count?   uint32
|  |  +--ro ipv4-route-entry [ipv4-dest-addr ipv4-subnet-mask ipv4-prefix-len]
|  |     +--ro level?              uint8
|  |     +--ro cost?               uint32
|  |     +--ro tag?                uint32
|  |     +--ro flags?              uint16
|  |     +--ro is-l1-summarized?   boolean
|  |     +--ro is-l2-summarized?   boolean
|  |     +--ro is-summary?         boolean
|  |     +--ro ipv4-dest-addr      inet:ipv4-address
|  |     +--ro ipv4-subnet-mask    inet:ipv4-address
|  |     +--ro ipv4-prefix-len     int8
|  |     +--ro nh-info [outgoing-intf-type outgoing-intf-number]
|  |        +--ro ipv4-nh-addr?           inet:ipv4-address
|  |        +--ro outgoing-intf-type      isis-interface-type
|  |        +--ro outgoing-intf-number    string
|  +--ro ipv6-routes
|  |  +--ro level1-route-count?   uint32
|  |  +--ro level2-route-count?   uint32
|  |  +--ro ecmp-route-count?     uint32
```

```
|  |  +--ro total-routes-count?   uint32
|  |  +--ro ipv6-route-entry [ipv6-dest-addr ipv6-prefix-len]
|  |     +--ro level?              uint8
|  |     +--ro cost?               uint32
|  |     +--ro tag?                uint32
|  |     +--ro flags?              uint16
|  |     +--ro is-l1-summarized?   boolean
|  |     +--ro is-l2-summarized?   boolean
|  |     +--ro is-summary?         boolean
|  |     +--ro ipv6-dest-addr      string
|  |     +--ro ipv6-prefix-len     uint8
|  |     +--ro nh-info [outgoing-intf-type outgoing-intf-number]
|  |        +--ro ipv6-nh-addr?           string
|  |        +--ro outgoing-intf-type      isis-interface-type
|  |        +--ro outgoing-intf-number    string
|  +--ro interface-brief
|  |  +--ro isis-intf-brief [intf-type intf-number]
|  |     +--ro intf-type             isis-interface-type
|  |     +--ro intf-number           string
|  |     +--ro circuit-type?         isis-circ-type
|  |     +--ro is-circuit-passive?   isis-status
|  |     +--ro circuit-mode?         isis-level
|  |     +--ro circ-state?           boolean
|  |     +--ro mtu-size?             uint16
|  |     +--ro circ-adj-up?          uint16
|  |     +--ro circ-changes?         uint32
|  |     +--ro adj-changes?          uint32
|  |     +--ro is-l1-dis?            boolean
|  |     +--ro is-l2-dis?            boolean
|  +--ro interface-detail
|  |  +--ro isis-intf [intf-type intf-number]
|  |     +--ro intf-type              isis-interface-type
|  |     +--ro intf-number            string
|  |     +--ro v4circuit-enabled?     isis-status
|  |     +--ro v6circuit-enabled?     isis-status
|  |     +--ro circuit-id?            uint16
|  |     +--ro circuit-ifid?          uint16
|  |     +--ro circuit-state?         boolean
|  |     +--ro circuit-ip-state?      boolean
|  |     +--ro circuit-ipv6-state?    boolean
|  |     +--ro circuit-mode?          isis-level
|  |     +--ro circuit-type?          isis-circ-type
|  |     +--ro circuit-encap?         isis-circ-encap
|  |     +--ro is-circuit-passive?    isis-status
|  |     +--ro mtu-size?              uint16
|  |     +--ro padding-enabled?       isis-status
|  |     +--ro bfd-enabled?           isis-status
|  |     +--ro circ-chstats
|  |     |  +--ro circ-changes?   uint32
|  |     |  +--ro adj-changes?    uint32
|  |     |  +--ro adj-rej?        uint32
|  |     |  +--ro l1authfail?     uint32
|  |     |  +--ro l2authfail?     uint32
|  |     |  +--ro bad-lsps?       uint32
|  |     |  +--ro ctrl-out?       uint32
|  |     |  +--ro ctrl-in?        uint32
|  |     +--ro mpls-info
|  |     |  +--ro te-enabled?      isis-status
|  |     |  +--ro admin-group?     uint32
|  |     |  +--ro te-metric?       uint32
|  |     |  +--ro max-link-bw?     uint32
|  |     |  +--ro max-reserv-bw?   uint32
|  |     |  +--ro unreserv-bw*     uint32
|  |     +--ro reverse-metric-info
|  |     |  +--ro is-global-config?           boolean
|  |     |  +--ro reverse-metric-value?       uint32
|  |     |  +--ro rev-metric-whole-lan?       isis-status
|  |     |  +--ro rev-metric-te-def-metric?   isis-status
|  |     +--ro ldp-sync-info
|  |     |  +--ro ldp-sync-enabled?      isis-status
|  |     |  +--ro ldp-sync-hold-down?    uint16
|  |     |  +--ro ldp-in-sync?           boolean
```

```
|  |     |  +--ro remain-hd-time?        uint32
|  |     |  +--ro ldp-sync-hd-expired?   boolean
|  |     +--ro circ-metrics [level]
|  |     |  +--ro level              isis-level
|  |     |  +--ro auth-check?        isis-status
|  |     |  +--ro auth-mode?         auth-mode
|  |     |  +--ro auth-key?          string
|  |     |  +--ro circ-metric?       uint32
|  |     |  +--ro ip6-circ-metric?   uint32
|  |     |  +--ro circ-priority?     uint8
|  |     |  +--ro hello-int?         uint32
|  |     |  +--ro hello-mult?        uint32
|  |     |  +--ro dis?               string
|  |     |  +--ro dis-ch?            uint32
|  |     |  +--ro next-hello?        uint32
|  |     |  +--ro active-adj?        uint32
|  |     +--ro ip-info [ip-add]
|  |     |  +--ro ip-add       inet:ipv4-address
|  |     |  +--ro ip-prefix?   uint8
|  |     +--ro ip6-info [ip6-add]
|  |        +--ro ip6-add          inet:ipv6-address
|  |        +--ro ip6-prefix?      uint8
|  |        +--ro is-link-local?   boolean
|  +--ro database [level]
|     +--ro isis-operation?                   boolean
|     +--ro level                             uint32
|     +--ro lsp-level1-count?                 uint32
|     +--ro lsp-level2-count?                 uint32
|     +--ro lsp-level1-loading?               uint32
|     +--ro lsp-level2-loading?               uint32
|     +--ro lsp-level1-fragments?             uint32
|     +--ro lsp-level2-fragments?             uint32
|     +--ro lsp-level1-pseudo?                uint32
|     +--ro lsp-level2-pseudo?                uint32
|     +--ro lsp-level1-pseudo-fragments?      uint32
|     +--ro lsp-level2-pseudo-fragments?      uint32
|     +--ro lsp-level1-my-count?              uint32
|     +--ro lsp-level2-my-count?              uint32
|     +--ro lsp-level1-my-lsp-fragments?      uint32
|     +--ro lsp-level2-my-lsp-fragments?      uint32
|     +--ro lsp-level1-my-pseudo?             uint32
|     +--ro lsp-level2-my-pseudo?             uint32
|     +--ro lsp-level1-my-pseudo-fragments?   uint32
|     +--ro lsp-level2-my-pseudo-fragments?   uint32
|     +--ro lsp-level1-checksum?              uint32
|     +--ro lsp-level2-checksum?              uint32
|     +--ro lsp-entry [lsp-level lsp-id]
|        +--ro lsp-level        uint32
|        +--ro lsp-id           string
|        +--ro lsp-seq-no?      uint32
|        +--ro lsp-checksum?    uint16
|        +--ro lsp-holdtime?    uint32
|        +--ro lsp-att?         uint32
|        +--ro lsp-p?           uint32
|        +--ro lsp-ol?          uint32
|        +--ro lsp-tlv-entry [type]
|           +--ro type             uint32
|           +--ro length?          uint32
|           +--ro value*           binary
|           +--ro sub-tlv-entry [type]
|              +--ro type      uint32
|              +--ro length?   uint32
|              +--ro value*    binary
+--ro traffic-state
|  +--ro l1-hello-rx?   uint32
|  +--ro l1-hello-tx?   uint32
|  +--ro l2-hello-rx?   uint32
|  +--ro l2-hello-tx?   uint32
|  +--ro pp-hello-rx?   uint32
|  +--ro pp-hello-tx?   uint32
|  +--ro l1-lsp-rx?     uint32
|  +--ro l1-lsp-tx?     uint32
```

```
|  +--ro l2-lsp-rx?     uint32
|  +--ro l2-lsp-tx?     uint32
|  +--ro l1-csnp-rx?    uint32
|  +--ro l1-csnp-tx?    uint32
|  +--ro l2-csnp-rx?    uint32
|  +--ro l2-csnp-tx?    uint32
|  +--ro l1-psnp-rx?    uint32
|  +--ro l1-psnp-tx?    uint32
|  +--ro l2-psnp-rx?    uint32
|  +--ro l2-psnp-tx?    uint32
+--ro spf-log-state [spf-log-version]
   +--ro spf-log-version    isis-safi
   +--ro spf-log-levels [level]
      +--ro level                 isis-level
      +--ro log-counts?           uint16
      +--ro spf-trigger-count?    uint16
      +--ro node-count?           uint16
      +--ro spf-log-events [spf-log-index]
         +--ro spf-log-index                   uint16
         +--ro isis-spf-log-reason?            isis-spf-log-reason-code
         +--ro isis-lsp-name?                  string
         +--ro brief-reason?                   string
         +--ro event-count?                    uint16
         +--ro node-count?                     uint16
         +--ro time-stamp-ms?                  uint32
         +--ro duration-ms?                    uint32
         +--ro ipv4-routes?                    uint32
         +--ro ipv6-routes?                    uint32
         +--ro first-trigger-change?           string
         +--ro first-trigger-time-stamp-ms?    uint32
         +--ro first-trigger-detail-reason?    string
         +--ro last-trigger-change?            string
         +--ro last-trigger-time-stamp-ms?     uint32
         +--ro last-trigger-detail-reason?     string
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-lacp

Provides a data model to manage the Link Aggregation Control Protocol (LACP).

Top-level container

```
module: brocade-lacp
   +--rw lacp
      +--rw system-priority?   uint32
```

External augmentations

```
module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw lacp:lacp
   |  |  |  +--rw lacp:timeout?             enumeration
   |  |  |  +--rw lacp:std_port-priority?   uint32 /*alt-name:port-priority*/
   |  |  |  +--rw lacp:default-up?          empty
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-lag

Provides a data model to manage the link aggregation or IEEE 802.1AX-2008 feature.

Top-level container

```
module: brocade-lag
   +--rw port-channel-redundancy-group [group-id]
      +--rw group-id        po-redundancy-group-type
      +--rw port-channel [name]
      |  +--rw name                   interface:portchannel-type
      |  +--rw port-channel-active?   empty
      +--rw activate?       empty
```

RPCs

```
+---x get-port-channel-detail
  |  +--ro input
  |  |  +--ro (request-type)?
  |  |     +--:(get-request)
  |  |     |  +--ro aggregator-id?        interface:portchannel-type
  |  |     +--:(get-next-request)
  |  |        +--ro last-aggregator-id?   interface:portchannel-type
  |  +--ro output
  |     +--ro lacp
  |     |  +--ro aggregator-id?           interface:portchannel-type
  |     |  +--ro aggregator-type?         enumeration
  |     |  +--ro isvlag?                  boolean
  |     |  +--ro aggregator-mode?         enumeration
  |     |  +--ro admin-key?               lacp-key
  |     |  +--ro oper-key?                lacp-key
  |     |  +--ro actor-system-id?         yang:mac-address
  |     |  +--ro partner-system-id?       yang:mac-address
  |     |  +--ro system-priority?         uint32
  |     |  +--ro partner-oper-priority?   uint32
  |     |  +--ro rx-link-count?           uint64
  |     |  +--ro tx-link-count?           uint64
  |     |  +--ro individual-agg?          uint32
  |     |  +--ro ready-agg?               uint32
  |     |  +--ro partner-oper-key?        lacp-key
  |     |  +--ro aggr-member
  |     |     +--ro interface-type?   enumeration
  |     |     +--ro interface-name?   union
  |     |     +--ro actor-port?       uint64
  |     |     +--ro sync?             uint64
  |     +--ro has-more?   boolean
  +---x get-portchannel-info-by-intf
     +--ro input
     |  +--ro interface-type?   enumeration
     |  +--ro interface-name?   union
     +--ro output
        +--ro lacp
           +--ro interface-type?                        enumeration
           +--ro interface-name?                        union
           +--ro actor-port?                            uint64
           +--ro admin-key?                             lacp-key
           +--ro oper-key?                              lacp-key
           +--ro actor-system-id?                       yang:mac-address
           +--ro partner-system-id?                     yang:mac-address
           +--ro system-priority?                       uint32
           +--ro partner-oper-priority?                 uint32
           +--ro actor-priority?                        uint32
           +--ro receive-machine-state?                 enumeration
           +--ro periodic-transmission-machine-state?   enumeration
           +--ro mux-machine-state?                     enumeration
```

```
+--ro admin-state?                    lacp-state
+--ro oper-state?                     lacp-state
+--ro partner-oper-state?             lacp-state
+--ro partner-oper-port?              uint64
+--ro actor-chip-number?              uint32
+--ro actor-max-deskew?               uint32
+--ro partner-chip-number?            uint32
+--ro partner-max-deskew?             uint32
+--ro actor-brcd-state?               brcd-trunk-states
+--ro partner-brcd-state?            brcd-trunk-states
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-lfs

Manages link fault signal (LFS).

Top-level container

```
module: brocade-lfs
+--rw link-fault-signaling
      +--rw rx?   enumeration
      +--rw tx?   enumeration
```

External augmentations

```
module: brocade-interface
   |  |  +--rw lfs:link-fault-signaling
   |  |  |  +--rw lfs:rx?   enumeration
   |  |  |  +--rw lfs:tx?   enumeration
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-license

Provides a data model to manage licenses in a VCS fabric.

This module supports custom actions to perform operations such as installing and uninstalling a license, returning license ID information, returning license key values, and returning licensing information about dynamic Ports on Demand (POD).

Top-level container

```
module: brocade-license
   +--rw license
   |  +---x add
   |  |  +--ro input
   |  |     +--ro (str-file)?
   |  |     |  +--:(licStr)
   |  |     |  |  +--ro licStr     string
   |  |     |  +--:(FTP-URL)
   |  |     |  |  +--ro FTP-URL    string
   |  |     |  +--:(SCP-URL)
   |  |     |     +--ro SCP-URL    string
   |  |     +--ro slot?      uint32
   |  +---x remove
   |  |  +--ro input
   |  |     +--ro licStr    common-def:feature-type
   |  |     +--ro slot?     uint32
   |  +---x eula
   |     +--ro input
   |        +--ro (accept-or-decline)?
   |           +--:(accept)
   |           |  +--ro accept?    eula_features
   |           +--:(decline)
   |              +--ro decline?   eula_features
   +--rw dpod
      +--rw port-id [port-id]
         +--rw port-id      interface:interface-type
         +--rw operation?   license-dpod-operation-type
```

External augmentations

```
module: brocade-common-def
   +--rw show
   |  +--rw brocade-license:license
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-lif

Manages logical interface configuration commands.

External augmentations

```
module: brocade-interface
 +--rw lif:logical-interface
   |  |  |  +--rw lif:port-channel [pc-instance-id]
   |  |  |     +--rw lif:pc-instance-id            lif-port-channel-type
   |  |  |     +--rw lif:pc-cmd-container-dummy
   |  |  |        +--rw lif:service-instance-common-commands-dummy
   |  |  |        |  +--rw lif:shutdown
   |  |  |        |  |  +--rw lif:shutdown-status?   empty
   |  |  |        |  +--rw lif:name
   |  |  |        |     +--rw lif:logical-interface-name?   string
   |  |  |        +--rw lif:service-instance-vlan-cmds-dummy-container
   |  |  |           +--rw lif:get-untagged-vlan-dummy
   |  |  |           |  +--rw lif:untagged
   |  |  |           |     +--rw lif:untagged-vlan
   |  |  |           |        +--rw lif:untagged-vlan-id?   uint32
   |  |  |           +--rw lif:tagged-outer-vlan
   |  |  |              +--rw lif:outer-tagged-vlan-id?   uint32
   |  |  |              +--rw lif:inner-vlan?             empty
   |  |  |              +--rw lif:inner-tagged-vlan-id?   uint32

module: brocade-interface
+--rw lif:logical-interface
   |  |  |  +--rw lif:ethernet [instance-id]
   |  |  |     +--rw lif:instance-id            lif-interface-type
   |  |  |     +--rw lif:cmd-container-dummy
   |  |  |        +--rw lif:service-instance-common-commands-dummy
   |  |  |        |  +--rw lif:shutdown
   |  |  |        |  |  +--rw lif:shutdown-status?   empty
   |  |  |        |  +--rw lif:name
   |  |  |        |     +--rw lif:logical-interface-name?   string
   |  |  |        +--rw lif:service-instance-vlan-cmds-dummy-container
   |  |  |           +--rw lif:get-untagged-vlan-dummy
   |  |  |           |  +--rw lif:untagged
   |  |  |           |     +--rw lif:untagged-vlan
   |  |  |           |        +--rw lif:untagged-vlan-id?   uint32
   |  |  |           +--rw lif:tagged-outer-vlan
   |  |  |              +--rw lif:outer-tagged-vlan-id?   uint32
   |  |  |              +--rw lif:inner-vlan?             empty
   |  |  |              +--rw lif:inner-tagged-vlan-id?   uint3
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-linecard-management

Provides a data model for managing line cards.

Top-level container

```
module: brocade-linecard-management
   +--rw global-lc-holder
   |  +--rw linecard
   |     +--rw linecards [linecardName]
   |        +--rw linecardName    linecardid
   |        +--rw linecardType?   enumeration
   +--rw linecardservice
      +---x power-off
      |  +--ro input
      |     +--ro (blade-type)?
      |        +--:(linecard)
      |        |  +--ro linecard    slotnum
      |        +--:(sfm)
      |           +--ro sfm         sfmnum
      +---x power-on
         +--ro input
            +--ro (blade-type)?
               +--:(linecard)
               |  +--ro linecard    slotnum
               +--:(sfm)
                  +--ro sfm         sfmnum
```

External augmentations

```
module: brocade-common-def
   +--rw show
   |  +--rw linecard-management:linecardinfo /*drop-node-name*/
   |  +--rw linecard-management:sfminfo /*drop-node-name*/
   |  +--rw linecard-management:mminfor /*drop-node-name*/
   |  +--rw linecard-management:slotsinfor  /*drop-node-name*/
```

Actions

Display line card information:

```
module: brocade-common-def
   +--rw show
   |  +--rw linecard-management:linecardinfo
   |  |  +--ro linecard-management:linecard
   |  |     +--ro linecard-management:input
   |  |     +--ro linecard-management:output
```

Display switch fabric module information:

```
module: brocade-common-def
   +--rw show
   |  +--rw linecard-management:sfminfo /*drop-node-name*/
   |  |  +--ro linecard-management:sfm
   |  |     +--ro linecard-management:input
   |  |     +--ro linecard-management:output
```

Display management module information:

```
module: brocade-common-def
   +--rw show
   |  +--rw linecard-management:mminfor /*drop-node-name*/
   |  |  +--ro linecard-management:mm
```

```
   |  |     +--ro linecard-management:input
   |  |     +--ro linecard-management:output
```

Display information about all slots:

```
module: brocade-common-def
   +--rw show
   |  +--rw linecard-management:slotsinfor /*drop-node-name*/
   |  |  +--ro linecard-management:slots
   |  |     +--ro linecard-management:input
   |  |     +--ro linecard-management:output
```

Power off a line card:

```
module: brocade-linecard-management
   +--rw linecardservice /*drop-node-name*/
      +--ro power-off
      |  +--ro input
      |     +--ro (blade-type)?
      |        +--:(linecard)
      |        |  +--ro linecard    slotnum
      |        +--:(sfm)
      |           +--ro sfm         sfmnum
```

Power on a line card:

```
module: brocade-linecard-management
   +--rw linecardservice /*drop-node-name*/
      +--ro power-on
         +--ro input
            +--ro (blade-type)?
               +--:(linecard)
               |  +--ro linecard    slotnum
               +--:(sfm)
                  +--ro sfm         sfmnum
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-lldp

Provides a data model to manage the Link Layer Discovery Protocol (LLDP).

LLDP is a data-link layer protocol, operating above the MAC service layer, that performs basic neighbor discovery. The discovery process involves advertising the network device identity, capabilities, and interconnections on an IEEE 802 LAN network.

The protocol is formally referred to by the IEEE as Station and Media Access Control Connectivity Discovery specified in standards document 802.1AB.

External augmentations

```
module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw lldp:lldp
   |  |  |  +--rw lldp:dcbx-version?     enumeration
   |  |  |  +--rw lldp:disable?          empty
   |  |  |  +--rw lldp:iscsi-priority?   uint32
   |  |  |  +--rw lldp:profile?          string
   |  +--rw ethernet [name]
   |  |  +--rw lldp:lldp
   |  |  |  +--rw lldp:dcbx-version?     enumeration
   |  |  |  +--rw lldp:disable?          empty
   |  |  |  +--rw lldp:iscsi-priority?   uint32
   |  |  |  +--rw lldp:profile?          string
   |  +--rw ethernet [name]
   |  |  +--rw lldp:lldp
   |  |  |  +--rw lldp:dcbx-version?     enumeration
   |  |  |  +--rw lldp:disable?          empty
   |  |  |  +--rw lldp:iscsi-priority?   uint32
   |  |  |  +--rw lldp:profile?          string
   |  +--rw ethernet [name]
   |  |  +--rw lldp:lldp
   |  |  |  +--rw lldp:cee
   |  |  |  |  +--rw lldp:lldp-cee-on-off?   enumeration /*drop-node-name*/
   |  |  |  +--rw lldp:dcbx-version?     enumeration
   |  |  |  +--rw lldp:disable?          empty
   |  |  |  +--rw lldp:iscsi-priority?   uint32
   |  |  |  +--rw lldp:profile?          string
   +--rw protocol
   |  +--rw lldp:lldp?
   |  |  +--rw lldp:description?          string
   |  |  +--rw lldp:hello?                uint32
   |  |  +--rw lldp:mode?                 enumeration
   |  |  +--rw lldp:multiplier?           uint32
   |  |  +--rw lldp:advertise
   |  |  |  +--rw lldp:dcbx-fcoe-app-tlv?            empty
   |  |  |  +--rw lldp:dcbx-fcoe-logical-link-tlv?   empty
   |  |  |  +--rw lldp:dcbx-iscsi-app-tlv?           empty
   |  |  |  +--rw lldp:dcbx-tlv?                     empty
   |  |  |  +--rw lldp:dot1-tlv?                     empty
   |  |  |  +--rw lldp:dot3-tlv?                     empty
   |  |  |  +--rw lldp:optional-tlv
   |  |  |     +--rw lldp:management-address?           empty
   |  |  |     +--rw lldp:port-description?             empty
   |  |  |     +--rw lldp:system-capabilities?          empty
   |  |  |     +--rw lldp:adv-tlv-system-description?   empty /*alt-name:system-description*/
   |  |  |     +--rw lldp:adv-tlv-system-name?          empty /*alt-name:system-name*/
   |  |  +--rw lldp:system-name?          string
   |  |  +--rw lldp:system-description?   string
   |  |  +--rw lldp:iscsi-priority?       uint32
   |  |  +--rw lldp:disable?              empty
   |  |  +--rw lldp:profile [profile-name]
   |  |     +--rw lldp:profile-name    string
```

```
|  |     +--rw lldp:description?    string
|  |     +--rw lldp:hello?          uint32
|  |     +--rw lldp:mode?           enumeration
|  |     +--rw lldp:multiplier?     uint32
|  |     +--rw lldp:advertise
|  |        +--rw lldp:dcbx-fcoe-app-tlv?            empty
|  |        +--rw lldp:dcbx-fcoe-logical-link-tlv?   empty
|  |        +--rw lldp:dcbx-iscsi-app-tlv?           empty
|  |        +--rw lldp:dcbx-tlv?                     empty
|  |        +--rw lldp:dot1-tlv?                     empty
|  |        +--rw lldp:dot3-tlv?                     empty
|  |        +--rw lldp:optional-tlv
|  |           +--rw lldp:management-address?           empty
|  |           +--rw lldp:port-description?             empty
|  |           +--rw lldp:system-capabilities?          empty
|  |           +--rw lldp:adv-tlv-system-description?   empty /*alt-name:system-description*/
|  |           +--rw lldp:adv-tlv-system-name?          empty /*alt-name:system-name*/
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-lldp-ext

An extension to the LLDP model for defining RPCs to retrieve LLDP neighbors in the managed device.

RPCs

```
+---x get-lldp-neighbor-detail
     +--ro input
     |  +--ro (request-type)?
     |     +--:(get-request)
     |     |  +--ro interface-type?      enumeration
     |     |  +--ro interface-name?      union
     |     +--:(get-next-request)
     |        +--ro last-rcvd-ifindex?   uint32
     +--ro output
        +--ro lldp-neighbor-detail [local-interface-name remote-interface-name]
        |  +--ro local-interface-name         string
        |  +--ro local-interface-mac?         interface:mac-address-type
        |  +--ro local-interface-ifindex?     uint64
        |  +--ro remote-interface-name        string
        |  +--ro remote-interface-mac?        interface:mac-address-type
        |  +--ro remote-port-description?     string
        |  +--ro remote-chassis-id?           string
        |  +--ro remote-system-name?          string
        |  +--ro remote-system-description?   string
        |  +--ro dead-interval?               uint64
        |  +--ro remaining-life?              uint64
        |  +--ro lldp-pdu-transmitted?        yang:counter64
        |  +--ro lldp-pdu-received?           yang:counter64
        +--ro has-more?              boolean
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-mac-access-list

Provides a data model for configuring MAC access lists and for applying them to interfaces.

A custom RPC enables retrieval of the configured ingress and egress policies per interface.

Top-level container

```
module: brocade-mac-access-list
   +--rw mac
      +--rw access-list
         +--rw standard [name]
         |  +--rw name                mac-acl-name
         |  +--rw hide-mac-acl-std
         |     +--rw seq [seq-id]
         |        +--rw seq-id               uint64
         |        +--rw action               enumeration
         |        +--rw source               union
         |        +--rw srchost              mac-address-type
         |        +--rw src-mac-addr-mask    src-dst-mac-address-mask-type
         |        +--rw count?               empty
         |        +--rw log?                 empty
         |        +--rw copy-sflow?          empty
         +--rw extended [name]
            +--rw name                mac-acl-name
            +--rw hide-mac-acl-ext
               +--rw seq [seq-id]
                  +--rw seq-id                   uint64
                  +--rw action                   enumeration
                  +--rw source                   union
                  +--rw srchost                  mac-address-type
                  +--rw src-mac-addr-mask        src-dst-mac-address-mask-type
                  +--rw dst                      union
                  +--rw dsthost                  mac-address-type
                  +--rw dst-mac-addr-mask        src-dst-mac-address-mask-type
                  +--rw ethertype?               union
                  +--rw vlan?                    interface:vlan-type
                  +--rw pcp?                     pcp-value
                  +--rw pcp-force?               pcp-remark
                  +--rw drop-precedence-force?   drop-prec-uint
                  +--rw count?                   empty
                  +--rw log?                     empty
                  +--rw mirror?                  empty
                  +--rw copy-sflow?              empty
```

External augmentations

```
module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw mac-access-list:mac
   |  |  |  +--rw mac-access-list:access-group [mac-access-list mac-direction]
   |  |  |     +--rw mac-access-list:mac-access-list    mac-acl-name /*drop-node-name*/
   |  |  |     +--rw mac-access-list:mac-direction      enumeration /*drop-node-name*/
   |  |  |     +--rw mac-access-list:traffic-type?      enumeration
   |  +--rw port-channel [name]
   |  |  +--rw mac-access-list:mac
   |  |  |  +--rw mac-access-list:access-group [mac-access-list mac-direction]
   |  |  |     +--rw mac-access-list:mac-access-list    mac-acl-name /*drop-node-name*/
   |  |  |     +--rw mac-access-list:mac-direction      enumeration /*drop-node-name*/
   |  |  |     +--rw mac-access-list:traffic-type?      enumeration /*drop-node-name*/
   +--rw interface-vlan
   |  +--rw interface
   |     |  +--rw mac-access-list:mac
   |     |  |  +--rw mac-access-list:access-group [mac-access-list mac-direction]
```

```
|     |  |     +--rw mac-access-list:mac-access-list    mac-acl-name /*drop-node-name*/
|     |  |     +--rw mac-access-list:mac-direction      enumeration /*drop-node-name*/
|     |  |     +--rw mac-access-list:traffic-type?      enumeration /*drop-node-name*/
```

RPCs

Return the ingress and egress policies for an interface:

```
+---x get-mac-acl-for-intf
      +--ro input
      |  +--ro direction?   enumeration
      +--ro output
         +--ro interface [interface-type interface-name]
            +--ro ingress-policy
            |  +--ro policy-name?   string
            +--ro egress-policy
               +--ro policy-name?   string
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-mac-address-table

Provides a data model for configuring the MAC address table and returning information about the MAC address table through the get-mac-address-table custom RPC.

Top-level container

```
module: brocade-mac-address-table
   +--rw mac-address-table
      +--rw static
      |  +--rw static-mac [mac-address forward interface-type interface-name vlan vlanid]
      |  |  +--rw mac-address       mac-access-list:mac-address-type
      |  |  +--rw forward           enumeration
      |  |  +--rw interface-type    enumeration
      |  |  +--rw interface-name    string
      |  |  +--rw vlan              enumeration
      |  |  +--rw vlanid            interface:vlan-type
      |  +--rw static-ac-lif [mac-address-lif forward-lif logical-interface interface-type-lif logical-
interface-name]
      |     +--rw mac-address-lif          mac-access-list:mac-address-type
      |     +--rw forward-lif              enumeration
      |     +--rw logical-interface        enumeration
      |     +--rw interface-type-lif       enumeration
      |     +--rw logical-interface-name   logical-ifname
      +--rw aging-time
      |  +--rw legacy-time-out?   uint32
      +--rw mac-move
      |  +--rw mac-move-detect-enable?   empty
      |  +--rw mac-move-limit?           uint32
      +--rw consistency-check
         +--rw mac-consistency-check-suppress?   empty
         +--rw mac-consistency-check-interval?   uint32
```

RPCs

```
+---x get-mac-address-table
     +--ro input
     |  +--ro (request-type)?
     |     +--:(get-request)
     |     |  +--ro mac-address?               yang:mac-address
     |     +--:(get-next-request)
     |        +--ro last-mac-address-details
     |           +--ro last-mac-address?   yang:mac-address
     |           +--ro last-vlan-id?       interface:vlan-type
     |           +--ro last-mac-type?      enumeration
     +--ro output
        +--ro mac-address-table [vlanid mac-address]
        |  +--ro vlanid                  interface:vlan-type
        |  +--ro mac-address             yang:mac-address
        |  +--ro mac-type?               enumeration
        |  +--ro mac-state?              enumeration
        |  +--ro forwarding-interface
        |     +--ro interface-type?   enumeration
        |     +--ro interface-name?   union
        +--ro has-more?            boolean
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-mc-hms-operational

Manages the multicast operational information.

Top-level container

```
module: brocade-mc-hms-operational
   +--ro igmp-snooping-state
   |  +--ro multicast-ssm-mapping
   |  |  +--ro ssm-maps [prefix-list-name]
   |  |     +--ro prefix-list-name    string
   |  |     +--ro src-ip-addr?        inet:ipv4-address
   |  +--ro igmp-statistics
   |  |  +--ro igmp-statistics [interface-name]
   |  |     +--ro interface-name              string
   |  |     +--ro query-edge-recvd?           uint32
   |  |     +--ro query-edge-sent?            uint32
   |  |     +--ro query-edge-rx-errors?       uint32
   |  |     +--ro v1-report-edge-recvd?       uint32
   |  |     +--ro v1-report-edge-sent?        uint32
   |  |     +--ro v1-report-edge-rx-errors?   uint32
   |  |     +--ro v2-report-edge-recvd?       uint32
   |  |     +--ro v2-report-edge-sent?        uint32
   |  |     +--ro v2-report-edge-rx-errors?   uint32
   |  |     +--ro v3-report-edge-recvd?       uint32
   |  |     +--ro v3-report-edge-sent?        uint32
   |  |     +--ro v3-report-edge-rx-errors?   uint32
   |  |     +--ro grp-leave-edge-recvd?       uint32
   |  |     +--ro grp-leave-edge-sent?        uint32
   |  |     +--ro grp-leave-edge-rx-errors?   uint32
   |  |     +--ro pim-hello-edge-recvd?       uint32
   |  |     +--ro pim-hello-edge-sent?        uint32
   |  |     +--ro pim-hello-edge-rx-errors?   uint32
   |  |     +--ro error-unknown-types?        uint32
   |  |     +--ro error-bad-length?           uint32
   |  |     +--ro error-bad-checksum?         uint32
   |  +--ro debug-igmp
   |  |  +--ro enable-any?      uint8
   |  |  +--ro error?           uint8
   |  |  +--ro events?          uint8
   |  |  +--ro group?           uint8
   |  |  +--ro packets?         uint8
   |  |  +--ro grp-addr?        inet:ipv4-address
   |  |  +--ro protocol?        uint8
   |  |  +--ro query?           uint8
   |  |  +--ro v1-report?       uint8
   |  |  +--ro direction?       string
   |  |  +--ro phy-port-name?   string
   |  |  +--ro io-port-name?    string
   |  +--ro igmp-snooping-vlans [vlan-id]
   |  |  +--ro vlan-id                uint32
   |  |  +--ro igmp-snooping-vlans [vlan-id]
   |  |     +--ro vlan-id                     uint32
   |  |     +--ro multicast-router-ports?     string
   |  |     +--ro is-querier?                 uint8
   |  |     +--ro igmp-operation-mode?        uint32
   |  |     +--ro fast-leave?                 uint8
   |  |     +--ro qmrt?                       uint32
   |  |     +--ro lmqi?                       uint32
   |  |     +--ro qi?                         uint32
   |  |     +--ro version?                    uint8
   |  |     +--ro lmqc?                       uint8
   |  |     +--ro sqi?                        uint16
   |  |     +--ro sqc?                        uint16
   |  |     +--ro rv?                         uint8
   |  |     +--ro rum?                        uint8
   |  |     +--ro num-of-mcast-grps?          uint32
   |  |     +--ro vlan-groups [grp-ip-addr]
```

```
|  |        +--ro grp-ip-addr     uint32
|  |        +--ro member-ports?   string
|  +--ro igmp-snooping-mrouters [vlan-id]
|  |  +--ro vlan-id                  uint32
|  |  +--ro igmp-snooping-mrouters [vlan-id]
|  |     +--ro vlan-id           uint32
|  |     +--ro interface-name?   string
|  |     +--ro expiry-time?      int32
|  +--ro igmp-l3-interfaces [interface-name]
|  |  +--ro interface-name        string
|  |  +--ro igmp-l3-interfaces [interface-name]
|  |     +--ro interface-name               string
|  |     +--ro is-igmp-enabled?             uint8
|  |     +--ro query-interval?              uint32
|  |     +--ro other-querier-interval?      uint32
|  |     +--ro query-reponse-time?          uint32
|  |     +--ro last-member-query-interval?  uint32
|  |     +--ro immediate-leave?             uint8
|  |     +--ro igmp-querier?                uint32
|  |     +--ro is-igmp-querier-local?       uint8
|  +--ro igmp-groups [group-addr interface-name]
|  |  +--ro group-addr        inet:ipv4-address
|  |  +--ro interface-name    string
|  |  +--ro igmp-groups [group-addr interface-name]
|  |     +--ro group-addr        uint32
|  |     +--ro interface-name    string
|  |     +--ro uptime?           string
|  |     +--ro expiry-time?      string
|  |     +--ro last-reporter?    uint32
|  |     +--ro filter-mode?      uint8
|  |     +--ro member-ship?      string
|  |     +--ro igmpv3-sources [interface-name]
|  |        +--ro interface-name    string
|  |        +--ro incl-src-ip [ipv4-addr]
|  |        |  +--ro ipv4-addr    uint32
|  |        +--ro excl-src-ip [ipv4-addr]
|  |           +--ro ipv4-addr    uint32
|  +--ro pim-snp-groups [vlan-id]
|  |  +--ro vlan-id           uint32
|  |  +--ro pim-snp-groups [group-addr vlan-id]
|  |     +--ro group-addr                uint32
|  |     +--ro vlan-id                   uint32
|  |     +--ro uptime?                   string
|  |     +--ro expiry-time?              string
|  |     +--ro last-reporter?            uint32
|  |     +--ro pim-snp-sources [src-addr]
|  |     |  +--ro src-addr                  uint32
|  |     |  +--ro src-flags?                uint8
|  |     |  +--ro src-uptime?               string
|  |     |  +--ro pim-snp-sg-member-ports [interface-name]
|  |     |     +--ro interface-name    string
|  |     |     +--ro mbr-flags?        uint8
|  |     |     +--ro flag-string?      string
|  |     |     +--ro mbr-uptime?       string
|  |     +--ro pim-snp-wg-member-ports [interface-name]
|  |        +--ro interface-name    string
|  |        +--ro mbr-flags?        uint8
|  |        +--ro flag-string?      string
|  |        +--ro mbr-uptime?       string
|  +--ro igmp-multicast-snooping-vlans [vlan-id]
|  |  +--ro vlan-id                          uint32
|  |  +--ro igmp-multicast-snooping-vlans [vlan-id]
|  |     +--ro vlan-id           uint32
|  |     +--ro pim-sn-status?    uint8
|  |     +--ro igmp-sn-status?   uint8
|  |     +--ro igmp-version?     uint8
|  +--ro igmp-interface-statistics
|     +--ro interface-name?             string
|     +--ro query-edge-recvd?           uint32
|     +--ro query-edge-sent?            uint32
|     +--ro query-edge-rx-errors?       uint32
|     +--ro v1-report-edge-recvd?       uint32
```

```
|     +--ro v1-report-edge-sent?        uint32
|     +--ro v1-report-edge-rx-errors?   uint32
|     +--ro v2-report-edge-recvd?       uint32
|     +--ro v2-report-edge-sent?        uint32
|     +--ro v2-report-edge-rx-errors?   uint32
|     +--ro v3-report-edge-recvd?       uint32
|     +--ro v3-report-edge-sent?        uint32
|     +--ro v3-report-edge-rx-errors?   uint32
|     +--ro grp-leave-edge-recvd?       uint32
|     +--ro grp-leave-edge-sent?        uint32
|     +--ro grp-leave-edge-rx-errors?   uint32
|     +--ro pim-hello-edge-recvd?       uint32
|     +--ro pim-hello-edge-sent?        uint32
|     +--ro pim-hello-edge-rx-errors?   uint32
|     +--ro error-unknown-types?        uint32
|     +--ro error-bad-length?           uint32
|     +--ro error-bad-checksum?         uint32
+--ro igmp-static-groups-state [group-addr interface-name]
   +--ro group-addr            inet:ipv4-address
   +--ro interface-name        string
   +--ro igmp-static-groups [group-addr interface-name]
      +--ro group-addr        uint32
      +--ro interface-name    string
      +--ro uptime?           string
      +--ro expiry-time?      string
      +--ro last-reporter?    uint32
      +--ro filter-mode?      uint8
      +--ro member-ship?      string
      +--ro igmpv3-sources [interface-name]
         +--ro interface-name    string
         +--ro incl-src-ip [ipv4-addr]
         |  +--ro ipv4-addr    uint32
         +--ro excl-src-ip [ipv4-addr]
            +--ro ipv4-addr    uint32
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-mct

Manages the multi-chassis trunking (MCT) state.

Top-level container

```
module: brocade-mct
   +--rw cluster [cluster-name cluster-id]
      +--rw cluster-name                      common-def:name-string64
      +--rw cluster-id                        uint32
      +--rw member
      |  +--rw vlan
      |  |  +--rw add?      ui32-vlan-range
      |  |  +--rw remove?   ui32-vlan-range
      |  +--rw bridge-domain
      |     +--rw add-bd?      ui32-bd-range
      |     +--rw remove-bd?   ui32-bd-range
      +--rw cluster-control-vlan?             uint16
      +--rw peer-interface
      |  +--rw peer-if-type?   enumeration
      |  +--rw peer-if-name?   string-type
      +--rw peer [peer-ip]
      |  +--rw peer-ip    inet:ipv4-address
      +--rw client-interfaces-shutdown?       empty
      +--rw client-isolation-strict?          empty
      +--rw df-load-balance?                  empty
      +--rw designated-forwarder-hold-time?   uint16
      +--rw deploy?                           empty
      +--rw client [client-name client-id]
         +--rw client-name         string
         +--rw client-id           uint32
         +--rw client-interface
         |  +--rw if-type?    enumeration
         |  +--rw if-value?   string-type
         +--rw esi?                cluste
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-mpls-operational

Manages the MPLS operational information.

Top-level container

```
module: brocade-mpls-operational
   +--ro mpls-state
      +--ro ldp
      |  +--ro ldp-out
      |  |  +--ro ldp-initialized?                                boolean
      |  |  +--ro lsr-id?                                         inet:ipv4-address
      |  |  +--ro lsr-id-configured?                              boolean
      |  |  +--ro loopback?                                       uint8
      |  |  +--ro hello-interval-link?                            uint32
      |  |  +--ro hello-interval-target?                          uint32
      |  |  +--ro hold-time-sent-link?                            uint32
      |  |  +--ro hold-time-sent-target?                          uint32
      |  |  +--ro ka-interval?                                    uint32
      |  |  +--ro ka-multiple?                                    uint32
      |  |  +--ro ka-timeout?                                     uint32
      |  |  +--ro ka-timeout-default?                             boolean
      |  |  +--ro load-sharing?                                   uint8
      |  |  +--ro advertise-fecs-for-prefix-list?                 string
      |  |  +--ro advertise-fecs-for-prefix-list-exists?          boolean
      |  |  +--ro inbound-fecs-filtering-prefix-list?             string
      |  |  +--ro inbound-fecs-filtering-prefix-list-exists?      boolean
      |  |  +--ro outbound-fecs-filtering-prefix-list?            string
      |  |  +--ro outbound-fecs-filtering-prefix-list-exists?     boolean
      |  |  +--ro tunnel-metric?                                  uint16
      |  |  +--ro fec-128-used-for-auto-disc-current?             boolean
      |  |  +--ro fec-128-used-for-auto-disc-configured?          boolean
      |  |  +--ro end-of-lib?                                     boolean
      |  |  +--ro eol-notification-time?                          uint32
      |  |  +--ro tx-silence-time?                                uint32
      |  |  +--ro rx-silence-time?                                uint32
      |  |  +--ro gr-enable?                                      boolean
      |  |  +--ro gr-helper?                                      boolean
      |  |  +--ro gr-reconnect-time?                              uint32
      |  |  +--ro gr-max-peer-reconnect-time?                     uint32
      |  |  +--ro gr-recovery-time?                               uint32
      |  |  +--ro gr-max-peer-recovery-time?                      uint32
      |  |  +--ro forwarding-state-timer-running?                 boolean
      |  |  +--ro forwarding-state-timer-remaining?               uint32
      |  |  +--ro lwd-delay?                                      uint32
      |  |  +--ro lwd-default?                                    boolean
      |  +--ro interface
      |  |  +--ro ldp-interface-data [ldp-interface-name ldp-interface-type]
      |  |     +--ro ldp-interface-name              string
      |  |     +--ro ldp-interface-type              string
      |  |     +--ro ldp-interface-lbpsp?            uint32
      |  |     +--ro ldp-interface-nbr-cnt?          uint32
      |  |     +--ro ldp-interface-hello-intl?       uint32
      |  |     +--ro ldp-interface-hello-timeout?    uint32
      |  |     +--ro ldp-interface-hello-next?       uint32
      |  +--ro ldp-neighbors
      |  |  +--ro num-link-neighbors?       uint32
      |  |  +--ro num-targeted-neighbors?   uint32
      |  |  +--ro neighbor [neighbor-ldpid labelspaceid]
      |  |     +--ro neighbor-ldpid                  inet:ipv4-address
      |  |     +--ro labelspaceid                    uint8
      |  |     +--ro neighbor-transport?             inet:ipv4-address
      |  |     +--ro interface-name?                 string
      |  |     +--ro max-hold-time?                  uint32
      |  |     +--ro time-left?                      uint32
      |  |     +--ro up-time?                        string
      |  |     +--ro configured-hold-time?           uint32
      |  |     +--ro neighbor-proposed-hold-time?    uint32
```

```
|  +--ro ldp-session-summary
|  |  +--ro num-link-sessions?                  uint32
|  |  +--ro num-operational-link-sessions?      uint32
|  |  +--ro num-targeted-sessions?              uint32
|  |  +--ro num-operational-targeted-sessions?  uint32
|  +--ro fec
|  |  +--ro ldp-fec-summary
|  |  |  +--ro tot-no-of-prefix-fec?             uint32
|  |  |  +--ro tot-no-of-prefix-fec-installed?   uint32
|  |  |  +--ro tot-no-of-prefix-fec-filtered?    uint32
|  |  |  +--ro tot-no-of-vc-fec-128?             uint32
|  |  |  +--ro tot-no-of-vc-fec-129?             uint32
|  |  |  +--ro tot-no-of-vc-fec-installed?       uint32
|  |  |  +--ro tot-no-of-route-upd-proc-errors?  uint32
|  |  |  +--ro tot-no-of-vc-fec-proc-errors?     uint32
|  |  +--ro ldp-fec-prefixes
|  |  |  +--ro tot-no-of-prefix-fec?             uint32
|  |  |  +--ro tot-no-of-prefix-fec-installed?   uint32
|  |  |  +--ro tot-no-of-prefix-fec-filtered?    uint32
|  |  |  +--ro tot-no-of-prefix-fec-lwd?         uint32
|  |  |  +--ro filtered?                         fec-filter-type
|  |  |  +--ro prefix-filtered?                  string
|  |  |  +--ro prefix [destination]
|  |  |  |  +--ro destination    string
|  |  |  |  +--ro state?         string
|  |  |  |  +--ro ingress?       string
|  |  |  |  +--ro egress?        string
|  |  |  |  +--ro filtered?      string
|  |  |  |  +--ro lwd?           string
|  |  |  |  +--ro nexthops [nexthop]
|  |  |  |     +--ro nexthop     string
|  |  |  |     +--ro out-intf?   string
|  |  |  +--ro key
|  |  |     +--ro type?                     uint8
|  |  |     +--ro prefix-len?               uint8
|  |  |     +--ro inet-addr-type?           uint8
|  |  |     +--ro inet-addr-len?            uint8
|  |  |     +--ro inet-addr?                string
|  |  |     +--ro vc-ldp-peer-id?           string
|  |  |     +--ro data-fec-type?            uint8
|  |  |     +--ro vc-type?                  uint16
|  |  |     +--ro vc-control-word-config?   uint8
|  |  |     +--ro vc-use-control-word?      uint8
|  |  |     +--ro vc-group-id?              uint32
|  |  |     +--ro vc-id?                    uint32
|  |  |     +--ro vc-agi-offset?            uint8
|  |  |     +--ro vc-agi-len?               uint8
|  |  |     +--ro vc-saii-offset?           uint8
|  |  |     +--ro vc-saii-len?              uint8
|  |  |     +--ro vc-taii-offset?           uint8
|  |  |     +--ro vc-taii-len?              uint8
|  |  |     +--ro vc-gen-id-size?           uint16
|  |  |     +--ro vc-gen-id?                string
|  |  +--ro ldp-fec-vcs
|  |  |  +--ro tot-no-of-vc-fec?             uint32
|  |  |  +--ro tot-no-of-vc-fec-installed?   uint32
|  |  |  +--ro vc [peer-id]
|  |  |  |  +--ro peer-id          inet:ipv4-address
|  |  |  |  +--ro peer-lblspc?     uint32
|  |  |  |  +--ro state?           string
|  |  |  |  +--ro vc-id?           uint32
|  |  |  |  +--ro peer-vc-type?    uint32
|  |  |  |  +--ro peer-fec-type?   uint32
|  |  |  |  +--ro ingress?         string
|  |  |  |  +--ro egress?          string
|  |  |  +--ro key
|  |  |     +--ro type?                     uint8
|  |  |     +--ro prefix-len?               uint8
|  |  |     +--ro inet-addr-type?           uint8
|  |  |     +--ro inet-addr-len?            uint8
|  |  |     +--ro inet-addr?                string
|  |  |     +--ro vc-ldp-peer-id?           string
```

```
|  |  |     +--ro data-fec-type?            uint8
|  |  |     +--ro vc-type?                  uint16
|  |  |     +--ro vc-control-word-config?   uint8
|  |  |     +--ro vc-use-control-word?      uint8
|  |  |     +--ro vc-group-id?              uint32
|  |  |     +--ro vc-id?                    uint32
|  |  |     +--ro vc-agi-offset?            uint8
|  |  |     +--ro vc-agi-len?               uint8
|  |  |     +--ro vc-saii-offset?           uint8
|  |  |     +--ro vc-saii-len?              uint8
|  |  |     +--ro vc-taii-offset?           uint8
|  |  |     +--ro vc-taii-len?              uint8
|  |  |     +--ro vc-gen-id-size?           uint16
|  |  |     +--ro vc-gen-id?                string
|  |  +--ro ldp-fec-prefix-longer [prefix]
|  |  |  +--ro prefix           string
|  |  |  +--ro prefix-prefix [prefix]
|  |  |  |  +--ro prefix                  string
|  |  |  |  +--ro prefix-feccb?           uint32
|  |  |  |  +--ro prefix-idx?             uint32
|  |  |  |  +--ro prefix-type?            uint32
|  |  |  |  +--ro prefix-pend-notif?      string
|  |  |  |  +--ro prefix-state?           string
|  |  |  |  +--ro prefix-ingress?         string
|  |  |  |  +--ro prefix-egress?          string
|  |  |  |  +--ro prefix-um-dist-done?    string
|  |  |  |  +--ro prefix-lwd?             string
|  |  |  |  +--ro prefix-lwd-started?     string
|  |  |  |  +--ro prefix-is-ldp-o-rsvp?   boolean
|  |  |  |  +--ro prefix-excess-dms?      boolean
|  |  |  |  +--ro prefix-nexthops [nexthop]
|  |  |  |  |  +--ro nexthop     string
|  |  |  |  |  +--ro out-intf?   string
|  |  |  |  +--ro prefix-downstream [local-ldp-id]
|  |  |  |  |  +--ro local-ldp-id          inet:ipv4-address
|  |  |  |  |  +--ro local-ldp-lblspc?     uint32
|  |  |  |  |  +--ro peer-ldp-id?          inet:ipv4-address
|  |  |  |  |  +--ro peer-ldp-lblspc?      uint32
|  |  |  |  |  +--ro label?                uint32
|  |  |  |  |  +--ro state?                string
|  |  |  |  |  +--ro fec-filtered-state?   uint32
|  |  |  |  |  +--ro fec-stale?            uint32
|  |  |  |  |  +--ro feccb?                uint32
|  |  |  |  |  +--ro fec-dm-state-dw?      uint32
|  |  |  |  +--ro prefix-upstream [local-ldp-id]
|  |  |  |     +--ro local-ldp-id          inet:ipv4-address
|  |  |  |     +--ro local-ldp-lblspc?     uint32
|  |  |  |     +--ro peer-ldp-id?          inet:ipv4-address
|  |  |  |     +--ro peer-ldp-lblspc?      uint32
|  |  |  |     +--ro label?                uint32
|  |  |  |     +--ro state?                string
|  |  |  |     +--ro fec-filtered-state?   uint32
|  |  |  |     +--ro fec-stale?            uint32
|  |  |  |     +--ro feccb?                uint32
|  |  |  |     +--ro fec-dm-state-dw?      uint32
|  |  |  +--ro key
|  |  |     +--ro type?                     uint8
|  |  |     +--ro prefix-len?               uint8
|  |  |     +--ro inet-addr-type?           uint8
|  |  |     +--ro inet-addr-len?            uint8
|  |  |     +--ro inet-addr?                string
|  |  |     +--ro vc-ldp-peer-id?           string
|  |  |     +--ro data-fec-type?            uint8
|  |  |     +--ro vc-type?                  uint16
|  |  |     +--ro vc-control-word-config?   uint8
|  |  |     +--ro vc-use-control-word?      uint8
|  |  |     +--ro vc-group-id?              uint32
|  |  |     +--ro vc-id?                    uint32
|  |  |     +--ro vc-agi-offset?            uint8
|  |  |     +--ro vc-agi-len?               uint8
|  |  |     +--ro vc-saii-offset?           uint8
|  |  |     +--ro vc-saii-len?              uint8
```

```
|  |  |     +--ro vc-taii-offset?           uint8
|  |  |     +--ro vc-taii-len?              uint8
|  |  |     +--ro vc-gen-id-size?           uint16
|  |  |     +--ro vc-gen-id?                string
|  |  +--ro ldp-fec-vcid [vc-id]
|  |  |  +--ro vc-id                   uint32
|  |  |  +--ro vc-feccb?               uint32
|  |  |  +--ro vc-idx?                 uint32
|  |  |  +--ro vc-fec-type?            uint32
|  |  |  +--ro prefix-pend-notif?      string
|  |  |  +--ro prefix-state?           string
|  |  |  +--ro prefix-ingress?         string
|  |  |  +--ro prefix-egress?          string
|  |  |  +--ro prefix-um-dist-done?    string
|  |  |  +--ro vc-type?                uint32
|  |  |  +--ro vc-grp-id?              uint32
|  |  |  +--ro vc-local-mtu?           uint32
|  |  |  +--ro vc-remote-mtu?          uint32
|  |  |  +--ro vc-mtu-enforcement?     uint32
|  |  |  +--ro vc-agi?                 string
|  |  |  +--ro vc-downstream [local-ldp-id]
|  |  |  |  +--ro local-ldp-id          inet:ipv4-address
|  |  |  |  +--ro local-ldp-lblspc?     uint32
|  |  |  |  +--ro peer-ldp-id?          inet:ipv4-address
|  |  |  |  +--ro peer-ldp-lblspc?      uint32
|  |  |  |  +--ro label?                uint32
|  |  |  |  +--ro state?                string
|  |  |  |  +--ro fec-filtered-state?   uint32
|  |  |  |  +--ro fec-stale?            uint32
|  |  |  |  +--ro feccb?                uint32
|  |  |  |  +--ro fec-dm-state-dw?      uint32
|  |  |  +--ro vc-upstream [local-ldp-id]
|  |  |     +--ro local-ldp-id          inet:ipv4-address
|  |  |     +--ro local-ldp-lblspc?     uint32
|  |  |     +--ro peer-ldp-id?          inet:ipv4-address
|  |  |     +--ro peer-ldp-lblspc?      uint32
|  |  |     +--ro label?                uint32
|  |  |     +--ro state?                string
|  |  |     +--ro fec-filtered-state?   uint32
|  |  |     +--ro fec-stale?            uint32
|  |  |     +--ro feccb?                uint32
|  |  |     +--ro fec-dm-state-dw?      uint32
|  |  +--ro ldp-fec-prefix-prefix
|  |     +--ro prefix?                 string
|  |     +--ro prefix-feccb?           uint32
|  |     +--ro prefix-idx?             uint32
|  |     +--ro prefix-type?            uint32
|  |     +--ro prefix-pend-notif?      string
|  |     +--ro prefix-state?           string
|  |     +--ro prefix-ingress?         string
|  |     +--ro prefix-egress?          string
|  |     +--ro prefix-um-dist-done?    string
|  |     +--ro prefix-lwd?             string
|  |     +--ro prefix-lwd-started?     string
|  |     +--ro prefix-is-ldp-o-rsvp?   boolean
|  |     +--ro prefix-excess-dms?      boolean
|  |     +--ro prefix-nexthops [nexthop]
|  |     |  +--ro nexthop     string
|  |     |  +--ro out-intf?   string
|  |     +--ro prefix-downstream [local-ldp-id]
|  |     |  +--ro local-ldp-id          inet:ipv4-address
|  |     |  +--ro local-ldp-lblspc?     uint32
|  |     |  +--ro peer-ldp-id?          inet:ipv4-address
|  |     |  +--ro peer-ldp-lblspc?      uint32
|  |     |  +--ro label?                uint32
|  |     |  +--ro state?                string
|  |     |  +--ro fec-filtered-state?   uint32
|  |     |  +--ro fec-stale?            uint32
|  |     |  +--ro feccb?                uint32
|  |     |  +--ro fec-dm-state-dw?      uint32
|  |     +--ro prefix-upstream [local-ldp-id]
|  |        +--ro local-ldp-id          inet:ipv4-address
```

```
|  |        +--ro local-ldp-lblspc?     uint32
|  |        +--ro peer-ldp-id?          inet:ipv4-address
|  |        +--ro peer-ldp-lblspc?      uint32
|  |        +--ro label?                uint32
|  |        +--ro state?                string
|  |        +--ro fec-filtered-state?   uint32
|  |        +--ro fec-stale?            uint32
|  |        +--ro feccb?                uint32
|  |        +--ro fec-dm-state-dw?      uint32
|  +--ro tunnels
|  |  +--ro total-tunnel-count?   uint32
|  |  +--ro ldp-tunnels [tunnel-destination prefix-length]
|  |     +--ro tunnel-interface-index?   uint32
|  |     +--ro tunnel-metric?            uint32
|  |     +--ro name?                     string
|  |     +--ro tunnel-vif?               uint32
|  |     +--ro protocol-type?            mpls-protocol-type
|  |     +--ro out-segments [outgoing-interface]
|  |     |  +--ro outgoing-interface    string
|  |     |  +--ro next-hop-ipaddress?   inet:ipv4-address
|  |     +--ro tunnel-destination        inet:ipv4-address
|  |     +--ro prefix-length             uint32
|  +--ro statistics
|  |  +--ro ldp-protocol-errors-instance-total
|  |  |  +--ro protocol-errors [error-type]
|  |  |     +--ro error-type    uint32
|  |  |     +--ro count?        uint32
|  |  +--ro ldp-protocol-stats-instance-total
|  |  |  +--ro protocol-stats [stat-type]
|  |  |     +--ro stat-type    uint32
|  |  |     +--ro rx-count?    uint32
|  |  |     +--ro tx-count?    uint32
|  |  +--ro ldp-protocol-stats-instance-since-clear
|  |  |  +--ro protocol-stats [stat-type]
|  |  |     +--ro stat-type    uint32
|  |  |     +--ro rx-count?    uint32
|  |  |     +--ro tx-count?    uint32
|  |  +--ro ldp-protocol-errors-instance-since-clear
|  |     +--ro protocol-errors [error-type]
|  |        +--ro error-type    uint32
|  |        +--ro count?        uint32
|  +--ro ldp-database [ldp-database-peer-ip]
|  |  +--ro ldp-database-peer-ip            inet:ipv4-address
|  |  +--ro ldp-database-own-ip?            inet:ipv4-address
|  |  +--ro mpls-ldp-database-downstream [mpls-ldp-database-ds-fec-prefix]
|  |  |  +--ro mpls-ldp-database-ds-fec-label?           uint32
|  |  |  +--ro mpls-ldp-database-ds-fec-prefix           inet:ipv4-address
|  |  |  +--ro mpls-ldp-database-ds-fec-prefix-length?   uint32
|  |  |  +--ro mpls-ldp-database-ds-fec-type?            uint32
|  |  |  +--ro mpls-ldp-database-ds-fec-state?           string
|  |  |  +--ro mpls-ldp-database-ds-fec-filtered?        boolean
|  |  |  +--ro mpls-ldp-database-ds-fec-stale?           boolean
|  |  |  +--ro mpls-ldp-database-ds-fec-lwd?             boolean
|  |  +--ro mpls-ldp-database-upstream [mpls-ldp-database-us-fec-prefix]
|  |     +--ro mpls-ldp-database-us-fec-label?           uint32
|  |     +--ro mpls-ldp-database-us-fec-prefix           inet:ipv4-address
|  |     +--ro mpls-ldp-database-us-fec-prefix-length?   uint32
|  |     +--ro mpls-ldp-database-us-fec-type?            uint32
|  |     +--ro mpls-ldp-database-us-fec-stale?           boolean
|  +--ro targeted-peer [mpls-ldp-targeted-peer-id]
|  |  +--ro mpls-ldp-targeted-peer-id    inet:ipv4-address
|  +--ro path [destination-route]
|  |  +--ro destination-route      string
|  |  +--ro upstream-sessions [ip]
|  |  |  +--ro ip            inet:ipv4-address
|  |  |  +--ro labelspace?   uint32
|  |  |  +--ro label?        uint32
|  |  |  +--ro interface?    string
|  |  +--ro downstream-sessions [ip]
|  |     +--ro ip            inet:ipv4-address
|  |     +--ro labelspace?   uint32
|  |     +--ro label?        uint32
```

```
|  |     +--ro interface?    string
|  +--ro ldp-session [peer-ldp-id]
|     +--ro peer-ldp-id                                 string
|     +--ro peer-lblspc-id?                             string
|     +--ro state?                                      string
|     +--ro adjacency?                                  string
|     +--ro role?                                       string
|     +--ro max-hold?                                   uint32
|     +--ro time-left?                                  uint32
|     +--ro session-status?                             string
|     +--ro local-ldp-id?                               string
|     +--ro local-lblspc-id?                            string
|     +--ro next-keepalive?                             uint32
|     +--ro entity-index?                               uint32
|     +--ro targeted-adj-added?                         string
|     +--ro is-retry?                                   boolean
|     +--ro next-retry?                                 uint32
|     +--ro keepalive-interval?                         uint32
|     +--ro local-keepalive-timeout?                    uint32
|     +--ro peer-proposed-keepalive-timeout?            uint32
|     +--ro session-up-time?                            string
|     +--ro md5-auth-key?                               string
|     +--ro tcp-conn-local?                             string
|     +--ro tcp-conn-remote?                            string
|     +--ro tcp-state?                                  string
|     +--ro num-fecs-received-from-peer?                uint32
|     +--ro num-fecs-installed-from-peer?               uint32
|     +--ro is-fecs-pending-uninstall?                  boolean
|     +--ro num-fecs-filtered-out?                      uint32
|     +--ro num-fecs-filtered-in?                       uint32
|     +--ro filter-prefix-list-name?                    string
|     +--ro filter-prefix-list-exists?                  boolean
|     +--ro is-only-gr-valid?                           boolean
|     +--ro gr-enabled?                                 boolean
|     +--ro peer-reconnect-time?                        uint32
|     +--ro peer-recovery-time?                         uint32
|     +--ro reconnect-time-in-use?                      uint32
|     +--ro reconnect-time-remaining?                   uint32
|     +--ro recovery-time-in-use?                       uint32
|     +--ro recovery-time-remaining?                    uint32
|     +--ro gr-state?                                   string
|     +--ro local-eol-unrecognized-notification?        boolean
|     +--ro remote-eol-unrecognized-notification?       boolean
|     +--ro does-session-support-eol?                   boolean
|     +--ro local-state?                                boolean
|     +--ro remote-state?                               boolean
|     +--ro eol-notification-time?                      uint32
|     +--ro eol-notification-time-remaining?            uint32
|     +--ro eol-tx-label-silence-time?                  uint32
|     +--ro eol-tx-label-silence-time-remaining?        uint32
|     +--ro eol-rx-label-silence-time?                  uint32
|     +--ro eol-rx-label-silence-time-remaining?        uint32
|     +--ro filtered?                                   session-filter-type
|     +--ro interfaces*                                 string
|     +--ro addresses*                                  string
|     +--ro session-ldp-stats
|     |  +--ro ldp-protocol-errors-instance-total
|     |  |  +--ro protocol-errors [error-type]
|     |  |     +--ro error-type    uint32
|     |  |     +--ro count?        uint32
|     |  +--ro ldp-protocol-stats-instance-total
|     |     +--ro protocol-stats [stat-type]
|     |        +--ro stat-type    uint32
|     |        +--ro rx-count?    uint32
|     |        +--ro tx-count?    uint32
|     +--ro filtered-fecs-in [fec-addr]
|     |  +--ro fec-addr      inet:ipv4-address
|     |  +--ro label?        uint32
|     |  +--ro prefix-len?   uint8
|     +--ro filtered-fecs-out [fec-addr]
|        +--ro fec-addr      inet:ipv4-address
|        +--ro label?        uint32
```

```
|        +--ro prefix-len?   uint8
+--ro summary
|  +--ro paths-configured?               uint32
|  +--ro lsps-configured?                uint32
|  +--ro lsps-enabled?                   uint32
|  +--ro lsps-operational?               uint32
|  +--ro detour-lsps-up?                 uint32
|  +--ro backup-lsps-up?                 uint32
|  +--ro bypass-lsps?                    uint32
|  +--ro bypass-lsps-up?                 uint32
|  +--ro bypass-lsps-enabled?            uint32
|  +--ro ldp-lsps-operational?           uint32
|  +--ro transit-lsps-configured?        uint32
|  +--ro transit-lsps-enabled?           uint32
|  +--ro transit-lsps-operational?       uint32
|  +--ro cspf-groups-configured?         uint32
|  +--ro tunnels-supported?              uint32
|  +--ro tunnels-allocated?              uint32
|  +--ro cross-connects-supported?       uint32
|  +--ro cross-connects-allocated?       uint32
|  +--ro auto-bw-templates-supported?    uint32
|  +--ro auto-bw-templates-configured?   uint32
|  +--ro times-enabled?                  uint32
+--ro memory
|  +--ro total-non-pool-memory?   uint32
|  +--ro pools [pool-index]
|  |  +--ro pool-index    uint32
|  |  +--ro sub-pools [sub-pool-index]
|  |     +--ro sub-pool-index    uint32
|  |     +--ro gen-size?         uint32
|  |     +--ro block-size?       uint32
|  |     +--ro gen-blocks?       uint32
|  |     +--ro current-gens?     uint32
|  |     +--ro current-blocks?   uint32
|  |     +--ro free-blocks?      uint32
|  +--ro stats [mem-stats-index]
|     +--ro mem-stats-index    uint32
|     +--ro mem-type?          string
|     +--ro num-alloc?         uint32
|     +--ro total-bytes?       uint32
|     +--ro total-allocs?      uint32
|     +--ro total-frees?       uint32
|     +--ro peak-alloc?        uint32
|     +--ro alloc-fails?       uint32
|     +--ro free-fails?        uint32
+--ro policy
|  +--ro cspf-intf?                             uint8
|  +--ro cspf-group-computation-mode?           mpls-cspf-grp-comp-mode
|  +--ro cspf-comp-mode?                        uint32
|  +--ro cspf-comp-ignore-overload-bit?         uint8
|  +--ro implicit-commit-value?                 uint32
|  +--ro propagate-ttl?                         uint8
|  +--ro label-propagate-ttl?                   uint8
|  +--ro vrf-propagate-ttl?                     uint8
|  +--ro rtm-route-filter-enabled?              boolean
|  +--ro rtm-route-filter-all-ibgp-enabled?     boolean
|  +--ro ingress-tnnl-actg?                     uint8
|  +--ro transit-session-actg?                  uint8
|  +--ro load-interval?                         uint16
|  +--ro te-policy-protocol?                    te-protocol
|  +--ro te-policy-flags?                       uint16
|  +--ro te-policy-area?                        uint32
|  +--ro handle-isis-nbr-down?                  uint8
|  +--ro handle-ospf-nbr-down?                  uint8
|  +--ro max-lsp-retries?                       uint16
|  +--ro fast-retry-on?                         uint8
|  +--ro lsp-retry-interval?                    uint16
|  +--ro frr-backup-retry-interval?             uint32
|  +--ro auto-bandwidth-enabled?                uint8
|  +--ro autobw-sample-interval?                uint32
|  +--ro autobw-num-sample-record?              uint32
|  +--ro soft-preempt-cleanup-timer?            uint16
```

```
|  +--ro rsvp-periodic-flooding-timer?        uint16
|  +--ro admin-groups [name]
|  |  +--ro name            string
|  |  +--ro group-number?   uint8
|  +--ro rsvp-flooding-thresholds [threshold-type]
|     +--ro threshold-type         string
|     +--ro flooding-thresholds*   uint32
+--ro rsvp
|  +--ro protocol-status?                boolean
|  +--ro refresh-interval?               uint16
|  +--ro refresh-multiple?               uint16
|  +--ro transport-address?              inet:ipv4-address
|  +--ro delay-resv-sending?             boolean
|  +--ro backup-bandwidth-requirement?   boolean
|  +--ro msgid-epoch*                    uint32
|  +--ro statistics
|  |  +--ro packet-error-counters
|  |  |  +--ro rx-pkt-bad-length?                       uint64
|  |  |  +--ro rx-pkt-unknown-type?                     uint64
|  |  |  +--ro rx-pkt-bad-version?                      uint64
|  |  |  +--ro rx-pkt-bad-checksum?                     uint64
|  |  |  +--ro mem-alloc-fail?                          uint64
|  |  |  +--ro rx-md5-auth-error?                       uint64
|  |  |  +--ro path-state-timeout?                      uint64
|  |  |  +--ro resv-state-timeout?                      uint64
|  |  |  +--ro pkt-with-msg-id-drop?                    uint64
|  |  |  +--ro pkt-with-sref-drop?                      uint64
|  |  |  +--ro rx-pkt-bad-length-since-last-clear?      uint64
|  |  |  +--ro rx-pkt-unknown-type-since-last-clear?    uint64
|  |  |  +--ro rx-pkt-bad-version-since-last-clear?     uint64
|  |  |  +--ro rx-pkt-bad-checksum-since-last-clear?    uint64
|  |  |  +--ro mem-alloc-fail-since-last-clear?         uint64
|  |  |  +--ro rx-md5-auth-error-since-last-clear?      uint64
|  |  |  +--ro path-state-timeout-since-last-clear?     uint64
|  |  |  +--ro resv-state-timeout-since-last-clear?     uint64
|  |  |  +--ro pkt-with-msg-id-drop-since-last-clear?   uint64
|  |  |  +--ro pkt-with-sref-drop-since-last-clear?     uint64
|  |  |  +--ro path-errors?                             uint64
|  |  |  +--ro resv-errors?                             uint64
|  |  |  +--ro patherr-errors?                          uint64
|  |  |  +--ro resverr-errors?                          uint64
|  |  |  +--ro pathtear-errors?                         uint64
|  |  |  +--ro resvtear-errors?                         uint64
|  |  |  +--ro resvconf-errors?                         uint64
|  |  |  +--ro bundle-errors?                           uint64
|  |  |  +--ro ack-errors?                              uint64
|  |  |  +--ro sumrefresh-errors?                       uint64
|  |  |  +--ro hello-errors?                            uint64
|  |  |  +--ro nackobject-errors?                       uint64
|  |  |  +--ro path-errors-since-last-clear?            uint64
|  |  |  +--ro resv-errors-since-last-clear?            uint64
|  |  |  +--ro patherr-errors-since-last-clear?         uint64
|  |  |  +--ro resverr-errors-since-last-clear?         uint64
|  |  |  +--ro pathtear-errors-since-last-clear?        uint64
|  |  |  +--ro resvtear-errors-since-last-clear?        uint64
|  |  |  +--ro resvconf-errors-since-last-clear?        uint64
|  |  |  +--ro bundle-errors-since-last-clear?          uint64
|  |  |  +--ro ack-errors-since-last-clear?             uint64
|  |  |  +--ro sumrefresh-errors-since-last-clear?      uint64
|  |  |  +--ro hello-errors-since-last-clear?           uint64
|  |  |  +--ro nackobject-errors-since-last-clear?      uint64
|  |  +--ro packet-counters
|  |     +--ro path-tx?                          uint64
|  |     +--ro resv-tx?                          uint64
|  |     +--ro patherr-tx?                       uint64
|  |     +--ro resverr-tx?                       uint64
|  |     +--ro pathtear-tx?                      uint64
|  |     +--ro resvtear-tx?                      uint64
|  |     +--ro resvconf-tx?                      uint64
|  |     +--ro bundle-tx?                        uint64
|  |     +--ro ack-tx?                           uint64
|  |     +--ro sumrefresh-tx?                    uint64
```

```
|  |     +--ro hello-tx?                          uint64
|  |     +--ro path-rx?                           uint64
|  |     +--ro resv-rx?                           uint64
|  |     +--ro patherr-rx?                        uint64
|  |     +--ro resverr-rx?                        uint64
|  |     +--ro pathtear-rx?                       uint64
|  |     +--ro resvtear-rx?                       uint64
|  |     +--ro resvconf-rx?                       uint64
|  |     +--ro bundle-rx?                         uint64
|  |     +--ro ack-rx?                            uint64
|  |     +--ro sumrefresh-rx?                     uint64
|  |     +--ro hello-rx?                          uint64
|  |     +--ro path-tx-since-last-clear?          uint64
|  |     +--ro resv-tx-since-last-clear?          uint64
|  |     +--ro patherr-tx-since-last-clear?       uint64
|  |     +--ro resverr-tx-since-last-clear?       uint64
|  |     +--ro pathtear-tx-since-last-clear?      uint64
|  |     +--ro resvtear-tx-since-last-clear?      uint64
|  |     +--ro resvconf-tx-since-last-clear?      uint64
|  |     +--ro bundle-tx-since-last-clear?        uint64
|  |     +--ro ack-tx-since-last-clear?           uint64
|  |     +--ro sumrefresh-tx-since-last-clear?    uint64
|  |     +--ro hello-tx-since-last-clear?         uint64
|  |     +--ro path-rx-since-last-clear?          uint64
|  |     +--ro resv-rx-since-last-clear?          uint64
|  |     +--ro patherr-rx-since-last-clear?       uint64
|  |     +--ro resverr-rx-since-last-clear?       uint64
|  |     +--ro pathtear-rx-since-last-clear?      uint64
|  |     +--ro resvtear-rx-since-last-clear?      uint64
|  |     +--ro resvconf-rx-since-last-clear?      uint64
|  |     +--ro bundle-rx-since-last-clear?        uint64
|  |     +--ro ack-rx-since-last-clear?           uint64
|  |     +--ro sumrefresh-rx-since-last-clear?    uint64
|  |     +--ro hello-rx-since-last-clear?         uint64
|  +--ro igp-sync
|  |  +--ro isis-nbr-down-enabled?   boolean
|  |  +--ro ospf-nbr-down-enabled?   boolean
|  |  +--ro link [ip-address nbr-ip-address]
|  |  |  +--ro ip-address        inet:ipv4-address
|  |  |  +--ro nbr-ip-address    inet:ipv4-address
|  |  |  +--ro remote-ip?        inet:ipv4-address
|  |  |  +--ro lsp-count?        uint32
|  |  |  +--ro lsp [lsp-name path-name]
|  |  |     +--ro lsp-name                string
|  |  |     +--ro path-name               string
|  |  |     +--ro cspf-enabled?           boolean
|  |  |     +--ro rro-enabled?            boolean
|  |  |     +--ro frr-enabled?            boolean
|  |  |     +--ro nbr-down-enabled?       boolean
|  |  |     +--ro link-count?             uint32
|  |  |     +--ro nbr-down-inprogress?    boolean
|  |  |     +--ro cspf-hop-count?         uint32
|  |  |     +--ro rro-hop-count?          uint32
|  |  |     +--ro link [index]
|  |  |     |  +--ro index              uint32
|  |  |     |  +--ro ip-address?        inet:ipv4-address
|  |  |     |  +--ro nbr-ip-address?    inet:ipv4-address
|  |  |     +--ro cspf-hop [index]
|  |  |     |  +--ro index              uint32
|  |  |     |  +--ro ip-address?        inet:ipv4-address
|  |  |     |  +--ro nbr-ip-address?    inet:ipv4-address
|  |  |     +--ro rro-hop [index]
|  |  |        +--ro index              uint32
|  |  |        +--ro ip-address?        inet:ipv4-address
|  |  |        +--ro nbr-ip-address?    inet:ipv4-address
|  |  +--ro lsp [lsp-name path-name]
|  |     +--ro lsp-name               string
|  |     +--ro path-name              string
|  |     +--ro cspf-enabled?          boolean
|  |     +--ro rro-enabled?           boolean
|  |     +--ro frr-enabled?           boolean
|  |     +--ro nbr-down-enabled?      boolean
```

```
|  |     +--ro link-count?            uint32
|  |     +--ro nbr-down-inprogress?   boolean
|  |     +--ro cspf-hop-count?        uint32
|  |     +--ro rro-hop-count?         uint32
|  |     +--ro link [index]
|  |     |  +--ro index             uint32
|  |     |  +--ro ip-address?       inet:ipv4-address
|  |     |  +--ro nbr-ip-address?   inet:ipv4-address
|  |     +--ro cspf-hop [index]
|  |     |  +--ro index             uint32
|  |     |  +--ro ip-address?       inet:ipv4-address
|  |     |  +--ro nbr-ip-address?   inet:ipv4-address
|  |     +--ro rro-hop [index]
|  |        +--ro index             uint32
|  |        +--ro ip-address?       inet:ipv4-address
|  |        +--ro nbr-ip-address?   inet:ipv4-address
|  +--ro interfaces [interface-index]
|  |  +--ro interface-name?                       string
|  |  +--ro interface-type?                       dcm-interface-type
|  |  +--ro interface-index                       uint32
|  |  +--ro admin-status?                         boolean
|  |  +--ro oper-status?                          boolean
|  |  +--ro is-tunnel-interface?                  boolean
|  |  +--ro hello-interval?                       uint32
|  |  +--ro hello-tolerance?                      uint32
|  |  +--ro hello-status?                         feature-config-status
|  |  +--ro is-md5-auth-enabled?                  boolean
|  |  +--ro reliable-messages?                    feature-config-status
|  |  +--ro bundle-messages?                      feature-config-status
|  |  +--ro summary-refresh?                      feature-config-status
|  |  +--ro active-outsegs?                       uint32
|  |  +--ro inactive-outsegs?                     uint32
|  |  +--ro bandwith-resv-outsegs?                uint32
|  |  +--ro active-backup-outsegs?                uint32
|  |  +--ro inactive-backup-outsegs?              uint32
|  |  +--ro interface-preempts?                   uint32
|  |  +--ro interface-resv-soft-preempts?         uint32
|  |  +--ro interface-flooding-up-threshold?      feature-config-source
|  |  +--ro interface-flooding-down-threshold?    feature-config-source
|  |  +--ro duplicate-preempts-dropped?           uint32
|  |  +--ro bypass-interface?                     boolean
|  |  +--ro interface-tunnel-name?                string
|  |  +--ro bypass-tunnel-interface-name?         string
|  |  +--ro interface-te-up-thresholds*           uint32
|  |  +--ro interface-te-down-thresholds*         uint32
|  |  +--ro error-counters
|  |  |  +--ro recv-md5-auth-errors?                    uint64
|  |  |  +--ro pkt-with-msgid-drop?                     uint64
|  |  |  +--ro pkt-with-sref-drop?                      uint64
|  |  |  +--ro nackobject-errors?                       uint64
|  |  |  +--ro recv-md5-auth-errors-since-last-clear?   uint64
|  |  |  +--ro pkt-with-msgid-drop-since-last-clear?    uint64
|  |  |  +--ro pkt-with-sref-drop-since-last-clear?     uint64
|  |  |  +--ro nackobject-errors-since-last-clear?      uint64
|  |  +--ro packet-counters
|  |     +--ro path-tx?                           uint64
|  |     +--ro resv-tx?                           uint64
|  |     +--ro patherr-tx?                        uint64
|  |     +--ro resverr-tx?                        uint64
|  |     +--ro pathtear-tx?                       uint64
|  |     +--ro resvtear-tx?                       uint64
|  |     +--ro resvconf-tx?                       uint64
|  |     +--ro bundle-tx?                         uint64
|  |     +--ro ack-tx?                            uint64
|  |     +--ro sumrefresh-tx?                     uint64
|  |     +--ro hello-tx?                          uint64
|  |     +--ro path-rx?                           uint64
|  |     +--ro resv-rx?                           uint64
|  |     +--ro patherr-rx?                        uint64
|  |     +--ro resverr-rx?                        uint64
|  |     +--ro pathtear-rx?                       uint64
|  |     +--ro resvtear-rx?                       uint64
```

```
|  |     +--ro resvconf-rx?                      uint64
|  |     +--ro bundle-rx?                        uint64
|  |     +--ro ack-rx?                           uint64
|  |     +--ro sumrefresh-rx?                    uint64
|  |     +--ro hello-rx?                         uint64
|  |     +--ro path-tx-since-last-clear?         uint64
|  |     +--ro resv-tx-since-last-clear?         uint64
|  |     +--ro patherr-tx-since-last-clear?      uint64
|  |     +--ro resverr-tx-since-last-clear?      uint64
|  |     +--ro pathtear-tx-since-last-clear?     uint64
|  |     +--ro resvtear-tx-since-last-clear?     uint64
|  |     +--ro resvconf-tx-since-last-clear?     uint64
|  |     +--ro bundle-tx-since-last-clear?       uint64
|  |     +--ro ack-tx-since-last-clear?          uint64
|  |     +--ro sumrefresh-tx-since-last-clear?   uint64
|  |     +--ro hello-tx-since-last-clear?        uint64
|  |     +--ro path-rx-since-last-clear?         uint64
|  |     +--ro resv-rx-since-last-clear?         uint64
|  |     +--ro patherr-rx-since-last-clear?      uint64
|  |     +--ro resverr-rx-since-last-clear?      uint64
|  |     +--ro pathtear-rx-since-last-clear?     uint64
|  |     +--ro resvtear-rx-since-last-clear?     uint64
|  |     +--ro resvconf-rx-since-last-clear?     uint64
|  |     +--ro bundle-rx-since-last-clear?       uint64
|  |     +--ro ack-rx-since-last-clear?          uint64
|  |     +--ro sumrefresh-rx-since-last-clear?   uint64
|  |     +--ro hello-rx-since-last-clear?        uint64
|  +--ro sessions [dest-ip-addr src-ip-addr tunnel-id session-role]
|  |  +--ro dest-ip-addr                 inet:ipv4-address
|  |  +--ro src-ip-addr                  inet:ipv4-address
|  |  +--ro tunnel-id                    uint16
|  |  +--ro session-role                 session-role
|  |  +--ro session-operational-status?  boolean
|  |  +--ro psbs [path-index]
|  |     +--ro path-index                                        uint32
|  |     +--ro session-name?                                     string
|  |     +--ro session-type?                                     session-type
|  |     +--ro path-operational-status?                          boolean
|  |     +--ro session-in-label?                                 uint32
|  |     +--ro session-out-label?                                uint32
|  |     +--ro session-out-interface?                            string
|  |     +--ro lsp-id?                                           uint32
|  |     +--ro flap-lock?                                        uint32
|  |     +--ro path-refresh?                                     uint32
|  |     +--ro path-refresh-ttd?                                 uint32
|  |     +--ro resv-refresh?                                     uint32
|  |     +--ro resv-refresh-ttd?                                 uint32
|  |     +--ro tspec-peak?                                       uint32
|  |     +--ro tspec-rate?                                       uint32
|  |     +--ro tspec-size?                                       uint32
|  |     +--ro tspec-minimum?                                    uint32
|  |     +--ro tspec-m?                                          uint32
|  |     +--ro psb-setup-priority?                               uint8
|  |     +--ro psb-hold-priority?                                uint8
|  |     +--ro session-attribute-all-flags?                      uint8
|  |     +--ro sa-flag-label-recording?                          boolean
|  |     +--ro sa-flag-soft-preemption-desired?                  boolean
|  |     +--ro sa-flag-se-style?                                 boolean
|  |     +--ro sa-flag-local-protect?                            boolean
|  |     +--ro sa-flag-bandwidth-protect?                        boolean
|  |     +--ro sa-flag-session-protection-type?                  session-protection-type
|  |     +--ro session-soft-preemption-wait-timer?               uint32
|  |     +--ro session-preemption-wait-timer?                    uint32
|  |     +--ro frr-detour?                                       boolean
|  |     +--ro frr-facility?                                     boolean
|  |     +--ro frr-unknown-backup-mode-desired?                  boolean
|  |     +--ro frr-unknown-flags?                                uint8
|  |     +--ro frr-psb-setup-priority?                           uint8
|  |     +--ro frr-psb-hold-priority?                            uint8
|  |     +--ro frr-bandwidth?                                    uint32
|  |     +--ro frr-hoplimit?                                     uint8
|  |     +--ro frr-facility-method?                              frr-facility-method
```

```
|  |     +--ro frr-nh-node-protection-available?                    boolean
|  |     +--ro frr-nh-node-protection-in-use?                       boolean
|  |     +--ro frr-nh-link-protection-available?                    boolean
|  |     +--ro frr-nh-link-protection-in-use?                       boolean
|  |     +--ro frr-bandwidth-protection-available?                  boolean
|  |     +--ro frr-lsp-bringup-abandoned?                           boolean
|  |     +--ro frr-updown-transitions?                              uint32
|  |     +--ro frr-retries?                                         uint32
|  |     +--ro frr-session-protection-available?                    boolean
|  |     +--ro frr-next-retry?                                      uint32
|  |     +--ro frr-cost?                                            uint32
|  |     +--ro frr-cspf-group-computation-mode?                     frr-cspf-group-computation-
mode
|  |     +--ro frr-cspf-group-computation-mode-use-bypass-liberal?  boolean
|  |     +--ro is-downstream-backup-psb?                            boolean
|  |     +--ro is-backup-psb?                                       boolean
|  |     +--ro is-upstream-psb?                                     boolean
|  |     +--ro is-ps-frr-detour-sent?                               boolean
|  |     +--ro is-ps-frr-backup-sent?                               boolean
|  |     +--ro is-ps-frr-detour-received?                           boolean
|  |     +--ro is-ps-frr-backup-received?                           boolean
|  |     +--ro path-received-from-ip?                               inet:ipv4-address
|  |     +--ro path-received-interface?                             string
|  |     +--ro path-received-auth-on?                               boolean
|  |     +--ro path-received-message-id?                            uint32
|  |     +--ro path-downstream-only?                                boolean
|  |     +--ro path-sent-to-ip?                                     inet:ipv4-address
|  |     +--ro path-sent-interface?                                 string
|  |     +--ro path-sent-auth-on?                                   boolean
|  |     +--ro path-sent-message-id?                                uint32
|  |     +--ro resv-received-from-ip?                               inet:ipv4-address
|  |     +--ro resv-received-interface?                             string
|  |     +--ro resv-received-auth-on?                               boolean
|  |     +--ro resv-received-message-id?                            uint32
|  |     +--ro session-riding-bypass-name?                          string
|  |     +--ro session-style?                                       session-reservation-style
|  |     +--ro points-of-local-repair-detour-rcvd*                  inet:ipv4-address
|  |     +--ro avoid-nodes-detour-rcvd*                             inet:ipv4-address
|  |     +--ro points-of-local-repair-detour-sent*                  inet:ipv4-address
|  |     +--ro avoid-nodes-detour-sent*                             inet:ipv4-address
|  |     +--ro session-ero-hops [ip-addr]
|  |     |  +--ro ip-addr                  inet:ipv4-address
|  |     |  +--ro ero-flag-is-strict-hop?  boolean
|  |     +--ro session-rro-hops [ip-addr]
|  |        +--ro ip-addr                                  inet:ipv4-address
|  |        +--ro rro-flag-is-local-protect-available?     boolean
|  |        +--ro rro-flag-is-local-protect-in-use?        boolean
|  |        +--ro rro-flag-rro-is-router-id?               boolean
|  |        +--ro rro-flag-rro-node-protect?               boolean
|  |        +--ro rro-flag-rro-bandwidth-protect?          boolean
|  +--ro neighbors [neighbor-ip-addr]
|     +--ro neighbor-ip-addr               inet:ipv4-address
|     +--ro neighbor-interface?            string
|     +--ro neighbor-status?               string
|     +--ro neighbor-last-status-change?   string
|     +--ro rsvp-hello-tx?                 uint32
|     +--ro rsvp-hello-rx?                 uint32
|     +--ro refresh-reduction-support?     boolean
|     +--ro msg-id-support?                boolean
|     +--ro active-lsps?                   uint32
|     +--ro rsvp-hello-interval?           uint32
|     +--ro rsvp-hello-tolerance?          uint32
|     +--ro neighbor-remote-instance?      uint32
|     +--ro neighbor-local-instance?       uint32
|     +--ro last-hello-rx?                 uint32
|     +--ro next-hello-req-tx?             uint32
+--ro dynamic-bypass
|  +--ro dynamic-bypass-global
|  |  +--ro config-enable?         uint16
|  |  +--ro config-enable-all?     uint16
|  |  +--ro reoptimize-timer?      uint32
|  |  +--ro max-bypasses-per-mp?   uint16
```

```
|  |  +--ro max-bypasses?          uint16
|  |  +--ro bypass-count?          uint16
|  +--ro dynamic-bypass-interface [if-name if-type]
|     +--ro if-name                  string
|     +--ro if-type                  mpls-if-type
|     +--ro active-status?           uint8
|     +--ro admin-type?              uint8
|     +--ro admin-status?            uint8
|     +--ro hop-limit?               uint8
|     +--ro tie-breaking?            uint8
|     +--ro cos?                     uint8
|     +--ro cspf-comp-mode?          uint8
|     +--ro setup-priority?          uint8
|     +--ro hold-priority?           uint8
|     +--ro traffic-eng-max-rate?    uint32
|     +--ro traffic-eng-mean-rate?   uint32
|     +--ro traffic-eng-max-burst?   uint32
|     +--ro from-addr?               inet:ipv4-address
|     +--ro reoptimize-timer?        uint32
|     +--ro adaptive?                uint32
|     +--ro record-route?            uint32
|     +--ro name-prefix?             string
|     +--ro primary-path?            string
|     +--ro max-bypasses-per-mp?     uint16
|     +--ro bypass-count?            uint16
|     +--ro exclude-any?             uint32
|     +--ro include-all?             uint32
|     +--ro include-any?             uint32
|     +--ro status-flags?            uint32
|     +--ro mp-count?                uint32
|     +--ro mp-infos [router-id]
|        +--ro router-id       inet:ipv4-address
|        +--ro bypass-count?   uint16
+--ro te
|  +--ro ospf-te-enabled?   boolean
|  +--ro isis-te-enabled?   boolean
|  +--ro ospf-area-id?      inet:ipv4-address
|  +--ro isis-level-id?     uint32
|  +--ro database
|  |  +--ro router-id?   inet:ipv4-address
|  |  +--ro area [area-id level-id]
|  |     +--ro igp-isis?              boolean
|  |     +--ro igp-ospf?              boolean
|  |     +--ro area-id                inet:ipv4-address
|  |     +--ro level-id               uint32
|  |     +--ro host-name?             string
|  |     +--ro router-id?             inet:ipv4-address
|  |     +--ro total-network-nodes?   uint32
|  |     +--ro total-router-nodes?    uint32
|  |     +--ro total-p2p-links?       uint32
|  |     +--ro total-p2mp-links?      uint32
|  |     +--ro node [local-node-id local-router-id]
|  |        +--ro igp-isis?           boolean
|  |        +--ro igp-ospf?           boolean
|  |        +--ro area-id?            inet:ipv4-address
|  |        +--ro level-id?           uint32
|  |        +--ro router?             boolean
|  |        +--ro network?            boolean
|  |        +--ro host-name?          string
|  |        +--ro local-node-id       string
|  |        +--ro local-router-id     inet:ipv4-address
|  |        +--ro gen-code?           uint32
|  |        +--ro lsa-id?             uint32
|  |        +--ro total-p2p-links?    uint32
|  |        +--ro total-p2mp-links?   uint32
|  |        +--ro overloaded?         uint32
|  |        +--ro link [local-node-id remote-node-id local-router-id remote-router-id local-ip
remote-ip]
|  |        |  +--ro igp-isis?                          boolean
|  |        |  +--ro igp-ospf?                          boolean
|  |        |  +--ro area-id?                           inet:ipv4-address
|  |        |  +--ro level-id?                          uint32
```

```
|  |        |  +--ro local-node-id                      string
|  |        |  +--ro remote-node-id                     string
|  |        |  +--ro local-router-id                    inet:ipv4-address
|  |        |  +--ro remote-router-id                   inet:ipv4-address
|  |        |  +--ro local-host-name?                   string
|  |        |  +--ro remote-host-name?                  string
|  |        |  +--ro router?                            boolean
|  |        |  +--ro network?                           boolean
|  |        |  +--ro p2p?                               boolean
|  |        |  +--ro p2mp?                              boolean
|  |        |  +--ro local-ip                           inet:ipv4-address
|  |        |  +--ro remote-ip                          inet:ipv4-address
|  |        |  +--ro gen-code?                          uint32
|  |        |  +--ro lsa-id?                            uint32
|  |        |  +--ro pending-delete?                    uint32
|  |        |  +--ro igp-metric?                        uint32
|  |        |  +--ro te-metric?                         uint32
|  |        |  +--ro admin-group?                       uint32
|  |        |  +--ro max-bandwidth?                     uint32
|  |        |  +--ro max-reservable-bandwidth?          uint32
|  |        |  +--ro unreserved-priority-0-bandwidth?   uint32
|  |        |  +--ro unreserved-priority-1-bandwidth?   uint32
|  |        |  +--ro unreserved-priority-2-bandwidth?   uint32
|  |        |  +--ro unreserved-priority-3-bandwidth?   uint32
|  |        |  +--ro unreserved-priority-4-bandwidth?   uint32
|  |        |  +--ro unreserved-priority-5-bandwidth?   uint32
|  |        |  +--ro unreserved-priority-6-bandwidth?   uint32
|  |        |  +--ro unreserved-priority-7-bandwidth?   uint32
|  |        |  +--ro srlg [name]
|  |        |     +--ro name       string
|  |        |     +--ro penalty?   uint32
|  |        +--ro srlg [name]
|  |           +--ro name       string
|  |           +--ro penalty?   uint32
|  +--ro router-id-map [ip-address]
|     +--ro ip-address      inet:ipv4-address
|     +--ro router-id?      inet:ipv4-address
|     +--ro resolved?       boolean
|     +--ro igp-isis?       boolean
|     +--ro igp-ospf?       boolean
|     +--ro isis-level?     uint32
|     +--ro ospf-area?      inet:ipv4-address
|     +--ro origin-ted?     boolean
|     +--ro origin-path?    uint32
|     +--ro origin-lsp?     uint32
|     +--ro origin-other?   boolean
+--ro autobw-threshold-table-summary
|  +--ro total-number-of-autobw-threshold-table-entries?   uint32
+--ro statistics-oam
|  +--ro usr-ping-count?             uint32
|  +--ro usr-traceroute-count?       uint32
|  +--ro echo-req-sent-count?        uint32
|  +--ro echo-req-received-count?    uint32
|  +--ro echo-req-timeout-count?     uint32
|  +--ro echo-resp-sent-count?       uint32
|  +--ro echo-resp-received-count?   uint32
|  +--ro return-codes [number]
|     +--ro name?       string
|     +--ro number      uint32
|     +--ro tx-count?   uint32
|     +--ro rx-count?   uint32
+--ro bfd
|  +--ro admin-status?               uint8
|  +--ro min-tx-interval?            uint32
|  +--ro min-rx-interval?            uint32
|  +--ro detection-time-multiplier?   uint8
+--ro interface [interface-index]
|  +--ro interface-index                 uint32
|  +--ro interface-name?                 string
|  +--ro admin-status?                   boolean
|  +--ro oper-status?                    boolean
|  +--ro mtu?                            uint32
```

```
|  +--ro bypass-lsp-count?                uint32
|  +--ro max-lsp-priority-level?          uint32
|  +--ro is-ldp-enabled?                  boolean
|  +--ro ldp-tunnel-count?                uint32
|  +--ro ldp-transit-tunnel-count?        uint32
|  +--ro is-gre-port?                     boolean
|  +--ro admin-group?                     uint32
|  +--ro admin-group-max?                 uint8
|  +--ro admin-group-min?                 uint8
|  +--ro te-metric?                       uint32
|  +--ro max-bandwidth?                   uint32
|  +--ro max-resv-bandwidth?              uint32
|  +--ro max-resv-bandwidth-percentage?   uint32
|  +--ro resv-bandwidth*                  uint32
|  +--ro advert-unreserved-bandwidth*     uint32
|  +--ro under-provisioned-bandwidth*     uint32
+--ro path [path-name]
|  +--ro path-name      string
|  +--ro usage-count?   uint32
|  +--ro path-hops [hop-address]
|  |  +--ro hop-address    inet:ipv4-address
|  |  +--ro hop-type?      uint8
|  +--ro path-lsps [lsp-name]
|     +--ro lsp-name    string
|     +--ro lsp-type?   uint32
+--ro auto-bandwidth-template [name]
|  +--ro name                       string
|  +--ro adjustment-interval?       uint32
|  +--ro adjustment-threshold?      uint32
|  +--ro maximum-bandwidth?         uint32
|  +--ro minimum-bandwidth?         uint32
|  +--ro overflow-limit?            uint32
|  +--ro underflow-limit?           uint32
|  +--ro mode?                      boolean
|  +--ro sample-recording?          boolean
|  +--ro associated-paths-count?    uint32
|  +--ro associated-paths [lsp-name]
|     +--ro lsp-name     string
|     +--ro path-name?   string
|     +--ro is-active?   boolean
+--ro autobw-threshold-table-entry [bandwidth]
|  +--ro bandwidth                   uint32
|  +--ro threshold?                  uint32
|  +--ro is-percentage-threshold?    boolean
+--ro lsp [lsp-name]
|  +--ro lsp-name           string
|  +--ro lsp-type?          lsp-type
|  +--ro bypass-lsp-type?   bypass-lsp-type
|  +--ro interface?         string
|  +--ro history*           string
|  +--ro basic
|  |  +--ro tunnel-vif-index?             uint32
|  |  +--ro lsp-type-bypass?              boolean
|  |  +--ro lsp-type-dynamic?             boolean
|  |  +--ro from-address-configured?      boolean
|  |  +--ro from-address?                 inet:ipv4-address
|  |  +--ro to-address?                   inet:ipv4-address
|  |  +--ro admin-up?                     boolean
|  |  +--ro operational-status?           lsp-operational-status
|  |  +--ro lsp-is-active?                boolean
|  |  +--ro lsp-has-primary-path?         boolean
|  |  +--ro path-name?                    string
|  |  +--ro out-label?                    uint32
|  |  +--ro out-interface-name?           string
|  |  +--ro primary-up?                   boolean
|  |  +--ro primary-active?               boolean
|  |  +--ro lsp-has-secondary?            boolean
|  |  +--ro secondary-up?                 boolean
|  |  +--ro secondary-active?             boolean
|  |  +--ro lsp-has-selected-secondary?   boolean
|  |  +--ro selected-secondary-up?        boolean
|  |  +--ro selected-secondary-active?    boolean
```

```
|  |  +--ro primary-is-selected?          boolean
|  |  +--ro lsp-has-frr?                  boolean
|  |  +--ro frr-up?                       boolean
|  |  +--ro frr-active?                   boolean
|  |  +--ro up-down-count?                uint32
|  |  +--ro retry-count?                  uint32
|  |  +--ro down-reason?                  string
|  +--ro forwarding
|  |  +--ro tunnel-vif-index?            uint32
|  |  +--ro lsp-id?                      uint32
|  |  +--ro forwarding-up?               boolean
|  |  +--ro primary-active?              boolean
|  |  +--ro primary-up?                  boolean
|  |  +--ro secondary-active?            boolean
|  |  +--ro secondary-up?                boolean
|  |  +--ro selected-secondary-active?   boolean
|  |  +--ro selected-secondary-up?       boolean
|  |  +--ro frr-active?                  boolean
|  |  +--ro frr-up?                      boolean
|  |  +--ro instance-id?                 uint32
|  |  +--ro out-port-id?                 uint32
|  |  +--ro out-port-name?               string
|  |  +--ro out-label?                   uint32
|  +--ro frr
|  |  +--ro configured?                                boolean
|  |  +--ro one-to-one?                                boolean
|  |  +--ro one-to-many?                               boolean
|  |  +--ro protection-type?                           lsp-frr-protection-type
|  |  +--ro frr-up?                                    boolean
|  |  +--ro active?                                    boolean
|  |  +--ro priority-configured?                       boolean
|  |  +--ro setup-priority?                            uint8
|  |  +--ro holding-priority?                          uint8
|  |  +--ro hop-limit-configured?                      boolean
|  |  +--ro hop-limit?                                 uint8
|  |  +--ro bandwidth-configured?                      boolean
|  |  +--ro bandwidth?                                 uint32
|  |  +--ro down-reason?                               string
|  |  +--ro computation-mode?                          lsp-cspf-computation-mode
|  |  +--ro group-computation-mode-default?            boolean
|  |  +--ro group-computation-mode-add-penalty?        boolean
|  |  +--ro group-computation-mode-exclude-groups?     boolean
|  |  +--ro group-computation-mode-high-cost?          boolean
|  |  +--ro out-port-id?                               uint32
|  |  +--ro out-port-name?                             string
|  |  +--ro out-label?                                 uint32
|  |  +--ro path-cost?                                 uint32
|  |  +--ro bypass-name?                               string
|  |  +--ro has-secondary-swithover-time?              uint32
|  |  +--ro secondary-swithover-time?                  uint32
|  |  +--ro hold-time?                                 uint32
|  |  +--ro global-revertive?                          uint32
|  |  +--ro revertive-timer-expired?                   uint32
|  |  +--ro fwdg-state-primary-up?                     boolean
|  |  +--ro fwdg-state-primary-active?                 boolean
|  |  +--ro fwdg-state-primary-down?                   boolean
|  |  +--ro fwdg-state-secondary-up?                   boolean
|  |  +--ro fwdg-state-secondary-active?               boolean
|  |  +--ro fwdg-state-secondary-down?                 boolean
|  |  +--ro fwdg-state-detour-up?                      boolean
|  |  +--ro fwdg-state-detour-active?                  boolean
|  |  +--ro fwdg-state-detour-down?                    boolean
|  |  +--ro admin-group-configured?                    boolean
|  |  +--ro exclude-any [admin-group-id]
|  |  |  +--ro admin-group-id      uint32
|  |  |  +--ro admin-group-name?   string
|  |  +--ro include-any [admin-group-id]
|  |  |  +--ro admin-group-id      uint32
|  |  |  +--ro admin-group-name?   string
|  |  +--ro include-all [admin-group-id]
|  |     +--ro admin-group-id      uint32
|  |     +--ro admin-group-name?   string
```

```
|  +--ro backup
|  |  +--ro backup-present?                boolean
|  |  +--ro backup-count?                  uint32
|  |  +--ro backup-ingress-count?          uint32
|  |  +--ro backup-ingress-active-count?   uint32
|  |  +--ro backup-transit-count?          uint32
|  |  +--ro backup-transit-active-count?   uint32
|  |  +--ro backup-ingress [backup-from-address backup-to-address backup-name]
|  |  |  +--ro backup-from-address    inet:ipv4-address
|  |  |  +--ro backup-to-address      inet:ipv4-address
|  |  |  +--ro backup-name            string
|  |  |  +--ro backup-type-ingress?   boolean
|  |  |  +--ro backup-type-transit?   boolean
|  |  |  +--ro backup-is-active?      boolean
|  |  +--ro backup-transit [backup-from-address backup-to-address backup-name]
|  |     +--ro backup-from-address    inet:ipv4-address
|  |     +--ro backup-to-address      inet:ipv4-address
|  |     +--ro backup-name            string
|  |     +--ro backup-type-ingress?   boolean
|  |     +--ro backup-type-transit?   boolean
|  |     +--ro backup-is-active?      boolean
|  +--ro instances [instance-id lsp-id]
|  |  +--ro instance-id                                    uint32
|  |  +--ro lsp-id                                         uint32
|  |  +--ro current-instance?                              boolean
|  |  +--ro new-instance?                                  boolean
|  |  +--ro old-instance?                                  boolean
|  |  +--ro is-primary?                                    boolean
|  |  +--ro is-current-secondary?                          boolean
|  |  +--ro is-selected-secondary?                         boolean
|  |  +--ro instance-admin-up?                             boolean
|  |  +--ro instance-is-up?                                boolean
|  |  +--ro instance-is-active?                            boolean
|  |  +--ro is-adaptive?                                   boolean
|  |  +--ro is-bypass?                                     boolean
|  |  +--ro is-dynamic-bypass?                             boolean
|  |  +--ro config-admin-up?                               boolean
|  |  +--ro config-from-address-configured?                boolean
|  |  +--ro config-from-address?                           inet:ipv4-address
|  |  +--ro config-to-address?                             inet:ipv4-address
|  |  +--ro config-type-bypass?                            boolean
|  |  +--ro config-type-dynamic?                           boolean
|  |  +--ro config-adaptive?                               boolean
|  |  +--ro config-ospf-area?                              inet:ipv4-address
|  |  +--ro config-isis-level?                             uint32
|  |  +--ro config-number-of-retries-configured?           boolean
|  |  +--ro config-number-of-retries?                      uint32
|  |  +--ro config-path-select-mode?                       lsp-path-selection-mode
|  |  +--ro config-path-selected-path?                     lsp-selected-path
|  |  +--ro config-path-selected-secondary-name?           string
|  |  +--ro config-revert-time-configured?                 boolean
|  |  +--ro config-revert-time?                            uint32
|  |  +--ro config-retry-count-configured?                 boolean
|  |  +--ro config-retry-count?                            uint32
|  |  +--ro config-enable-ldp-tunnelling?                  boolean
|  |  +--ro config-shortcut-ospf?                          boolean
|  |  +--ro config-shortcut-area-configured?               boolean
|  |  +--ro config-shortcut-area?                          uint32
|  |  +--ro config-notify-ospf?                            boolean
|  |  +--ro config-shortcut-isis?                          boolean
|  |  +--ro config-isis-shortcut-level-configured?         boolean
|  |  +--ro config-isis-shortcut-level?                    uint32
|  |  +--ro config-notify-isis?                            boolean
|  |  +--ro config-metric-configured?                      boolean
|  |  +--ro config-metric?                                 uint32
|  |  +--ro config-ospf-ignore-metric?                     boolean
|  |  +--ro config-ospf-relative-metric?                   uint32
|  |  +--ro config-ospf-announce-metric?                   boolean
|  |  +--ro config-ospf-aaf?                               uint32
|  |  +--ro config-isis-ignore-metric?                     boolean
|  |  +--ro config-isis-relative-metric?                   uint32
|  |  +--ro config-isis-announce-configured?               boolean
```

```
|   |  +--ro config-isis-announce-metric?                  uint32
|   |  +--ro config-path-configured?                       boolean
|   |  +--ro config-path?                                  string
|   |  +--ro config-reoptimize-timer-configured?           boolean
|   |  +--ro config-reoptimize-time?                       uint32
|   |  +--ro config-tspec-mtu-configured?                  boolean
|   |  +--ro config-tspec-mtu?                             uint32
|   |  +--ro config-cos-configured?                        boolean
|   |  +--ro config-cos?                                   uint8
|   |  +--ro config-mtu-configured?                        boolean
|   |  +--ro config-mtu?                                   uint32
|   |  +--ro config-tie-breaking-configured?               boolean
|   |  +--ro config-tie-break-random?                      boolean
|   |  +--ro config-tie-break-least-fill?                  boolean
|   |  +--ro config-tie-break-most-fill?                   boolean
|   |  +--ro config-cspf-disabled?                         boolean
|   |  +--ro config-rro-disabled?                          boolean
|   |  +--ro config-hot-standby?                           boolean
|   |  +--ro config-pinned?                                boolean
|   |  +--ro config-persistenct?                           boolean
|   |  +--ro config-frr-global-revertive?                  boolean
|   |  +--ro config-frr-hold-time?                         uint32
|   |  +--ro config-soft-prempt?                           boolean
|   |  +--ro config-exclude-interface-change?              boolean
|   |  +--ro config-prority-configured?                    boolean
|   |  +--ro config-setup-prority?                         uint8
|   |  +--ro config-holding-prority?                       uint8
|   |  +--ro config-hop-limit-configured?                  boolean
|   |  +--ro config-hop-limit?                             uint8
|   |  +--ro config-traffic-eng-rate-configured?           boolean
|   |  +--ro config-traffic-eng-mean-rate?                 uint32
|   |  +--ro config-traffic-eng-max-rate?                  uint32
|   |  +--ro config-traffic-eng-max-burst?                 uint32
|   |  +--ro config-abw-configured?                        boolean
|   |  +--ro config-bfd-configured?                        boolean
|   |  +--ro config-admin-group-configured?                boolean
|   |  +--ro config-cspf-computation-mode?                 lsp-cspf-computation-mode
|   |  +--ro path-computed-by-cspf?                        boolean
|   |  +--ro path-computed-by-interface-constraint?        boolean
|   |  +--ro cspf-computation-mode?                        lsp-cspf-computation-mode
|   |  +--ro cspf-group-computation-mode-default?          boolean
|   |  +--ro cspf-group-computation-mode-add-penalty?      boolean
|   |  +--ro cspf-group-computation-mode-exclude-groups?   boolean
|   |  +--ro cspf-group-computation-mode-high-cost?        boolean
|   |  +--ro cspf-path-cost?                               uint32
|   |  +--ro cspf-path-area?                               uint32
|   |  +--ro cspf-computation-error?                       uint32
|   |  +--ro cspf-exclude-hops-present?                    boolean
|   |  +--ro rsvp-session-present?                         boolean
|   |  +--ro rsvp-session-state-up?                        boolean
|   |  +--ro rsvp-session-state?                           uint8
|   |  +--ro rsvp-session-path-error-code?                 uint32
|   |  +--ro rsvp-session-path-error-value?                uint32
|   |  +--ro rsvp-session-path-error-node-address?         inet:ipv4-address
|   |  +--ro rsvp-session-rro-hops-present?                boolean
|   |  +--ro config-exclude-interface-configured?          boolean
|   |  +--ro maximum-bandwidth?                            uint32
|   |  +--ro unreserved-priority-0-bandwidth?              uint32
|   |  +--ro unreserved-priority-1-bandwidth?              uint32
|   |  +--ro unreserved-priority-2-bandwidth?              uint32
|   |  +--ro unreserved-priority-3-bandwidth?              uint32
|   |  +--ro unreserved-priority-4-bandwidth?              uint32
|   |  +--ro unreserved-priority-5-bandwidth?              uint32
|   |  +--ro unreserved-priority-6-bandwidth?              uint32
|   |  +--ro unreserved-priority-7-bandwidth?              uint32
|   |  +--ro config-frr-configured?                        boolean
|   |  +--ro config-frr-one-to-one?                        boolean
|   |  +--ro config-frr-one-to-many?                       boolean
|   |  +--ro config-frr-priority-configured?               boolean
|   |  +--ro config-frr-setup-priority?                    uint8
|   |  +--ro config-frr-holding-priority?                  uint8
|   |  +--ro config-frr-hop-limit-configured?              boolean
```

```
|  |  +--ro config-frr-hop-limit?                          uint8
|  |  +--ro config-frr-bandwidth-configured?               boolean
|  |  +--ro config-frr-bandwidth?                          uint32
|  |  +--ro config-frr-admin-group-configured?             boolean
|  |  +--ro reoptimize-ignore-count?                       uint32
|  |  +--ro reoptimize-time-count?                         uint32
|  |  +--ro instance-frr-configured?                       uint32
|  |  +--ro instance-frr-up?                               uint32
|  |  +--ro instance-frr-active?                           uint32
|  |  +--ro instance-out-port-id?                          uint32
|  |  +--ro instance-out-port-name?                        string
|  |  +--ro instance-out-label?                            uint32
|  |  +--ro instance-revert-time?                          uint32
|  |  +--ro instance-retry-count?                          uint32
|  |  +--ro instance-up-down-count?                        uint32
|  |  +--ro instance-metric?                               uint8
|  |  +--ro instance-down-reason?                          string
|  |  +--ro config-exclude-interfaces [exclude-interface-name]
|  |  |  +--ro exclude-interface-name    string
|  |  +--ro config-exclude-any [admin-group-id]
|  |  |  +--ro admin-group-id      uint32
|  |  |  +--ro admin-group-name?   string
|  |  +--ro config-include-any [admin-group-id]
|  |  |  +--ro admin-group-id      uint32
|  |  |  +--ro admin-group-name?   string
|  |  +--ro config-include-all [admin-group-id]
|  |  |  +--ro admin-group-id      uint32
|  |  |  +--ro admin-group-name?   string
|  |  +--ro cspf-path-hops [hop-index hop-address]
|  |  |  +--ro hop-index               uint32
|  |  |  +--ro hop-address             inet:ipv4-address
|  |  |  +--ro type?                   hop-type
|  |  |  +--ro hop-is-router-id?       boolean
|  |  |  +--ro protection?             boolean
|  |  |  +--ro node-protection?        boolean
|  |  |  +--ro bandwidth-protection?   boolean
|  |  |  +--ro protection-in-use?      boolean
|  |  +--ro cspf-exclude-hops [hop-index hop-address]
|  |  |  +--ro hop-index               uint32
|  |  |  +--ro hop-address             inet:ipv4-address
|  |  |  +--ro type?                   hop-type
|  |  |  +--ro hop-is-router-id?       boolean
|  |  |  +--ro protection?             boolean
|  |  |  +--ro node-protection?        boolean
|  |  |  +--ro bandwidth-protection?   boolean
|  |  |  +--ro protection-in-use?      boolean
|  |  +--ro rsvp-session-rro-hops [hop-index hop-address]
|  |  |  +--ro hop-index               uint32
|  |  |  +--ro hop-address             inet:ipv4-address
|  |  |  +--ro type?                   hop-type
|  |  |  +--ro hop-is-router-id?       boolean
|  |  |  +--ro protection?             boolean
|  |  |  +--ro node-protection?        boolean
|  |  |  +--ro bandwidth-protection?   boolean
|  |  |  +--ro protection-in-use?      boolean
|  |  +--ro config-frr-exclude-any [admin-group-id]
|  |  |  +--ro admin-group-id      uint32
|  |  |  +--ro admin-group-name?   string
|  |  +--ro config-frr-include-any [admin-group-id]
|  |  |  +--ro admin-group-id      uint32
|  |  |  +--ro admin-group-name?   string
|  |  +--ro config-frr-include-all [admin-group-id]
|  |     +--ro admin-group-id      uint32
|  |     +--ro admin-group-name?   string
|  +--ro secondary-path [path-name]
|     +--ro path-name                              string
|     +--ro path-up?                               boolean
|     +--ro active?                                boolean
|     +--ro instance-id?                           boolean
|     +--ro committed?                             boolean
|     +--ro is-new-instance?                       boolean
|     +--ro is-current-secondary?                  boolean
```

```
|     +--ro is-selected-secondary?                boolean
|     +--ro config-adaptive?                      boolean
|     +--ro config-reoptimize-timer-configured?   boolean
|     +--ro config-reoptimize-timer?              uint32
|     +--ro config-reoptimize-timer-count?        uint32
|     +--ro config-tspec-mtu-configured?          boolean
|     +--ro config-tspec-mtu?                     uint32
|     +--ro config-cos-configured?                boolean
|     +--ro config-cos?                           uint32
|     +--ro config-mtu-configured?                boolean
|     +--ro config-mtu?                           uint32
|     +--ro config-tie-breaking-configured?       boolean
|     +--ro config-tie-break-random?              boolean
|     +--ro config-tie-break-least-fill?          boolean
|     +--ro config-tie-break-most-fill?           boolean
|     +--ro config-cspf-disabled?                 boolean
|     +--ro config-rro-disabled?                  boolean
|     +--ro config-hot-standby?                   boolean
|     +--ro config-pinned?                        boolean
|     +--ro config-persistent?                    boolean
|     +--ro config-soft-prempt?                   boolean
|     +--ro config-priority-configured?           boolean
|     +--ro config-setup-prority?                 uint8
|     +--ro config-holding-prority?               uint8
|     +--ro config-hop-limit-configured?          boolean
|     +--ro config-hop-limit?                     uint8
|     +--ro config-traffic-eng-rate-configured?   boolean
|     +--ro config-traffic-eng-mean-rate?         uint32
|     +--ro config-traffic-eng-max-rate?          uint32
|     +--ro config-traffic-eng-max-burst?         uint32
|     +--ro config-abw-configured?                boolean
|     +--ro config-cspf-computation-mode?         lsp-cspf-computation-mode
|     +--ro config-admin-group-configured?        boolean
|     +--ro config-exclude-any [admin-group-id]
|     |  +--ro admin-group-id      uint32
|     |  +--ro admin-group-name?   string
|     +--ro config-include-any [admin-group-id]
|     |  +--ro admin-group-id      uint32
|     |  +--ro admin-group-name?   string
|     +--ro config-include-all [admin-group-id]
|        +--ro admin-group-id      uint32
|        +--ro admin-group-name?   string
+--ro forwarding-entry [entry-index sync-index]
|  +--ro entry-index           uint32
|  +--ro sync-index            uint32
|  +--ro dest-ip-prefix?       inet:ipv4-prefix
|  +--ro in-label?             uint32
|  +--ro out-label?            uint32
|  +--ro protocol?             mpls-protocol
|  +--ro out-interface-name?   string
|  +--ro nexthop-ip-addr?      inet:ipv4-address
|  +--ro type?                 mpls-forwarding-entry-type
+--ro route [entry-index]
|  +--ro entry-index           uint32
|  +--ro outseg-index?         uint32
|  +--ro dest-ip-prefix?       inet:ipv4-prefix
|  +--ro gateway-ip-addr?      inet:ipv4-address
|  +--ro out-interface-name?   string
|  +--ro out-label?            uint32
|  +--ro protocol?             mpls-protocol
|  +--ro vif-index?            uint32
|  +--ro metric?               uint32
|  +--ro use-count?            uint32
+--ro tunnel-traffic-statistics [index]
|  +--ro index               uint32
|  +--ro protocol?           mpls-protocol
|  +--ro name?               string
|  +--ro is-bypass?          boolean
|  +--ro statistics-valid?   boolean
|  +--ro statistics
|     +--ro number-of-packets?              uint64
|     +--ro number-of-packets-since-clear?   uint64
```

```
|     +--ro number-of-bytes?                 uint64
|     +--ro number-of-bytes-since-clear?     uint64
|     +--ro packets-per-second?              uint64
|     +--ro bytes-per-second?                uint64
|     +--ro averaging-interval-seconds?      uint32
+--ro transit-traffic-statistics [in-label]
   +--ro in-label            uint32
   +--ro protocol?           mpls-protocol
   +--ro statistics-valid?   boolean
   +--ro statistics
      +--ro number-of-packets?               uint64
      +--ro number-of-packets-since-clear?   uint64
      +--ro number-of-bytes?                 uint64
      +--ro number-of-bytes-since-clear?     uint64
      +--ro packets-per-second?              uint64
      +--ro bytes-per-second?                uint64
      +--ro averaging-interval-seconds?      uint32
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-mpls

Provides a data model to manage the Multiprotocol Label Switching (MPLS) protocol.

Top-level container

```
module: brocade-mpls
   +--rw mpls-config
      +--rw router
         +--rw mpls?
            +--rw mpls-cmds-holder
               +--rw lsp-xc-traps
               |  +--rw lsp-xc-traps-enable?   empty
               +--rw policy?
               |  +--rw policy-admin-group [admin-group-name admin-group-number]
               |  |  +--rw admin-group-name      string
               |  |  +--rw admin-group-number    uint32
               |  +--rw backup-retry-time?            uint32
               |  +--rw cspf-computation-mode
               |  |  +--rw use-bypass-liberal?    empty
               |  |  +--rw use-bypass-metric?     empty
               |  |  +--rw ignore-overload-bit?   empty
               |  |  +--rw cspf-metric-type?      cspf-computation-mode
               |  +--rw cspf-group-computation
               |  |  +--rw add-penalty?   empty
               |  +--rw cspf-interface-constraint?     empty
               |  +--rw handle-isis-neighbor-down?     empty
               |  +--rw handle-ospf-neighbor-down?     empty
               |  +--rw load-interval?                 uint32
               |  +--rw retry-time?                    uint32
               |  +--rw retry-limit?                   uint32
               |  +--rw rapid-retry?                   enable-disable
               |  +--rw rsvp-periodic-flooding-time?   uint32
               |  +--rw rsvp-flooding-threshold
               |  |  +--rw rsvp-flooding-threshold-down*   uint32
               |  |  +--rw rsvp-flooding-threshold-up*     uint32
               |  +--rw soft-preemption
               |  |  +--rw cleanup-timer?   uint32
               |  +--rw global-auto-bandwidth?
               |  |  +--rw autobw-sample-interval?     uint32
               |  |  +--rw autobw-num-sample-record?   uint32
               |  +--rw implicit-commit
               |  |  +--rw (implicit-commit-options)?
               |  |     +--:(implicit-commit-case-all)
               |  |     |  +--rw implicit-commit-all?                    empty
               |  |     +--:(implicit-commit-case-selective)
               |  |        +--rw implicit-commit-autobw-adjustment?      empty
               |  |        +--rw implicit-commit-lsp-reoptimize-timer?   empty
               |  +--rw traffic-engineering
               |  |  +--rw isis-set-level?     enumeration
               |  |  +--rw traffic-eng-ospf
               |  |     +--rw area
               |  |        +--rw (ch-ospf-area-type)?
               |  |           +--:(ca-area-type-ip-address)
               |  |           |  +--rw ospf-area-as-ip-address?   inet:ipv4-address
               |  |           +--:(ca-area-type-decimal)
               |  |           |  +--rw ospf-area-as-decimal?      uint32
               |  |           +--:(ca-area-all)
               |  |              +--rw ospf-area-all?             empty
               |  +--rw qos-ttl-mode?                  enumeration
               |  +--rw ingress-tunnel-accounting?     empty
               |  +--rw transit-session-accounting?    empty
               +--rw rsvp?
               |  +--rw refresh-interval?                    uint32
               |  +--rw refresh-multiple?                    uint32
               |  +--rw g-refresh-reduction
               |  |  +--rw refresh-reduction-all?   empty
               |  |  +--rw summary-refresh?         empty
```

```
|  |  +--rw bundle-message?
|  |     +--rw bundle-send-delay?   uint32
|  +--rw g-reliable-messaging?
|  |  +--rw rapid-retrans-decay?      uint32
|  |  +--rw rapid-retrans-interval?   uint32
|  |  +--rw rapid-retry-limit?        uint32
|  +--rw global-rsvp-hello?
|  |  +--rw global-rsvp-hello-interval?    uint32
|  |  +--rw global-rsvp-hello-tolerance?   uint32
|  +--rw global-rsvp-hello-acknowledgements?   empty
|  +--rw global-rsvp-hello-unprioritize?       empty
|  +--rw g-rsvp-backup-bw-guarantee?           empty
+--rw ldp?
|  +--rw ldp-holder
|     +--rw ldp-ecmp?                          uint32
|     +--rw ldp-hello-interval-basic?          uint32
|     +--rw ldp-hello-interval-target?         uint32
|     +--rw ldp-hello-timeout-basic?           uint32
|     +--rw ldp-hello-timeout-target?          uint32
|     +--rw ldp-ka-int?                        uint32
|     +--rw ldp-ka-int-cnt?                    uint32
|     +--rw ldp-ka-timeout?                    uint32
|     +--rw ldp-fec-filter-in?                 string
|     +--rw ldp-fec-filter-out?                string
|     +--rw ldp-advertise-label?               string
|     +--rw ldp-fec-128-for-auto-discovered?   empty
|     +--rw ldp-lsr-id?                        inet:ipv4-address
|     +--rw ldp-session [ldp-session-ip]
|     |  +--rw ldp-session-ip                inet:ipv4-address
|     |  +--rw ldp-session-fec-filter-out?   string
|     |  +--rw ldp-session-auth-key?         string
|     +--rw ldp-targeted-peer [ldp-targeted-peer-ip]
|     |  +--rw ldp-targeted-peer-ip    inet:ipv4-address
|     +--rw ldp-rcv-label-silence-time?        uint32
|     +--rw ldp-startup-time?                  uint32
|     +--rw ldp-gr?
|     |  +--rw ldp-gr-helper-only?                    empty
|     |  +--rw ldp-gr-max-neighbor-reconnect-time?   uint32
|     |  +--rw ldp-gr-max-neighbor-recovery-time?    uint32
|     |  +--rw ldp-gr-reconnect-time?                uint32
|     |  +--rw ldp-gr-recovery-time?                 uint32
|     +--rw ldp-eol?
|     |  +--rw ldp-eol-tx-silence?     uint32
|     |  +--rw ldp-eol-notification?   uint32
|     +--rw ldp-tunnel-metric?                 uint32
|     +--rw ldp-lw-delay?                      uint32
+--rw bfd?
|  +--rw bfd-sub-cmds
|     +--rw bfd-min-tx
|        +--rw bfd-min-tx-val?   bfd-rate
|        +--rw bfd-min-rx?       bfd-rate
|        +--rw bfd-multiplier?   uint32
+--rw dynamic-bypass?
|  +--rw mpls-dynamic-bypass-sub-cmds
|     +--rw dynamic-bypass-max-bypasses?            uint32
|     +--rw dynamic-bypass-max-bypasses-per-mp?     uint32
|     +--rw dynamic-bypass-enable-all-interfaces?   empty
|     +--rw dynamic-bypass-reoptimize-timer?        uint32
|     +--rw dynamic-bypass-disable?                 empty
+--rw mpls-interface [interface-type interface-name]
|  +--rw interface-type               enumeration
|  +--rw interface-name               interface-type
|  +--rw mpls-interface-ldp-enable?   empty
|  +--rw ldp-params
|  |  +--rw ldp-param-cmds
|  |     +--rw hello-interval?   uint32
|  |     +--rw hello-timeout?    uint32
|  +--rw rsvp
|  |  +--rw rsvp-reservable-bandwidth
|  |  |  +--rw (rsvp-reservable-bandwidth-options)?
|  |  |     +--:(reservable-bandwidth-case-exact)
|  |  |     |  +--rw reservable-bandwidth?              uint32
```

```
|  |  |     +--:(reservable-bandwidth-case-percentage)
|  |  |        +--rw reservable-bandwidth-percentage?   uint32
|  |  +--rw rsvp-authentication
|  |  |  +--rw rsvp-authentication-key?   string
|  |  +--rw interface-rsvp-hello?
|  |  |  +--rw rsvp-hello-interval?    uint32
|  |  |  +--rw rsvp-hello-tolerance?   uint32
|  |  +--rw rsvp-hello-disable?             empty
|  |  +--rw rsvp-te-metric?                 uint32
|  |  +--rw rsvp-intf-flooding-threshold
|  |  |  +--rw rsvp-intf-flooding-threshold-down*   uint32
|  |  |  +--rw rsvp-intf-flooding-threshold-up*     uint32
|  |  +--rw interface-rsvp-admin-group*     string
|  |  +--rw interface-refresh-reduction
|  |  |  +--rw refresh-reduction-all?            empty
|  |  |  +--rw summary-refresh?                  empty
|  |  |  +--rw bundle-message?
|  |  |  |  +--rw bundle-send-delay?   uint32
|  |  |  +--rw rsvp-refresh-reduction-disable?   empty
|  |  +--rw interface-reliable-messaging?
|  |     +--rw rapid-retrans-decay?               uint32
|  |     +--rw rapid-retrans-interval?            uint32
|  |     +--rw rapid-retry-limit?                 uint32
|  |     +--rw rsvp-reliable-messaging-disable?   empty
|  +--rw interface-dynamic-bypass?
|     +--rw mpls-interface-dynamic-bypass-sub-cmds
|        +--rw interface-dynamic-bypass-disable?                  empty
|        +--rw interface-dynamic-bypass-max-bypasses?             uint32
|        +--rw interface-dynamic-bypass-max-bypasses-per-mp?      uint32
|        +--rw interface-dynamic-bypass-reoptimize-timer?         uint32
|        +--rw interface-dynamic-bypass-cos?                      uint32
|        +--rw interface-dynamic-bypass-from?                     inet:ip-address
|        +--rw interface-dynamic-bypass-adaptive?                 enable-disable
|        +--rw interface-dynamic-bypass-record-route?             enable-disable
|        +--rw interface-dynamic-bypass-hop-limit?                uint8
|        +--rw interface-dynamic-bypass-exclude-any*              string
|        +--rw interface-dynamic-bypass-include-any*              string
|        +--rw interface-dynamic-bypass-include-all*              string
|        +--rw interface-dynamic-bypass-primary-path?             string
|        +--rw interface-dynamic-bypass-name-prefix?              string
|        +--rw interface-dynamic-bypass-tie-breaking?             tie-breaking
|        +--rw interface-dynamic-bypass-cspf-computation-mode?   cspf-computation-mode
|        +--rw priority
|        |  +--rw interface-dynamic-bypass-setup-priority?     uint32
|        |  +--rw interface-dynamic-bypass-holding-priority?   uint32
|        +--rw traffic-eng
|           +--rw interface-dynamic-bypass-traffic-eng-max-burst?   uint32
|           +--rw interface-dynamic-bypass-traffic-eng-max-rate?    uint32
|           +--rw interface-dynamic-bypass-traffic-eng-mean-rate?   uint32
+--rw autobw-template [autobw-template-name]
|  +--rw autobw-template-name    string
|  +--rw adjustment-interval?    uint32
|  +--rw adjustment-threshold?   uint32
|  +--rw min-bandwidth?          uint32
|  +--rw max-bandwidth?          uint32
|  +--rw overflow-limit?         uint32
|  +--rw mode?                   autobw-mode
|  +--rw sample-recording?       enable-disable
|  +--rw underflow-limit?        uint32
+--rw autobw-threshold-table?
|  +--rw autobw-threshold-table-bandwidth [bandwidth-value]
|  |  +--rw bandwidth-value                     uint32
|  |  +--rw autobw-threshold-table-threshold?   uint32
|  +--rw max-bw-threshold
|     +--rw (max-bw-threshold-options)?
|        +--:(max-bw-threshold-case-absolute)
|        |  +--rw max-bw-threshold-absolute?     uint32
|        +--:(max-bw-threshold-case-percentage)
|           +--rw max-bw-threshold-percentage?   uint32
+--rw cspf-group [cspf-group-name]
|  +--rw cspf-group-name         string
|  +--rw cspf-group-ip [cspf-group-ip-address]
```

```
|  |  +--rw cspf-group-ip-address    inet:ipv4-address
|  +--rw cspf-group-link [cspf-group-link-from cspf-group-link-to]
|  |  +--rw cspf-group-link-from    inet:ipv4-address
|  |  +--rw cspf-group-link-to      inet:ipv4-address
|  +--rw cspf-group-subnet [cspf-group-subnet-ip]
|  |  +--rw cspf-group-subnet-ip    inet:ipv4-prefix
|  +--rw cspf-group-node [cspf-group-node-ip]
|  |  +--rw cspf-group-node-ip    inet:ipv4-address
|  +--rw cspf-group-penalty-n
|     +--rw cspf-group-penalty?   uint32
+--rw path [path-name]
|  +--rw path-name      string
|  +--rw path-hop [path-hop-ip]
|  |  +--rw path-hop-ip      inet:ipv4-address
|  |  +--rw path-hop-type?   strict-loose-hop
|  +--rw path-insert [path-insert-ip]
|     +--rw path-insert-ip               inet:ipv4-address
|     +--rw path-insert-type?            strict-loose-hop
|     +--rw path-insert-before-hop-ip?   inet:ipv4-address
+--rw bypass-lsp [bypass-lsp-name]
|  +--rw bypass-lsp-name              string
|  +--rw bypass-lsp-dest-address?     inet:ipv4-address
|  +--rw bypass-lsp-src-address?      inet:ipv4-address
|  +--rw bypass-lsp-tie-breaking?     tie-breaking
|  +--rw lsp-adaptive?                empty
|  +--rw lsp-reoptimize-timer?        uint32
|  +--rw lsp-commit?                  empty
|  +--rw lsp-record?                  enable-disable
|  +--rw lsp-cos?                     uint32
|  +--rw lsp-hop-limit?               uint16
|  +--rw lsp-cspf-computation-mode?   cspf-computation-mode
|  +--rw lsp-traffic-engineering
|  |  +--rw lsp-te-mean-rate?   uint32
|  |  +--rw lsp-te-max-rate?    uint32
|  |  +--rw lsp-te-max-burst?   uint32
|  +--rw priority
|  |  +--rw lsp-setup-priority?   uint32
|  |  +--rw lsp-hold-priority?    uint32
|  +--rw lsp-exclude-any*             string
|  +--rw lsp-include-any*             string
|  +--rw lsp-include-all*             string
|  +--rw exclude-interface [bypass-exclude-interface-type bypass-exclude-interface-name]
|  |  +--rw bypass-exclude-interface-type    mpls-interface-type
|  |  +--rw bypass-exclude-interface-name    interface-type
|  +--rw bypass-lsp-primary-path?     string
|  +--rw bypass-lsp-enable?           empty
+--rw lsp [lsp-name]
   +--rw lsp-name                     string
   +--rw lsp-dest-address?            inet:ipv4-address
   +--rw lsp-cspf?                    enable-disable
   +--rw lsp-ipmtu?                   uint32
   +--rw lsp-metric?                  uint32
   +--rw lsp-revert-timer?            uint32
   +--rw lsp-tie-breaking?            tie-breaking
   +--rw lsp-src-address?             inet:ipv4-address
   +--rw lsp-primary-path?            string
   +--rw lsp-adaptive?                empty
   +--rw lsp-reoptimize-timer?        uint32
   +--rw lsp-commit?                  empty
   +--rw lsp-record?                  enable-disable
   +--rw lsp-cos?                     uint32
   +--rw lsp-hop-limit?               uint16
   +--rw lsp-cspf-computation-mode?   cspf-computation-mode
   +--rw lsp-traffic-engineering
   |  +--rw lsp-te-mean-rate?   uint32
   |  +--rw lsp-te-max-rate?    uint32
   |  +--rw lsp-te-max-burst?   uint32
   +--rw priority
   |  +--rw lsp-setup-priority?   uint32
   |  +--rw lsp-hold-priority?    uint32
   +--rw lsp-exclude-any*             string
   +--rw lsp-include-any*             string
```

```
+--rw lsp-include-all*             string
+--rw lsp-soft-preemption?         empty
+--rw lsp-auto-bandwidth?
|  +--rw lsp-autobw-template?    leafref
|  +--rw adjustment-interval?    uint32
|  +--rw adjustment-threshold?   uint32
|  +--rw min-bandwidth?          uint32
|  +--rw max-bandwidth?          uint32
|  +--rw overflow-limit?         uint32
|  +--rw mode?                   autobw-mode
|  +--rw sample-recording?       enable-disable
|  +--rw underflow-limit?        uint32
+--rw lsp-frr?
|  +--rw lsp-frr-bandwidth
|  |  +--rw (lsp-frr-bandwidth-options)?
|  |     +--:(lsp-frr-bandwidth-case-exact)
|  |     |  +--rw lsp-frr-bandwidth?           uint32
|  |     +--:(lsp-frr-bandwidth-case-inherit)
|  |        +--rw lsp-frr-bandwidth-inherit?   empty
|  +--rw lsp-frr-exclude-any*       string
|  +--rw lsp-frr-include-any*       string
|  +--rw lsp-frr-include-all*       string
|  +--rw lsp-frr-hop-limit?         uint8
|  +--rw lsp-frr-facility-backup?   empty
|  +--rw lsp-frr-link-protection?   empty
|  +--rw lsp-frr-priority
|  |  +--rw lsp-frr-setup-priority?   uint32
|  |  +--rw lsp-frr-hold-priority?    uint32
|  +--rw lsp-frr-revertive
|     +--rw lsp-frr-revertive-holdtime?      uint8
|     +--rw lsp-frr-revertive-mode-global?   enable-disable
+--rw secondary-path [secpath-name]
|  +--rw secpath-name                  string
|  +--rw secpath-standby?              empty
|  +--rw secpath-bfd?                  empty
|  +--rw secpath-cspf?                 enable-disable
|  +--rw secpath-ipmtu?                uint32
|  +--rw lsp-adaptive?                 empty
|  +--rw lsp-reoptimize-timer?         uint32
|  +--rw lsp-commit?                   empty
|  +--rw lsp-record?                   enable-disable
|  +--rw lsp-cos?                      uint32
|  +--rw lsp-hop-limit?                uint16
|  +--rw lsp-cspf-computation-mode?    cspf-computation-mode
|  +--rw lsp-traffic-engineering
|  |  +--rw lsp-te-mean-rate?   uint32
|  |  +--rw lsp-te-max-rate?    uint32
|  |  +--rw lsp-te-max-burst?   uint32
|  +--rw priority
|  |  +--rw lsp-setup-priority?   uint32
|  |  +--rw lsp-hold-priority?    uint32
|  +--rw lsp-exclude-any*              string
|  +--rw lsp-include-any*              string
|  +--rw lsp-include-all*              string
|  +--rw secpath-soft-preemption?      empty
|  +--rw lsp-secpath-auto-bandwidth?
|     +--rw lsp-secpath-autobw-template?   leafref
|     +--rw adjustment-interval?           uint32
|     +--rw adjustment-threshold?          uint32
|     +--rw min-bandwidth?                 uint32
|     +--rw max-bandwidth?                 uint32
|     +--rw overflow-limit?                uint32
|     +--rw mode?                          autobw-mode
|     +--rw sample-recording?              enable-disable
|     +--rw underflow-limit?               uint32
+--rw lsp-select-path
|  +--rw lsp-select-path-mode?             enumeration
|  +--rw (choice-lsp-select-path-type)?
|     +--:(case-lsp-select-path-type-primary)
|     |  +--rw lsp-select-path-primary?          empty
|     +--:(case-lsp-select-path-type-secondary)
```

```
|        +--rw lsp-select-path-secondary-name?   string
+--rw lsp-enable?                  empty
```

RPCs

```
rpcs:
  +---x show-mpls-summary
  |  +--ro output
  |     +--ro paths-configured?              uint32
  |     +--ro lsps-configured?               uint32
  |     +--ro lsps-enabled?                  uint32
  |     +--ro lsps-operational?              uint32
  |     +--ro detour-lsps-up?                uint32
  |     +--ro backup-lsps-up?                uint32
  |     +--ro bypass-lsps?                   uint32
  |     +--ro bypass-lsps-up?                uint32
  |     +--ro bypass-lsps-enabled?           uint32
  |     +--ro ldp-lsps-operational?          uint32
  |     +--ro transit-lsps-configured?       uint32
  |     +--ro transit-lsps-enabled?          uint32
  |     +--ro transit-lsps-operational?      uint32
  |     +--ro cspf-groups-configured?        uint32
  |     +--ro tunnels-supported?             uint32
  |     +--ro tunnels-allocated?             uint32
  |     +--ro cross-connects-supported?      uint32
  |     +--ro cross-connects-allocated?      uint32
  |     +--ro auto-bw-templates-supported?   uint32
  |     +--ro auto-bw-templates-configured?  uint32
  |     +--ro times_enabled?                 uint32
  +---x show-mpls-te-path
  |  +--ro input
  |  |  +--ro ipAddr          inet:ipv4-address
  |  |  +--ro bandwidth?      uint32
  |  |  +--ro cspfCompMode?   cspf-computation-mode
  |  |  +--ro excludeAny?     string
  |  |  +--ro hopLimit?       uint8
  |  |  +--ro includeAny?     string
  |  |  +--ro includeAll?     string
  |  |  +--ro tePathName?     string
  |  |  +--ro priority?       uint8
  |  |  +--ro tieBreaking?    tie-breaking
  |  +--ro output
  |     +--ro dest-addr?        inet:ipv4-prefix
  |     +--ro time-taken?       uint32
  |     +--ro hop-taken?        uint16
  |     +--ro cost?             uint32
  |     +--ro cspf-comp-mode?   uint8
  |     +--ro te_igp?           uint8
  |     +--ro te_igp_area?      uint32
  |     +--ro cspf-hop-ip*      inet:ipv4-prefix
  |     +--ro cspf-router-id*   inet:ipv4-prefix
  +---x show-mpls-statistics-ldp-transit
  |  +--ro input
  |  |  +--ro ldp-transit-stats?                    boolean
  |  |  +--ro ldp-transit-stats-fec-prefix?         inet:ipv4-address
  |  |  +--ro ldp-transit-stats-fec-prefix-longer?  boolean
  |  +--ro output
  |     +--ro ldp-transit-stats-rec-list [ldp-transit-stats-prefix-fec]
  |        +--ro ldp-transit-stats-prefix-fec      inet:ipv4-address
  |        +--ro ldp-transit-stats-packet-count?   uint64
  |        +--ro ldp-transit-stats-byte-count?     uint64
  |        +--ro ldp-transit-stats-rate-kbps?      uint64
  +---x show-mpls-statistics-ldp-tunnel
  |  +--ro input
  |  |  +--ro ldp-tunnel-stats?       boolean
  |  |  +--ro ldp-tunnel-stats-vif?   uint32
  |  +--ro output
  |     +--ro ldp-tunnel-stats-rec-list [ldp-tunnel-stats-vif]
  |        +--ro ldp-tunnel-stats-vif              string
```

```
|        +--ro ldp-tunnel-stats-total-packets?   uint64
|        +--ro ldp-tunnel-stats-total-bytes?     uint64
|        +--ro ldp-tunnel-stats-rate-pps?        uint64
|        +--ro ldp-tunnel-stats-rate-bps?        uint64
+---x show-mpls-ldp-path
|  +--ro output
|     +--ro ldp-path-list [ldp-destination-route]
|        +--ro ldp-destination-route       inet:ipv4-prefix
|        +--ro ldp-upstr-session-list
|        |  +--ro ldp-upstr-session?   string
|        +--ro ldp-downstr-session-list
|           +--ro ldp-downstr-session-ip?   string
+---x show-mpls-ldp-path-one
|  +--ro input
|  |  +--ro ldp-path-ip?   inet:ipv4-prefix
|  +--ro output
|     +--ro ldp-destination-route?      inet:ipv4-prefix
|     +--ro ldp-upstr-session-list [ldp-upstr-session]
|     |  +--ro ldp-upstr-session    string
|     +--ro ldp-downstr-session-list [ldp-downstr-session-ip]
|        +--ro ldp-downstr-session-ip    string
+---x show-mpls-ldp-targeted-peer-all
|  +--ro output
|     +--ro ldp-targeted-peer-rec-list [ldp-targeted-peer-id]
|        +--ro ldp-targeted-peer-id    inet:ipv4-address
+---x show-mpls-ldp-targeted-peer-one
|  +--ro input
|  |  +--ro ldp-targeted-peer-ip?   inet:ipv4-address
|  +--ro output
|     +--ro ldp-targeted-peer-id?   inet:ipv4-address
+---x show-mpls-ldp-fec
|  +--ro output
|     +--ro ldp-tot-no-of-prefix-fec?              uint32
|     +--ro ldp-tot-no-of-prefix-fec-installed?    uint32
|     +--ro ldp-tot-no-of-prefix-fec-filtered?     uint32
|     +--ro ldp-tot-no-of-vc-fec-128?              uint32
|     +--ro ldp-tot-no-of-vc-fec-129?              uint32
|     +--ro ldp-tot-no-of-vc-fec-installed?        uint32
|     +--ro ldp-tot-no-of-route-upd-proc-errors?   uint32
|     +--ro ldp-tot-no-of-vc-fec-proc-errors?      uint32
+---x show-mpls-ldp-fec-summary
|  +--ro output
|     +--ro ldp-tot-no-of-prefix-fec?              uint32
|     +--ro ldp-tot-no-of-prefix-fec-installed?    uint32
|     +--ro ldp-tot-no-of-prefix-fec-filtered?     uint32
|     +--ro ldp-tot-no-of-vc-fec-128?              uint32
|     +--ro ldp-tot-no-of-vc-fec-129?              uint32
|     +--ro ldp-tot-no-of-vc-fec-installed?        uint32
|     +--ro ldp-tot-no-of-route-upd-proc-errors?   uint32
|     +--ro ldp-tot-no-of-vc-fec-proc-errors?      uint32
+---x show-mpls-ldp-fec-prefix
|  +--ro output
|     +--ro ldp-tot-no-of-prefix-fec?             uint32
|     +--ro ldp-tot-no-of-prefix-fec-installed?   uint32
|     +--ro ldp-tot-no-of-prefix-fec-filtered?    uint32
|     +--ro ldp-tot-no-of-prefix-fec-lwd?         uint32
|     +--ro ldp-fec-prefix-rec-list [ldp-fec-destination]
|        +--ro ldp-fec-destination          inet:ipv4-address
|        +--ro ldp-fec-state?               ldp-fec-state
|        +--ro ldp-fec-out-intf-rec-list [ldp-fec-nexthop]
|        |  +--ro ldp-fec-out-intf?   string
|        |  +--ro ldp-fec-nexthop     inet:ipv4-address
|        +--ro ldp-fec-ingress?             yes-no
|        +--ro ldp-fec-egress?              yes-no
|        +--ro ldp-fec-filtered?            in-out
|        +--ro ldp-fec-lwd?                 yes-no
+---x show-mpls-ldp-fec-prefix-prefix
|  +--ro input
|  |  +--ro ldp-fec-prefix?   inet:ipv4-prefix
|  +--ro output
|     +--ro ldp-fec-prefix-feccb?                uint32
|     +--ro ldp-fec-prefix-idx?                  uint32
```

```
|     +--ro ldp-fec-prefix-type?                  uint32
|     +--ro ldp-fec-prefix-pend-notif?            ldp-fec-pend-notify
|     +--ro ldp-fec-prefix-state?                 ldp-fec-state
|     +--ro ldp-fec-prefix-Ingress?               yes-no
|     +--ro ldp-fec-prefix-Egress?                yes-no
|     +--ro ldp-fec-prefix-um-dist-done?          yes-no
|     +--ro ldp-fec-prefix-prefix?                inet:ipv4-prefix
|     +--ro ldp-fec-prefix-lwd?                   string
|     +--ro ldp-fec-prefix-lwd-started?           string
|     +--ro ldp-fec-prefix-is-ldp-o-rsvp?         boolean
|     +--ro ldp-fec-prefix-excess-dms?            boolean
|     +--ro ldp-fec-prefix-nexthop-rec-list [ldp-fec-prefix-nexthop]
|     |  +--ro ldp-fec-prefix-nexthop    inet:ipv4-prefix
|     |  +--ro ldp-fec-prefix-out-if?    string
|     +--ro ldp-fec-prefix-downstream-rec-list [ldp-fec-prefix-peer-ldp-id-dw]
|     |  +--ro ldp-fec-prefix-local-ldp-id-dw?         inet:ipv4-address
|     |  +--ro ldp-fec-prefix-local-ldp-lblspc-dw?     uint32
|     |  +--ro ldp-fec-prefix-peer-ldp-id-dw           inet:ipv4-address
|     |  +--ro ldp-fec-prefix-peer-ldp-lblspc-dw?      uint32
|     |  +--ro ldp-fec-prefix-label-dw?                uint32
|     |  +--ro ldp-fec-prefix-state-dw?                ldp-fec-state
|     |  +--ro ldp-fec-prefix-fec-filtered-state-dw?   yes-no
|     |  +--ro ldp-fec-prefix-fec-stale-dw?            yes-no
|     |  +--ro ldp-fec-prefix-feccb-dw?                uint32
|     |  +--ro ldp-fec-prefix-fec-dm-state-dw?         int32
|     +--ro ldp-fec-prefix-upstream-rec-list [ldp-fec-prefix-peer-ldp-id-up]
|        +--ro ldp-fec-prefix-local-ldp-id-up?       inet:ipv4-address
|        +--ro ldp-fec-prefix-local-ldp-lblspc-up?   uint32
|        +--ro ldp-fec-prefix-peer-ldp-id-up         inet:ipv4-address
|        +--ro ldp-fec-prefix-peer-ldp-lblspc-up?    uint32
|        +--ro ldp-fec-prefix-label-up?              uint32
|        +--ro ldp-fec-prefix-feccb-up?              uint32
|        +--ro ldp-fec-prefix-fec-um-state-up?       int32
+---x show-mpls-ldp-fec-prefix-prefix-longer
|  +--ro input
|  |  +--ro ldp-fec-prefix?          inet:ipv4-prefix
|  |  +--ro ldp-fec-prefix-longer?   boolean
|  +--ro output
|     +--ro ldp-fec-prefix-prefix-longer-rec-list [ldp-fec-prefix-feccb]
|        +--ro ldp-fec-prefix-feccb                  uint32
|        +--ro ldp-fec-prefix-idx?                   uint32
|        +--ro ldp-fec-prefix-type?                  uint32
|        +--ro ldp-fec-prefix-pend-notif?            ldp-fec-pend-notify
|        +--ro ldp-fec-prefix-state?                 ldp-fec-state
|        +--ro ldp-fec-prefix-Ingress?               yes-no
|        +--ro ldp-fec-prefix-Egress?                yes-no
|        +--ro ldp-fec-prefix-um-dist-done?          yes-no
|        +--ro ldp-fec-prefix-prefix?                inet:ipv4-prefix
|        +--ro ldp-fec-prefix-lwd?                   string
|        +--ro ldp-fec-prefix-lwd-started?           string
|        +--ro ldp-fec-prefix-is-ldp-over-rsvp?      boolean
|        +--ro ldp-fec-prefix-excess-dms?            boolean
|        +--ro ldp-fec-prefix-nexthop-rec-list [ldp-fec-prefix-nexthop]
|        |  +--ro ldp-fec-prefix-nexthop    inet:ipv4-prefix
|        |  +--ro ldp-fec-prefix-out-if?    string
|        +--ro ldp-fec-prefix-downstream-rec-list [ldp-fec-prefix-peer-ldp-id-dw]
|        |  +--ro ldp-fec-prefix-local-ldp-id-dw?         inet:ipv4-address
|        |  +--ro ldp-fec-prefix-local-ldp-lblspc-dw?     uint32
|        |  +--ro ldp-fec-prefix-peer-ldp-id-dw           inet:ipv4-address
|        |  +--ro ldp-fec-prefix-peer-ldp-lblspc-dw?      uint32
|        |  +--ro ldp-fec-prefix-label-dw?                uint32
|        |  +--ro ldp-fec-prefix-state-dw?                ldp-fec-state
|        |  +--ro ldp-fec-prefix-fec-filtered-state-dw?   yes-no
|        |  +--ro ldp-fec-prefix-fec-stale-dw?            yes-no
|        |  +--ro ldp-fec-prefix-feccb-dw?                uint32
|        |  +--ro ldp-fec-prefix-fec-dm-state-dw?         int32
|        +--ro ldp-fec-prefix-upstream-rec-list [ldp-fec-prefix-peer-ldp-id-up]
|           +--ro ldp-fec-prefix-local-ldp-id-up?       inet:ipv4-address
|           +--ro ldp-fec-prefix-local-ldp-lblspc-up?   uint32
|           +--ro ldp-fec-prefix-peer-ldp-id-up         inet:ipv4-address
|           +--ro ldp-fec-prefix-peer-ldp-lblspc-up?    uint32
|           +--ro ldp-fec-prefix-label-up?              uint32
```

```
|           +--ro ldp-fec-prefix-feccb-up?              uint32
|           +--ro ldp-fec-prefix-fec-um-state-up?       int32
+---x show-mpls-ldp-fec-prefix-filtered
|  +--ro input
|  |  +--ro ldp-fec-prefix-filtered?       boolean
|  |  +--ro ldp-fec-prefix-filtered-in?    boolean
|  |  +--ro ldp-fec-prefix-filtered-out?   boolean
|  +--ro output
|     +--ro ldp-tot-no-of-prefix-fec?             uint32
|     +--ro ldp-tot-no-of-prefix-fec-installed?   uint32
|     +--ro ldp-tot-no-of-prefix-fec-filtered?    uint32
|     +--ro ldp-tot-no-of-prefix-fec-lwd?         uint32
|     +--ro ldp-fec-prefix-rec-list [ldp-fec-destination]
|        +--ro ldp-fec-destination          inet:ipv4-address
|        +--ro ldp-fec-state?               ldp-fec-state
|        +--ro ldp-fec-out-intf-rec-list [ldp-fec-nexthop]
|        |  +--ro ldp-fec-out-intf?   string
|        |  +--ro ldp-fec-nexthop     inet:ipv4-address
|        +--ro ldp-fec-ingress?             yes-no
|        +--ro ldp-fec-egress?              yes-no
|        +--ro ldp-fec-filtered?            in-out
|        +--ro ldp-fec-lwd?                 yes-no
+---x show-mpls-ldp-fec-prefix-prefix-filter
|  +--ro input
|  |  +--ro ldp-fec-prefix-filter?          boolean
|  |  +--ro ldp-fec-prefix-filter-string?   string
|  +--ro output
|     +--ro ldp-tot-no-of-prefix-fec?             uint32
|     +--ro ldp-tot-no-of-prefix-fec-installed?   uint32
|     +--ro ldp-tot-no-of-prefix-fec-filtered?    uint32
|     +--ro ldp-tot-no-of-prefix-fec-lwd?         uint32
|     +--ro ldp-fec-prefix-rec-list [ldp-fec-destination]
|        +--ro ldp-fec-destination          inet:ipv4-address
|        +--ro ldp-fec-state?               ldp-fec-state
|        +--ro ldp-fec-out-intf-rec-list [ldp-fec-nexthop]
|        |  +--ro ldp-fec-out-intf?   string
|        |  +--ro ldp-fec-nexthop     inet:ipv4-address
|        +--ro ldp-fec-ingress?             yes-no
|        +--ro ldp-fec-egress?              yes-no
|        +--ro ldp-fec-filtered?            in-out
|        +--ro ldp-fec-lwd?                 yes-no
+---x show-mpls-ldp-fec-vc
|  +--ro output
|     +--ro ldp-tot-no-of-vc-fec?             uint32
|     +--ro ldp-tot-no-of-vc-fec-installed?   uint32
|     +--ro ldp-fec-vc-rec-list [ldp-fec-peer-id]
|        +--ro ldp-fec-peer-id          inet:ipv4-address
|        +--ro ldp-fec-peer-lblspc?     uint32
|        +--ro ldp-fec-state?           ldp-fec-state
|        +--ro ldp-fec-vc-id?           uint32
|        +--ro ldp-fec-peer-vc-type?    uint32
|        +--ro ldp-fec-peer-fec-type?   uint32
|        +--ro ldp-fec-ingress?         yes-no
|        +--ro ldp-fec-egress?          yes-no
+---x show-mpls-ldp-fec-vc-id
|  +--ro input
|  |  +--ro ldp-fec-vc-id?   uint32
|  +--ro output
|     +--ro ldp-fec-vc-feccb?                 uint32
|     +--ro ldp-fec-vc-idx?                   uint32
|     +--ro ldp-fec-vc-fec-type?              uint32
|     +--ro ldp-fec-prefix-pend-notif?        ldp-fec-pend-notify
|     +--ro ldp-fec-prefix-state?             ldp-fec-state
|     +--ro ldp-fec-prefix-Ingress?           yes-no
|     +--ro ldp-fec-prefix-Egress?            yes-no
|     +--ro ldp-fec-prefix-um-dist-done?      yes-no
|     +--ro ldp-fec-vc-id?                    uint32
|     +--ro ldp-fec-vc-type?                  uint32
|     +--ro ldp-fec-vc-grp-id?                uint32
|     +--ro ldp-fec-vc-local-mtu?             uint32
|     +--ro ldp-fec-vc-remote-mtu?            uint32
|     +--ro ldp-fec-vc-mtu-enforcement?       enabled-disabled
```

```
|     +--ro ldp-fec-vc-agi?                    string
|     +--ro ldp-fec-vc-downstream-rec-list [ldp-fec-vc-peer-ldp-id-dw]
|     |  +--ro ldp-fec-vc-local-ldp-id-dw?       inet:ipv4-address
|     |  +--ro ldp-fec-vc-local-ldp-lblspc-dw?   uint32
|     |  +--ro ldp-fec-vc-peer-ldp-id-dw         inet:ipv4-address
|     |  +--ro ldp-fec-vc-peer-ldp-lblspc-dw?    uint32
|     |  +--ro ldp-fec-vc-label-dw?              uint32
|     |  +--ro ldp-fec-vc-state-dw?              ldp-fec-state
|     |  +--ro ldp-fec-vc-feccb-dw?              uint32
|     |  +--ro ldp-fec-vc-fec-dm-state-dw?       int32
|     +--ro ldp-fec-vc-upstream-rec-list [ldp-fec-vc-peer-ldp-id-up]
|        +--ro ldp-fec-vc-local-ldp-id-up?       inet:ipv4-address
|        +--ro ldp-fec-vc-local-ldp-lblspc-up?   uint32
|        +--ro ldp-fec-vc-peer-ldp-id-up         inet:ipv4-address
|        +--ro ldp-fec-vc-peer-ldp-lblspc-up?    uint32
|        +--ro ldp-fec-vc-label-up?              uint32
|        +--ro ldp-fec-vc-feccb-up?              uint32
|        +--ro ldp-fec-vc-fec-um-state-dw?       int32
+---x show-mpls-ldp-peer-br
|  +--ro input
|  |  +--ro ldp-peer-brief?        boolean
|  |  +--ro ldp-peer-detail?       boolean
|  |  +--ro ldp-peer-ip?           inet:ipv4-address
|  |  +--ro ldp-peer-ip-lblspid?   uint32
|  +--ro output
|     +--ro ldp-no-of-peers?               uint32
|     +--ro ldp-no-of-operational-peers?   uint32
|     +--ro ldp-peer-brief-rec-list [ldp-peer-id]
|        +--ro ldp-peer-id         inet:ipv4-address
|        +--ro ldp-peer-lblspid?   uint32
|        +--ro ldp-peer-state?     ldp-state-name
+---x show-mpls-ldp-peer-det
|  +--ro input
|  |  +--ro ldp-peer-brief?        boolean
|  |  +--ro ldp-peer-detail?       boolean
|  |  +--ro ldp-peer-ip?           inet:ipv4-address
|  |  +--ro ldp-peer-ip-lblspid?   uint32
|  +--ro output
|     +--ro ldp-no-of-peers?               uint32
|     +--ro ldp-no-of-operational-peers?   uint32
|     +--ro ldp-peer-detail-rec-list [ldp-peer-id]
|        +--ro ldp-peer-id                    inet:ipv4-address
|        +--ro ldp-peer-lblspid?              uint32
|        +--ro ldp-local-id?                  inet:ipv4-address
|        +--ro ldp-local-lblspid?             uint32
|        +--ro ldp-peer-state?                ldp-state-name
|        +--ro ldp-peer-session-status?       up-down
|        +--ro ldp-entity-index?              uint32
|        +--ro ldp-peer-targeted?             yes-no
|        +--ro ldp-peer-targeted-adj-added?   yes-no
+---x show-mpls-ldp-peer-det-rec
|  +--ro input
|  |  +--ro ldp-peer-brief?        boolean
|  |  +--ro ldp-peer-detail?       boolean
|  |  +--ro ldp-peer-ip?           inet:ipv4-address
|  |  +--ro ldp-peer-ip-lblspid?   uint32
|  +--ro output
|     +--ro ldp-peer-id?                   inet:ipv4-address
|     +--ro ldp-peer-lblspid?              uint32
|     +--ro ldp-local-id?                  inet:ipv4-address
|     +--ro ldp-local-lblspid?             uint32
|     +--ro ldp-peer-state?                ldp-state-name
|     +--ro ldp-peer-session-status?       up-down
|     +--ro ldp-entity-index?              uint32
|     +--ro ldp-peer-targeted?             yes-no
|     +--ro ldp-peer-targeted-adj-added?   yes-no
+---x show-mpls-policy
|  +--ro output
|     +--ro mpls-policy
|        +--ro policy-cspf-interface-constraint?          uint8
|        +--ro policy-cspf-group-computation-mode?        uint8
|        +--ro policy-use-bypass-metric?                  uint8
```

```
|        +--ro policy-use-bypass-liberal?                  uint8
|        +--ro policy-implicite-commit?                    uint32
|        +--ro policy-label-propagate-ttl?                 uint8
|        +--ro policy-vrf-propagate-ttl?                   uint8
|        +--ro policy-propagate-ttl?                       uint8
|        +--ro policy-rtm-route-filter-enabled?            uint8
|        +--ro policy-rtm-route-filter-all-ibgp-enabled?   uint8
|        +--ro policy-load-interval?                       uint16
|        +--ro policy-ingress-tnnl-accounting?             uint8
|        +--ro policy-te-policy-ospf?                      uint8
|        +--ro policy-te-policy-isis?                      uint8
|        +--ro policy-ospf-area-defined?                   uint8
|        +--ro policy-ospf-area?                           uint32
|        +--ro policy-handle-ospf-nbr-dn?                  uint8
|        +--ro policy-handle-isis-nbr-dn?                  uint8
|        +--ro policy-lsp-fast-retry-on?                   uint8
|        +--ro policy-max-lsp-retries?                     uint16
|        +--ro policy-lsp-retry-interval?                  uint16
|        +--ro policy-frr-bkup-retry-interval?             uint32
|        +--ro policy-auto-bw-enabled?                     uint8
|        +--ro policy-auto-bw-sample-interval?             uint32
|        +--ro policy-soft-preempt-cleanup-timer?          uint16
|        +--ro policy-rsvp-periodic-flooding-timer?        uint16
+---x show-mpls-interface
|  +--ro output
|     +--ro mpls-interface
|        +--ro show-mpls-interface-brief
|           +--ro mpls_interface_name?               string
|           +--ro mpls-interface-admin-grp?          uint32
|           +--ro mpls-interface-admin-status?       boolean
|           +--ro mpls-interface-oper-status?        boolean
|           +--ro mpls-interface-max-bw?             uint32
|           +--ro mpls-interface-max-resv-bw?        uint32
|           +--ro mpls-interface-bypass-lsp-count?   uint32
|           +--ro mpls-interface-ldp-status?         boolean
+---x show-mpls-interface-detail
|  +--ro output
|     +--ro mpls-interface-detail
|        +--ro show-mpls-interface-brief
|        |  +--ro mpls_interface_name?               string
|        |  +--ro mpls-interface-admin-grp?          uint32
|        |  +--ro mpls-interface-admin-status?       boolean
|        |  +--ro mpls-interface-oper-status?        boolean
|        |  +--ro mpls-interface-max-bw?             uint32
|        |  +--ro mpls-interface-max-resv-bw?        uint32
|        |  +--ro mpls-interface-bypass-lsp-count?   uint32
|        |  +--ro mpls-interface-ldp-status?         boolean
|        +--ro show-mpls-interface-detail
|           +--ro mpls-interface-mtu?                          uint32
|           +--ro mpls-interface-gre-port?                     boolean
|           +--ro mpls-interface-max-resv-bw-percentage?       boolean
|           +--ro mpls-interface-te-metric-default?            boolean
|           +--ro mpls-interface-te-metric-value?              uint32
|           +--ro mpls-interface-reservable-bw*                uint32
|           +--ro mpls-interface-advertised-unreserved-bw*     uint32
|           +--ro mpls-interface-under-prov-bw*                uint32
|           +--ro mpls-interface-ldp-ingress-count?            uint32
|           +--ro mpls-interface-p2mp-capability?              boolean
+---x show-mpls-interface-one-interface
|  +--ro input
|  |  +--ro interface-type?   enumeration
|  |  +--ro interface-name?   interface-type
|  +--ro output
|     +--ro mpls-interface-detail
|        +--ro show-mpls-interface-brief
|        |  +--ro mpls_interface_name?               string
|        |  +--ro mpls-interface-admin-grp?          uint32
|        |  +--ro mpls-interface-admin-status?       boolean
|        |  +--ro mpls-interface-oper-status?        boolean
|        |  +--ro mpls-interface-max-bw?             uint32
|        |  +--ro mpls-interface-max-resv-bw?        uint32
|        |  +--ro mpls-interface-bypass-lsp-count?   uint32
```

```
|        |  +--ro mpls-interface-ldp-status?         boolean
|        +--ro show-mpls-interface-detail
|           +--ro mpls-interface-mtu?                          uint32
|           +--ro mpls-interface-gre-port?                     boolean
|           +--ro mpls-interface-max-resv-bw-percentage?       boolean
|           +--ro mpls-interface-te-metric-default?            boolean
|           +--ro mpls-interface-te-metric-value?              uint32
|           +--ro mpls-interface-reservable-bw*                uint32
|           +--ro mpls-interface-advertised-unreserved-bw*     uint32
|           +--ro mpls-interface-under-prov-bw*                uint32
|           +--ro mpls-interface-ldp-ingress-count?            uint32
|           +--ro mpls-interface-p2mp-capability?              boolean
+---x show-mpls-rsvp
|  +--ro output
|     +--ro mpls-rsvp
|        +--ro rsvp-protocol-status?     boolean
|        +--ro rsvp-refresh-interval?    uint32
|        +--ro rsvp-refresh-multiple?    uint32
|        +--ro rsvp-transport-address?   inet:ipv4-address
|        +--ro rsvp-message-id-epoch*    uint32
+---x show-mpls-rsvp-statistics
|  +--ro output
|     +--ro mpls-rsvp-statistics
|        +--ro g_mpls_prot_statistics_pkt_types
|        |  +--ro pkt_type_name?                            string
|        |  +--ro pkt_type_count_tx?                        uint32
|        |  +--ro pkt_type_count_rx?                        uint32
|        |  +--ro pkt_type_count_since_last_cleared_tx?     uint32
|        |  +--ro pkt_type_count_since_last_cleared_rx?     uint32
|        +--ro g_mpls_prot_statistics_errors
|        |  +--ro error_type_name?                            string
|        |  +--ro error_type_count_rx?                        uint32
|        |  +--ro error_type_count_since_last_cleared_rx?     uint32
|        +--ro g_mpls_prot_statistics_pkt_processing_errors
|           +--ro pkt_processing_error_type_name?                          string
|           +--ro pkt_processing_error_count_rx?                          uint32
|           +--ro pkt_processing_error_count_since_last_cleared_rx?       uint32
+---x show-mpls-ldp-statistics
|  +--ro output
|     +--ro mpls-ldp-statistics
|        +--ro g_mpls_prot_statistics_pkt_types
|        |  +--ro pkt_type_name?                            string
|        |  +--ro pkt_type_count_tx?                        uint32
|        |  +--ro pkt_type_count_rx?                        uint32
|        |  +--ro pkt_type_count_since_last_cleared_tx?     uint32
|        |  +--ro pkt_type_count_since_last_cleared_rx?     uint32
|        +--ro g_mpls_prot_statistics_errors
|           +--ro error_type_name?                            string
|           +--ro error_type_count_rx?                        uint32
|           +--ro error_type_count_since_last_cleared_rx?     uint32
+---x show-mpls-rsvp-interface
|  +--ro output
|     +--ro mpls-rsvp-interface
|        +--ro show-mpls-rsvp-interface-brief
|           +--ro mpls_rsvp_interface_name?                  string
|           +--ro mpls-rsvp-interface-oper-status?           boolean
|           +--ro mpls-rsvp-interface-auth?                  boolean
|           +--ro mpls-rsvp-interface-reliable-msg?          string
|           +--ro mpls-rsvp-interface-bundle-msg?            string
|           +--ro mpls-rsvp-interface-s-refresh?             string
|           +--ro mpls-rsvp-interface-active-outsegs?        uint32
|           +--ro mpls-rsvp-interface-inactive-outsegs?      uint32
|           +--ro mpls-rsvp-interface-bw-resv-outsegs?       uint32
|           +--ro mpls-rsvp-interface-is-tunnel-interface?   boolean
|           +--ro mpls-rsvp-interface-preempts?              uint32
|           +--ro mpls-rsvp-interface-soft-preempts?         uint32
|           +--ro mpls-rsvp-interface-if-index?              uint32
+---x show-mpls-rsvp-interface-detail
|  +--ro output
|     +--ro mpls-rsvp-interface-detail
|        +--ro show-mpls-rsvp-interface-brief
|        |  +--ro mpls_rsvp_interface_name?                  string
```

```
|        |  +--ro mpls-rsvp-interface-oper-status?          boolean
|        |  +--ro mpls-rsvp-interface-auth?                 boolean
|        |  +--ro mpls-rsvp-interface-reliable-msg?         string
|        |  +--ro mpls-rsvp-interface-bundle-msg?           string
|        |  +--ro mpls-rsvp-interface-s-refresh?            string
|        |  +--ro mpls-rsvp-interface-active-outsegs?       uint32
|        |  +--ro mpls-rsvp-interface-inactive-outsegs?     uint32
|        |  +--ro mpls-rsvp-interface-bw-resv-outsegs?      uint32
|        |  +--ro mpls-rsvp-interface-is-tunnel-interface?  boolean
|        |  +--ro mpls-rsvp-interface-preempts?             uint32
|        |  +--ro mpls-rsvp-interface-soft-preempts?        uint32
|        |  +--ro mpls-rsvp-interface-if-index?             uint32
|        +--ro show-mpls-rsvp-interface-detail
|           +--ro mpls-rsvp-interface-hello-interval?                uint32
|           +--ro mpls-rsvp-interface-hello-tolerance?               uint32
|           +--ro mpls-rsvp-interface-hello-status?                  string
|           +--ro mpls-rsvp-interface-te-up-thresholds*              uint32
|           +--ro mpls-rsvp-interface-te-down-thresholds*            uint32
|           +--ro g_mpls_prot_statistics_pkt_types
|           |  +--ro pkt_type_name?                           string
|           |  +--ro pkt_type_count_tx?                       uint32
|           |  +--ro pkt_type_count_rx?                       uint32
|           |  +--ro pkt_type_count_since_last_cleared_tx?    uint32
|           |  +--ro pkt_type_count_since_last_cleared_rx?    uint32
|           +--ro g_mpls_prot_statistics_errors
|           |  +--ro error_type_name?                           string
|           |  +--ro error_type_count_rx?                       uint32
|           |  +--ro error_type_count_since_last_cleared_rx?    uint32
|           +--ro mpls-rsvp-interface-active-backup-outsegs?          uint32
|           +--ro mpls-rsvp-interface-inactive-backup-outsegs?        uint32
|           +--ro mpls-rsvp-interface-duplicate-preempts-dropped?     uint32
|           +--ro mpls-rsvp-interface-p2mp-capability?                boolean
|           +--ro mpls-rsvp-interface-bypass-interface?               boolean
|           +--ro mpls-rsvp-interface-tunnel-name?                    string
|           +--ro mpls-rsvp-interface-bypass-tunnel-interface-name?   string
|           +--ro mpls-rsvp-interface-bypass-creation-time?           string
|           +--ro mpls-rsvp-interface-bypass-creation-location?       uint32
|           +--ro mpls-rsvp-interface-assoc-bypass-LSPs?              string
+---x show-mpls-rsvp-interface-one-interface
|  +--ro input
|  |  +--ro interface-type?   enumeration
|  |  +--ro interface-name?   interface-type
|  +--ro output
|     +--ro mpls-rsvp-interface-detail
|        +--ro show-mpls-rsvp-interface-brief
|        |  +--ro mpls_rsvp_interface_name?                string
|        |  +--ro mpls-rsvp-interface-oper-status?         boolean
|        |  +--ro mpls-rsvp-interface-auth?                boolean
|        |  +--ro mpls-rsvp-interface-reliable-msg?        string
|        |  +--ro mpls-rsvp-interface-bundle-msg?          string
|        |  +--ro mpls-rsvp-interface-s-refresh?           string
|        |  +--ro mpls-rsvp-interface-active-outsegs?      uint32
|        |  +--ro mpls-rsvp-interface-inactive-outsegs?    uint32
|        |  +--ro mpls-rsvp-interface-bw-resv-outsegs?     uint32
|        |  +--ro mpls-rsvp-interface-is-tunnel-interface? boolean
|        |  +--ro mpls-rsvp-interface-preempts?            uint32
|        |  +--ro mpls-rsvp-interface-soft-preempts?       uint32
|        |  +--ro mpls-rsvp-interface-if-index?            uint32
|        +--ro show-mpls-rsvp-interface-detail
|           +--ro mpls-rsvp-interface-hello-interval?                uint32
|           +--ro mpls-rsvp-interface-hello-tolerance?               uint32
|           +--ro mpls-rsvp-interface-hello-status?                  string
|           +--ro mpls-rsvp-interface-te-up-thresholds*              uint32
|           +--ro mpls-rsvp-interface-te-down-thresholds*            uint32
|           +--ro g_mpls_prot_statistics_pkt_types
|           |  +--ro pkt_type_name?                           string
|           |  +--ro pkt_type_count_tx?                       uint32
|           |  +--ro pkt_type_count_rx?                       uint32
|           |  +--ro pkt_type_count_since_last_cleared_tx?    uint32
|           |  +--ro pkt_type_count_since_last_cleared_rx?    uint32
|           +--ro g_mpls_prot_statistics_errors
|           |  +--ro error_type_name?                           string
```

```
|           |  +--ro error_type_count_rx?                       uint32
|           |  +--ro error_type_count_since_last_cleared_rx?   uint32
|           +--ro mpls-rsvp-interface-active-backup-outsegs?          uint32
|           +--ro mpls-rsvp-interface-inactive-backup-outsegs?        uint32
|           +--ro mpls-rsvp-interface-duplicate-preempts-dropped?     uint32
|           +--ro mpls-rsvp-interface-p2mp-capability?                boolean
|           +--ro mpls-rsvp-interface-bypass-interface?               boolean
|           +--ro mpls-rsvp-interface-tunnel-name?                    string
|           +--ro mpls-rsvp-interface-bypass-tunnel-interface-name?   string
|           +--ro mpls-rsvp-interface-bypass-creation-time?           string
|           +--ro mpls-rsvp-interface-bypass-creation-location?       uint32
|           +--ro mpls-rsvp-interface-assoc-bypass-LSPs?              string
+---x show-mpls-rsvp-neighbor
|  +--ro output
|     +--ro mpls-rsvp-neighbor
|        +--ro show-mpls-neighbor-brief
|           +--ro mpls_rsvp_neighbor_ip_addr?                    inet:ipv4-address
|           +--ro mpls-rsvp-neighbor-interface?                  string
|           +--ro mpls-rsvp-neighbor-status?                     string
|           +--ro mpls-rsvp-neighbor-last-status-change?         string
|           +--ro mpls-rsvp-neighbor-hello-tx?                   uint32
|           +--ro mpls-rsvp-neighbor-hello-rx?                   uint32
|           +--ro mpls-rsvp-neighbor-refresh-reduction-support?  boolean
|           +--ro mpls-rsvp-neighbor-msg-id-support?             boolean
+---x show-mpls-rsvp-neighbor-detail
|  +--ro output
|     +--ro mpls-rsvp-neighbor-detail
|        +--ro show-mpls-neighbor-brief
|        |  +--ro mpls_rsvp_neighbor_ip_addr?                    inet:ipv4-address
|        |  +--ro mpls-rsvp-neighbor-interface?                  string
|        |  +--ro mpls-rsvp-neighbor-status?                     string
|        |  +--ro mpls-rsvp-neighbor-last-status-change?         string
|        |  +--ro mpls-rsvp-neighbor-hello-tx?                   uint32
|        |  +--ro mpls-rsvp-neighbor-hello-rx?                   uint32
|        |  +--ro mpls-rsvp-neighbor-refresh-reduction-support?  boolean
|        |  +--ro mpls-rsvp-neighbor-msg-id-support?             boolean
|        +--ro show-mpls-neighbor-detail
|           +--ro mpls-rsvp-neighbor-active-lsps?         uint32
|           +--ro mpls-rsvp-neighbor-hello-interval?      uint32
|           +--ro mpls-rsvp-neighbor-hello-tolerance?     uint32
|           +--ro mpls-rsvp-neighbor-last-hello-rx?       string
|           +--ro mpls-rsvp-neighbor-next-hello-req-tx?   string
|           +--ro mpls-rsvp-neighbor-remote-instance?     uint32
|           +--ro mpls-rsvp-neighbor-local-instance?      uint32
+---x show-mpls-rsvp-neighbor-one-neighbor
|  +--ro input
|  |  +--ro mpls-rsvp-neighbor-peer-ip-addr?   inet:ipv4-address
|  +--ro output
|     +--ro mpls-rsvp-neighbor-detail
|        +--ro show-mpls-neighbor-brief
|        |  +--ro mpls_rsvp_neighbor_ip_addr?                    inet:ipv4-address
|        |  +--ro mpls-rsvp-neighbor-interface?                  string
|        |  +--ro mpls-rsvp-neighbor-status?                     string
|        |  +--ro mpls-rsvp-neighbor-last-status-change?         string
|        |  +--ro mpls-rsvp-neighbor-hello-tx?                   uint32
|        |  +--ro mpls-rsvp-neighbor-hello-rx?                   uint32
|        |  +--ro mpls-rsvp-neighbor-refresh-reduction-support?  boolean
|        |  +--ro mpls-rsvp-neighbor-msg-id-support?             boolean
|        +--ro show-mpls-neighbor-detail
|           +--ro mpls-rsvp-neighbor-active-lsps?         uint32
|           +--ro mpls-rsvp-neighbor-hello-interval?      uint32
|           +--ro mpls-rsvp-neighbor-hello-tolerance?     uint32
|           +--ro mpls-rsvp-neighbor-last-hello-rx?       string
|           +--ro mpls-rsvp-neighbor-next-hello-req-tx?   string
|           +--ro mpls-rsvp-neighbor-remote-instance?     uint32
|           +--ro mpls-rsvp-neighbor-local-instance?      uint32
+---x show-mpls-rsvp-session
|  +--ro output
|     +--ro mpls-rsvp-session
|        +--ro show-mpls-session-brief
|           +--ro mpls-rsvp-session-total-session-count?     uint32
|           +--ro mpls-rsvp-session-ingress-session-count?   uint32
```

```
|           +--ro mpls-rsvp-session-transit-session-count?   uint32
|           +--ro mpls-rsvp-session-egress-session-count?    uint32
|           +--ro mpls-rsvp-session-dest-ip-addr?            inet:ipv4-address
|           +--ro mpls-rsvp-session-source-ip-addr?          inet:ipv4-address
|           +--ro mpls-rsvp-session-type?                    string
|           +--ro mpls-rsvp-session-status?                  string
|           +--ro mpls-rsvp-session-style?                   string
|           +--ro mpls-rsvp-session-in-label?                uint32
|           +--ro mpls-rsvp-session-out-label?               uint32
|           +--ro mpls-rsvp-session-out-interface?           string
|           +--ro mpls-rsvp-session-name?                    string
+---x show-mpls-rsvp-session-wide
|  +--ro output
|     +--ro mpls-rsvp-session-wide
|        +--ro show-mpls-session-brief
|           +--ro mpls-rsvp-session-total-session-count?     uint32
|           +--ro mpls-rsvp-session-ingress-session-count?   uint32
|           +--ro mpls-rsvp-session-transit-session-count?   uint32
|           +--ro mpls-rsvp-session-egress-session-count?    uint32
|           +--ro mpls-rsvp-session-dest-ip-addr?            inet:ipv4-address
|           +--ro mpls-rsvp-session-source-ip-addr?          inet:ipv4-address
|           +--ro mpls-rsvp-session-type?                    string
|           +--ro mpls-rsvp-session-status?                  string
|           +--ro mpls-rsvp-session-style?                   string
|           +--ro mpls-rsvp-session-in-label?                uint32
|           +--ro mpls-rsvp-session-out-label?               uint32
|           +--ro mpls-rsvp-session-out-interface?           string
|           +--ro mpls-rsvp-session-name?                    string
+---x show-mpls-rsvp-session-detail
|  +--ro output
|     +--ro mpls-rsvp-session-detail
|        +--ro show-mpls-session-brief
|        |  +--ro mpls-rsvp-session-total-session-count?     uint32
|        |  +--ro mpls-rsvp-session-ingress-session-count?   uint32
|        |  +--ro mpls-rsvp-session-transit-session-count?   uint32
|        |  +--ro mpls-rsvp-session-egress-session-count?    uint32
|        |  +--ro mpls-rsvp-session-dest-ip-addr?            inet:ipv4-address
|        |  +--ro mpls-rsvp-session-source-ip-addr?          inet:ipv4-address
|        |  +--ro mpls-rsvp-session-type?                    string
|        |  +--ro mpls-rsvp-session-status?                  string
|        |  +--ro mpls-rsvp-session-style?                   string
|        |  +--ro mpls-rsvp-session-in-label?                uint32
|        |  +--ro mpls-rsvp-session-out-label?               uint32
|        |  +--ro mpls-rsvp-session-out-interface?           string
|        |  +--ro mpls-rsvp-session-name?                    string
|        +--ro show-mpls-session-detail
|           +--ro mpls-rsvp-session-tunnel-id?                     uint32
|           +--ro mpls-rsvp-session-lsp-id?                        uint32
|           +--ro mpls-rsvp-session-is-flap-lock?                  boolean
|           +--ro mpls-rsvp-session-flap-lock?                     uint32
|           +--ro mpls-rsvp-session-path-refresh?                  uint32
|           +--ro mpls-rsvp-session-path-refresh-ttd?              uint32
|           +--ro mpls-rsvp-session-resv-refresh?                  uint32
|           +--ro mpls-rsvp-session-resv-refresh-ttd?              uint32
|           +--ro mpls-rsvp-session-tspec-peak?                    uint32
|           +--ro mpls-rsvp-session-tspec-rate?                    uint32
|           +--ro mpls-rsvp-session-tspec-size?                    uint32
|           +--ro mpls-rsvp-session-tspec-minimum?                 uint32
|           +--ro mpls-rsvp-session-tspec-m?                       uint32
|           +--ro mpls-rsvp-session-setup-priority?                uint8
|           +--ro mpls-rsvp-session-hold-priority?                 uint8
|           +--ro mpls-rsvp-session-attr-flag?                     uint8
|           +--ro mpls-rsvp-session-attr?                          string
|           +--ro mpls-rsvp-session-soft-preemption-wait-timer?    uint32
|           +--ro mpls-rsvp-session-preemption-wait-timer?         uint32
|           +--ro mpls-rsvp-session-frr-detour?                    boolean
|           +--ro mpls-rsvp-session-frr-facility?                  boolean
|           +--ro mpls-rsvp-session-unknown-frr-flags?             uint8
|           +--ro mpls-rsvp-session-frr-setup-priority?            uint8
|           +--ro mpls-rsvp-session-frr-hold-priority?             uint8
|           +--ro mpls-rsvp-session-frr-fast-reroute-object?       boolean
|           +--ro mpls-rsvp-session-frr-bandwidth?                 uint32
```

```
|           +--ro mpls-rsvp-session-frr-hop-limit?                uint8
|           +--ro mpls-rsvp-session-frr-protection-flags?         string
|           +--ro mpls-rsvp-session-frr-updown-transitions?       uint32
|           +--ro mpls-rsvp-session-frr-retries?                  uint32
|           +--ro mpls-rsvp-session-protection-available?         boolean
|           +--ro mpls-rsvp-session-next-retry?                   uint32
|           +--ro mpls-rsvp-session-frr-cost?                     uint32
|           +--ro mpls-rsvp-session-frr-computation-mode?         string
|           +--ro mpls-rsvp-session-ero?                          string
|           +--ro mpls-rsvp-session-rro?                          string
|           +--ro mpls-rsvp-session-num-avoid-nodes-detour-sent?  uint32
|           +--ro mpls-rsvp-session-detour-sent-plr-ip*           inet:ipv4-address
|           +--ro mpls-rsvp-session-detour-sent-avoid-node-ip*    inet:ipv4-address
|           +--ro mpls-rsvp-session-num-avoid-nodes-detour-rcvd?  uint32
|           +--ro mpls-rsvp-session-detour-rcvd-plr-ip*           inet:ipv4-address
|           +--ro mpls-rsvp-session-detour-rcvd-avoid-node-ip*    inet:ipv4-address
|           +--ro mpls-rsvp-session-control-msgs?                 string
|           +--ro mpls-rsvp-session-riding-bypass-present?        boolean
|           +--ro mpls-rsvp-session-riding-bypass-name?           string
+---x show-mpls-rsvp-session-extensive
|  +--ro output
|     +--ro mpls-rsvp-session-extensive
|        +--ro show-mpls-session-brief
|        |  +--ro mpls-rsvp-session-total-session-count?     uint32
|        |  +--ro mpls-rsvp-session-ingress-session-count?   uint32
|        |  +--ro mpls-rsvp-session-transit-session-count?   uint32
|        |  +--ro mpls-rsvp-session-egress-session-count?    uint32
|        |  +--ro mpls-rsvp-session-dest-ip-addr?            inet:ipv4-address
|        |  +--ro mpls-rsvp-session-source-ip-addr?          inet:ipv4-address
|        |  +--ro mpls-rsvp-session-type?                    string
|        |  +--ro mpls-rsvp-session-status?                  string
|        |  +--ro mpls-rsvp-session-style?                   string
|        |  +--ro mpls-rsvp-session-in-label?                uint32
|        |  +--ro mpls-rsvp-session-out-label?               uint32
|        |  +--ro mpls-rsvp-session-out-interface?           string
|        |  +--ro mpls-rsvp-session-name?                    string
|        +--ro show-mpls-session-detail
|        |  +--ro mpls-rsvp-session-tunnel-id?                    uint32
|        |  +--ro mpls-rsvp-session-lsp-id?                       uint32
|        |  +--ro mpls-rsvp-session-is-flap-lock?                 boolean
|        |  +--ro mpls-rsvp-session-flap-lock?                    uint32
|        |  +--ro mpls-rsvp-session-path-refresh?                 uint32
|        |  +--ro mpls-rsvp-session-path-refresh-ttd?             uint32
|        |  +--ro mpls-rsvp-session-resv-refresh?                 uint32
|        |  +--ro mpls-rsvp-session-resv-refresh-ttd?             uint32
|        |  +--ro mpls-rsvp-session-tspec-peak?                   uint32
|        |  +--ro mpls-rsvp-session-tspec-rate?                   uint32
|        |  +--ro mpls-rsvp-session-tspec-size?                   uint32
|        |  +--ro mpls-rsvp-session-tspec-minimum?                uint32
|        |  +--ro mpls-rsvp-session-tspec-m?                      uint32
|        |  +--ro mpls-rsvp-session-setup-priority?               uint8
|        |  +--ro mpls-rsvp-session-hold-priority?                uint8
|        |  +--ro mpls-rsvp-session-attr-flag?                    uint8
|        |  +--ro mpls-rsvp-session-attr?                         string
|        |  +--ro mpls-rsvp-session-soft-preemption-wait-timer?   uint32
|        |  +--ro mpls-rsvp-session-preemption-wait-timer?        uint32
|        |  +--ro mpls-rsvp-session-frr-detour?                   boolean
|        |  +--ro mpls-rsvp-session-frr-facility?                 boolean
|        |  +--ro mpls-rsvp-session-unknown-frr-flags?            uint8
|        |  +--ro mpls-rsvp-session-frr-setup-priority?           uint8
|        |  +--ro mpls-rsvp-session-frr-hold-priority?            uint8
|        |  +--ro mpls-rsvp-session-frr-fast-reroute-object?      boolean
|        |  +--ro mpls-rsvp-session-frr-bandwidth?                uint32
|        |  +--ro mpls-rsvp-session-frr-hop-limit?                uint8
|        |  +--ro mpls-rsvp-session-frr-protection-flags?         string
|        |  +--ro mpls-rsvp-session-frr-updown-transitions?       uint32
|        |  +--ro mpls-rsvp-session-frr-retries?                  uint32
|        |  +--ro mpls-rsvp-session-protection-available?         boolean
|        |  +--ro mpls-rsvp-session-next-retry?                   uint32
|        |  +--ro mpls-rsvp-session-frr-cost?                     uint32
|        |  +--ro mpls-rsvp-session-frr-computation-mode?         string
|        |  +--ro mpls-rsvp-session-ero?                          string
```

```
|        |  +--ro mpls-rsvp-session-rro?                              string
|        |  +--ro mpls-rsvp-session-num-avoid-nodes-detour-sent?      uint32
|        |  +--ro mpls-rsvp-session-detour-sent-plr-ip*               inet:ipv4-address
|        |  +--ro mpls-rsvp-session-detour-sent-avoid-node-ip*        inet:ipv4-address
|        |  +--ro mpls-rsvp-session-num-avoid-nodes-detour-rcvd?      uint32
|        |  +--ro mpls-rsvp-session-detour-rcvd-plr-ip*               inet:ipv4-address
|        |  +--ro mpls-rsvp-session-detour-rcvd-avoid-node-ip*        inet:ipv4-address
|        |  +--ro mpls-rsvp-session-control-msgs?                     string
|        |  +--ro mpls-rsvp-session-riding-bypass-present?            boolean
|        |  +--ro mpls-rsvp-session-riding-bypass-name?               string
|        +--ro show-mpls-session-extensive
|           +--ro mpls-rsvp-path-history?      string
|           +--ro mpls-rsvp-resv-history?      string
|           +--ro mpls-rsvp-session-history?   string
+---x show-mpls-rsvp-session-name
|  +--ro input
|  |  +--ro session-name?   string
|  +--ro output
|     +--ro mpls-rsvp-session-name
|        +--ro show-mpls-session-brief
|        |  +--ro mpls-rsvp-session-total-session-count?     uint32
|        |  +--ro mpls-rsvp-session-ingress-session-count?   uint32
|        |  +--ro mpls-rsvp-session-transit-session-count?   uint32
|        |  +--ro mpls-rsvp-session-egress-session-count?    uint32
|        |  +--ro mpls-rsvp-session-dest-ip-addr?            inet:ipv4-address
|        |  +--ro mpls-rsvp-session-source-ip-addr?          inet:ipv4-address
|        |  +--ro mpls-rsvp-session-type?                    string
|        |  +--ro mpls-rsvp-session-status?                  string
|        |  +--ro mpls-rsvp-session-style?                   string
|        |  +--ro mpls-rsvp-session-in-label?                uint32
|        |  +--ro mpls-rsvp-session-out-label?               uint32
|        |  +--ro mpls-rsvp-session-out-interface?           string
|        |  +--ro mpls-rsvp-session-name?                    string
|        +--ro show-mpls-session-detail
|           +--ro mpls-rsvp-session-tunnel-id?                     uint32
|           +--ro mpls-rsvp-session-lsp-id?                        uint32
|           +--ro mpls-rsvp-session-is-flap-lock?                  boolean
|           +--ro mpls-rsvp-session-flap-lock?                     uint32
|           +--ro mpls-rsvp-session-path-refresh?                  uint32
|           +--ro mpls-rsvp-session-path-refresh-ttd?              uint32
|           +--ro mpls-rsvp-session-resv-refresh?                  uint32
|           +--ro mpls-rsvp-session-resv-refresh-ttd?              uint32
|           +--ro mpls-rsvp-session-tspec-peak?                    uint32
|           +--ro mpls-rsvp-session-tspec-rate?                    uint32
|           +--ro mpls-rsvp-session-tspec-size?                    uint32
|           +--ro mpls-rsvp-session-tspec-minimum?                 uint32
|           +--ro mpls-rsvp-session-tspec-m?                       uint32
|           +--ro mpls-rsvp-session-setup-priority?                uint8
|           +--ro mpls-rsvp-session-hold-priority?                 uint8
|           +--ro mpls-rsvp-session-attr-flag?                     uint8
|           +--ro mpls-rsvp-session-attr?                          string
|           +--ro mpls-rsvp-session-soft-preemption-wait-timer?    uint32
|           +--ro mpls-rsvp-session-preemption-wait-timer?         uint32
|           +--ro mpls-rsvp-session-frr-detour?                    boolean
|           +--ro mpls-rsvp-session-frr-facility?                  boolean
|           +--ro mpls-rsvp-session-unknown-frr-flags?             uint8
|           +--ro mpls-rsvp-session-frr-setup-priority?            uint8
|           +--ro mpls-rsvp-session-frr-hold-priority?             uint8
|           +--ro mpls-rsvp-session-frr-fast-reroute-object?       boolean
|           +--ro mpls-rsvp-session-frr-bandwidth?                 uint32
|           +--ro mpls-rsvp-session-frr-hop-limit?                 uint8
|           +--ro mpls-rsvp-session-frr-protection-flags?          string
|           +--ro mpls-rsvp-session-frr-updown-transitions?        uint32
|           +--ro mpls-rsvp-session-frr-retries?                   uint32
|           +--ro mpls-rsvp-session-protection-available?          boolean
|           +--ro mpls-rsvp-session-next-retry?                    uint32
|           +--ro mpls-rsvp-session-frr-cost?                      uint32
|           +--ro mpls-rsvp-session-frr-computation-mode?          string
|           +--ro mpls-rsvp-session-ero?                           string
|           +--ro mpls-rsvp-session-rro?                           string
|           +--ro mpls-rsvp-session-num-avoid-nodes-detour-sent?   uint32
|           +--ro mpls-rsvp-session-detour-sent-plr-ip*            inet:ipv4-address
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```
|           +--ro mpls-rsvp-session-detour-sent-avoid-node-ip*     inet:ipv4-address
|           +--ro mpls-rsvp-session-num-avoid-nodes-detour-rcvd?   uint32
|           +--ro mpls-rsvp-session-detour-rcvd-plr-ip*            inet:ipv4-address
|           +--ro mpls-rsvp-session-detour-rcvd-avoid-node-ip*     inet:ipv4-address
|           +--ro mpls-rsvp-session-control-msgs?                  string
|           +--ro mpls-rsvp-session-riding-bypass-present?        boolean
|           +--ro mpls-rsvp-session-riding-bypass-name?           string
+---x show-mpls-lsp
|  +--ro output
|     +--ro lsp
|        +--ro show-mpls-lsp-basic-info
|           +--ro lsp-name?                 string
|           +--ro lsp-type-bypass?          boolean
|           +--ro lsp-type-dynamic?         boolean
|           +--ro lsp-from-address?         inet:ipv4-address
|           +--ro lsp-to-address?           inet:ipv4-address
|           +--ro lsp-tunnel-id?            uint32
|           +--ro lsp-lsp-id?               uint32
|           +--ro lsp-admin-up?             boolean
|           +--ro lsp-operational-up?       boolean
|           +--ro lsp-is-active?            boolean
|           +--ro lsp-path-name?            string
|           +--ro lsp-out-label?            uint32
|           +--ro lsp-out-interface-name?   string
+---x show-mpls-lsp-detail
|  +--ro output
|     +--ro lsp
|        +--ro show-mpls-lsp-detail-info
|           +--ro show-mpls-lsp-basic-info
|           |  +--ro lsp-name?                 string
|           |  +--ro lsp-type-bypass?          boolean
|           |  +--ro lsp-type-dynamic?         boolean
|           |  +--ro lsp-from-address?         inet:ipv4-address
|           |  +--ro lsp-to-address?           inet:ipv4-address
|           |  +--ro lsp-tunnel-id?            uint32
|           |  +--ro lsp-lsp-id?               uint32
|           |  +--ro lsp-admin-up?             boolean
|           |  +--ro lsp-operational-up?       boolean
|           |  +--ro lsp-is-active?            boolean
|           |  +--ro lsp-path-name?            string
|           |  +--ro lsp-out-label?            uint32
|           |  +--ro lsp-out-interface-name?   string
|           +--ro show-mpls-lsp-common-info
|           |  +--ro lsp-config-admin-up?                          boolean
|           |  +--ro lsp-config-from-address?                      inet:ipv4-address
|           |  +--ro lsp-config-to-address?                        inet:ipv4-address
|           |  +--ro lsp-config-type-bypass?                       boolean
|           |  +--ro lsp-config-type-dynamic?                      boolean
|           |  +--ro lsp-config-adaptive?                          boolean
|           |  +--ro lsp-config-ospf-area?                         inet:ipv4-address
|           |  +--ro lsp-config-isis-level?                        uint32
|           |  +--ro lsp-config-number-of-retries-configured?      boolean
|           |  +--ro lsp-config-number-of-retries?                 uint32
|           |  +--ro lsp-config-path-select-mode-configured?       boolean
|           |  +--ro lsp-config-path-select-mode-manual?           boolean
|           |  +--ro lsp-config-path-select-mode-unconditional?    boolean
|           |  +--ro lsp-config-path-select-primary?               boolean
|           |  +--ro lsp-config-path-select-secondary?             boolean
|           |  +--ro lsp-config-shortcut-ospf?                     boolean
|           |  +--ro lsp-config-shortcut-area-configured?          boolean
|           |  +--ro lsp-config-shortcut-area?                     inet:ipv4-address
|           |  +--ro lsp-config-notify-ospf?                       boolean
|           |  +--ro lsp-config-shortcut-isis?                     boolean
|           |  +--ro lsp-config-shortcut-isis-level-configured?    boolean
|           |  +--ro lsp-config-isis-shortcut-level?               uint8
|           |  +--ro lsp-config-notify-isis?                       boolean
|           |  +--ro lsp-config-metric-configured?                 boolean
|           |  +--ro lsp-config-metric?                            uint32
|           |  +--ro lsp-config-ospf-ignore-metric?                boolean
|           |  +--ro lsp-config-ospf-relative-metric?              uint32
|           |  +--ro lsp-config-ospf-announce-metric?              uint32
|           |  +--ro lsp-config-ospf-aaf?                          uint32
```

```
|           |  +--ro lsp-config-isis-ignore-metric?              boolean
|           |  +--ro lsp-config-isis-relative-metric?            uint32
|           |  +--ro lsp-config-isis-announce-configured?        boolean
|           |  +--ro lsp-config-isis-announce-metric?            uint32
|           |  +--ro lsp-config-frr-configured?                  boolean
|           |  +--ro lsp-config-frr-one-to-one?                  boolean
|           |  +--ro lsp-config-frr-one-to-many?                 boolean
|           |  +--ro lsp-config-frr-priority-configured?         boolean
|           |  +--ro lsp-config-frr-setup-priority?              uint8
|           |  +--ro lsp-config-frr-holding-priority?            uint8
|           |  +--ro lsp-config-frr-hop-limit-configured?        boolean
|           |  +--ro lsp-config-frr-hop-limit?                   uint8
|           |  +--ro lsp-config-frr-bandwidth-configured?        boolean
|           |  +--ro lsp-config-frr-bandwidth?                   uint32
|           |  +--ro lsp-config-frr-admin-group-configured?      boolean
|           |  +--ro lsp-config-frr-admin-groups
|           |  |  +--ro lsp-admin-group
|           |  |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |  |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |  |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |  |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |  +--ro lsp-config-exclude-interface-configured?    boolean
|           |  +--ro lsp-config-exclude-interfaces [interface-name]
|           |     +--ro interface-name    string
|           +--ro show-mpls-lsp-instances-info
|           |  +--ro lsp-instances [lsp-instance-number]
|           |     +--ro lsp-instance-number                                uint32
|           |     +--ro lsp-current-instance?                              boolean
|           |     +--ro lsp-new-instance?                                  boolean
|           |     +--ro lsp-old-instance?                                  boolean
|           |     +--ro lsp-is-primary?                                    boolean
|           |     +--ro lsp-is-current-secondary?                          boolean
|           |     +--ro lsp-is-selected-secondary?                         boolean
|           |     +--ro lsp-config-path-configured?                        boolean
|           |     +--ro lsp-config-path?                                   string
|           |     +--ro lsp-config-reoptimize-timer-configured?            boolean
|           |     +--ro lsp-config-reoptimize-timer?                       uint32
|           |     +--ro lsp-config-tspec-mtu-configured?                   boolean
|           |     +--ro lsp-config-tspec-mtu?                              uint32
|           |     +--ro lsp-config-cos-configured?                         boolean
|           |     +--ro lsp-config-cos?                                    uint8
|           |     +--ro lsp-config-mtu-configured?                         boolean
|           |     +--ro lsp-config-mtu?                                    uint32
|           |     +--ro lsp-config-tie-breaking-configured?                boolean
|           |     +--ro lsp-config-tie-break-random?                       boolean
|           |     +--ro lsp-config-tie-break-least-fill?                   boolean
|           |     +--ro lsp-config-tie-break-most-fill?                    boolean
|           |     +--ro lsp-config-cspf-disabled?                          boolean
|           |     +--ro lsp-config-hot-standby?                            boolean
|           |     +--ro lsp-config-pinned?                                 boolean
|           |     +--ro lsp-config-persistenct?                            boolean
|           |     +--ro lsp-config-frr-global-revertive?                   boolean
|           |     +--ro lsp-config-frr-hold-time?                          boolean
|           |     +--ro lsp-config-soft-prempt?                            boolean
|           |     +--ro lsp-config-exclude-interface-change?               boolean
|           |     +--ro lsp-config-prority-configured?                     boolean
|           |     +--ro lsp-config-setup-prority?                          uint8
|           |     +--ro lsp-config-holding-prority?                        uint8
|           |     +--ro lsp-config-hop-limit-configured?                   boolean
|           |     +--ro lsp-config-hop-limit?                              uint8
|           |     +--ro lsp-config-traffic-eng-rate-configured?            boolean
|           |     +--ro lsp-config-traffic-eng-mean-rate?                  uint32
|           |     +--ro lsp-config-traffic-eng-max-rate?                   uint32
|           |     +--ro lsp-config-traffic-eng-max-burst?                  uint32
|           |     +--ro lsp-config-admin-group-configured?                 boolean
|           |     +--ro lsp-config-admin-groups
|           |     |  +--ro lsp-admin-group
|           |     |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |     |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
```

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|           |     |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |     |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |     +--ro lsp-path-computed-by-cspf?                        boolean
|           |     +--ro lsp-path-computed-by-interface-constraint?        boolean
|           |     +--ro lsp-cspf-computation-mode-default?                 boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-metric?       boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-liberal?      boolean
|           |     +--ro lsp-cspf-group-computation-mode-default?           boolean
|           |     +--ro lsp-cspf-group-computation-mode-add-penalty?       boolean
|           |     +--ro lsp-cspf-group-computation-mode-exclude-groups?    boolean
|           |     +--ro lsp-cspf-group-computation-mode-high-cost?         boolean
|           |     +--ro lsp-cspf-path-cost?                               uint32
|           |     +--ro lsp-cspf-path-area?                               inet:ipv4-address
|           |     +--ro lsp-cspf-computation-error?                       uint32
|           |     +--ro lsp-cspf-path-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                      inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                  boolean
|           |     |        +--ro lsp-hop-loose-hop?                   boolean
|           |     |        +--ro lsp-hop-is-router-id?                boolean
|           |     |        +--ro lsp-hop-has-protection?              boolean
|           |     |        +--ro lsp-hop-has-node-protection?         boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?    boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?       boolean
|           |     |        +--ro lsp-hop-avoid-node?                  boolean
|           |     |        +--ro lsp-hop-avoid-local?                 boolean
|           |     |        +--ro lsp-hop-avoid-remote?                boolean
|           |     +--ro lsp-cspf-exclude-hops-present?                    boolean
|           |     +--ro lsp-cspf-exclude-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                      inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                  boolean
|           |     |        +--ro lsp-hop-loose-hop?                   boolean
|           |     |        +--ro lsp-hop-is-router-id?                boolean
|           |     |        +--ro lsp-hop-has-protection?              boolean
|           |     |        +--ro lsp-hop-has-node-protection?         boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?    boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?       boolean
|           |     |        +--ro lsp-hop-avoid-node?                  boolean
|           |     |        +--ro lsp-hop-avoid-local?                 boolean
|           |     |        +--ro lsp-hop-avoid-remote?                boolean
|           |     +--ro lsp-rsvp-session-present?                         boolean
|           |     +--ro lsp-rsvp-session-state-up?                        boolean
|           |     +--ro lsp-rsvp-session-state?                           uint8
|           |     +--ro lsp-rsvp-session-path-error-code?                 uint32
|           |     +--ro lsp-rsvp-session-path-error-value?                uint32
|           |     +--ro lsp-rsvp-session-path-error-node-address?         inet:ipv4-address
|           |     +--ro lsp-rsvp-session-rro-hops-present?                boolean
|           |     +--ro lsp-rsvp-session-rro-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                      inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                  boolean
|           |     |        +--ro lsp-hop-loose-hop?                   boolean
|           |     |        +--ro lsp-hop-is-router-id?                boolean
|           |     |        +--ro lsp-hop-has-protection?              boolean
|           |     |        +--ro lsp-hop-has-node-protection?         boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?    boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?       boolean
|           |     |        +--ro lsp-hop-avoid-node?                  boolean
|           |     |        +--ro lsp-hop-avoid-local?                 boolean
|           |     |        +--ro lsp-hop-avoid-remote?                boolean
|           |     +--ro lsp-maximum-bandwidth?                            uint32
|           |     +--ro lsp-unreserved-priority-0-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-1-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-2-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-3-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-4-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-5-bandwidth?              uint32
```

```
|           |     +--ro lsp-unreserved-priority-6-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-7-bandwidth?              uint32
|           +--ro show-mpls-lsp-forwarding-info
|           |  +--ro lsp-forwarding-primary-active?     boolean
|           |  +--ro lsp-forwarding-primary-up?         boolean
|           |  +--ro lsp-forwarding-secondary-active?   boolean
|           |  +--ro lsp-forwarding-secondary-up?       boolean
|           |  +--ro lsp-forwarding-frr-active?         boolean
|           |  +--ro lsp-forwarding-frr-up?             boolean
|           |  +--ro lsp-forwarding-out-port-id?        uint32
|           |  +--ro lsp-forwarding-out-port-name?      string
|           |  +--ro lsp-forwarding-out-label?          uint32
|           +--ro show-mpls-lsp-sec-path-info
|           |  +--ro sec-path [lsp-sec-path-path-name]
|           |     +--ro lsp-sec-path-path-name                                string
|           |     +--ro lsp-sec-path-state?                                   uint8
|           |     +--ro lsp-sec-path-state-up?                                boolean
|           |     +--ro lsp-sec-path-active?                                  boolean
|           |     +--ro lsp-sec-path-is-current-secondary?                    boolean
|           |     +--ro lsp-sec-path-is-selected-secondary?                   boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer-configured?      boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer?                 uint32
|           |     +--ro lsp-sec-path-config-tspec-mtu-configured?             boolean
|           |     +--ro lsp-sec-path-sec-path-config-tspec-mtu?               uint32
|           |     +--ro lsp-sec-path-config-cos-configured?                   boolean
|           |     +--ro lsp-sec-path-config-cos?                              uint8
|           |     +--ro lsp-sec-path-config-mtu-configured?                   boolean
|           |     +--ro lsp-sec-path-config-mtu?                              uint32
|           |     +--ro lsp-sec-path-config-tie-breaking-configured?          boolean
|           |     +--ro lsp-sec-path-config-tie-break-random?                 boolean
|           |     +--ro lsp-sec-path-config-tie-break-least-fill?             boolean
|           |     +--ro lsp-sec-path-config-tie-break-most-fill?              boolean
|           |     +--ro lsp-sec-path-config-cspf-disabled?                    boolean
|           |     +--ro lsp-sec-path-config-hot-standby?                      boolean
|           |     +--ro lsp-sec-path-config-pinned?                           boolean
|           |     +--ro lsp-sec-path-config-persistent?                       boolean
|           |     +--ro lsp-sec-path-config-soft-prempt?                      boolean
|           |     +--ro lsp-sec-path-config-priority-configured?              boolean
|           |     +--ro lsp-sec-path-config-setup-prority?                    uint8
|           |     +--ro lsp-sec-path-config-holding-prority?                  uint8
|           |     +--ro lsp-sec-path-config-hop-limit-configured?             boolean
|           |     +--ro lsp-sec-path-config-hop-limit?                        uint8
|           |     +--ro lsp-sec-path-config-traffic-eng-rate-configured?      boolean
|           |     +--ro lsp-sec-path-config-traffic-eng-mean-rate?            uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-rate?             uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-burst?            uint32
|           |     +--ro lsp-sec-path-config-admin-group-configured?           boolean
|           |     +--ro lsp-sec-path-config-admin-groups
|           |        +--ro lsp-admin-group
|           |           +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |           |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |           |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |              +--ro lsp-admin-group-include-all-group-id    uint32
|           +--ro show-mpls-lsp-frr-info
|           |  +--ro lsp-frr-operational-status?                      boolean
|           |  +--ro lsp-frr-operational-status-active?               boolean
|           |  +--ro lsp-frr-down-reason?                             string
|           |  +--ro lsp-frr-computation-mode-default?                boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-metric?      boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-liberal?     boolean
|           |  +--ro lsp-frr-group-computation-mode-default?          boolean
|           |  +--ro lsp-frr-group-computation-mode-add-penalty?      boolean
|           |  +--ro lsp-frr-group-computation-mode-exclude-groups?   boolean
|           |  +--ro lsp-frr-group-computation-mode-high-cost?        boolean
|           |  +--ro lsp-frr-out-port-id?                             uint32
|           |  +--ro lsp-frr-out-port-name?                           string
|           |  +--ro lsp-frr-out-label?                               uint32
|           |  +--ro lsp-frr-path-cost?                               uint32
|           |  +--ro lsp-frr-bypass-name?                             string
|           |  +--ro lsp-frr-forwarding-protected-up?                 boolean
```

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|           |  +--ro lsp-frr-secondary-swithover-time?               uint32
|           |  +--ro lsp-frr-hold-time?                              uint32
|           +--ro show-mpls-lsp-backup-info
|              +--ro lsp-backups [lsp-backup-name]
|                 +--ro lsp-backup-from-address?   inet:ipv4-address
|                 +--ro lsp-backup-to-address?     inet:ipv4-address
|                 +--ro lsp-backup-name            string
|                 +--ro lsp-backup-type-ingress?   boolean
|                 +--ro lsp-backup-type-transit?   boolean
|                 +--ro lsp-backup-is-active?      boolean
+---x show-mpls-lsp-extensive
|  +--ro output
|     +--ro lsp
|        +--ro show-mpls-lsp-extensive-info
|           +--ro show-mpls-lsp-basic-info
|           |  +--ro lsp-name?                 string
|           |  +--ro lsp-type-bypass?          boolean
|           |  +--ro lsp-type-dynamic?         boolean
|           |  +--ro lsp-from-address?         inet:ipv4-address
|           |  +--ro lsp-to-address?           inet:ipv4-address
|           |  +--ro lsp-tunnel-id?            uint32
|           |  +--ro lsp-lsp-id?               uint32
|           |  +--ro lsp-admin-up?             boolean
|           |  +--ro lsp-operational-up?       boolean
|           |  +--ro lsp-is-active?            boolean
|           |  +--ro lsp-path-name?            string
|           |  +--ro lsp-out-label?            uint32
|           |  +--ro lsp-out-interface-name?   string
|           +--ro show-mpls-lsp-common-info
|           |  +--ro lsp-config-admin-up?                          boolean
|           |  +--ro lsp-config-from-address?                      inet:ipv4-address
|           |  +--ro lsp-config-to-address?                        inet:ipv4-address
|           |  +--ro lsp-config-type-bypass?                       boolean
|           |  +--ro lsp-config-type-dynamic?                      boolean
|           |  +--ro lsp-config-adaptive?                          boolean
|           |  +--ro lsp-config-ospf-area?                         inet:ipv4-address
|           |  +--ro lsp-config-isis-level?                        uint32
|           |  +--ro lsp-config-number-of-retries-configured?      boolean
|           |  +--ro lsp-config-number-of-retries?                 uint32
|           |  +--ro lsp-config-path-select-mode-configured?       boolean
|           |  +--ro lsp-config-path-select-mode-manual?           boolean
|           |  +--ro lsp-config-path-select-mode-unconditional?    boolean
|           |  +--ro lsp-config-path-select-primary?               boolean
|           |  +--ro lsp-config-path-select-secondary?             boolean
|           |  +--ro lsp-config-shortcut-ospf?                     boolean
|           |  +--ro lsp-config-shortcut-area-configured?          boolean
|           |  +--ro lsp-config-shortcut-area?                     inet:ipv4-address
|           |  +--ro lsp-config-notify-ospf?                       boolean
|           |  +--ro lsp-config-shortcut-isis?                     boolean
|           |  +--ro lsp-config-shortcut-isis-level-configured?    boolean
|           |  +--ro lsp-config-isis-shortcut-level?               uint8
|           |  +--ro lsp-config-notify-isis?                       boolean
|           |  +--ro lsp-config-metric-configured?                 boolean
|           |  +--ro lsp-config-metric?                            uint32
|           |  +--ro lsp-config-ospf-ignore-metric?                boolean
|           |  +--ro lsp-config-ospf-relative-metric?              uint32
|           |  +--ro lsp-config-ospf-announce-metric?              uint32
|           |  +--ro lsp-config-ospf-aaf?                          uint32
|           |  +--ro lsp-config-isis-ignore-metric?                boolean
|           |  +--ro lsp-config-isis-relative-metric?              uint32
|           |  +--ro lsp-config-isis-announce-configured?          boolean
|           |  +--ro lsp-config-isis-announce-metric?              uint32
|           |  +--ro lsp-config-frr-configured?                    boolean
|           |  +--ro lsp-config-frr-one-to-one?                    boolean
|           |  +--ro lsp-config-frr-one-to-many?                   boolean
|           |  +--ro lsp-config-frr-priority-configured?           boolean
|           |  +--ro lsp-config-frr-setup-priority?                uint8
|           |  +--ro lsp-config-frr-holding-priority?              uint8
|           |  +--ro lsp-config-frr-hop-limit-configured?          boolean
|           |  +--ro lsp-config-frr-hop-limit?                     uint8
|           |  +--ro lsp-config-frr-bandwidth-configured?          boolean
|           |  +--ro lsp-config-frr-bandwidth?                     uint32
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|           |  +--ro lsp-config-frr-admin-group-configured?       boolean
|           |  +--ro lsp-config-frr-admin-groups
|           |  |  +--ro lsp-admin-group
|           |  |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |  |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |  |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |  |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |  +--ro lsp-config-exclude-interface-configured?     boolean
|           |  +--ro lsp-config-exclude-interfaces [interface-name]
|           |     +--ro interface-name    string
|           +--ro show-mpls-lsp-instances-info
|           |  +--ro lsp-instances [lsp-instance-number]
|           |     +--ro lsp-instance-number                                uint32
|           |     +--ro lsp-current-instance?                              boolean
|           |     +--ro lsp-new-instance?                                  boolean
|           |     +--ro lsp-old-instance?                                  boolean
|           |     +--ro lsp-is-primary?                                    boolean
|           |     +--ro lsp-is-current-secondary?                          boolean
|           |     +--ro lsp-is-selected-secondary?                         boolean
|           |     +--ro lsp-config-path-configured?                        boolean
|           |     +--ro lsp-config-path?                                   string
|           |     +--ro lsp-config-reoptimize-timer-configured?            boolean
|           |     +--ro lsp-config-reoptimize-timer?                       uint32
|           |     +--ro lsp-config-tspec-mtu-configured?                   boolean
|           |     +--ro lsp-config-tspec-mtu?                              uint32
|           |     +--ro lsp-config-cos-configured?                         boolean
|           |     +--ro lsp-config-cos?                                    uint8
|           |     +--ro lsp-config-mtu-configured?                         boolean
|           |     +--ro lsp-config-mtu?                                    uint32
|           |     +--ro lsp-config-tie-breaking-configured?                boolean
|           |     +--ro lsp-config-tie-break-random?                       boolean
|           |     +--ro lsp-config-tie-break-least-fill?                   boolean
|           |     +--ro lsp-config-tie-break-most-fill?                    boolean
|           |     +--ro lsp-config-cspf-disabled?                          boolean
|           |     +--ro lsp-config-hot-standby?                            boolean
|           |     +--ro lsp-config-pinned?                                 boolean
|           |     +--ro lsp-config-persistenct?                            boolean
|           |     +--ro lsp-config-frr-global-revertive?                   boolean
|           |     +--ro lsp-config-frr-hold-time?                          boolean
|           |     +--ro lsp-config-soft-prempt?                            boolean
|           |     +--ro lsp-config-exclude-interface-change?               boolean
|           |     +--ro lsp-config-prority-configured?                     boolean
|           |     +--ro lsp-config-setup-prority?                          uint8
|           |     +--ro lsp-config-holding-prority?                        uint8
|           |     +--ro lsp-config-hop-limit-configured?                   boolean
|           |     +--ro lsp-config-hop-limit?                              uint8
|           |     +--ro lsp-config-traffic-eng-rate-configured?            boolean
|           |     +--ro lsp-config-traffic-eng-mean-rate?                  uint32
|           |     +--ro lsp-config-traffic-eng-max-rate?                   uint32
|           |     +--ro lsp-config-traffic-eng-max-burst?                  uint32
|           |     +--ro lsp-config-admin-group-configured?                 boolean
|           |     +--ro lsp-config-admin-groups
|           |     |  +--ro lsp-admin-group
|           |     |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |     |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |     |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |     |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |     +--ro lsp-path-computed-by-cspf?                         boolean
|           |     +--ro lsp-path-computed-by-interface-constraint?         boolean
|           |     +--ro lsp-cspf-computation-mode-default?                  boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-metric?       boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-liberal?      boolean
|           |     +--ro lsp-cspf-group-computation-mode-default?           boolean
|           |     +--ro lsp-cspf-group-computation-mode-add-penalty?       boolean
|           |     +--ro lsp-cspf-group-computation-mode-exclude-groups?    boolean
|           |     +--ro lsp-cspf-group-computation-mode-high-cost?         boolean
|           |     +--ro lsp-cspf-path-cost?                                uint32
|           |     +--ro lsp-cspf-path-area?                                inet:ipv4-address
```

```
|           |     +--ro lsp-cspf-computation-error?                      uint32
|           |     +--ro lsp-cspf-path-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-cspf-exclude-hops-present?                   boolean
|           |     +--ro lsp-cspf-exclude-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-rsvp-session-present?                        boolean
|           |     +--ro lsp-rsvp-session-state-up?                       boolean
|           |     +--ro lsp-rsvp-session-state?                          uint8
|           |     +--ro lsp-rsvp-session-path-error-code?                uint32
|           |     +--ro lsp-rsvp-session-path-error-value?               uint32
|           |     +--ro lsp-rsvp-session-path-error-node-address?        inet:ipv4-address
|           |     +--ro lsp-rsvp-session-rro-hops-present?               boolean
|           |     +--ro lsp-rsvp-session-rro-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-maximum-bandwidth?                           uint32
|           |     +--ro lsp-unreserved-priority-0-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-1-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-2-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-3-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-4-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-5-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-6-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-7-bandwidth?             uint32
|           +--ro show-mpls-lsp-forwarding-info
|           |  +--ro lsp-forwarding-primary-active?     boolean
|           |  +--ro lsp-forwarding-primary-up?         boolean
|           |  +--ro lsp-forwarding-secondary-active?   boolean
|           |  +--ro lsp-forwarding-secondary-up?       boolean
|           |  +--ro lsp-forwarding-frr-active?         boolean
|           |  +--ro lsp-forwarding-frr-up?             boolean
|           |  +--ro lsp-forwarding-out-port-id?        uint32
|           |  +--ro lsp-forwarding-out-port-name?      string
|           |  +--ro lsp-forwarding-out-label?          uint32
|           +--ro show-mpls-lsp-sec-path-info
|           |  +--ro sec-path [lsp-sec-path-path-name]
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|           |     +--ro lsp-sec-path-path-name                                string
|           |     +--ro lsp-sec-path-state?                                   uint8
|           |     +--ro lsp-sec-path-state-up?                                boolean
|           |     +--ro lsp-sec-path-active?                                  boolean
|           |     +--ro lsp-sec-path-is-current-secondary?                    boolean
|           |     +--ro lsp-sec-path-is-selected-secondary?                   boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer-configured?      boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer?                 uint32
|           |     +--ro lsp-sec-path-config-tspec-mtu-configured?             boolean
|           |     +--ro lsp-sec-path-sec-path-config-tspec-mtu?               uint32
|           |     +--ro lsp-sec-path-config-cos-configured?                   boolean
|           |     +--ro lsp-sec-path-config-cos?                              uint8
|           |     +--ro lsp-sec-path-config-mtu-configured?                   boolean
|           |     +--ro lsp-sec-path-config-mtu?                              uint32
|           |     +--ro lsp-sec-path-config-tie-breaking-configured?          boolean
|           |     +--ro lsp-sec-path-config-tie-break-random?                 boolean
|           |     +--ro lsp-sec-path-config-tie-break-least-fill?             boolean
|           |     +--ro lsp-sec-path-config-tie-break-most-fill?              boolean
|           |     +--ro lsp-sec-path-config-cspf-disabled?                    boolean
|           |     +--ro lsp-sec-path-config-hot-standby?                      boolean
|           |     +--ro lsp-sec-path-config-pinned?                           boolean
|           |     +--ro lsp-sec-path-config-persistent?                       boolean
|           |     +--ro lsp-sec-path-config-soft-prempt?                      boolean
|           |     +--ro lsp-sec-path-config-priority-configured?              boolean
|           |     +--ro lsp-sec-path-config-setup-prority?                    uint8
|           |     +--ro lsp-sec-path-config-holding-prority?                  uint8
|           |     +--ro lsp-sec-path-config-hop-limit-configured?             boolean
|           |     +--ro lsp-sec-path-config-hop-limit?                        uint8
|           |     +--ro lsp-sec-path-config-traffic-eng-rate-configured?      boolean
|           |     +--ro lsp-sec-path-config-traffic-eng-mean-rate?            uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-rate?             uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-burst?            uint32
|           |     +--ro lsp-sec-path-config-admin-group-configured?           boolean
|           |     +--ro lsp-sec-path-config-admin-groups
|           |        +--ro lsp-admin-group
|           |           +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |           |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |           |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |              +--ro lsp-admin-group-include-all-group-id    uint32
|           +--ro show-mpls-lsp-frr-info
|           |  +--ro lsp-frr-operational-status?                       boolean
|           |  +--ro lsp-frr-operational-status-active?                boolean
|           |  +--ro lsp-frr-down-reason?                              string
|           |  +--ro lsp-frr-computation-mode-default?                 boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-metric?       boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-liberal?      boolean
|           |  +--ro lsp-frr-group-computation-mode-default?           boolean
|           |  +--ro lsp-frr-group-computation-mode-add-penalty?       boolean
|           |  +--ro lsp-frr-group-computation-mode-exclude-groups?    boolean
|           |  +--ro lsp-frr-group-computation-mode-high-cost?         boolean
|           |  +--ro lsp-frr-out-port-id?                              uint32
|           |  +--ro lsp-frr-out-port-name?                            string
|           |  +--ro lsp-frr-out-label?                                uint32
|           |  +--ro lsp-frr-path-cost?                                uint32
|           |  +--ro lsp-frr-bypass-name?                              string
|           |  +--ro lsp-frr-forwarding-protected-up?                  boolean
|           |  +--ro lsp-frr-secondary-swithover-time?                 uint32
|           |  +--ro lsp-frr-hold-time?                                uint32
|           +--ro show-mpls-lsp-backup-info
|           |  +--ro lsp-backups [lsp-backup-name]
|           |     +--ro lsp-backup-from-address?   inet:ipv4-address
|           |     +--ro lsp-backup-to-address?     inet:ipv4-address
|           |     +--ro lsp-backup-name            string
|           |     +--ro lsp-backup-type-ingress?   boolean
|           |     +--ro lsp-backup-type-transit?   boolean
|           |     +--ro lsp-backup-is-active?      boolean
|           +--ro show-mpls-lsp-history-info
|              +--ro lsp-history?   string
+---x show-mpls-lsp-debug
|  +--ro output
```

```
|     +--ro lsp
|        +--ro show-mpls-lsp-debug-info
|           +--ro show-mpls-lsp-basic-info
|           |  +--ro lsp-name?                 string
|           |  +--ro lsp-type-bypass?          boolean
|           |  +--ro lsp-type-dynamic?         boolean
|           |  +--ro lsp-from-address?         inet:ipv4-address
|           |  +--ro lsp-to-address?           inet:ipv4-address
|           |  +--ro lsp-tunnel-id?            uint32
|           |  +--ro lsp-lsp-id?               uint32
|           |  +--ro lsp-admin-up?             boolean
|           |  +--ro lsp-operational-up?       boolean
|           |  +--ro lsp-is-active?            boolean
|           |  +--ro lsp-path-name?            string
|           |  +--ro lsp-out-label?            uint32
|           |  +--ro lsp-out-interface-name?   string
|           +--ro show-mpls-lsp-common-info
|           |  +--ro lsp-config-admin-up?                          boolean
|           |  +--ro lsp-config-from-address?                      inet:ipv4-address
|           |  +--ro lsp-config-to-address?                        inet:ipv4-address
|           |  +--ro lsp-config-type-bypass?                       boolean
|           |  +--ro lsp-config-type-dynamic?                      boolean
|           |  +--ro lsp-config-adaptive?                          boolean
|           |  +--ro lsp-config-ospf-area?                         inet:ipv4-address
|           |  +--ro lsp-config-isis-level?                        uint32
|           |  +--ro lsp-config-number-of-retries-configured?      boolean
|           |  +--ro lsp-config-number-of-retries?                 uint32
|           |  +--ro lsp-config-path-select-mode-configured?       boolean
|           |  +--ro lsp-config-path-select-mode-manual?           boolean
|           |  +--ro lsp-config-path-select-mode-unconditional?    boolean
|           |  +--ro lsp-config-path-select-primary?               boolean
|           |  +--ro lsp-config-path-select-secondary?             boolean
|           |  +--ro lsp-config-shortcut-ospf?                     boolean
|           |  +--ro lsp-config-shortcut-area-configured?          boolean
|           |  +--ro lsp-config-shortcut-area?                     inet:ipv4-address
|           |  +--ro lsp-config-notify-ospf?                       boolean
|           |  +--ro lsp-config-shortcut-isis?                     boolean
|           |  +--ro lsp-config-shortcut-isis-level-configured?    boolean
|           |  +--ro lsp-config-isis-shortcut-level?               uint8
|           |  +--ro lsp-config-notify-isis?                       boolean
|           |  +--ro lsp-config-metric-configured?                 boolean
|           |  +--ro lsp-config-metric?                            uint32
|           |  +--ro lsp-config-ospf-ignore-metric?                boolean
|           |  +--ro lsp-config-ospf-relative-metric?              uint32
|           |  +--ro lsp-config-ospf-announce-metric?              uint32
|           |  +--ro lsp-config-ospf-aaf?                          uint32
|           |  +--ro lsp-config-isis-ignore-metric?                boolean
|           |  +--ro lsp-config-isis-relative-metric?              uint32
|           |  +--ro lsp-config-isis-announce-configured?          boolean
|           |  +--ro lsp-config-isis-announce-metric?              uint32
|           |  +--ro lsp-config-frr-configured?                    boolean
|           |  +--ro lsp-config-frr-one-to-one?                    boolean
|           |  +--ro lsp-config-frr-one-to-many?                   boolean
|           |  +--ro lsp-config-frr-priority-configured?           boolean
|           |  +--ro lsp-config-frr-setup-priority?                uint8
|           |  +--ro lsp-config-frr-holding-priority?              uint8
|           |  +--ro lsp-config-frr-hop-limit-configured?          boolean
|           |  +--ro lsp-config-frr-hop-limit?                     uint8
|           |  +--ro lsp-config-frr-bandwidth-configured?          boolean
|           |  +--ro lsp-config-frr-bandwidth?                     uint32
|           |  +--ro lsp-config-frr-admin-group-configured?        boolean
|           |  +--ro lsp-config-frr-admin-groups
|           |  |  +--ro lsp-admin-group
|           |  |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |  |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |  |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |  |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |  +--ro lsp-config-exclude-interface-configured?      boolean
|           |  +--ro lsp-config-exclude-interfaces [interface-name]
|           |     +--ro interface-name    string
```

```
|           +--ro show-mpls-lsp-instances-info
|           |  +--ro lsp-instances [lsp-instance-number]
|           |     +--ro lsp-instance-number                                  uint32
|           |     +--ro lsp-current-instance?                                boolean
|           |     +--ro lsp-new-instance?                                    boolean
|           |     +--ro lsp-old-instance?                                    boolean
|           |     +--ro lsp-is-primary?                                      boolean
|           |     +--ro lsp-is-current-secondary?                            boolean
|           |     +--ro lsp-is-selected-secondary?                           boolean
|           |     +--ro lsp-config-path-configured?                          boolean
|           |     +--ro lsp-config-path?                                     string
|           |     +--ro lsp-config-reoptimize-timer-configured?              boolean
|           |     +--ro lsp-config-reoptimize-timer?                         uint32
|           |     +--ro lsp-config-tspec-mtu-configured?                     boolean
|           |     +--ro lsp-config-tspec-mtu?                                uint32
|           |     +--ro lsp-config-cos-configured?                           boolean
|           |     +--ro lsp-config-cos?                                      uint8
|           |     +--ro lsp-config-mtu-configured?                           boolean
|           |     +--ro lsp-config-mtu?                                      uint32
|           |     +--ro lsp-config-tie-breaking-configured?                  boolean
|           |     +--ro lsp-config-tie-break-random?                         boolean
|           |     +--ro lsp-config-tie-break-least-fill?                     boolean
|           |     +--ro lsp-config-tie-break-most-fill?                      boolean
|           |     +--ro lsp-config-cspf-disabled?                            boolean
|           |     +--ro lsp-config-hot-standby?                              boolean
|           |     +--ro lsp-config-pinned?                                   boolean
|           |     +--ro lsp-config-persistenct?                              boolean
|           |     +--ro lsp-config-frr-global-revertive?                     boolean
|           |     +--ro lsp-config-frr-hold-time?                            boolean
|           |     +--ro lsp-config-soft-prempt?                              boolean
|           |     +--ro lsp-config-exclude-interface-change?                 boolean
|           |     +--ro lsp-config-prority-configured?                       boolean
|           |     +--ro lsp-config-setup-prority?                            uint8
|           |     +--ro lsp-config-holding-prority?                          uint8
|           |     +--ro lsp-config-hop-limit-configured?                     boolean
|           |     +--ro lsp-config-hop-limit?                                uint8
|           |     +--ro lsp-config-traffic-eng-rate-configured?              boolean
|           |     +--ro lsp-config-traffic-eng-mean-rate?                    uint32
|           |     +--ro lsp-config-traffic-eng-max-rate?                     uint32
|           |     +--ro lsp-config-traffic-eng-max-burst?                    uint32
|           |     +--ro lsp-config-admin-group-configured?                   boolean
|           |     +--ro lsp-config-admin-groups
|           |     |  +--ro lsp-admin-group
|           |     |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |     |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |     |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |     |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |     +--ro lsp-path-computed-by-cspf?                          boolean
|           |     +--ro lsp-path-computed-by-interface-constraint?          boolean
|           |     +--ro lsp-cspf-computation-mode-default?                   boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-metric?        boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-liberal?       boolean
|           |     +--ro lsp-cspf-group-computation-mode-default?            boolean
|           |     +--ro lsp-cspf-group-computation-mode-add-penalty?        boolean
|           |     +--ro lsp-cspf-group-computation-mode-exclude-groups?     boolean
|           |     +--ro lsp-cspf-group-computation-mode-high-cost?          boolean
|           |     +--ro lsp-cspf-path-cost?                                 uint32
|           |     +--ro lsp-cspf-path-area?                                 inet:ipv4-address
|           |     +--ro lsp-cspf-computation-error?                         uint32
|           |     +--ro lsp-cspf-path-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                    inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                boolean
|           |     |        +--ro lsp-hop-loose-hop?                 boolean
|           |     |        +--ro lsp-hop-is-router-id?              boolean
|           |     |        +--ro lsp-hop-has-protection?            boolean
|           |     |        +--ro lsp-hop-has-node-protection?       boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?  boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?     boolean
```

```
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-cspf-exclude-hops-present?                    boolean
|           |     +--ro lsp-cspf-exclude-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-rsvp-session-present?                         boolean
|           |     +--ro lsp-rsvp-session-state-up?                        boolean
|           |     +--ro lsp-rsvp-session-state?                           uint8
|           |     +--ro lsp-rsvp-session-path-error-code?                 uint32
|           |     +--ro lsp-rsvp-session-path-error-value?                uint32
|           |     +--ro lsp-rsvp-session-path-error-node-address?         inet:ipv4-address
|           |     +--ro lsp-rsvp-session-rro-hops-present?                boolean
|           |     +--ro lsp-rsvp-session-rro-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-maximum-bandwidth?                            uint32
|           |     +--ro lsp-unreserved-priority-0-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-1-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-2-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-3-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-4-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-5-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-6-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-7-bandwidth?              uint32
|           +--ro show-mpls-lsp-forwarding-info
|           |  +--ro lsp-forwarding-primary-active?     boolean
|           |  +--ro lsp-forwarding-primary-up?         boolean
|           |  +--ro lsp-forwarding-secondary-active?   boolean
|           |  +--ro lsp-forwarding-secondary-up?       boolean
|           |  +--ro lsp-forwarding-frr-active?         boolean
|           |  +--ro lsp-forwarding-frr-up?             boolean
|           |  +--ro lsp-forwarding-out-port-id?        uint32
|           |  +--ro lsp-forwarding-out-port-name?      string
|           |  +--ro lsp-forwarding-out-label?          uint32
|           +--ro show-mpls-lsp-sec-path-info
|           |  +--ro sec-path [lsp-sec-path-path-name]
|           |     +--ro lsp-sec-path-path-name                                string
|           |     +--ro lsp-sec-path-state?                                   uint8
|           |     +--ro lsp-sec-path-state-up?                                boolean
|           |     +--ro lsp-sec-path-active?                                  boolean
|           |     +--ro lsp-sec-path-is-current-secondary?                    boolean
|           |     +--ro lsp-sec-path-is-selected-secondary?                   boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer-configured?      boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer?                 uint32
|           |     +--ro lsp-sec-path-config-tspec-mtu-configured?             boolean
|           |     +--ro lsp-sec-path-sec-path-config-tspec-mtu?               uint32
|           |     +--ro lsp-sec-path-config-cos-configured?                   boolean
|           |     +--ro lsp-sec-path-config-cos?                              uint8
```

```
|           |     +--ro lsp-sec-path-config-mtu-configured?               boolean
|           |     +--ro lsp-sec-path-config-mtu?                          uint32
|           |     +--ro lsp-sec-path-config-tie-breaking-configured?      boolean
|           |     +--ro lsp-sec-path-config-tie-break-random?             boolean
|           |     +--ro lsp-sec-path-config-tie-break-least-fill?         boolean
|           |     +--ro lsp-sec-path-config-tie-break-most-fill?          boolean
|           |     +--ro lsp-sec-path-config-cspf-disabled?                boolean
|           |     +--ro lsp-sec-path-config-hot-standby?                  boolean
|           |     +--ro lsp-sec-path-config-pinned?                       boolean
|           |     +--ro lsp-sec-path-config-persistent?                   boolean
|           |     +--ro lsp-sec-path-config-soft-prempt?                  boolean
|           |     +--ro lsp-sec-path-config-priority-configured?          boolean
|           |     +--ro lsp-sec-path-config-setup-prority?                uint8
|           |     +--ro lsp-sec-path-config-holding-prority?              uint8
|           |     +--ro lsp-sec-path-config-hop-limit-configured?         boolean
|           |     +--ro lsp-sec-path-config-hop-limit?                    uint8
|           |     +--ro lsp-sec-path-config-traffic-eng-rate-configured?  boolean
|           |     +--ro lsp-sec-path-config-traffic-eng-mean-rate?        uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-rate?         uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-burst?        uint32
|           |     +--ro lsp-sec-path-config-admin-group-configured?       boolean
|           |     +--ro lsp-sec-path-config-admin-groups
|           |        +--ro lsp-admin-group
|           |           +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |           |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |           |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |              +--ro lsp-admin-group-include-all-group-id    uint32
|           +--ro show-mpls-lsp-frr-info
|           |  +--ro lsp-frr-operational-status?                      boolean
|           |  +--ro lsp-frr-operational-status-active?               boolean
|           |  +--ro lsp-frr-down-reason?                             string
|           |  +--ro lsp-frr-computation-mode-default?                boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-metric?      boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-liberal?     boolean
|           |  +--ro lsp-frr-group-computation-mode-default?          boolean
|           |  +--ro lsp-frr-group-computation-mode-add-penalty?      boolean
|           |  +--ro lsp-frr-group-computation-mode-exclude-groups?   boolean
|           |  +--ro lsp-frr-group-computation-mode-high-cost?        boolean
|           |  +--ro lsp-frr-out-port-id?                             uint32
|           |  +--ro lsp-frr-out-port-name?                           string
|           |  +--ro lsp-frr-out-label?                               uint32
|           |  +--ro lsp-frr-path-cost?                               uint32
|           |  +--ro lsp-frr-bypass-name?                             string
|           |  +--ro lsp-frr-forwarding-protected-up?                 boolean
|           |  +--ro lsp-frr-secondary-swithover-time?                uint32
|           |  +--ro lsp-frr-hold-time?                               uint32
|           +--ro show-mpls-lsp-backup-info
|           |  +--ro lsp-backups [lsp-backup-name]
|           |     +--ro lsp-backup-from-address?   inet:ipv4-address
|           |     +--ro lsp-backup-to-address?     inet:ipv4-address
|           |     +--ro lsp-backup-name            string
|           |     +--ro lsp-backup-type-ingress?   boolean
|           |     +--ro lsp-backup-type-transit?   boolean
|           |     +--ro lsp-backup-is-active?      boolean
|           +--ro show-mpls-lsp-history-info
|              +--ro lsp-history?   string
+---x show-mpls-lsp-name-detail
|  +--ro input
|  |  +--ro show-lsp-input-info
|  |     +--ro lsp?                                string
|  |     +--ro lsp-wide?                           boolean
|  |     +--ro lsp-detail?                         boolean
|  |     +--ro lsp-extensive?                      boolean
|  |     +--ro lsp-debug?                          boolean
|  |     +--ro lsp-name?                           string
|  |     +--ro lsp-name-extensive?                 boolean
|  |     +--ro lsp-name-debug?                     boolean
|  |     +--ro bypass-lsp?                         string
|  |     +--ro bypass-lsp-wide?                    boolean
|  |     +--ro bypass-lsp-detail?                  boolean
```

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|  |     +--ro bypass-lsp-extensive?                boolean
|  |     +--ro bypass-lsp-debug?                    boolean
|  |     +--ro bypass-lsp-name?                     string
|  |     +--ro bypass-lsp-name-extensive?           boolean
|  |     +--ro bypass-lsp-name-debug?               boolean
|  |     +--ro bypass-lsp-static?                   string
|  |     +--ro bypass-lsp-static-wide?              boolean
|  |     +--ro bypass-lsp-static-detail?            boolean
|  |     +--ro bypass-lsp-static-extensive?         boolean
|  |     +--ro bypass-lsp-static-debug?             boolean
|  |     +--ro bypass-lsp-static-name?              string
|  |     +--ro bypass-lsp-static-name-extensive?    boolean
|  |     +--ro bypass-lsp-static-name-debug?        boolean
|  |     +--ro bypass-lsp-dynamic?                  string
|  |     +--ro bypass-lsp-dynamic-wide?             boolean
|  |     +--ro bypass-lsp-dynamic-detail?           boolean
|  |     +--ro bypass-lsp-dynamic-extensive?        boolean
|  |     +--ro bypass-lsp-dynamic-debug?            boolean
|  |     +--ro bypass-lsp-dynamic-name?             string
|  |     +--ro bypass-lsp-dynamic-name-extensive?   boolean
|  |     +--ro bypass-lsp-dynamic-name-debug?       boolean
|  |     +--ro lsp-input-lsp-name?                  string
|  |     +--ro lsp-input-bypass?                    boolean
|  |     +--ro lsp-input-dynamic?                   boolean
|  |     +--ro lsp-input-brief?                     boolean
|  |     +--ro lsp-input-wide?                      boolean
|  |     +--ro lsp-input-detail?                    boolean
|  |     +--ro lsp-input-extensive?                 boolean
|  |     +--ro lsp-input-debug?                     boolean
|  |     +--ro lsp-input-one?                       boolean
|  |     +--ro lsp-input-all?                       boolean
|  |     +--ro lsp-input-more?                      boolean
|  +--ro output
|     +--ro lsp
|        +--ro show-mpls-lsp-detail-info
|           +--ro show-mpls-lsp-basic-info
|           |  +--ro lsp-name?                 string
|           |  +--ro lsp-type-bypass?          boolean
|           |  +--ro lsp-type-dynamic?         boolean
|           |  +--ro lsp-from-address?         inet:ipv4-address
|           |  +--ro lsp-to-address?           inet:ipv4-address
|           |  +--ro lsp-tunnel-id?            uint32
|           |  +--ro lsp-lsp-id?               uint32
|           |  +--ro lsp-admin-up?             boolean
|           |  +--ro lsp-operational-up?       boolean
|           |  +--ro lsp-is-active?            boolean
|           |  +--ro lsp-path-name?            string
|           |  +--ro lsp-out-label?            uint32
|           |  +--ro lsp-out-interface-name?   string
|           +--ro show-mpls-lsp-common-info
|           |  +--ro lsp-config-admin-up?                          boolean
|           |  +--ro lsp-config-from-address?                      inet:ipv4-address
|           |  +--ro lsp-config-to-address?                        inet:ipv4-address
|           |  +--ro lsp-config-type-bypass?                       boolean
|           |  +--ro lsp-config-type-dynamic?                      boolean
|           |  +--ro lsp-config-adaptive?                          boolean
|           |  +--ro lsp-config-ospf-area?                         inet:ipv4-address
|           |  +--ro lsp-config-isis-level?                        uint32
|           |  +--ro lsp-config-number-of-retries-configured?      boolean
|           |  +--ro lsp-config-number-of-retries?                 uint32
|           |  +--ro lsp-config-path-select-mode-configured?       boolean
|           |  +--ro lsp-config-path-select-mode-manual?           boolean
|           |  +--ro lsp-config-path-select-mode-unconditional?    boolean
|           |  +--ro lsp-config-path-select-primary?               boolean
|           |  +--ro lsp-config-path-select-secondary?             boolean
|           |  +--ro lsp-config-shortcut-ospf?                     boolean
|           |  +--ro lsp-config-shortcut-area-configured?          boolean
|           |  +--ro lsp-config-shortcut-area?                     inet:ipv4-address
|           |  +--ro lsp-config-notify-ospf?                       boolean
|           |  +--ro lsp-config-shortcut-isis?                     boolean
|           |  +--ro lsp-config-shortcut-isis-level-configured?    boolean
|           |  +--ro lsp-config-isis-shortcut-level?               uint8
```

```
|           |  +--ro lsp-config-notify-isis?                       boolean
|           |  +--ro lsp-config-metric-configured?                 boolean
|           |  +--ro lsp-config-metric?                            uint32
|           |  +--ro lsp-config-ospf-ignore-metric?                boolean
|           |  +--ro lsp-config-ospf-relative-metric?              uint32
|           |  +--ro lsp-config-ospf-announce-metric?              uint32
|           |  +--ro lsp-config-ospf-aaf?                          uint32
|           |  +--ro lsp-config-isis-ignore-metric?                boolean
|           |  +--ro lsp-config-isis-relative-metric?              uint32
|           |  +--ro lsp-config-isis-announce-configured?          boolean
|           |  +--ro lsp-config-isis-announce-metric?              uint32
|           |  +--ro lsp-config-frr-configured?                    boolean
|           |  +--ro lsp-config-frr-one-to-one?                    boolean
|           |  +--ro lsp-config-frr-one-to-many?                   boolean
|           |  +--ro lsp-config-frr-priority-configured?           boolean
|           |  +--ro lsp-config-frr-setup-priority?                uint8
|           |  +--ro lsp-config-frr-holding-priority?              uint8
|           |  +--ro lsp-config-frr-hop-limit-configured?          boolean
|           |  +--ro lsp-config-frr-hop-limit?                     uint8
|           |  +--ro lsp-config-frr-bandwidth-configured?          boolean
|           |  +--ro lsp-config-frr-bandwidth?                     uint32
|           |  +--ro lsp-config-frr-admin-group-configured?        boolean
|           |  +--ro lsp-config-frr-admin-groups
|           |  |  +--ro lsp-admin-group
|           |  |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |  |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |  |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |  |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |  +--ro lsp-config-exclude-interface-configured?     boolean
|           |  +--ro lsp-config-exclude-interfaces [interface-name]
|           |     +--ro interface-name    string
|           +--ro show-mpls-lsp-instances-info
|           |  +--ro lsp-instances [lsp-instance-number]
|           |     +--ro lsp-instance-number                                uint32
|           |     +--ro lsp-current-instance?                              boolean
|           |     +--ro lsp-new-instance?                                  boolean
|           |     +--ro lsp-old-instance?                                  boolean
|           |     +--ro lsp-is-primary?                                    boolean
|           |     +--ro lsp-is-current-secondary?                          boolean
|           |     +--ro lsp-is-selected-secondary?                         boolean
|           |     +--ro lsp-config-path-configured?                        boolean
|           |     +--ro lsp-config-path?                                   string
|           |     +--ro lsp-config-reoptimize-timer-configured?            boolean
|           |     +--ro lsp-config-reoptimize-timer?                       uint32
|           |     +--ro lsp-config-tspec-mtu-configured?                   boolean
|           |     +--ro lsp-config-tspec-mtu?                              uint32
|           |     +--ro lsp-config-cos-configured?                         boolean
|           |     +--ro lsp-config-cos?                                    uint8
|           |     +--ro lsp-config-mtu-configured?                         boolean
|           |     +--ro lsp-config-mtu?                                    uint32
|           |     +--ro lsp-config-tie-breaking-configured?                boolean
|           |     +--ro lsp-config-tie-break-random?                       boolean
|           |     +--ro lsp-config-tie-break-least-fill?                   boolean
|           |     +--ro lsp-config-tie-break-most-fill?                    boolean
|           |     +--ro lsp-config-cspf-disabled?                          boolean
|           |     +--ro lsp-config-hot-standby?                            boolean
|           |     +--ro lsp-config-pinned?                                 boolean
|           |     +--ro lsp-config-persistenct?                            boolean
|           |     +--ro lsp-config-frr-global-revertive?                   boolean
|           |     +--ro lsp-config-frr-hold-time?                          boolean
|           |     +--ro lsp-config-soft-prempt?                            boolean
|           |     +--ro lsp-config-exclude-interface-change?               boolean
|           |     +--ro lsp-config-prority-configured?                     boolean
|           |     +--ro lsp-config-setup-prority?                          uint8
|           |     +--ro lsp-config-holding-prority?                        uint8
|           |     +--ro lsp-config-hop-limit-configured?                   boolean
|           |     +--ro lsp-config-hop-limit?                              uint8
|           |     +--ro lsp-config-traffic-eng-rate-configured?            boolean
|           |     +--ro lsp-config-traffic-eng-mean-rate?                  uint32
|           |     +--ro lsp-config-traffic-eng-max-rate?                   uint32
```

```
|           |     +--ro lsp-config-traffic-eng-max-burst?                uint32
|           |     +--ro lsp-config-admin-group-configured?               boolean
|           |     +--ro lsp-config-admin-groups
|           |     |  +--ro lsp-admin-group
|           |     |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |     |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |     |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |     |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |     +--ro lsp-path-computed-by-cspf?                        boolean
|           |     +--ro lsp-path-computed-by-interface-constraint?        boolean
|           |     +--ro lsp-cspf-computation-mode-default?                 boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-metric?      boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-liberal?     boolean
|           |     +--ro lsp-cspf-group-computation-mode-default?          boolean
|           |     +--ro lsp-cspf-group-computation-mode-add-penalty?      boolean
|           |     +--ro lsp-cspf-group-computation-mode-exclude-groups?   boolean
|           |     +--ro lsp-cspf-group-computation-mode-high-cost?        boolean
|           |     +--ro lsp-cspf-path-cost?                               uint32
|           |     +--ro lsp-cspf-path-area?                               inet:ipv4-address
|           |     +--ro lsp-cspf-computation-error?                       uint32
|           |     +--ro lsp-cspf-path-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-cspf-exclude-hops-present?                    boolean
|           |     +--ro lsp-cspf-exclude-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-rsvp-session-present?                         boolean
|           |     +--ro lsp-rsvp-session-state-up?                        boolean
|           |     +--ro lsp-rsvp-session-state?                           uint8
|           |     +--ro lsp-rsvp-session-path-error-code?                 uint32
|           |     +--ro lsp-rsvp-session-path-error-value?                uint32
|           |     +--ro lsp-rsvp-session-path-error-node-address?         inet:ipv4-address
|           |     +--ro lsp-rsvp-session-rro-hops-present?                boolean
|           |     +--ro lsp-rsvp-session-rro-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
```

```
|           |     +--ro lsp-maximum-bandwidth?                                uint32
|           |     +--ro lsp-unreserved-priority-0-bandwidth?                  uint32
|           |     +--ro lsp-unreserved-priority-1-bandwidth?                  uint32
|           |     +--ro lsp-unreserved-priority-2-bandwidth?                  uint32
|           |     +--ro lsp-unreserved-priority-3-bandwidth?                  uint32
|           |     +--ro lsp-unreserved-priority-4-bandwidth?                  uint32
|           |     +--ro lsp-unreserved-priority-5-bandwidth?                  uint32
|           |     +--ro lsp-unreserved-priority-6-bandwidth?                  uint32
|           |     +--ro lsp-unreserved-priority-7-bandwidth?                  uint32
|           +--ro show-mpls-lsp-forwarding-info
|           |  +--ro lsp-forwarding-primary-active?     boolean
|           |  +--ro lsp-forwarding-primary-up?         boolean
|           |  +--ro lsp-forwarding-secondary-active?   boolean
|           |  +--ro lsp-forwarding-secondary-up?       boolean
|           |  +--ro lsp-forwarding-frr-active?         boolean
|           |  +--ro lsp-forwarding-frr-up?             boolean
|           |  +--ro lsp-forwarding-out-port-id?        uint32
|           |  +--ro lsp-forwarding-out-port-name?      string
|           |  +--ro lsp-forwarding-out-label?          uint32
|           +--ro show-mpls-lsp-sec-path-info
|           |  +--ro sec-path [lsp-sec-path-path-name]
|           |     +--ro lsp-sec-path-path-name                                 string
|           |     +--ro lsp-sec-path-state?                                    uint8
|           |     +--ro lsp-sec-path-state-up?                                 boolean
|           |     +--ro lsp-sec-path-active?                                   boolean
|           |     +--ro lsp-sec-path-is-current-secondary?                     boolean
|           |     +--ro lsp-sec-path-is-selected-secondary?                    boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer-configured?       boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer?                  uint32
|           |     +--ro lsp-sec-path-config-tspec-mtu-configured?              boolean
|           |     +--ro lsp-sec-path-sec-path-config-tspec-mtu?                uint32
|           |     +--ro lsp-sec-path-config-cos-configured?                    boolean
|           |     +--ro lsp-sec-path-config-cos?                               uint8
|           |     +--ro lsp-sec-path-config-mtu-configured?                    boolean
|           |     +--ro lsp-sec-path-config-mtu?                               uint32
|           |     +--ro lsp-sec-path-config-tie-breaking-configured?           boolean
|           |     +--ro lsp-sec-path-config-tie-break-random?                  boolean
|           |     +--ro lsp-sec-path-config-tie-break-least-fill?              boolean
|           |     +--ro lsp-sec-path-config-tie-break-most-fill?               boolean
|           |     +--ro lsp-sec-path-config-cspf-disabled?                     boolean
|           |     +--ro lsp-sec-path-config-hot-standby?                       boolean
|           |     +--ro lsp-sec-path-config-pinned?                            boolean
|           |     +--ro lsp-sec-path-config-persistent?                        boolean
|           |     +--ro lsp-sec-path-config-soft-prempt?                       boolean
|           |     +--ro lsp-sec-path-config-priority-configured?               boolean
|           |     +--ro lsp-sec-path-config-setup-prority?                     uint8
|           |     +--ro lsp-sec-path-config-holding-prority?                   uint8
|           |     +--ro lsp-sec-path-config-hop-limit-configured?              boolean
|           |     +--ro lsp-sec-path-config-hop-limit?                         uint8
|           |     +--ro lsp-sec-path-config-traffic-eng-rate-configured?       boolean
|           |     +--ro lsp-sec-path-config-traffic-eng-mean-rate?             uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-rate?              uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-burst?             uint32
|           |     +--ro lsp-sec-path-config-admin-group-configured?            boolean
|           |     +--ro lsp-sec-path-config-admin-groups
|           |        +--ro lsp-admin-group
|           |           +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |           |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |           |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |              +--ro lsp-admin-group-include-all-group-id    uint32
|           +--ro show-mpls-lsp-frr-info
|           |  +--ro lsp-frr-operational-status?                      boolean
|           |  +--ro lsp-frr-operational-status-active?               boolean
|           |  +--ro lsp-frr-down-reason?                             string
|           |  +--ro lsp-frr-computation-mode-default?                boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-metric?      boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-liberal?     boolean
|           |  +--ro lsp-frr-group-computation-mode-default?          boolean
|           |  +--ro lsp-frr-group-computation-mode-add-penalty?      boolean
|           |  +--ro lsp-frr-group-computation-mode-exclude-groups?   boolean
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|           |  +--ro lsp-frr-group-computation-mode-high-cost?        boolean
|           |  +--ro lsp-frr-out-port-id?                             uint32
|           |  +--ro lsp-frr-out-port-name?                           string
|           |  +--ro lsp-frr-out-label?                               uint32
|           |  +--ro lsp-frr-path-cost?                               uint32
|           |  +--ro lsp-frr-bypass-name?                             string
|           |  +--ro lsp-frr-forwarding-protected-up?                 boolean
|           |  +--ro lsp-frr-secondary-swithover-time?                uint32
|           |  +--ro lsp-frr-hold-time?                               uint32
|           +--ro show-mpls-lsp-backup-info
|              +--ro lsp-backups [lsp-backup-name]
|                 +--ro lsp-backup-from-address?   inet:ipv4-address
|                 +--ro lsp-backup-to-address?     inet:ipv4-address
|                 +--ro lsp-backup-name            string
|                 +--ro lsp-backup-type-ingress?   boolean
|                 +--ro lsp-backup-type-transit?   boolean
|                 +--ro lsp-backup-is-active?      boolean
+---x show-mpls-lsp-name-extensive
|  +--ro input
|  |  +--ro show-lsp-input-info
|  |     +--ro lsp?                                string
|  |     +--ro lsp-wide?                           boolean
|  |     +--ro lsp-detail?                         boolean
|  |     +--ro lsp-extensive?                      boolean
|  |     +--ro lsp-debug?                          boolean
|  |     +--ro lsp-name?                           string
|  |     +--ro lsp-name-extensive?                 boolean
|  |     +--ro lsp-name-debug?                     boolean
|  |     +--ro bypass-lsp?                         string
|  |     +--ro bypass-lsp-wide?                    boolean
|  |     +--ro bypass-lsp-detail?                  boolean
|  |     +--ro bypass-lsp-extensive?               boolean
|  |     +--ro bypass-lsp-debug?                   boolean
|  |     +--ro bypass-lsp-name?                    string
|  |     +--ro bypass-lsp-name-extensive?          boolean
|  |     +--ro bypass-lsp-name-debug?              boolean
|  |     +--ro bypass-lsp-static?                  string
|  |     +--ro bypass-lsp-static-wide?             boolean
|  |     +--ro bypass-lsp-static-detail?           boolean
|  |     +--ro bypass-lsp-static-extensive?        boolean
|  |     +--ro bypass-lsp-static-debug?            boolean
|  |     +--ro bypass-lsp-static-name?             string
|  |     +--ro bypass-lsp-static-name-extensive?   boolean
|  |     +--ro bypass-lsp-static-name-debug?       boolean
|  |     +--ro bypass-lsp-dynamic?                 string
|  |     +--ro bypass-lsp-dynamic-wide?            boolean
|  |     +--ro bypass-lsp-dynamic-detail?          boolean
|  |     +--ro bypass-lsp-dynamic-extensive?       boolean
|  |     +--ro bypass-lsp-dynamic-debug?           boolean
|  |     +--ro bypass-lsp-dynamic-name?            string
|  |     +--ro bypass-lsp-dynamic-name-extensive?  boolean
|  |     +--ro bypass-lsp-dynamic-name-debug?      boolean
|  |     +--ro lsp-input-lsp-name?                 string
|  |     +--ro lsp-input-bypass?                   boolean
|  |     +--ro lsp-input-dynamic?                  boolean
|  |     +--ro lsp-input-brief?                    boolean
|  |     +--ro lsp-input-wide?                     boolean
|  |     +--ro lsp-input-detail?                   boolean
|  |     +--ro lsp-input-extensive?                boolean
|  |     +--ro lsp-input-debug?                    boolean
|  |     +--ro lsp-input-one?                      boolean
|  |     +--ro lsp-input-all?                      boolean
|  |     +--ro lsp-input-more?                     boolean
|  +--ro output
|     +--ro lsp
|        +--ro show-mpls-lsp-extensive-info
|           +--ro show-mpls-lsp-basic-info
|              |  +--ro lsp-name?                 string
|              |  +--ro lsp-type-bypass?          boolean
|              |  +--ro lsp-type-dynamic?         boolean
|              |  +--ro lsp-from-address?         inet:ipv4-address
|              |  +--ro lsp-to-address?           inet:ipv4-address
```

```
|           |  +--ro lsp-tunnel-id?            uint32
|           |  +--ro lsp-lsp-id?               uint32
|           |  +--ro lsp-admin-up?             boolean
|           |  +--ro lsp-operational-up?       boolean
|           |  +--ro lsp-is-active?            boolean
|           |  +--ro lsp-path-name?            string
|           |  +--ro lsp-out-label?            uint32
|           |  +--ro lsp-out-interface-name?   string
|           +--ro show-mpls-lsp-common-info
|           |  +--ro lsp-config-admin-up?                          boolean
|           |  +--ro lsp-config-from-address?                      inet:ipv4-address
|           |  +--ro lsp-config-to-address?                        inet:ipv4-address
|           |  +--ro lsp-config-type-bypass?                       boolean
|           |  +--ro lsp-config-type-dynamic?                      boolean
|           |  +--ro lsp-config-adaptive?                          boolean
|           |  +--ro lsp-config-ospf-area?                         inet:ipv4-address
|           |  +--ro lsp-config-isis-level?                        uint32
|           |  +--ro lsp-config-number-of-retries-configured?      boolean
|           |  +--ro lsp-config-number-of-retries?                 uint32
|           |  +--ro lsp-config-path-select-mode-configured?       boolean
|           |  +--ro lsp-config-path-select-mode-manual?           boolean
|           |  +--ro lsp-config-path-select-mode-unconditional?    boolean
|           |  +--ro lsp-config-path-select-primary?               boolean
|           |  +--ro lsp-config-path-select-secondary?             boolean
|           |  +--ro lsp-config-shortcut-ospf?                     boolean
|           |  +--ro lsp-config-shortcut-area-configured?          boolean
|           |  +--ro lsp-config-shortcut-area?                     inet:ipv4-address
|           |  +--ro lsp-config-notify-ospf?                       boolean
|           |  +--ro lsp-config-shortcut-isis?                     boolean
|           |  +--ro lsp-config-shortcut-isis-level-configured?    boolean
|           |  +--ro lsp-config-isis-shortcut-level?               uint8
|           |  +--ro lsp-config-notify-isis?                       boolean
|           |  +--ro lsp-config-metric-configured?                 boolean
|           |  +--ro lsp-config-metric?                            uint32
|           |  +--ro lsp-config-ospf-ignore-metric?                boolean
|           |  +--ro lsp-config-ospf-relative-metric?              uint32
|           |  +--ro lsp-config-ospf-announce-metric?              uint32
|           |  +--ro lsp-config-ospf-aaf?                          uint32
|           |  +--ro lsp-config-isis-ignore-metric?                boolean
|           |  +--ro lsp-config-isis-relative-metric?              uint32
|           |  +--ro lsp-config-isis-announce-configured?          boolean
|           |  +--ro lsp-config-isis-announce-metric?              uint32
|           |  +--ro lsp-config-frr-configured?                    boolean
|           |  +--ro lsp-config-frr-one-to-one?                    boolean
|           |  +--ro lsp-config-frr-one-to-many?                   boolean
|           |  +--ro lsp-config-frr-priority-configured?           boolean
|           |  +--ro lsp-config-frr-setup-priority?                uint8
|           |  +--ro lsp-config-frr-holding-priority?              uint8
|           |  +--ro lsp-config-frr-hop-limit-configured?          boolean
|           |  +--ro lsp-config-frr-hop-limit?                     uint8
|           |  +--ro lsp-config-frr-bandwidth-configured?          boolean
|           |  +--ro lsp-config-frr-bandwidth?                     uint32
|           |  +--ro lsp-config-frr-admin-group-configured?        boolean
|           |  +--ro lsp-config-frr-admin-groups
|           |  |  +--ro lsp-admin-group
|           |  |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |  |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |  |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |  |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |  +--ro lsp-config-exclude-interface-configured?     boolean
|           |  +--ro lsp-config-exclude-interfaces [interface-name]
|           |     +--ro interface-name    string
|           +--ro show-mpls-lsp-instances-info
|           |  +--ro lsp-instances [lsp-instance-number]
|           |     +--ro lsp-instance-number                              uint32
|           |     +--ro lsp-current-instance?                            boolean
|           |     +--ro lsp-new-instance?                                boolean
|           |     +--ro lsp-old-instance?                                boolean
|           |     +--ro lsp-is-primary?                                  boolean
|           |     +--ro lsp-is-current-secondary?                        boolean
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|           |     +--ro lsp-is-selected-secondary?                          boolean
|           |     +--ro lsp-config-path-configured?                         boolean
|           |     +--ro lsp-config-path?                                    string
|           |     +--ro lsp-config-reoptimize-timer-configured?             boolean
|           |     +--ro lsp-config-reoptimize-timer?                        uint32
|           |     +--ro lsp-config-tspec-mtu-configured?                    boolean
|           |     +--ro lsp-config-tspec-mtu?                               uint32
|           |     +--ro lsp-config-cos-configured?                          boolean
|           |     +--ro lsp-config-cos?                                     uint8
|           |     +--ro lsp-config-mtu-configured?                          boolean
|           |     +--ro lsp-config-mtu?                                     uint32
|           |     +--ro lsp-config-tie-breaking-configured?                 boolean
|           |     +--ro lsp-config-tie-break-random?                        boolean
|           |     +--ro lsp-config-tie-break-least-fill?                    boolean
|           |     +--ro lsp-config-tie-break-most-fill?                     boolean
|           |     +--ro lsp-config-cspf-disabled?                           boolean
|           |     +--ro lsp-config-hot-standby?                             boolean
|           |     +--ro lsp-config-pinned?                                  boolean
|           |     +--ro lsp-config-persistenct?                             boolean
|           |     +--ro lsp-config-frr-global-revertive?                    boolean
|           |     +--ro lsp-config-frr-hold-time?                           boolean
|           |     +--ro lsp-config-soft-prempt?                             boolean
|           |     +--ro lsp-config-exclude-interface-change?                boolean
|           |     +--ro lsp-config-prority-configured?                      boolean
|           |     +--ro lsp-config-setup-prority?                           uint8
|           |     +--ro lsp-config-holding-prority?                         uint8
|           |     +--ro lsp-config-hop-limit-configured?                    boolean
|           |     +--ro lsp-config-hop-limit?                               uint8
|           |     +--ro lsp-config-traffic-eng-rate-configured?             boolean
|           |     +--ro lsp-config-traffic-eng-mean-rate?                   uint32
|           |     +--ro lsp-config-traffic-eng-max-rate?                    uint32
|           |     +--ro lsp-config-traffic-eng-max-burst?                   uint32
|           |     +--ro lsp-config-admin-group-configured?                  boolean
|           |     +--ro lsp-config-admin-groups
|           |     |  +--ro lsp-admin-group
|           |     |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |     |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |     |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |     |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |     +--ro lsp-path-computed-by-cspf?                          boolean
|           |     +--ro lsp-path-computed-by-interface-constraint?          boolean
|           |     +--ro lsp-cspf-computation-mode-default?                   boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-metric?        boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-liberal?       boolean
|           |     +--ro lsp-cspf-group-computation-mode-default?            boolean
|           |     +--ro lsp-cspf-group-computation-mode-add-penalty?        boolean
|           |     +--ro lsp-cspf-group-computation-mode-exclude-groups?     boolean
|           |     +--ro lsp-cspf-group-computation-mode-high-cost?          boolean
|           |     +--ro lsp-cspf-path-cost?                                 uint32
|           |     +--ro lsp-cspf-path-area?                                 inet:ipv4-address
|           |     +--ro lsp-cspf-computation-error?                         uint32
|           |     +--ro lsp-cspf-path-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                    inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                boolean
|           |     |        +--ro lsp-hop-loose-hop?                 boolean
|           |     |        +--ro lsp-hop-is-router-id?              boolean
|           |     |        +--ro lsp-hop-has-protection?            boolean
|           |     |        +--ro lsp-hop-has-node-protection?       boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?  boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?     boolean
|           |     |        +--ro lsp-hop-avoid-node?                boolean
|           |     |        +--ro lsp-hop-avoid-local?               boolean
|           |     |        +--ro lsp-hop-avoid-remote?              boolean
|           |     +--ro lsp-cspf-exclude-hops-present?                    boolean
|           |     +--ro lsp-cspf-exclude-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                    inet:ipv4-address
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|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-rsvp-session-present?                         boolean
|           |     +--ro lsp-rsvp-session-state-up?                        boolean
|           |     +--ro lsp-rsvp-session-state?                           uint8
|           |     +--ro lsp-rsvp-session-path-error-code?                 uint32
|           |     +--ro lsp-rsvp-session-path-error-value?                uint32
|           |     +--ro lsp-rsvp-session-path-error-node-address?         inet:ipv4-address
|           |     +--ro lsp-rsvp-session-rro-hops-present?                boolean
|           |     +--ro lsp-rsvp-session-rro-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                  inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?              boolean
|           |     |        +--ro lsp-hop-loose-hop?               boolean
|           |     |        +--ro lsp-hop-is-router-id?            boolean
|           |     |        +--ro lsp-hop-has-protection?          boolean
|           |     |        +--ro lsp-hop-has-node-protection?     boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection? boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?   boolean
|           |     |        +--ro lsp-hop-avoid-node?              boolean
|           |     |        +--ro lsp-hop-avoid-local?             boolean
|           |     |        +--ro lsp-hop-avoid-remote?            boolean
|           |     +--ro lsp-maximum-bandwidth?                            uint32
|           |     +--ro lsp-unreserved-priority-0-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-1-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-2-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-3-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-4-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-5-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-6-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-7-bandwidth?              uint32
|           +--ro show-mpls-lsp-forwarding-info
|           |  +--ro lsp-forwarding-primary-active?     boolean
|           |  +--ro lsp-forwarding-primary-up?         boolean
|           |  +--ro lsp-forwarding-secondary-active?   boolean
|           |  +--ro lsp-forwarding-secondary-up?       boolean
|           |  +--ro lsp-forwarding-frr-active?         boolean
|           |  +--ro lsp-forwarding-frr-up?             boolean
|           |  +--ro lsp-forwarding-out-port-id?        uint32
|           |  +--ro lsp-forwarding-out-port-name?      string
|           |  +--ro lsp-forwarding-out-label?          uint32
|           +--ro show-mpls-lsp-sec-path-info
|           |  +--ro sec-path [lsp-sec-path-path-name]
|           |     +--ro lsp-sec-path-path-name                                  string
|           |     +--ro lsp-sec-path-state?                                     uint8
|           |     +--ro lsp-sec-path-state-up?                                  boolean
|           |     +--ro lsp-sec-path-active?                                    boolean
|           |     +--ro lsp-sec-path-is-current-secondary?                      boolean
|           |     +--ro lsp-sec-path-is-selected-secondary?                     boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer-configured?        boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer?                   uint32
|           |     +--ro lsp-sec-path-config-tspec-mtu-configured?               boolean
|           |     +--ro lsp-sec-path-sec-path-config-tspec-mtu?                 uint32
|           |     +--ro lsp-sec-path-config-cos-configured?                     boolean
|           |     +--ro lsp-sec-path-config-cos?                                uint8
|           |     +--ro lsp-sec-path-config-mtu-configured?                     boolean
|           |     +--ro lsp-sec-path-config-mtu?                                uint32
|           |     +--ro lsp-sec-path-config-tie-breaking-configured?            boolean
|           |     +--ro lsp-sec-path-config-tie-break-random?                   boolean
|           |     +--ro lsp-sec-path-config-tie-break-least-fill?               boolean
|           |     +--ro lsp-sec-path-config-tie-break-most-fill?                boolean
|           |     +--ro lsp-sec-path-config-cspf-disabled?                      boolean
|           |     +--ro lsp-sec-path-config-hot-standby?                        boolean
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|           |     +--ro lsp-sec-path-config-pinned?                        boolean
|           |     +--ro lsp-sec-path-config-persistent?                    boolean
|           |     +--ro lsp-sec-path-config-soft-prempt?                   boolean
|           |     +--ro lsp-sec-path-config-priority-configured?           boolean
|           |     +--ro lsp-sec-path-config-setup-prority?                 uint8
|           |     +--ro lsp-sec-path-config-holding-prority?               uint8
|           |     +--ro lsp-sec-path-config-hop-limit-configured?          boolean
|           |     +--ro lsp-sec-path-config-hop-limit?                     uint8
|           |     +--ro lsp-sec-path-config-traffic-eng-rate-configured?   boolean
|           |     +--ro lsp-sec-path-config-traffic-eng-mean-rate?         uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-rate?          uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-burst?         uint32
|           |     +--ro lsp-sec-path-config-admin-group-configured?        boolean
|           |     +--ro lsp-sec-path-config-admin-groups
|           |        +--ro lsp-admin-group
|           |           +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |           |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |           |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |              +--ro lsp-admin-group-include-all-group-id    uint32
|           +--ro show-mpls-lsp-frr-info
|           |  +--ro lsp-frr-operational-status?                       boolean
|           |  +--ro lsp-frr-operational-status-active?                boolean
|           |  +--ro lsp-frr-down-reason?                              string
|           |  +--ro lsp-frr-computation-mode-default?                 boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-metric?       boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-liberal?      boolean
|           |  +--ro lsp-frr-group-computation-mode-default?           boolean
|           |  +--ro lsp-frr-group-computation-mode-add-penalty?       boolean
|           |  +--ro lsp-frr-group-computation-mode-exclude-groups?    boolean
|           |  +--ro lsp-frr-group-computation-mode-high-cost?         boolean
|           |  +--ro lsp-frr-out-port-id?                              uint32
|           |  +--ro lsp-frr-out-port-name?                            string
|           |  +--ro lsp-frr-out-label?                                uint32
|           |  +--ro lsp-frr-path-cost?                                uint32
|           |  +--ro lsp-frr-bypass-name?                              string
|           |  +--ro lsp-frr-forwarding-protected-up?                  boolean
|           |  +--ro lsp-frr-secondary-swithover-time?                 uint32
|           |  +--ro lsp-frr-hold-time?                                uint32
|           +--ro show-mpls-lsp-backup-info
|           |  +--ro lsp-backups [lsp-backup-name]
|           |     +--ro lsp-backup-from-address?   inet:ipv4-address
|           |     +--ro lsp-backup-to-address?     inet:ipv4-address
|           |     +--ro lsp-backup-name            string
|           |     +--ro lsp-backup-type-ingress?   boolean
|           |     +--ro lsp-backup-type-transit?   boolean
|           |     +--ro lsp-backup-is-active?      boolean
|           +--ro show-mpls-lsp-history-info
|              +--ro lsp-history?   string
+---x show-mpls-lsp-name-debug
|  +--ro input
|  |  +--ro show-lsp-input-info
|  |     +--ro lsp?                                string
|  |     +--ro lsp-wide?                           boolean
|  |     +--ro lsp-detail?                         boolean
|  |     +--ro lsp-extensive?                      boolean
|  |     +--ro lsp-debug?                          boolean
|  |     +--ro lsp-name?                           string
|  |     +--ro lsp-name-extensive?                 boolean
|  |     +--ro lsp-name-debug?                     boolean
|  |     +--ro bypass-lsp?                         string
|  |     +--ro bypass-lsp-wide?                    boolean
|  |     +--ro bypass-lsp-detail?                  boolean
|  |     +--ro bypass-lsp-extensive?               boolean
|  |     +--ro bypass-lsp-debug?                   boolean
|  |     +--ro bypass-lsp-name?                    string
|  |     +--ro bypass-lsp-name-extensive?          boolean
|  |     +--ro bypass-lsp-name-debug?              boolean
|  |     +--ro bypass-lsp-static?                  string
|  |     +--ro bypass-lsp-static-wide?             boolean
|  |     +--ro bypass-lsp-static-detail?           boolean
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|  |     +--ro bypass-lsp-static-extensive?         boolean
|  |     +--ro bypass-lsp-static-debug?             boolean
|  |     +--ro bypass-lsp-static-name?              string
|  |     +--ro bypass-lsp-static-name-extensive?    boolean
|  |     +--ro bypass-lsp-static-name-debug?        boolean
|  |     +--ro bypass-lsp-dynamic?                  string
|  |     +--ro bypass-lsp-dynamic-wide?             boolean
|  |     +--ro bypass-lsp-dynamic-detail?           boolean
|  |     +--ro bypass-lsp-dynamic-extensive?        boolean
|  |     +--ro bypass-lsp-dynamic-debug?            boolean
|  |     +--ro bypass-lsp-dynamic-name?             string
|  |     +--ro bypass-lsp-dynamic-name-extensive?   boolean
|  |     +--ro bypass-lsp-dynamic-name-debug?       boolean
|  |     +--ro lsp-input-lsp-name?                  string
|  |     +--ro lsp-input-bypass?                    boolean
|  |     +--ro lsp-input-dynamic?                   boolean
|  |     +--ro lsp-input-brief?                     boolean
|  |     +--ro lsp-input-wide?                      boolean
|  |     +--ro lsp-input-detail?                    boolean
|  |     +--ro lsp-input-extensive?                 boolean
|  |     +--ro lsp-input-debug?                     boolean
|  |     +--ro lsp-input-one?                       boolean
|  |     +--ro lsp-input-all?                       boolean
|  |     +--ro lsp-input-more?                      boolean
|  +--ro output
|     +--ro lsp
|        +--ro show-mpls-lsp-extensive-info
|           +--ro show-mpls-lsp-basic-info
|           |  +--ro lsp-name?                string
|           |  +--ro lsp-type-bypass?         boolean
|           |  +--ro lsp-type-dynamic?        boolean
|           |  +--ro lsp-from-address?        inet:ipv4-address
|           |  +--ro lsp-to-address?          inet:ipv4-address
|           |  +--ro lsp-tunnel-id?           uint32
|           |  +--ro lsp-lsp-id?              uint32
|           |  +--ro lsp-admin-up?            boolean
|           |  +--ro lsp-operational-up?      boolean
|           |  +--ro lsp-is-active?           boolean
|           |  +--ro lsp-path-name?           string
|           |  +--ro lsp-out-label?           uint32
|           |  +--ro lsp-out-interface-name?  string
|           +--ro show-mpls-lsp-common-info
|           |  +--ro lsp-config-admin-up?                          boolean
|           |  +--ro lsp-config-from-address?                      inet:ipv4-address
|           |  +--ro lsp-config-to-address?                        inet:ipv4-address
|           |  +--ro lsp-config-type-bypass?                       boolean
|           |  +--ro lsp-config-type-dynamic?                      boolean
|           |  +--ro lsp-config-adaptive?                          boolean
|           |  +--ro lsp-config-ospf-area?                         inet:ipv4-address
|           |  +--ro lsp-config-isis-level?                        uint32
|           |  +--ro lsp-config-number-of-retries-configured?      boolean
|           |  +--ro lsp-config-number-of-retries?                 uint32
|           |  +--ro lsp-config-path-select-mode-configured?       boolean
|           |  +--ro lsp-config-path-select-mode-manual?           boolean
|           |  +--ro lsp-config-path-select-mode-unconditional?    boolean
|           |  +--ro lsp-config-path-select-primary?               boolean
|           |  +--ro lsp-config-path-select-secondary?             boolean
|           |  +--ro lsp-config-shortcut-ospf?                     boolean
|           |  +--ro lsp-config-shortcut-area-configured?          boolean
|           |  +--ro lsp-config-shortcut-area?                     inet:ipv4-address
|           |  +--ro lsp-config-notify-ospf?                       boolean
|           |  +--ro lsp-config-shortcut-isis?                     boolean
|           |  +--ro lsp-config-shortcut-isis-level-configured?    boolean
|           |  +--ro lsp-config-isis-shortcut-level?               uint8
|           |  +--ro lsp-config-notify-isis?                       boolean
|           |  +--ro lsp-config-metric-configured?                 boolean
|           |  +--ro lsp-config-metric?                            uint32
|           |  +--ro lsp-config-ospf-ignore-metric?                boolean
|           |  +--ro lsp-config-ospf-relative-metric?              uint32
|           |  +--ro lsp-config-ospf-announce-metric?              uint32
|           |  +--ro lsp-config-ospf-aaf?                          uint32
|           |  +--ro lsp-config-isis-ignore-metric?                boolean
```

```
|           |  +--ro lsp-config-isis-relative-metric?            uint32
|           |  +--ro lsp-config-isis-announce-configured?        boolean
|           |  +--ro lsp-config-isis-announce-metric?            uint32
|           |  +--ro lsp-config-frr-configured?                  boolean
|           |  +--ro lsp-config-frr-one-to-one?                  boolean
|           |  +--ro lsp-config-frr-one-to-many?                 boolean
|           |  +--ro lsp-config-frr-priority-configured?         boolean
|           |  +--ro lsp-config-frr-setup-priority?              uint8
|           |  +--ro lsp-config-frr-holding-priority?            uint8
|           |  +--ro lsp-config-frr-hop-limit-configured?        boolean
|           |  +--ro lsp-config-frr-hop-limit?                   uint8
|           |  +--ro lsp-config-frr-bandwidth-configured?        boolean
|           |  +--ro lsp-config-frr-bandwidth?                   uint32
|           |  +--ro lsp-config-frr-admin-group-configured?      boolean
|           |  +--ro lsp-config-frr-admin-groups
|           |  |  +--ro lsp-admin-group
|           |  |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |  |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |  |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |  |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |  +--ro lsp-config-exclude-interface-configured?    boolean
|           |  +--ro lsp-config-exclude-interfaces [interface-name]
|           |     +--ro interface-name    string
|           +--ro show-mpls-lsp-instances-info
|           |  +--ro lsp-instances [lsp-instance-number]
|           |     +--ro lsp-instance-number                                uint32
|           |     +--ro lsp-current-instance?                              boolean
|           |     +--ro lsp-new-instance?                                  boolean
|           |     +--ro lsp-old-instance?                                  boolean
|           |     +--ro lsp-is-primary?                                    boolean
|           |     +--ro lsp-is-current-secondary?                          boolean
|           |     +--ro lsp-is-selected-secondary?                         boolean
|           |     +--ro lsp-config-path-configured?                        boolean
|           |     +--ro lsp-config-path?                                   string
|           |     +--ro lsp-config-reoptimize-timer-configured?            boolean
|           |     +--ro lsp-config-reoptimize-timer?                       uint32
|           |     +--ro lsp-config-tspec-mtu-configured?                   boolean
|           |     +--ro lsp-config-tspec-mtu?                              uint32
|           |     +--ro lsp-config-cos-configured?                         boolean
|           |     +--ro lsp-config-cos?                                    uint8
|           |     +--ro lsp-config-mtu-configured?                         boolean
|           |     +--ro lsp-config-mtu?                                    uint32
|           |     +--ro lsp-config-tie-breaking-configured?                boolean
|           |     +--ro lsp-config-tie-break-random?                       boolean
|           |     +--ro lsp-config-tie-break-least-fill?                   boolean
|           |     +--ro lsp-config-tie-break-most-fill?                    boolean
|           |     +--ro lsp-config-cspf-disabled?                          boolean
|           |     +--ro lsp-config-hot-standby?                            boolean
|           |     +--ro lsp-config-pinned?                                 boolean
|           |     +--ro lsp-config-persistenct?                            boolean
|           |     +--ro lsp-config-frr-global-revertive?                   boolean
|           |     +--ro lsp-config-frr-hold-time?                          boolean
|           |     +--ro lsp-config-soft-prempt?                            boolean
|           |     +--ro lsp-config-exclude-interface-change?               boolean
|           |     +--ro lsp-config-prority-configured?                     boolean
|           |     +--ro lsp-config-setup-prority?                          uint8
|           |     +--ro lsp-config-holding-prority?                        uint8
|           |     +--ro lsp-config-hop-limit-configured?                   boolean
|           |     +--ro lsp-config-hop-limit?                              uint8
|           |     +--ro lsp-config-traffic-eng-rate-configured?            boolean
|           |     +--ro lsp-config-traffic-eng-mean-rate?                  uint32
|           |     +--ro lsp-config-traffic-eng-max-rate?                   uint32
|           |     +--ro lsp-config-traffic-eng-max-burst?                  uint32
|           |     +--ro lsp-config-admin-group-configured?                 boolean
|           |     +--ro lsp-config-admin-groups
|           |     |  +--ro lsp-admin-group
|           |     |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |     |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |     |     |  +--ro lsp-admin-group-include-any-group-id    uint32
```

```
|           |     |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |     |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |     +--ro lsp-path-computed-by-cspf?                        boolean
|           |     +--ro lsp-path-computed-by-interface-constraint?        boolean
|           |     +--ro lsp-cspf-computation-mode-default?                 boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-metric?       boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-liberal?      boolean
|           |     +--ro lsp-cspf-group-computation-mode-default?           boolean
|           |     +--ro lsp-cspf-group-computation-mode-add-penalty?       boolean
|           |     +--ro lsp-cspf-group-computation-mode-exclude-groups?    boolean
|           |     +--ro lsp-cspf-group-computation-mode-high-cost?         boolean
|           |     +--ro lsp-cspf-path-cost?                               uint32
|           |     +--ro lsp-cspf-path-area?                               inet:ipv4-address
|           |     +--ro lsp-cspf-computation-error?                       uint32
|           |     +--ro lsp-cspf-path-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-cspf-exclude-hops-present?                    boolean
|           |     +--ro lsp-cspf-exclude-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-rsvp-session-present?                         boolean
|           |     +--ro lsp-rsvp-session-state-up?                        boolean
|           |     +--ro lsp-rsvp-session-state?                           uint8
|           |     +--ro lsp-rsvp-session-path-error-code?                 uint32
|           |     +--ro lsp-rsvp-session-path-error-value?                uint32
|           |     +--ro lsp-rsvp-session-path-error-node-address?         inet:ipv4-address
|           |     +--ro lsp-rsvp-session-rro-hops-present?                boolean
|           |     +--ro lsp-rsvp-session-rro-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-maximum-bandwidth?                            uint32
|           |     +--ro lsp-unreserved-priority-0-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-1-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-2-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-3-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-4-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-5-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-6-bandwidth?              uint32
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|           |     +--ro lsp-unreserved-priority-7-bandwidth?              uint32
|           +--ro show-mpls-lsp-forwarding-info
|           |  +--ro lsp-forwarding-primary-active?     boolean
|           |  +--ro lsp-forwarding-primary-up?         boolean
|           |  +--ro lsp-forwarding-secondary-active?   boolean
|           |  +--ro lsp-forwarding-secondary-up?       boolean
|           |  +--ro lsp-forwarding-frr-active?         boolean
|           |  +--ro lsp-forwarding-frr-up?             boolean
|           |  +--ro lsp-forwarding-out-port-id?        uint32
|           |  +--ro lsp-forwarding-out-port-name?      string
|           |  +--ro lsp-forwarding-out-label?          uint32
|           +--ro show-mpls-lsp-sec-path-info
|           |  +--ro sec-path [lsp-sec-path-path-name]
|           |     +--ro lsp-sec-path-path-name                               string
|           |     +--ro lsp-sec-path-state?                                  uint8
|           |     +--ro lsp-sec-path-state-up?                               boolean
|           |     +--ro lsp-sec-path-active?                                 boolean
|           |     +--ro lsp-sec-path-is-current-secondary?                   boolean
|           |     +--ro lsp-sec-path-is-selected-secondary?                  boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer-configured?   boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer?               uint32
|           |     +--ro lsp-sec-path-config-tspec-mtu-configured?           boolean
|           |     +--ro lsp-sec-path-sec-path-config-tspec-mtu?             uint32
|           |     +--ro lsp-sec-path-config-cos-configured?                 boolean
|           |     +--ro lsp-sec-path-config-cos?                            uint8
|           |     +--ro lsp-sec-path-config-mtu-configured?                 boolean
|           |     +--ro lsp-sec-path-config-mtu?                            uint32
|           |     +--ro lsp-sec-path-config-tie-breaking-configured?        boolean
|           |     +--ro lsp-sec-path-config-tie-break-random?               boolean
|           |     +--ro lsp-sec-path-config-tie-break-least-fill?           boolean
|           |     +--ro lsp-sec-path-config-tie-break-most-fill?            boolean
|           |     +--ro lsp-sec-path-config-cspf-disabled?                  boolean
|           |     +--ro lsp-sec-path-config-hot-standby?                    boolean
|           |     +--ro lsp-sec-path-config-pinned?                         boolean
|           |     +--ro lsp-sec-path-config-persistent?                     boolean
|           |     +--ro lsp-sec-path-config-soft-prempt?                    boolean
|           |     +--ro lsp-sec-path-config-priority-configured?            boolean
|           |     +--ro lsp-sec-path-config-setup-prority?                  uint8
|           |     +--ro lsp-sec-path-config-holding-prority?                uint8
|           |     +--ro lsp-sec-path-config-hop-limit-configured?           boolean
|           |     +--ro lsp-sec-path-config-hop-limit?                      uint8
|           |     +--ro lsp-sec-path-config-traffic-eng-rate-configured?    boolean
|           |     +--ro lsp-sec-path-config-traffic-eng-mean-rate?          uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-rate?           uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-burst?          uint32
|           |     +--ro lsp-sec-path-config-admin-group-configured?         boolean
|           |     +--ro lsp-sec-path-config-admin-groups
|           |        +--ro lsp-admin-group
|           |           +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |           |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |           |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |              +--ro lsp-admin-group-include-all-group-id    uint32
|           +--ro show-mpls-lsp-frr-info
|           |  +--ro lsp-frr-operational-status?                      boolean
|           |  +--ro lsp-frr-operational-status-active?               boolean
|           |  +--ro lsp-frr-down-reason?                             string
|           |  +--ro lsp-frr-computation-mode-default?                boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-metric?      boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-liberal?     boolean
|           |  +--ro lsp-frr-group-computation-mode-default?          boolean
|           |  +--ro lsp-frr-group-computation-mode-add-penalty?      boolean
|           |  +--ro lsp-frr-group-computation-mode-exclude-groups?   boolean
|           |  +--ro lsp-frr-group-computation-mode-high-cost?        boolean
|           |  +--ro lsp-frr-out-port-id?                             uint32
|           |  +--ro lsp-frr-out-port-name?                           string
|           |  +--ro lsp-frr-out-label?                               uint32
|           |  +--ro lsp-frr-path-cost?                               uint32
|           |  +--ro lsp-frr-bypass-name?                             string
|           |  +--ro lsp-frr-forwarding-protected-up?                 boolean
|           |  +--ro lsp-frr-secondary-swithover-time?                uint32
```

```
|           |  +--ro lsp-frr-hold-time?                                uint32
|           +--ro show-mpls-lsp-backup-info
|           |  +--ro lsp-backups [lsp-backup-name]
|           |     +--ro lsp-backup-from-address?   inet:ipv4-address
|           |     +--ro lsp-backup-to-address?     inet:ipv4-address
|           |     +--ro lsp-backup-name            string
|           |     +--ro lsp-backup-type-ingress?   boolean
|           |     +--ro lsp-backup-type-transit?   boolean
|           |     +--ro lsp-backup-is-active?      boolean
|           +--ro show-mpls-lsp-history-info
|              +--ro lsp-history?   string
+---x show-mpls-bypass-lsp
|  +--ro output
|     +--ro bypass-lsp
|        +--ro show-mpls-lsp-basic-info
|           +--ro lsp-name?                 string
|           +--ro lsp-type-bypass?          boolean
|           +--ro lsp-type-dynamic?         boolean
|           +--ro lsp-from-address?         inet:ipv4-address
|           +--ro lsp-to-address?           inet:ipv4-address
|           +--ro lsp-tunnel-id?            uint32
|           +--ro lsp-lsp-id?               uint32
|           +--ro lsp-admin-up?             boolean
|           +--ro lsp-operational-up?       boolean
|           +--ro lsp-is-active?            boolean
|           +--ro lsp-path-name?            string
|           +--ro lsp-out-label?            uint32
|           +--ro lsp-out-interface-name?   string
+---x show-mpls-bypass-lsp-detail
|  +--ro output
|     +--ro bypass-lsp
|        +--ro show-mpls-lsp-detail-info
|           +--ro show-mpls-lsp-basic-info
|           |  +--ro lsp-name?                 string
|           |  +--ro lsp-type-bypass?          boolean
|           |  +--ro lsp-type-dynamic?         boolean
|           |  +--ro lsp-from-address?         inet:ipv4-address
|           |  +--ro lsp-to-address?           inet:ipv4-address
|           |  +--ro lsp-tunnel-id?            uint32
|           |  +--ro lsp-lsp-id?               uint32
|           |  +--ro lsp-admin-up?             boolean
|           |  +--ro lsp-operational-up?       boolean
|           |  +--ro lsp-is-active?            boolean
|           |  +--ro lsp-path-name?            string
|           |  +--ro lsp-out-label?            uint32
|           |  +--ro lsp-out-interface-name?   string
|           +--ro show-mpls-lsp-common-info
|           |  +--ro lsp-config-admin-up?                          boolean
|           |  +--ro lsp-config-from-address?                      inet:ipv4-address
|           |  +--ro lsp-config-to-address?                        inet:ipv4-address
|           |  +--ro lsp-config-type-bypass?                       boolean
|           |  +--ro lsp-config-type-dynamic?                      boolean
|           |  +--ro lsp-config-adaptive?                          boolean
|           |  +--ro lsp-config-ospf-area?                         inet:ipv4-address
|           |  +--ro lsp-config-isis-level?                        uint32
|           |  +--ro lsp-config-number-of-retries-configured?      boolean
|           |  +--ro lsp-config-number-of-retries?                 uint32
|           |  +--ro lsp-config-path-select-mode-configured?       boolean
|           |  +--ro lsp-config-path-select-mode-manual?           boolean
|           |  +--ro lsp-config-path-select-mode-unconditional?    boolean
|           |  +--ro lsp-config-path-select-primary?               boolean
|           |  +--ro lsp-config-path-select-secondary?             boolean
|           |  +--ro lsp-config-shortcut-ospf?                     boolean
|           |  +--ro lsp-config-shortcut-area-configured?          boolean
|           |  +--ro lsp-config-shortcut-area?                     inet:ipv4-address
|           |  +--ro lsp-config-notify-ospf?                       boolean
|           |  +--ro lsp-config-shortcut-isis?                     boolean
|           |  +--ro lsp-config-shortcut-isis-level-configured?    boolean
|           |  +--ro lsp-config-isis-shortcut-level?               uint8
|           |  +--ro lsp-config-notify-isis?                       boolean
|           |  +--ro lsp-config-metric-configured?                 boolean
|           |  +--ro lsp-config-metric?                            uint32
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|           |  +--ro lsp-config-ospf-ignore-metric?              boolean
|           |  +--ro lsp-config-ospf-relative-metric?            uint32
|           |  +--ro lsp-config-ospf-announce-metric?            uint32
|           |  +--ro lsp-config-ospf-aaf?                        uint32
|           |  +--ro lsp-config-isis-ignore-metric?              boolean
|           |  +--ro lsp-config-isis-relative-metric?            uint32
|           |  +--ro lsp-config-isis-announce-configured?        boolean
|           |  +--ro lsp-config-isis-announce-metric?            uint32
|           |  +--ro lsp-config-frr-configured?                  boolean
|           |  +--ro lsp-config-frr-one-to-one?                  boolean
|           |  +--ro lsp-config-frr-one-to-many?                 boolean
|           |  +--ro lsp-config-frr-priority-configured?         boolean
|           |  +--ro lsp-config-frr-setup-priority?              uint8
|           |  +--ro lsp-config-frr-holding-priority?            uint8
|           |  +--ro lsp-config-frr-hop-limit-configured?        boolean
|           |  +--ro lsp-config-frr-hop-limit?                   uint8
|           |  +--ro lsp-config-frr-bandwidth-configured?        boolean
|           |  +--ro lsp-config-frr-bandwidth?                   uint32
|           |  +--ro lsp-config-frr-admin-group-configured?      boolean
|           |  +--ro lsp-config-frr-admin-groups
|           |  |  +--ro lsp-admin-group
|           |  |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |  |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |  |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |  |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |  +--ro lsp-config-exclude-interface-configured?    boolean
|           |  +--ro lsp-config-exclude-interfaces [interface-name]
|           |     +--ro interface-name    string
|           +--ro show-mpls-lsp-instances-info
|           |  +--ro lsp-instances [lsp-instance-number]
|           |     +--ro lsp-instance-number                                uint32
|           |     +--ro lsp-current-instance?                              boolean
|           |     +--ro lsp-new-instance?                                  boolean
|           |     +--ro lsp-old-instance?                                  boolean
|           |     +--ro lsp-is-primary?                                    boolean
|           |     +--ro lsp-is-current-secondary?                          boolean
|           |     +--ro lsp-is-selected-secondary?                         boolean
|           |     +--ro lsp-config-path-configured?                        boolean
|           |     +--ro lsp-config-path?                                   string
|           |     +--ro lsp-config-reoptimize-timer-configured?            boolean
|           |     +--ro lsp-config-reoptimize-timer?                       uint32
|           |     +--ro lsp-config-tspec-mtu-configured?                   boolean
|           |     +--ro lsp-config-tspec-mtu?                              uint32
|           |     +--ro lsp-config-cos-configured?                         boolean
|           |     +--ro lsp-config-cos?                                    uint8
|           |     +--ro lsp-config-mtu-configured?                         boolean
|           |     +--ro lsp-config-mtu?                                    uint32
|           |     +--ro lsp-config-tie-breaking-configured?                boolean
|           |     +--ro lsp-config-tie-break-random?                       boolean
|           |     +--ro lsp-config-tie-break-least-fill?                   boolean
|           |     +--ro lsp-config-tie-break-most-fill?                    boolean
|           |     +--ro lsp-config-cspf-disabled?                          boolean
|           |     +--ro lsp-config-hot-standby?                            boolean
|           |     +--ro lsp-config-pinned?                                 boolean
|           |     +--ro lsp-config-persistenct?                            boolean
|           |     +--ro lsp-config-frr-global-revertive?                   boolean
|           |     +--ro lsp-config-frr-hold-time?                          boolean
|           |     +--ro lsp-config-soft-prempt?                            boolean
|           |     +--ro lsp-config-exclude-interface-change?               boolean
|           |     +--ro lsp-config-prority-configured?                     boolean
|           |     +--ro lsp-config-setup-prority?                          uint8
|           |     +--ro lsp-config-holding-prority?                        uint8
|           |     +--ro lsp-config-hop-limit-configured?                   boolean
|           |     +--ro lsp-config-hop-limit?                              uint8
|           |     +--ro lsp-config-traffic-eng-rate-configured?            boolean
|           |     +--ro lsp-config-traffic-eng-mean-rate?                  uint32
|           |     +--ro lsp-config-traffic-eng-max-rate?                   uint32
|           |     +--ro lsp-config-traffic-eng-max-burst?                  uint32
|           |     +--ro lsp-config-admin-group-configured?                 boolean
|           |     +--ro lsp-config-admin-groups
```

```
|           |     |  +--ro lsp-admin-group
|           |     |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |     |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |     |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |     |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |     +--ro lsp-path-computed-by-cspf?                        boolean
|           |     +--ro lsp-path-computed-by-interface-constraint?        boolean
|           |     +--ro lsp-cspf-computation-mode-default?                 boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-metric?       boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-liberal?      boolean
|           |     +--ro lsp-cspf-group-computation-mode-default?           boolean
|           |     +--ro lsp-cspf-group-computation-mode-add-penalty?       boolean
|           |     +--ro lsp-cspf-group-computation-mode-exclude-groups?    boolean
|           |     +--ro lsp-cspf-group-computation-mode-high-cost?         boolean
|           |     +--ro lsp-cspf-path-cost?                               uint32
|           |     +--ro lsp-cspf-path-area?                               inet:ipv4-address
|           |     +--ro lsp-cspf-computation-error?                       uint32
|           |     +--ro lsp-cspf-path-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-cspf-exclude-hops-present?                    boolean
|           |     +--ro lsp-cspf-exclude-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-rsvp-session-present?                         boolean
|           |     +--ro lsp-rsvp-session-state-up?                        boolean
|           |     +--ro lsp-rsvp-session-state?                           uint8
|           |     +--ro lsp-rsvp-session-path-error-code?                 uint32
|           |     +--ro lsp-rsvp-session-path-error-value?                uint32
|           |     +--ro lsp-rsvp-session-path-error-node-address?         inet:ipv4-address
|           |     +--ro lsp-rsvp-session-rro-hops-present?                boolean
|           |     +--ro lsp-rsvp-session-rro-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-maximum-bandwidth?                            uint32
|           |     +--ro lsp-unreserved-priority-0-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-1-bandwidth?              uint32
```

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|           |     +--ro lsp-unreserved-priority-2-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-3-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-4-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-5-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-6-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-7-bandwidth?              uint32
|           +--ro show-mpls-lsp-forwarding-info
|           |  +--ro lsp-forwarding-primary-active?     boolean
|           |  +--ro lsp-forwarding-primary-up?         boolean
|           |  +--ro lsp-forwarding-secondary-active?   boolean
|           |  +--ro lsp-forwarding-secondary-up?       boolean
|           |  +--ro lsp-forwarding-frr-active?         boolean
|           |  +--ro lsp-forwarding-frr-up?             boolean
|           |  +--ro lsp-forwarding-out-port-id?        uint32
|           |  +--ro lsp-forwarding-out-port-name?      string
|           |  +--ro lsp-forwarding-out-label?          uint32
|           +--ro show-mpls-lsp-sec-path-info
|           |  +--ro sec-path [lsp-sec-path-path-name]
|           |     +--ro lsp-sec-path-path-name                                string
|           |     +--ro lsp-sec-path-state?                                   uint8
|           |     +--ro lsp-sec-path-state-up?                                boolean
|           |     +--ro lsp-sec-path-active?                                  boolean
|           |     +--ro lsp-sec-path-is-current-secondary?                    boolean
|           |     +--ro lsp-sec-path-is-selected-secondary?                   boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer-configured?      boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer?                 uint32
|           |     +--ro lsp-sec-path-config-tspec-mtu-configured?             boolean
|           |     +--ro lsp-sec-path-sec-path-config-tspec-mtu?               uint32
|           |     +--ro lsp-sec-path-config-cos-configured?                   boolean
|           |     +--ro lsp-sec-path-config-cos?                              uint8
|           |     +--ro lsp-sec-path-config-mtu-configured?                   boolean
|           |     +--ro lsp-sec-path-config-mtu?                              uint32
|           |     +--ro lsp-sec-path-config-tie-breaking-configured?          boolean
|           |     +--ro lsp-sec-path-config-tie-break-random?                 boolean
|           |     +--ro lsp-sec-path-config-tie-break-least-fill?             boolean
|           |     +--ro lsp-sec-path-config-tie-break-most-fill?              boolean
|           |     +--ro lsp-sec-path-config-cspf-disabled?                    boolean
|           |     +--ro lsp-sec-path-config-hot-standby?                      boolean
|           |     +--ro lsp-sec-path-config-pinned?                           boolean
|           |     +--ro lsp-sec-path-config-persistent?                       boolean
|           |     +--ro lsp-sec-path-config-soft-prempt?                      boolean
|           |     +--ro lsp-sec-path-config-priority-configured?              boolean
|           |     +--ro lsp-sec-path-config-setup-prority?                    uint8
|           |     +--ro lsp-sec-path-config-holding-prority?                  uint8
|           |     +--ro lsp-sec-path-config-hop-limit-configured?             boolean
|           |     +--ro lsp-sec-path-config-hop-limit?                        uint8
|           |     +--ro lsp-sec-path-config-traffic-eng-rate-configured?      boolean
|           |     +--ro lsp-sec-path-config-traffic-eng-mean-rate?            uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-rate?             uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-burst?            uint32
|           |     +--ro lsp-sec-path-config-admin-group-configured?           boolean
|           |     +--ro lsp-sec-path-config-admin-groups
|           |        +--ro lsp-admin-group
|           |           +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |           |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |           |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |              +--ro lsp-admin-group-include-all-group-id    uint32
|           +--ro show-mpls-lsp-frr-info
|           |  +--ro lsp-frr-operational-status?                      boolean
|           |  +--ro lsp-frr-operational-status-active?               boolean
|           |  +--ro lsp-frr-down-reason?                             string
|           |  +--ro lsp-frr-computation-mode-default?                boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-metric?      boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-liberal?     boolean
|           |  +--ro lsp-frr-group-computation-mode-default?          boolean
|           |  +--ro lsp-frr-group-computation-mode-add-penalty?      boolean
|           |  +--ro lsp-frr-group-computation-mode-exclude-groups?   boolean
|           |  +--ro lsp-frr-group-computation-mode-high-cost?        boolean
|           |  +--ro lsp-frr-out-port-id?                             uint32
|           |  +--ro lsp-frr-out-port-name?                           string
```

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|           |  +--ro lsp-frr-out-label?                                uint32
|           |  +--ro lsp-frr-path-cost?                                uint32
|           |  +--ro lsp-frr-bypass-name?                              string
|           |  +--ro lsp-frr-forwarding-protected-up?                  boolean
|           |  +--ro lsp-frr-secondary-swithover-time?                 uint32
|           |  +--ro lsp-frr-hold-time?                                uint32
|           +--ro show-mpls-lsp-backup-info
|              +--ro lsp-backups [lsp-backup-name]
|                 +--ro lsp-backup-from-address?   inet:ipv4-address
|                 +--ro lsp-backup-to-address?     inet:ipv4-address
|                 +--ro lsp-backup-name            string
|                 +--ro lsp-backup-type-ingress?   boolean
|                 +--ro lsp-backup-type-transit?   boolean
|                 +--ro lsp-backup-is-active?      boolean
+---x show-mpls-bypass-bypass-lsp-extensive
|  +--ro output
|     +--ro bypass-lsp
|        +--ro show-mpls-lsp-extensive-info
|           +--ro show-mpls-lsp-basic-info
|           |  +--ro lsp-name?                 string
|           |  +--ro lsp-type-bypass?          boolean
|           |  +--ro lsp-type-dynamic?         boolean
|           |  +--ro lsp-from-address?         inet:ipv4-address
|           |  +--ro lsp-to-address?           inet:ipv4-address
|           |  +--ro lsp-tunnel-id?            uint32
|           |  +--ro lsp-lsp-id?               uint32
|           |  +--ro lsp-admin-up?             boolean
|           |  +--ro lsp-operational-up?       boolean
|           |  +--ro lsp-is-active?            boolean
|           |  +--ro lsp-path-name?            string
|           |  +--ro lsp-out-label?            uint32
|           |  +--ro lsp-out-interface-name?   string
|           +--ro show-mpls-lsp-common-info
|           |  +--ro lsp-config-admin-up?                          boolean
|           |  +--ro lsp-config-from-address?                      inet:ipv4-address
|           |  +--ro lsp-config-to-address?                        inet:ipv4-address
|           |  +--ro lsp-config-type-bypass?                       boolean
|           |  +--ro lsp-config-type-dynamic?                      boolean
|           |  +--ro lsp-config-adaptive?                          boolean
|           |  +--ro lsp-config-ospf-area?                         inet:ipv4-address
|           |  +--ro lsp-config-isis-level?                        uint32
|           |  +--ro lsp-config-number-of-retries-configured?      boolean
|           |  +--ro lsp-config-number-of-retries?                 uint32
|           |  +--ro lsp-config-path-select-mode-configured?       boolean
|           |  +--ro lsp-config-path-select-mode-manual?           boolean
|           |  +--ro lsp-config-path-select-mode-unconditional?    boolean
|           |  +--ro lsp-config-path-select-primary?               boolean
|           |  +--ro lsp-config-path-select-secondary?             boolean
|           |  +--ro lsp-config-shortcut-ospf?                     boolean
|           |  +--ro lsp-config-shortcut-area-configured?          boolean
|           |  +--ro lsp-config-shortcut-area?                     inet:ipv4-address
|           |  +--ro lsp-config-notify-ospf?                       boolean
|           |  +--ro lsp-config-shortcut-isis?                     boolean
|           |  +--ro lsp-config-shortcut-isis-level-configured?    boolean
|           |  +--ro lsp-config-isis-shortcut-level?               uint8
|           |  +--ro lsp-config-notify-isis?                       boolean
|           |  +--ro lsp-config-metric-configured?                 boolean
|           |  +--ro lsp-config-metric?                            uint32
|           |  +--ro lsp-config-ospf-ignore-metric?                boolean
|           |  +--ro lsp-config-ospf-relative-metric?              uint32
|           |  +--ro lsp-config-ospf-announce-metric?              uint32
|           |  +--ro lsp-config-ospf-aaf?                          uint32
|           |  +--ro lsp-config-isis-ignore-metric?                boolean
|           |  +--ro lsp-config-isis-relative-metric?              uint32
|           |  +--ro lsp-config-isis-announce-configured?          boolean
|           |  +--ro lsp-config-isis-announce-metric?              uint32
|           |  +--ro lsp-config-frr-configured?                    boolean
|           |  +--ro lsp-config-frr-one-to-one?                    boolean
|           |  +--ro lsp-config-frr-one-to-many?                   boolean
|           |  +--ro lsp-config-frr-priority-configured?           boolean
|           |  +--ro lsp-config-frr-setup-priority?                uint8
|           |  +--ro lsp-config-frr-holding-priority?              uint8
```

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|           |  +--ro lsp-config-frr-hop-limit-configured?         boolean
|           |  +--ro lsp-config-frr-hop-limit?                    uint8
|           |  +--ro lsp-config-frr-bandwidth-configured?         boolean
|           |  +--ro lsp-config-frr-bandwidth?                    uint32
|           |  +--ro lsp-config-frr-admin-group-configured?       boolean
|           |  +--ro lsp-config-frr-admin-groups
|           |  |  +--ro lsp-admin-group
|           |  |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |  |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |  |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |  |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |  +--ro lsp-config-exclude-interface-configured?     boolean
|           |  +--ro lsp-config-exclude-interfaces [interface-name]
|           |     +--ro interface-name    string
|           +--ro show-mpls-lsp-instances-info
|           |  +--ro lsp-instances [lsp-instance-number]
|           |     +--ro lsp-instance-number                                  uint32
|           |     +--ro lsp-current-instance?                                boolean
|           |     +--ro lsp-new-instance?                                    boolean
|           |     +--ro lsp-old-instance?                                    boolean
|           |     +--ro lsp-is-primary?                                      boolean
|           |     +--ro lsp-is-current-secondary?                            boolean
|           |     +--ro lsp-is-selected-secondary?                           boolean
|           |     +--ro lsp-config-path-configured?                          boolean
|           |     +--ro lsp-config-path?                                     string
|           |     +--ro lsp-config-reoptimize-timer-configured?              boolean
|           |     +--ro lsp-config-reoptimize-timer?                         uint32
|           |     +--ro lsp-config-tspec-mtu-configured?                     boolean
|           |     +--ro lsp-config-tspec-mtu?                                uint32
|           |     +--ro lsp-config-cos-configured?                           boolean
|           |     +--ro lsp-config-cos?                                      uint8
|           |     +--ro lsp-config-mtu-configured?                           boolean
|           |     +--ro lsp-config-mtu?                                      uint32
|           |     +--ro lsp-config-tie-breaking-configured?                  boolean
|           |     +--ro lsp-config-tie-break-random?                         boolean
|           |     +--ro lsp-config-tie-break-least-fill?                     boolean
|           |     +--ro lsp-config-tie-break-most-fill?                      boolean
|           |     +--ro lsp-config-cspf-disabled?                            boolean
|           |     +--ro lsp-config-hot-standby?                              boolean
|           |     +--ro lsp-config-pinned?                                   boolean
|           |     +--ro lsp-config-persistenct?                              boolean
|           |     +--ro lsp-config-frr-global-revertive?                     boolean
|           |     +--ro lsp-config-frr-hold-time?                            boolean
|           |     +--ro lsp-config-soft-prempt?                              boolean
|           |     +--ro lsp-config-exclude-interface-change?                 boolean
|           |     +--ro lsp-config-prority-configured?                       boolean
|           |     +--ro lsp-config-setup-prority?                            uint8
|           |     +--ro lsp-config-holding-prority?                          uint8
|           |     +--ro lsp-config-hop-limit-configured?                     boolean
|           |     +--ro lsp-config-hop-limit?                                uint8
|           |     +--ro lsp-config-traffic-eng-rate-configured?              boolean
|           |     +--ro lsp-config-traffic-eng-mean-rate?                    uint32
|           |     +--ro lsp-config-traffic-eng-max-rate?                     uint32
|           |     +--ro lsp-config-traffic-eng-max-burst?                    uint32
|           |     +--ro lsp-config-admin-group-configured?                   boolean
|           |     +--ro lsp-config-admin-groups
|           |     |  +--ro lsp-admin-group
|           |     |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |     |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |     |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |     |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |     +--ro lsp-path-computed-by-cspf?                         boolean
|           |     +--ro lsp-path-computed-by-interface-constraint?         boolean
|           |     +--ro lsp-cspf-computation-mode-default?                  boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-metric?       boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-liberal?      boolean
|           |     +--ro lsp-cspf-group-computation-mode-default?           boolean
|           |     +--ro lsp-cspf-group-computation-mode-add-penalty?       boolean
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|           |     +--ro lsp-cspf-group-computation-mode-exclude-groups?   boolean
|           |     +--ro lsp-cspf-group-computation-mode-high-cost?        boolean
|           |     +--ro lsp-cspf-path-cost?                              uint32
|           |     +--ro lsp-cspf-path-area?                              inet:ipv4-address
|           |     +--ro lsp-cspf-computation-error?                      uint32
|           |     +--ro lsp-cspf-path-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                    inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                boolean
|           |     |        +--ro lsp-hop-loose-hop?                 boolean
|           |     |        +--ro lsp-hop-is-router-id?              boolean
|           |     |        +--ro lsp-hop-has-protection?            boolean
|           |     |        +--ro lsp-hop-has-node-protection?       boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?  boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?     boolean
|           |     |        +--ro lsp-hop-avoid-node?                boolean
|           |     |        +--ro lsp-hop-avoid-local?               boolean
|           |     |        +--ro lsp-hop-avoid-remote?              boolean
|           |     +--ro lsp-cspf-exclude-hops-present?                   boolean
|           |     +--ro lsp-cspf-exclude-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                    inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                boolean
|           |     |        +--ro lsp-hop-loose-hop?                 boolean
|           |     |        +--ro lsp-hop-is-router-id?              boolean
|           |     |        +--ro lsp-hop-has-protection?            boolean
|           |     |        +--ro lsp-hop-has-node-protection?       boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?  boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?     boolean
|           |     |        +--ro lsp-hop-avoid-node?                boolean
|           |     |        +--ro lsp-hop-avoid-local?               boolean
|           |     |        +--ro lsp-hop-avoid-remote?              boolean
|           |     +--ro lsp-rsvp-session-present?                        boolean
|           |     +--ro lsp-rsvp-session-state-up?                       boolean
|           |     +--ro lsp-rsvp-session-state?                          uint8
|           |     +--ro lsp-rsvp-session-path-error-code?                uint32
|           |     +--ro lsp-rsvp-session-path-error-value?               uint32
|           |     +--ro lsp-rsvp-session-path-error-node-address?        inet:ipv4-address
|           |     +--ro lsp-rsvp-session-rro-hops-present?               boolean
|           |     +--ro lsp-rsvp-session-rro-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                    inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                boolean
|           |     |        +--ro lsp-hop-loose-hop?                 boolean
|           |     |        +--ro lsp-hop-is-router-id?              boolean
|           |     |        +--ro lsp-hop-has-protection?            boolean
|           |     |        +--ro lsp-hop-has-node-protection?       boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?  boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?     boolean
|           |     |        +--ro lsp-hop-avoid-node?                boolean
|           |     |        +--ro lsp-hop-avoid-local?               boolean
|           |     |        +--ro lsp-hop-avoid-remote?              boolean
|           |     +--ro lsp-maximum-bandwidth?                           uint32
|           |     +--ro lsp-unreserved-priority-0-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-1-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-2-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-3-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-4-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-5-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-6-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-7-bandwidth?             uint32
|           +--ro show-mpls-lsp-forwarding-info
|           |  +--ro lsp-forwarding-primary-active?     boolean
|           |  +--ro lsp-forwarding-primary-up?         boolean
|           |  +--ro lsp-forwarding-secondary-active?   boolean
|           |  +--ro lsp-forwarding-secondary-up?       boolean
|           |  +--ro lsp-forwarding-frr-active?         boolean
|           |  +--ro lsp-forwarding-frr-up?             boolean
|           |  +--ro lsp-forwarding-out-port-id?        uint32
```

```
|           |  +--ro lsp-forwarding-out-port-name?      string
|           |  +--ro lsp-forwarding-out-label?          uint32
|           +--ro show-mpls-lsp-sec-path-info
|           |  +--ro sec-path [lsp-sec-path-path-name]
|           |     +--ro lsp-sec-path-path-name                              string
|           |     +--ro lsp-sec-path-state?                                 uint8
|           |     +--ro lsp-sec-path-state-up?                              boolean
|           |     +--ro lsp-sec-path-active?                                boolean
|           |     +--ro lsp-sec-path-is-current-secondary?                  boolean
|           |     +--ro lsp-sec-path-is-selected-secondary?                 boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer-configured?    boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer?               uint32
|           |     +--ro lsp-sec-path-config-tspec-mtu-configured?           boolean
|           |     +--ro lsp-sec-path-sec-path-config-tspec-mtu?             uint32
|           |     +--ro lsp-sec-path-config-cos-configured?                 boolean
|           |     +--ro lsp-sec-path-config-cos?                            uint8
|           |     +--ro lsp-sec-path-config-mtu-configured?                 boolean
|           |     +--ro lsp-sec-path-config-mtu?                            uint32
|           |     +--ro lsp-sec-path-config-tie-breaking-configured?        boolean
|           |     +--ro lsp-sec-path-config-tie-break-random?               boolean
|           |     +--ro lsp-sec-path-config-tie-break-least-fill?           boolean
|           |     +--ro lsp-sec-path-config-tie-break-most-fill?            boolean
|           |     +--ro lsp-sec-path-config-cspf-disabled?                  boolean
|           |     +--ro lsp-sec-path-config-hot-standby?                    boolean
|           |     +--ro lsp-sec-path-config-pinned?                         boolean
|           |     +--ro lsp-sec-path-config-persistent?                     boolean
|           |     +--ro lsp-sec-path-config-soft-prempt?                    boolean
|           |     +--ro lsp-sec-path-config-priority-configured?            boolean
|           |     +--ro lsp-sec-path-config-setup-prority?                  uint8
|           |     +--ro lsp-sec-path-config-holding-prority?                uint8
|           |     +--ro lsp-sec-path-config-hop-limit-configured?           boolean
|           |     +--ro lsp-sec-path-config-hop-limit?                      uint8
|           |     +--ro lsp-sec-path-config-traffic-eng-rate-configured?    boolean
|           |     +--ro lsp-sec-path-config-traffic-eng-mean-rate?          uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-rate?           uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-burst?          uint32
|           |     +--ro lsp-sec-path-config-admin-group-configured?         boolean
|           |     +--ro lsp-sec-path-config-admin-groups
|           |        +--ro lsp-admin-group
|           |           +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |           |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |           |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |              +--ro lsp-admin-group-include-all-group-id    uint32
|           +--ro show-mpls-lsp-frr-info
|           |  +--ro lsp-frr-operational-status?                        boolean
|           |  +--ro lsp-frr-operational-status-active?                 boolean
|           |  +--ro lsp-frr-down-reason?                               string
|           |  +--ro lsp-frr-computation-mode-default?                  boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-metric?        boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-liberal?       boolean
|           |  +--ro lsp-frr-group-computation-mode-default?            boolean
|           |  +--ro lsp-frr-group-computation-mode-add-penalty?        boolean
|           |  +--ro lsp-frr-group-computation-mode-exclude-groups?     boolean
|           |  +--ro lsp-frr-group-computation-mode-high-cost?          boolean
|           |  +--ro lsp-frr-out-port-id?                               uint32
|           |  +--ro lsp-frr-out-port-name?                             string
|           |  +--ro lsp-frr-out-label?                                 uint32
|           |  +--ro lsp-frr-path-cost?                                 uint32
|           |  +--ro lsp-frr-bypass-name?                               string
|           |  +--ro lsp-frr-forwarding-protected-up?                   boolean
|           |  +--ro lsp-frr-secondary-swithover-time?                  uint32
|           |  +--ro lsp-frr-hold-time?                                 uint32
|           +--ro show-mpls-lsp-backup-info
|           |  +--ro lsp-backups [lsp-backup-name]
|           |     +--ro lsp-backup-from-address?   inet:ipv4-address
|           |     +--ro lsp-backup-to-address?     inet:ipv4-address
|           |     +--ro lsp-backup-name            string
|           |     +--ro lsp-backup-type-ingress?   boolean
|           |     +--ro lsp-backup-type-transit?   boolean
|           |     +--ro lsp-backup-is-active?      boolean
```

```
|           +--ro show-mpls-lsp-history-info
|              +--ro lsp-history?   string
+---x show-mpls-bypass-lsp-debug
|  +--ro output
|     +--ro bypass-lsp
|        +--ro show-mpls-lsp-debug-info
|           +--ro show-mpls-lsp-basic-info
|           |  +--ro lsp-name?                string
|           |  +--ro lsp-type-bypass?         boolean
|           |  +--ro lsp-type-dynamic?        boolean
|           |  +--ro lsp-from-address?        inet:ipv4-address
|           |  +--ro lsp-to-address?          inet:ipv4-address
|           |  +--ro lsp-tunnel-id?           uint32
|           |  +--ro lsp-lsp-id?              uint32
|           |  +--ro lsp-admin-up?            boolean
|           |  +--ro lsp-operational-up?      boolean
|           |  +--ro lsp-is-active?           boolean
|           |  +--ro lsp-path-name?           string
|           |  +--ro lsp-out-label?           uint32
|           |  +--ro lsp-out-interface-name?  string
|           +--ro show-mpls-lsp-common-info
|           |  +--ro lsp-config-admin-up?                          boolean
|           |  +--ro lsp-config-from-address?                      inet:ipv4-address
|           |  +--ro lsp-config-to-address?                        inet:ipv4-address
|           |  +--ro lsp-config-type-bypass?                       boolean
|           |  +--ro lsp-config-type-dynamic?                      boolean
|           |  +--ro lsp-config-adaptive?                          boolean
|           |  +--ro lsp-config-ospf-area?                         inet:ipv4-address
|           |  +--ro lsp-config-isis-level?                        uint32
|           |  +--ro lsp-config-number-of-retries-configured?      boolean
|           |  +--ro lsp-config-number-of-retries?                 uint32
|           |  +--ro lsp-config-path-select-mode-configured?       boolean
|           |  +--ro lsp-config-path-select-mode-manual?           boolean
|           |  +--ro lsp-config-path-select-mode-unconditional?    boolean
|           |  +--ro lsp-config-path-select-primary?               boolean
|           |  +--ro lsp-config-path-select-secondary?             boolean
|           |  +--ro lsp-config-shortcut-ospf?                     boolean
|           |  +--ro lsp-config-shortcut-area-configured?          boolean
|           |  +--ro lsp-config-shortcut-area?                     inet:ipv4-address
|           |  +--ro lsp-config-notify-ospf?                       boolean
|           |  +--ro lsp-config-shortcut-isis?                     boolean
|           |  +--ro lsp-config-shortcut-isis-level-configured?    boolean
|           |  +--ro lsp-config-isis-shortcut-level?               uint8
|           |  +--ro lsp-config-notify-isis?                       boolean
|           |  +--ro lsp-config-metric-configured?                 boolean
|           |  +--ro lsp-config-metric?                            uint32
|           |  +--ro lsp-config-ospf-ignore-metric?                boolean
|           |  +--ro lsp-config-ospf-relative-metric?              uint32
|           |  +--ro lsp-config-ospf-announce-metric?              uint32
|           |  +--ro lsp-config-ospf-aaf?                          uint32
|           |  +--ro lsp-config-isis-ignore-metric?                boolean
|           |  +--ro lsp-config-isis-relative-metric?              uint32
|           |  +--ro lsp-config-isis-announce-configured?          boolean
|           |  +--ro lsp-config-isis-announce-metric?              uint32
|           |  +--ro lsp-config-frr-configured?                    boolean
|           |  +--ro lsp-config-frr-one-to-one?                    boolean
|           |  +--ro lsp-config-frr-one-to-many?                   boolean
|           |  +--ro lsp-config-frr-priority-configured?           boolean
|           |  +--ro lsp-config-frr-setup-priority?                uint8
|           |  +--ro lsp-config-frr-holding-priority?              uint8
|           |  +--ro lsp-config-frr-hop-limit-configured?          boolean
|           |  +--ro lsp-config-frr-hop-limit?                     uint8
|           |  +--ro lsp-config-frr-bandwidth-configured?          boolean
|           |  +--ro lsp-config-frr-bandwidth?                     uint32
|           |  +--ro lsp-config-frr-admin-group-configured?        boolean
|           |  +--ro lsp-config-frr-admin-groups
|           |  |  +--ro lsp-admin-group
|           |  |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |  |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |  |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
```

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|           |  |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |  +--ro lsp-config-exclude-interface-configured?     boolean
|           |  +--ro lsp-config-exclude-interfaces [interface-name]
|           |     +--ro interface-name    string
|           +--ro show-mpls-lsp-instances-info
|           |  +--ro lsp-instances [lsp-instance-number]
|           |     +--ro lsp-instance-number                                  uint32
|           |     +--ro lsp-current-instance?                                boolean
|           |     +--ro lsp-new-instance?                                    boolean
|           |     +--ro lsp-old-instance?                                    boolean
|           |     +--ro lsp-is-primary?                                      boolean
|           |     +--ro lsp-is-current-secondary?                            boolean
|           |     +--ro lsp-is-selected-secondary?                           boolean
|           |     +--ro lsp-config-path-configured?                          boolean
|           |     +--ro lsp-config-path?                                     string
|           |     +--ro lsp-config-reoptimize-timer-configured?              boolean
|           |     +--ro lsp-config-reoptimize-timer?                         uint32
|           |     +--ro lsp-config-tspec-mtu-configured?                     boolean
|           |     +--ro lsp-config-tspec-mtu?                                uint32
|           |     +--ro lsp-config-cos-configured?                           boolean
|           |     +--ro lsp-config-cos?                                      uint8
|           |     +--ro lsp-config-mtu-configured?                           boolean
|           |     +--ro lsp-config-mtu?                                      uint32
|           |     +--ro lsp-config-tie-breaking-configured?                  boolean
|           |     +--ro lsp-config-tie-break-random?                         boolean
|           |     +--ro lsp-config-tie-break-least-fill?                     boolean
|           |     +--ro lsp-config-tie-break-most-fill?                      boolean
|           |     +--ro lsp-config-cspf-disabled?                            boolean
|           |     +--ro lsp-config-hot-standby?                              boolean
|           |     +--ro lsp-config-pinned?                                   boolean
|           |     +--ro lsp-config-persistenct?                              boolean
|           |     +--ro lsp-config-frr-global-revertive?                     boolean
|           |     +--ro lsp-config-frr-hold-time?                            boolean
|           |     +--ro lsp-config-soft-prempt?                              boolean
|           |     +--ro lsp-config-exclude-interface-change?                 boolean
|           |     +--ro lsp-config-prority-configured?                       boolean
|           |     +--ro lsp-config-setup-prority?                            uint8
|           |     +--ro lsp-config-holding-prority?                          uint8
|           |     +--ro lsp-config-hop-limit-configured?                     boolean
|           |     +--ro lsp-config-hop-limit?                                uint8
|           |     +--ro lsp-config-traffic-eng-rate-configured?              boolean
|           |     +--ro lsp-config-traffic-eng-mean-rate?                    uint32
|           |     +--ro lsp-config-traffic-eng-max-rate?                     uint32
|           |     +--ro lsp-config-traffic-eng-max-burst?                    uint32
|           |     +--ro lsp-config-admin-group-configured?                   boolean
|           |     +--ro lsp-config-admin-groups
|           |     |  +--ro lsp-admin-group
|           |     |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |     |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |     |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |     |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |     +--ro lsp-path-computed-by-cspf?                          boolean
|           |     +--ro lsp-path-computed-by-interface-constraint?          boolean
|           |     +--ro lsp-cspf-computation-mode-default?                   boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-metric?        boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-liberal?       boolean
|           |     +--ro lsp-cspf-group-computation-mode-default?            boolean
|           |     +--ro lsp-cspf-group-computation-mode-add-penalty?        boolean
|           |     +--ro lsp-cspf-group-computation-mode-exclude-groups?     boolean
|           |     +--ro lsp-cspf-group-computation-mode-high-cost?          boolean
|           |     +--ro lsp-cspf-path-cost?                                  uint32
|           |     +--ro lsp-cspf-path-area?                                  inet:ipv4-address
|           |     +--ro lsp-cspf-computation-error?                          uint32
|           |     +--ro lsp-cspf-path-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                    inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                boolean
|           |     |        +--ro lsp-hop-loose-hop?                 boolean
|           |     |        +--ro lsp-hop-is-router-id?              boolean
```

```
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-cspf-exclude-hops-present?                    boolean
|           |     +--ro lsp-cspf-exclude-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-rsvp-session-present?                         boolean
|           |     +--ro lsp-rsvp-session-state-up?                        boolean
|           |     +--ro lsp-rsvp-session-state?                           uint8
|           |     +--ro lsp-rsvp-session-path-error-code?                 uint32
|           |     +--ro lsp-rsvp-session-path-error-value?                uint32
|           |     +--ro lsp-rsvp-session-path-error-node-address?         inet:ipv4-address
|           |     +--ro lsp-rsvp-session-rro-hops-present?                boolean
|           |     +--ro lsp-rsvp-session-rro-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-maximum-bandwidth?                            uint32
|           |     +--ro lsp-unreserved-priority-0-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-1-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-2-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-3-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-4-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-5-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-6-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-7-bandwidth?              uint32
|           +--ro show-mpls-lsp-forwarding-info
|           |  +--ro lsp-forwarding-primary-active?     boolean
|           |  +--ro lsp-forwarding-primary-up?         boolean
|           |  +--ro lsp-forwarding-secondary-active?   boolean
|           |  +--ro lsp-forwarding-secondary-up?       boolean
|           |  +--ro lsp-forwarding-frr-active?         boolean
|           |  +--ro lsp-forwarding-frr-up?             boolean
|           |  +--ro lsp-forwarding-out-port-id?        uint32
|           |  +--ro lsp-forwarding-out-port-name?      string
|           |  +--ro lsp-forwarding-out-label?          uint32
|           +--ro show-mpls-lsp-sec-path-info
|           |  +--ro sec-path [lsp-sec-path-path-name]
|           |     +--ro lsp-sec-path-path-name                              string
|           |     +--ro lsp-sec-path-state?                                 uint8
|           |     +--ro lsp-sec-path-state-up?                              boolean
|           |     +--ro lsp-sec-path-active?                                boolean
|           |     +--ro lsp-sec-path-is-current-secondary?                  boolean
|           |     +--ro lsp-sec-path-is-selected-secondary?                 boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer-configured?    boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer?               uint32
```

```
|           |     +--ro lsp-sec-path-config-tspec-mtu-configured?          boolean
|           |     +--ro lsp-sec-path-sec-path-config-tspec-mtu?            uint32
|           |     +--ro lsp-sec-path-config-cos-configured?                boolean
|           |     +--ro lsp-sec-path-config-cos?                           uint8
|           |     +--ro lsp-sec-path-config-mtu-configured?                boolean
|           |     +--ro lsp-sec-path-config-mtu?                           uint32
|           |     +--ro lsp-sec-path-config-tie-breaking-configured?       boolean
|           |     +--ro lsp-sec-path-config-tie-break-random?              boolean
|           |     +--ro lsp-sec-path-config-tie-break-least-fill?          boolean
|           |     +--ro lsp-sec-path-config-tie-break-most-fill?           boolean
|           |     +--ro lsp-sec-path-config-cspf-disabled?                 boolean
|           |     +--ro lsp-sec-path-config-hot-standby?                   boolean
|           |     +--ro lsp-sec-path-config-pinned?                        boolean
|           |     +--ro lsp-sec-path-config-persistent?                    boolean
|           |     +--ro lsp-sec-path-config-soft-prempt?                   boolean
|           |     +--ro lsp-sec-path-config-priority-configured?           boolean
|           |     +--ro lsp-sec-path-config-setup-prority?                 uint8
|           |     +--ro lsp-sec-path-config-holding-prority?               uint8
|           |     +--ro lsp-sec-path-config-hop-limit-configured?          boolean
|           |     +--ro lsp-sec-path-config-hop-limit?                     uint8
|           |     +--ro lsp-sec-path-config-traffic-eng-rate-configured?   boolean
|           |     +--ro lsp-sec-path-config-traffic-eng-mean-rate?         uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-rate?          uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-burst?         uint32
|           |     +--ro lsp-sec-path-config-admin-group-configured?        boolean
|           |     +--ro lsp-sec-path-config-admin-groups
|           |        +--ro lsp-admin-group
|           |           +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |           |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |           |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |              +--ro lsp-admin-group-include-all-group-id    uint32
|           +--ro show-mpls-lsp-frr-info
|           |  +--ro lsp-frr-operational-status?                      boolean
|           |  +--ro lsp-frr-operational-status-active?               boolean
|           |  +--ro lsp-frr-down-reason?                             string
|           |  +--ro lsp-frr-computation-mode-default?                boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-metric?      boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-liberal?     boolean
|           |  +--ro lsp-frr-group-computation-mode-default?          boolean
|           |  +--ro lsp-frr-group-computation-mode-add-penalty?      boolean
|           |  +--ro lsp-frr-group-computation-mode-exclude-groups?   boolean
|           |  +--ro lsp-frr-group-computation-mode-high-cost?        boolean
|           |  +--ro lsp-frr-out-port-id?                             uint32
|           |  +--ro lsp-frr-out-port-name?                           string
|           |  +--ro lsp-frr-out-label?                               uint32
|           |  +--ro lsp-frr-path-cost?                               uint32
|           |  +--ro lsp-frr-bypass-name?                             string
|           |  +--ro lsp-frr-forwarding-protected-up?                 boolean
|           |  +--ro lsp-frr-secondary-swithover-time?                uint32
|           |  +--ro lsp-frr-hold-time?                               uint32
|           +--ro show-mpls-lsp-backup-info
|           |  +--ro lsp-backups [lsp-backup-name]
|           |     +--ro lsp-backup-from-address?   inet:ipv4-address
|           |     +--ro lsp-backup-to-address?     inet:ipv4-address
|           |     +--ro lsp-backup-name            string
|           |     +--ro lsp-backup-type-ingress?   boolean
|           |     +--ro lsp-backup-type-transit?   boolean
|           |     +--ro lsp-backup-is-active?      boolean
|           +--ro show-mpls-lsp-history-info
|              +--ro lsp-history?   string
+---x show-mpls-bypass-lsp-name-detail
|  +--ro input
|  |  +--ro show-lsp-input-info
|  |     +--ro lsp?                              string
|  |     +--ro lsp-wide?                         boolean
|  |     +--ro lsp-detail?                       boolean
|  |     +--ro lsp-extensive?                    boolean
|  |     +--ro lsp-debug?                        boolean
|  |     +--ro lsp-name?                         string
|  |     +--ro lsp-name-extensive?               boolean
```

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|  |     +--ro lsp-name-debug?                       boolean
|  |     +--ro bypass-lsp?                           string
|  |     +--ro bypass-lsp-wide?                      boolean
|  |     +--ro bypass-lsp-detail?                    boolean
|  |     +--ro bypass-lsp-extensive?                 boolean
|  |     +--ro bypass-lsp-debug?                     boolean
|  |     +--ro bypass-lsp-name?                      string
|  |     +--ro bypass-lsp-name-extensive?            boolean
|  |     +--ro bypass-lsp-name-debug?                boolean
|  |     +--ro bypass-lsp-static?                    string
|  |     +--ro bypass-lsp-static-wide?               boolean
|  |     +--ro bypass-lsp-static-detail?             boolean
|  |     +--ro bypass-lsp-static-extensive?          boolean
|  |     +--ro bypass-lsp-static-debug?              boolean
|  |     +--ro bypass-lsp-static-name?               string
|  |     +--ro bypass-lsp-static-name-extensive?     boolean
|  |     +--ro bypass-lsp-static-name-debug?         boolean
|  |     +--ro bypass-lsp-dynamic?                   string
|  |     +--ro bypass-lsp-dynamic-wide?              boolean
|  |     +--ro bypass-lsp-dynamic-detail?            boolean
|  |     +--ro bypass-lsp-dynamic-extensive?         boolean
|  |     +--ro bypass-lsp-dynamic-debug?             boolean
|  |     +--ro bypass-lsp-dynamic-name?              string
|  |     +--ro bypass-lsp-dynamic-name-extensive?    boolean
|  |     +--ro bypass-lsp-dynamic-name-debug?        boolean
|  |     +--ro lsp-input-lsp-name?                   string
|  |     +--ro lsp-input-bypass?                     boolean
|  |     +--ro lsp-input-dynamic?                    boolean
|  |     +--ro lsp-input-brief?                      boolean
|  |     +--ro lsp-input-wide?                       boolean
|  |     +--ro lsp-input-detail?                     boolean
|  |     +--ro lsp-input-extensive?                  boolean
|  |     +--ro lsp-input-debug?                      boolean
|  |     +--ro lsp-input-one?                        boolean
|  |     +--ro lsp-input-all?                        boolean
|  |     +--ro lsp-input-more?                       boolean
|  +--ro output
|     +--ro bypass-lsp
|        +--ro show-mpls-lsp-detail-info
|           +--ro show-mpls-lsp-basic-info
|           |  +--ro lsp-name?                 string
|           |  +--ro lsp-type-bypass?          boolean
|           |  +--ro lsp-type-dynamic?         boolean
|           |  +--ro lsp-from-address?         inet:ipv4-address
|           |  +--ro lsp-to-address?           inet:ipv4-address
|           |  +--ro lsp-tunnel-id?            uint32
|           |  +--ro lsp-lsp-id?               uint32
|           |  +--ro lsp-admin-up?             boolean
|           |  +--ro lsp-operational-up?       boolean
|           |  +--ro lsp-is-active?            boolean
|           |  +--ro lsp-path-name?            string
|           |  +--ro lsp-out-label?            uint32
|           |  +--ro lsp-out-interface-name?   string
|           +--ro show-mpls-lsp-common-info
|           |  +--ro lsp-config-admin-up?                          boolean
|           |  +--ro lsp-config-from-address?                      inet:ipv4-address
|           |  +--ro lsp-config-to-address?                        inet:ipv4-address
|           |  +--ro lsp-config-type-bypass?                       boolean
|           |  +--ro lsp-config-type-dynamic?                      boolean
|           |  +--ro lsp-config-adaptive?                          boolean
|           |  +--ro lsp-config-ospf-area?                         inet:ipv4-address
|           |  +--ro lsp-config-isis-level?                        uint32
|           |  +--ro lsp-config-number-of-retries-configured?      boolean
|           |  +--ro lsp-config-number-of-retries?                 uint32
|           |  +--ro lsp-config-path-select-mode-configured?       boolean
|           |  +--ro lsp-config-path-select-mode-manual?           boolean
|           |  +--ro lsp-config-path-select-mode-unconditional?    boolean
|           |  +--ro lsp-config-path-select-primary?               boolean
|           |  +--ro lsp-config-path-select-secondary?             boolean
|           |  +--ro lsp-config-shortcut-ospf?                     boolean
|           |  +--ro lsp-config-shortcut-area-configured?          boolean
|           |  +--ro lsp-config-shortcut-area?                     inet:ipv4-address
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|           |  +--ro lsp-config-notify-ospf?                       boolean
|           |  +--ro lsp-config-shortcut-isis?                     boolean
|           |  +--ro lsp-config-shortcut-isis-level-configured?   boolean
|           |  +--ro lsp-config-isis-shortcut-level?               uint8
|           |  +--ro lsp-config-notify-isis?                       boolean
|           |  +--ro lsp-config-metric-configured?                 boolean
|           |  +--ro lsp-config-metric?                            uint32
|           |  +--ro lsp-config-ospf-ignore-metric?                boolean
|           |  +--ro lsp-config-ospf-relative-metric?              uint32
|           |  +--ro lsp-config-ospf-announce-metric?              uint32
|           |  +--ro lsp-config-ospf-aaf?                          uint32
|           |  +--ro lsp-config-isis-ignore-metric?                boolean
|           |  +--ro lsp-config-isis-relative-metric?              uint32
|           |  +--ro lsp-config-isis-announce-configured?          boolean
|           |  +--ro lsp-config-isis-announce-metric?              uint32
|           |  +--ro lsp-config-frr-configured?                    boolean
|           |  +--ro lsp-config-frr-one-to-one?                    boolean
|           |  +--ro lsp-config-frr-one-to-many?                   boolean
|           |  +--ro lsp-config-frr-priority-configured?           boolean
|           |  +--ro lsp-config-frr-setup-priority?                uint8
|           |  +--ro lsp-config-frr-holding-priority?              uint8
|           |  +--ro lsp-config-frr-hop-limit-configured?          boolean
|           |  +--ro lsp-config-frr-hop-limit?                     uint8
|           |  +--ro lsp-config-frr-bandwidth-configured?          boolean
|           |  +--ro lsp-config-frr-bandwidth?                     uint32
|           |  +--ro lsp-config-frr-admin-group-configured?        boolean
|           |  +--ro lsp-config-frr-admin-groups
|           |  |  +--ro lsp-admin-group
|           |  |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |  |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |  |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |  |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |  +--ro lsp-config-exclude-interface-configured?     boolean
|           |  +--ro lsp-config-exclude-interfaces [interface-name]
|           |     +--ro interface-name    string
|           +--ro show-mpls-lsp-instances-info
|           |  +--ro lsp-instances [lsp-instance-number]
|           |     +--ro lsp-instance-number                                uint32
|           |     +--ro lsp-current-instance?                              boolean
|           |     +--ro lsp-new-instance?                                  boolean
|           |     +--ro lsp-old-instance?                                  boolean
|           |     +--ro lsp-is-primary?                                    boolean
|           |     +--ro lsp-is-current-secondary?                          boolean
|           |     +--ro lsp-is-selected-secondary?                         boolean
|           |     +--ro lsp-config-path-configured?                        boolean
|           |     +--ro lsp-config-path?                                   string
|           |     +--ro lsp-config-reoptimize-timer-configured?            boolean
|           |     +--ro lsp-config-reoptimize-timer?                       uint32
|           |     +--ro lsp-config-tspec-mtu-configured?                   boolean
|           |     +--ro lsp-config-tspec-mtu?                              uint32
|           |     +--ro lsp-config-cos-configured?                         boolean
|           |     +--ro lsp-config-cos?                                    uint8
|           |     +--ro lsp-config-mtu-configured?                         boolean
|           |     +--ro lsp-config-mtu?                                    uint32
|           |     +--ro lsp-config-tie-breaking-configured?                boolean
|           |     +--ro lsp-config-tie-break-random?                       boolean
|           |     +--ro lsp-config-tie-break-least-fill?                   boolean
|           |     +--ro lsp-config-tie-break-most-fill?                    boolean
|           |     +--ro lsp-config-cspf-disabled?                          boolean
|           |     +--ro lsp-config-hot-standby?                            boolean
|           |     +--ro lsp-config-pinned?                                 boolean
|           |     +--ro lsp-config-persistenct?                            boolean
|           |     +--ro lsp-config-frr-global-revertive?                   boolean
|           |     +--ro lsp-config-frr-hold-time?                          boolean
|           |     +--ro lsp-config-soft-prempt?                            boolean
|           |     +--ro lsp-config-exclude-interface-change?               boolean
|           |     +--ro lsp-config-prority-configured?                     boolean
|           |     +--ro lsp-config-setup-prority?                          uint8
|           |     +--ro lsp-config-holding-prority?                        uint8
|           |     +--ro lsp-config-hop-limit-configured?                   boolean
```

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|           |     +--ro lsp-config-hop-limit?                                uint8
|           |     +--ro lsp-config-traffic-eng-rate-configured?              boolean
|           |     +--ro lsp-config-traffic-eng-mean-rate?                    uint32
|           |     +--ro lsp-config-traffic-eng-max-rate?                     uint32
|           |     +--ro lsp-config-traffic-eng-max-burst?                    uint32
|           |     +--ro lsp-config-admin-group-configured?                   boolean
|           |     +--ro lsp-config-admin-groups
|           |     |  +--ro lsp-admin-group
|           |     |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |     |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |     |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |     |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |     +--ro lsp-path-computed-by-cspf?                           boolean
|           |     +--ro lsp-path-computed-by-interface-constraint?           boolean
|           |     +--ro lsp-cspf-computation-mode-default?                    boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-metric?         boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-liberal?        boolean
|           |     +--ro lsp-cspf-group-computation-mode-default?             boolean
|           |     +--ro lsp-cspf-group-computation-mode-add-penalty?         boolean
|           |     +--ro lsp-cspf-group-computation-mode-exclude-groups?      boolean
|           |     +--ro lsp-cspf-group-computation-mode-high-cost?           boolean
|           |     +--ro lsp-cspf-path-cost?                                  uint32
|           |     +--ro lsp-cspf-path-area?                                  inet:ipv4-address
|           |     +--ro lsp-cspf-computation-error?                          uint32
|           |     +--ro lsp-cspf-path-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                      inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                  boolean
|           |     |        +--ro lsp-hop-loose-hop?                   boolean
|           |     |        +--ro lsp-hop-is-router-id?                boolean
|           |     |        +--ro lsp-hop-has-protection?              boolean
|           |     |        +--ro lsp-hop-has-node-protection?         boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?    boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?       boolean
|           |     |        +--ro lsp-hop-avoid-node?                  boolean
|           |     |        +--ro lsp-hop-avoid-local?                 boolean
|           |     |        +--ro lsp-hop-avoid-remote?                boolean
|           |     +--ro lsp-cspf-exclude-hops-present?                       boolean
|           |     +--ro lsp-cspf-exclude-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                      inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                  boolean
|           |     |        +--ro lsp-hop-loose-hop?                   boolean
|           |     |        +--ro lsp-hop-is-router-id?                boolean
|           |     |        +--ro lsp-hop-has-protection?              boolean
|           |     |        +--ro lsp-hop-has-node-protection?         boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?    boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?       boolean
|           |     |        +--ro lsp-hop-avoid-node?                  boolean
|           |     |        +--ro lsp-hop-avoid-local?                 boolean
|           |     |        +--ro lsp-hop-avoid-remote?                boolean
|           |     +--ro lsp-rsvp-session-present?                            boolean
|           |     +--ro lsp-rsvp-session-state-up?                           boolean
|           |     +--ro lsp-rsvp-session-state?                              uint8
|           |     +--ro lsp-rsvp-session-path-error-code?                    uint32
|           |     +--ro lsp-rsvp-session-path-error-value?                   uint32
|           |     +--ro lsp-rsvp-session-path-error-node-address?            inet:ipv4-address
|           |     +--ro lsp-rsvp-session-rro-hops-present?                   boolean
|           |     +--ro lsp-rsvp-session-rro-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                      inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                  boolean
|           |     |        +--ro lsp-hop-loose-hop?                   boolean
|           |     |        +--ro lsp-hop-is-router-id?                boolean
|           |     |        +--ro lsp-hop-has-protection?              boolean
|           |     |        +--ro lsp-hop-has-node-protection?         boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?    boolean
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|           |     |       +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |       +--ro lsp-hop-avoid-node?                boolean
|           |     |       +--ro lsp-hop-avoid-local?               boolean
|           |     |       +--ro lsp-hop-avoid-remote?              boolean
|           |     +--ro lsp-maximum-bandwidth?                           uint32
|           |     +--ro lsp-unreserved-priority-0-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-1-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-2-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-3-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-4-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-5-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-6-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-7-bandwidth?             uint32
|           +--ro show-mpls-lsp-forwarding-info
|           |  +--ro lsp-forwarding-primary-active?     boolean
|           |  +--ro lsp-forwarding-primary-up?         boolean
|           |  +--ro lsp-forwarding-secondary-active?   boolean
|           |  +--ro lsp-forwarding-secondary-up?       boolean
|           |  +--ro lsp-forwarding-frr-active?         boolean
|           |  +--ro lsp-forwarding-frr-up?             boolean
|           |  +--ro lsp-forwarding-out-port-id?        uint32
|           |  +--ro lsp-forwarding-out-port-name?      string
|           |  +--ro lsp-forwarding-out-label?          uint32
|           +--ro show-mpls-lsp-sec-path-info
|           |  +--ro sec-path [lsp-sec-path-path-name]
|           |     +--ro lsp-sec-path-path-name                              string
|           |     +--ro lsp-sec-path-state?                                 uint8
|           |     +--ro lsp-sec-path-state-up?                              boolean
|           |     +--ro lsp-sec-path-active?                                boolean
|           |     +--ro lsp-sec-path-is-current-secondary?                  boolean
|           |     +--ro lsp-sec-path-is-selected-secondary?                 boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer-configured?    boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer?               uint32
|           |     +--ro lsp-sec-path-config-tspec-mtu-configured?           boolean
|           |     +--ro lsp-sec-path-sec-path-config-tspec-mtu?             uint32
|           |     +--ro lsp-sec-path-config-cos-configured?                 boolean
|           |     +--ro lsp-sec-path-config-cos?                            uint8
|           |     +--ro lsp-sec-path-config-mtu-configured?                 boolean
|           |     +--ro lsp-sec-path-config-mtu?                            uint32
|           |     +--ro lsp-sec-path-config-tie-breaking-configured?        boolean
|           |     +--ro lsp-sec-path-config-tie-break-random?               boolean
|           |     +--ro lsp-sec-path-config-tie-break-least-fill?           boolean
|           |     +--ro lsp-sec-path-config-tie-break-most-fill?            boolean
|           |     +--ro lsp-sec-path-config-cspf-disabled?                  boolean
|           |     +--ro lsp-sec-path-config-hot-standby?                    boolean
|           |     +--ro lsp-sec-path-config-pinned?                         boolean
|           |     +--ro lsp-sec-path-config-persistent?                     boolean
|           |     +--ro lsp-sec-path-config-soft-prempt?                    boolean
|           |     +--ro lsp-sec-path-config-priority-configured?            boolean
|           |     +--ro lsp-sec-path-config-setup-prority?                  uint8
|           |     +--ro lsp-sec-path-config-holding-prority?                uint8
|           |     +--ro lsp-sec-path-config-hop-limit-configured?           boolean
|           |     +--ro lsp-sec-path-config-hop-limit?                      uint8
|           |     +--ro lsp-sec-path-config-traffic-eng-rate-configured?    boolean
|           |     +--ro lsp-sec-path-config-traffic-eng-mean-rate?          uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-rate?           uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-burst?          uint32
|           |     +--ro lsp-sec-path-config-admin-group-configured?         boolean
|           |     +--ro lsp-sec-path-config-admin-groups
|           |        +--ro lsp-admin-group
|           |           +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |           |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |           |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |              +--ro lsp-admin-group-include-all-group-id    uint32
|           +--ro show-mpls-lsp-frr-info
|           |  +--ro lsp-frr-operational-status?                      boolean
|           |  +--ro lsp-frr-operational-status-active?               boolean
|           |  +--ro lsp-frr-down-reason?                             string
|           |  +--ro lsp-frr-computation-mode-default?                boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-metric?      boolean
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|           |  +--ro lsp-frr-computation-mode-use-bypass-liberal?     boolean
|           |  +--ro lsp-frr-group-computation-mode-default?          boolean
|           |  +--ro lsp-frr-group-computation-mode-add-penalty?      boolean
|           |  +--ro lsp-frr-group-computation-mode-exclude-groups?   boolean
|           |  +--ro lsp-frr-group-computation-mode-high-cost?        boolean
|           |  +--ro lsp-frr-out-port-id?                            uint32
|           |  +--ro lsp-frr-out-port-name?                          string
|           |  +--ro lsp-frr-out-label?                              uint32
|           |  +--ro lsp-frr-path-cost?                              uint32
|           |  +--ro lsp-frr-bypass-name?                            string
|           |  +--ro lsp-frr-forwarding-protected-up?                boolean
|           |  +--ro lsp-frr-secondary-swithover-time?               uint32
|           |  +--ro lsp-frr-hold-time?                              uint32
|           +--ro show-mpls-lsp-backup-info
|              +--ro lsp-backups [lsp-backup-name]
|                 +--ro lsp-backup-from-address?   inet:ipv4-address
|                 +--ro lsp-backup-to-address?     inet:ipv4-address
|                 +--ro lsp-backup-name            string
|                 +--ro lsp-backup-type-ingress?   boolean
|                 +--ro lsp-backup-type-transit?   boolean
|                 +--ro lsp-backup-is-active?      boolean
+---x show-mpls-bypass-lsp-name-extensive
|  +--ro input
|  |  +--ro show-lsp-input-info
|  |     +--ro lsp?                                string
|  |     +--ro lsp-wide?                           boolean
|  |     +--ro lsp-detail?                         boolean
|  |     +--ro lsp-extensive?                      boolean
|  |     +--ro lsp-debug?                          boolean
|  |     +--ro lsp-name?                           string
|  |     +--ro lsp-name-extensive?                 boolean
|  |     +--ro lsp-name-debug?                     boolean
|  |     +--ro bypass-lsp?                         string
|  |     +--ro bypass-lsp-wide?                    boolean
|  |     +--ro bypass-lsp-detail?                  boolean
|  |     +--ro bypass-lsp-extensive?               boolean
|  |     +--ro bypass-lsp-debug?                   boolean
|  |     +--ro bypass-lsp-name?                    string
|  |     +--ro bypass-lsp-name-extensive?          boolean
|  |     +--ro bypass-lsp-name-debug?              boolean
|  |     +--ro bypass-lsp-static?                  string
|  |     +--ro bypass-lsp-static-wide?             boolean
|  |     +--ro bypass-lsp-static-detail?           boolean
|  |     +--ro bypass-lsp-static-extensive?        boolean
|  |     +--ro bypass-lsp-static-debug?            boolean
|  |     +--ro bypass-lsp-static-name?             string
|  |     +--ro bypass-lsp-static-name-extensive?   boolean
|  |     +--ro bypass-lsp-static-name-debug?       boolean
|  |     +--ro bypass-lsp-dynamic?                 string
|  |     +--ro bypass-lsp-dynamic-wide?            boolean
|  |     +--ro bypass-lsp-dynamic-detail?          boolean
|  |     +--ro bypass-lsp-dynamic-extensive?       boolean
|  |     +--ro bypass-lsp-dynamic-debug?           boolean
|  |     +--ro bypass-lsp-dynamic-name?            string
|  |     +--ro bypass-lsp-dynamic-name-extensive?  boolean
|  |     +--ro bypass-lsp-dynamic-name-debug?      boolean
|  |     +--ro lsp-input-lsp-name?                 string
|  |     +--ro lsp-input-bypass?                   boolean
|  |     +--ro lsp-input-dynamic?                  boolean
|  |     +--ro lsp-input-brief?                    boolean
|  |     +--ro lsp-input-wide?                     boolean
|  |     +--ro lsp-input-detail?                   boolean
|  |     +--ro lsp-input-extensive?                boolean
|  |     +--ro lsp-input-debug?                    boolean
|  |     +--ro lsp-input-one?                      boolean
|  |     +--ro lsp-input-all?                      boolean
|  |     +--ro lsp-input-more?                     boolean
|  +--ro output
|     +--ro bypass-lsp
|        +--ro show-mpls-lsp-extensive-info
|           +--ro show-mpls-lsp-basic-info
|           |  +--ro lsp-name?                string
```

```
|           |  +--ro lsp-type-bypass?          boolean
|           |  +--ro lsp-type-dynamic?         boolean
|           |  +--ro lsp-from-address?         inet:ipv4-address
|           |  +--ro lsp-to-address?           inet:ipv4-address
|           |  +--ro lsp-tunnel-id?            uint32
|           |  +--ro lsp-lsp-id?               uint32
|           |  +--ro lsp-admin-up?             boolean
|           |  +--ro lsp-operational-up?       boolean
|           |  +--ro lsp-is-active?            boolean
|           |  +--ro lsp-path-name?            string
|           |  +--ro lsp-out-label?            uint32
|           |  +--ro lsp-out-interface-name?   string
|           +--ro show-mpls-lsp-common-info
|           |  +--ro lsp-config-admin-up?                          boolean
|           |  +--ro lsp-config-from-address?                      inet:ipv4-address
|           |  +--ro lsp-config-to-address?                        inet:ipv4-address
|           |  +--ro lsp-config-type-bypass?                       boolean
|           |  +--ro lsp-config-type-dynamic?                      boolean
|           |  +--ro lsp-config-adaptive?                          boolean
|           |  +--ro lsp-config-ospf-area?                         inet:ipv4-address
|           |  +--ro lsp-config-isis-level?                        uint32
|           |  +--ro lsp-config-number-of-retries-configured?      boolean
|           |  +--ro lsp-config-number-of-retries?                 uint32
|           |  +--ro lsp-config-path-select-mode-configured?       boolean
|           |  +--ro lsp-config-path-select-mode-manual?           boolean
|           |  +--ro lsp-config-path-select-mode-unconditional?    boolean
|           |  +--ro lsp-config-path-select-primary?               boolean
|           |  +--ro lsp-config-path-select-secondary?             boolean
|           |  +--ro lsp-config-shortcut-ospf?                     boolean
|           |  +--ro lsp-config-shortcut-area-configured?          boolean
|           |  +--ro lsp-config-shortcut-area?                     inet:ipv4-address
|           |  +--ro lsp-config-notify-ospf?                       boolean
|           |  +--ro lsp-config-shortcut-isis?                     boolean
|           |  +--ro lsp-config-shortcut-isis-level-configured?    boolean
|           |  +--ro lsp-config-isis-shortcut-level?               uint8
|           |  +--ro lsp-config-notify-isis?                       boolean
|           |  +--ro lsp-config-metric-configured?                 boolean
|           |  +--ro lsp-config-metric?                            uint32
|           |  +--ro lsp-config-ospf-ignore-metric?                boolean
|           |  +--ro lsp-config-ospf-relative-metric?              uint32
|           |  +--ro lsp-config-ospf-announce-metric?              uint32
|           |  +--ro lsp-config-ospf-aaf?                          uint32
|           |  +--ro lsp-config-isis-ignore-metric?                boolean
|           |  +--ro lsp-config-isis-relative-metric?              uint32
|           |  +--ro lsp-config-isis-announce-configured?          boolean
|           |  +--ro lsp-config-isis-announce-metric?              uint32
|           |  +--ro lsp-config-frr-configured?                    boolean
|           |  +--ro lsp-config-frr-one-to-one?                    boolean
|           |  +--ro lsp-config-frr-one-to-many?                   boolean
|           |  +--ro lsp-config-frr-priority-configured?           boolean
|           |  +--ro lsp-config-frr-setup-priority?                uint8
|           |  +--ro lsp-config-frr-holding-priority?              uint8
|           |  +--ro lsp-config-frr-hop-limit-configured?          boolean
|           |  +--ro lsp-config-frr-hop-limit?                     uint8
|           |  +--ro lsp-config-frr-bandwidth-configured?          boolean
|           |  +--ro lsp-config-frr-bandwidth?                     uint32
|           |  +--ro lsp-config-frr-admin-group-configured?        boolean
|           |  +--ro lsp-config-frr-admin-groups
|           |  |  +--ro lsp-admin-group
|           |  |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |  |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |  |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |  |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |  +--ro lsp-config-exclude-interface-configured?     boolean
|           |  +--ro lsp-config-exclude-interfaces [interface-name]
|           |     +--ro interface-name    string
|           +--ro show-mpls-lsp-instances-info
|           |  +--ro lsp-instances [lsp-instance-number]
|           |     +--ro lsp-instance-number                              uint32
|           |     +--ro lsp-current-instance?                            boolean
```

```
|           |     +--ro lsp-new-instance?                                        boolean
|           |     +--ro lsp-old-instance?                                        boolean
|           |     +--ro lsp-is-primary?                                          boolean
|           |     +--ro lsp-is-current-secondary?                                boolean
|           |     +--ro lsp-is-selected-secondary?                               boolean
|           |     +--ro lsp-config-path-configured?                              boolean
|           |     +--ro lsp-config-path?                                         string
|           |     +--ro lsp-config-reoptimize-timer-configured?                  boolean
|           |     +--ro lsp-config-reoptimize-timer?                             uint32
|           |     +--ro lsp-config-tspec-mtu-configured?                         boolean
|           |     +--ro lsp-config-tspec-mtu?                                    uint32
|           |     +--ro lsp-config-cos-configured?                               boolean
|           |     +--ro lsp-config-cos?                                          uint8
|           |     +--ro lsp-config-mtu-configured?                               boolean
|           |     +--ro lsp-config-mtu?                                          uint32
|           |     +--ro lsp-config-tie-breaking-configured?                      boolean
|           |     +--ro lsp-config-tie-break-random?                             boolean
|           |     +--ro lsp-config-tie-break-least-fill?                         boolean
|           |     +--ro lsp-config-tie-break-most-fill?                          boolean
|           |     +--ro lsp-config-cspf-disabled?                                boolean
|           |     +--ro lsp-config-hot-standby?                                  boolean
|           |     +--ro lsp-config-pinned?                                       boolean
|           |     +--ro lsp-config-persistenct?                                  boolean
|           |     +--ro lsp-config-frr-global-revertive?                         boolean
|           |     +--ro lsp-config-frr-hold-time?                                boolean
|           |     +--ro lsp-config-soft-prempt?                                  boolean
|           |     +--ro lsp-config-exclude-interface-change?                     boolean
|           |     +--ro lsp-config-prority-configured?                           boolean
|           |     +--ro lsp-config-setup-prority?                                uint8
|           |     +--ro lsp-config-holding-prority?                              uint8
|           |     +--ro lsp-config-hop-limit-configured?                         boolean
|           |     +--ro lsp-config-hop-limit?                                    uint8
|           |     +--ro lsp-config-traffic-eng-rate-configured?                  boolean
|           |     +--ro lsp-config-traffic-eng-mean-rate?                        uint32
|           |     +--ro lsp-config-traffic-eng-max-rate?                         uint32
|           |     +--ro lsp-config-traffic-eng-max-burst?                        uint32
|           |     +--ro lsp-config-admin-group-configured?                       boolean
|           |     +--ro lsp-config-admin-groups
|           |     |  +--ro lsp-admin-group
|           |     |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |     |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |     |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |     |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |     +--ro lsp-path-computed-by-cspf?                               boolean
|           |     +--ro lsp-path-computed-by-interface-constraint?               boolean
|           |     +--ro lsp-cspf-computation-mode-default?                        boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-metric?             boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-liberal?            boolean
|           |     +--ro lsp-cspf-group-computation-mode-default?                 boolean
|           |     +--ro lsp-cspf-group-computation-mode-add-penalty?             boolean
|           |     +--ro lsp-cspf-group-computation-mode-exclude-groups?          boolean
|           |     +--ro lsp-cspf-group-computation-mode-high-cost?               boolean
|           |     +--ro lsp-cspf-path-cost?                                      uint32
|           |     +--ro lsp-cspf-path-area?                                      inet:ipv4-address
|           |     +--ro lsp-cspf-computation-error?                              uint32
|           |     +--ro lsp-cspf-path-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                     inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                 boolean
|           |     |        +--ro lsp-hop-loose-hop?                  boolean
|           |     |        +--ro lsp-hop-is-router-id?               boolean
|           |     |        +--ro lsp-hop-has-protection?             boolean
|           |     |        +--ro lsp-hop-has-node-protection?        boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?   boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?      boolean
|           |     |        +--ro lsp-hop-avoid-node?                 boolean
|           |     |        +--ro lsp-hop-avoid-local?                boolean
|           |     |        +--ro lsp-hop-avoid-remote?               boolean
|           |     +--ro lsp-cspf-exclude-hops-present?                     boolean
```

```
|           |     +--ro lsp-cspf-exclude-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                    inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                boolean
|           |     |        +--ro lsp-hop-loose-hop?                 boolean
|           |     |        +--ro lsp-hop-is-router-id?              boolean
|           |     |        +--ro lsp-hop-has-protection?            boolean
|           |     |        +--ro lsp-hop-has-node-protection?       boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?  boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?     boolean
|           |     |        +--ro lsp-hop-avoid-node?                boolean
|           |     |        +--ro lsp-hop-avoid-local?               boolean
|           |     |        +--ro lsp-hop-avoid-remote?              boolean
|           |     +--ro lsp-rsvp-session-present?                        boolean
|           |     +--ro lsp-rsvp-session-state-up?                       boolean
|           |     +--ro lsp-rsvp-session-state?                          uint8
|           |     +--ro lsp-rsvp-session-path-error-code?                uint32
|           |     +--ro lsp-rsvp-session-path-error-value?               uint32
|           |     +--ro lsp-rsvp-session-path-error-node-address?        inet:ipv4-address
|           |     +--ro lsp-rsvp-session-rro-hops-present?               boolean
|           |     +--ro lsp-rsvp-session-rro-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                    inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                boolean
|           |     |        +--ro lsp-hop-loose-hop?                 boolean
|           |     |        +--ro lsp-hop-is-router-id?              boolean
|           |     |        +--ro lsp-hop-has-protection?            boolean
|           |     |        +--ro lsp-hop-has-node-protection?       boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?  boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?     boolean
|           |     |        +--ro lsp-hop-avoid-node?                boolean
|           |     |        +--ro lsp-hop-avoid-local?               boolean
|           |     |        +--ro lsp-hop-avoid-remote?              boolean
|           |     +--ro lsp-maximum-bandwidth?                           uint32
|           |     +--ro lsp-unreserved-priority-0-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-1-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-2-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-3-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-4-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-5-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-6-bandwidth?             uint32
|           |     +--ro lsp-unreserved-priority-7-bandwidth?             uint32
|           +--ro show-mpls-lsp-forwarding-info
|           |  +--ro lsp-forwarding-primary-active?     boolean
|           |  +--ro lsp-forwarding-primary-up?         boolean
|           |  +--ro lsp-forwarding-secondary-active?   boolean
|           |  +--ro lsp-forwarding-secondary-up?       boolean
|           |  +--ro lsp-forwarding-frr-active?         boolean
|           |  +--ro lsp-forwarding-frr-up?             boolean
|           |  +--ro lsp-forwarding-out-port-id?        uint32
|           |  +--ro lsp-forwarding-out-port-name?      string
|           |  +--ro lsp-forwarding-out-label?          uint32
|           +--ro show-mpls-lsp-sec-path-info
|           |  +--ro sec-path [lsp-sec-path-path-name]
|           |     +--ro lsp-sec-path-path-name                              string
|           |     +--ro lsp-sec-path-state?                                 uint8
|           |     +--ro lsp-sec-path-state-up?                              boolean
|           |     +--ro lsp-sec-path-active?                                boolean
|           |     +--ro lsp-sec-path-is-current-secondary?                  boolean
|           |     +--ro lsp-sec-path-is-selected-secondary?                 boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer-configured?    boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer?               uint32
|           |     +--ro lsp-sec-path-config-tspec-mtu-configured?           boolean
|           |     +--ro lsp-sec-path-sec-path-config-tspec-mtu?             uint32
|           |     +--ro lsp-sec-path-config-cos-configured?                 boolean
|           |     +--ro lsp-sec-path-config-cos?                            uint8
|           |     +--ro lsp-sec-path-config-mtu-configured?                 boolean
|           |     +--ro lsp-sec-path-config-mtu?                            uint32
|           |     +--ro lsp-sec-path-config-tie-breaking-configured?        boolean
|           |     +--ro lsp-sec-path-config-tie-break-random?               boolean
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|           |     +--ro lsp-sec-path-config-tie-break-least-fill?          boolean
|           |     +--ro lsp-sec-path-config-tie-break-most-fill?           boolean
|           |     +--ro lsp-sec-path-config-cspf-disabled?                 boolean
|           |     +--ro lsp-sec-path-config-hot-standby?                   boolean
|           |     +--ro lsp-sec-path-config-pinned?                        boolean
|           |     +--ro lsp-sec-path-config-persistent?                    boolean
|           |     +--ro lsp-sec-path-config-soft-prempt?                   boolean
|           |     +--ro lsp-sec-path-config-priority-configured?           boolean
|           |     +--ro lsp-sec-path-config-setup-prority?                 uint8
|           |     +--ro lsp-sec-path-config-holding-prority?               uint8
|           |     +--ro lsp-sec-path-config-hop-limit-configured?          boolean
|           |     +--ro lsp-sec-path-config-hop-limit?                     uint8
|           |     +--ro lsp-sec-path-config-traffic-eng-rate-configured?   boolean
|           |     +--ro lsp-sec-path-config-traffic-eng-mean-rate?         uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-rate?          uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-burst?         uint32
|           |     +--ro lsp-sec-path-config-admin-group-configured?        boolean
|           |     +--ro lsp-sec-path-config-admin-groups
|           |        +--ro lsp-admin-group
|           |           +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |           |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |           |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |              +--ro lsp-admin-group-include-all-group-id    uint32
|           +--ro show-mpls-lsp-frr-info
|           |  +--ro lsp-frr-operational-status?                      boolean
|           |  +--ro lsp-frr-operational-status-active?               boolean
|           |  +--ro lsp-frr-down-reason?                             string
|           |  +--ro lsp-frr-computation-mode-default?                boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-metric?      boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-liberal?     boolean
|           |  +--ro lsp-frr-group-computation-mode-default?          boolean
|           |  +--ro lsp-frr-group-computation-mode-add-penalty?      boolean
|           |  +--ro lsp-frr-group-computation-mode-exclude-groups?   boolean
|           |  +--ro lsp-frr-group-computation-mode-high-cost?        boolean
|           |  +--ro lsp-frr-out-port-id?                             uint32
|           |  +--ro lsp-frr-out-port-name?                           string
|           |  +--ro lsp-frr-out-label?                               uint32
|           |  +--ro lsp-frr-path-cost?                               uint32
|           |  +--ro lsp-frr-bypass-name?                             string
|           |  +--ro lsp-frr-forwarding-protected-up?                 boolean
|           |  +--ro lsp-frr-secondary-swithover-time?                uint32
|           |  +--ro lsp-frr-hold-time?                               uint32
|           +--ro show-mpls-lsp-backup-info
|           |  +--ro lsp-backups [lsp-backup-name]
|           |     +--ro lsp-backup-from-address?   inet:ipv4-address
|           |     +--ro lsp-backup-to-address?     inet:ipv4-address
|           |     +--ro lsp-backup-name            string
|           |     +--ro lsp-backup-type-ingress?   boolean
|           |     +--ro lsp-backup-type-transit?   boolean
|           |     +--ro lsp-backup-is-active?      boolean
|           +--ro show-mpls-lsp-history-info
|              +--ro lsp-history?   string
+---x show-mpls-bypass-lsp-name-debug
|  +--ro input
|  |  +--ro show-lsp-input-info
|  |     +--ro lsp?                                string
|  |     +--ro lsp-wide?                           boolean
|  |     +--ro lsp-detail?                         boolean
|  |     +--ro lsp-extensive?                      boolean
|  |     +--ro lsp-debug?                          boolean
|  |     +--ro lsp-name?                           string
|  |     +--ro lsp-name-extensive?                 boolean
|  |     +--ro lsp-name-debug?                     boolean
|  |     +--ro bypass-lsp?                         string
|  |     +--ro bypass-lsp-wide?                    boolean
|  |     +--ro bypass-lsp-detail?                  boolean
|  |     +--ro bypass-lsp-extensive?               boolean
|  |     +--ro bypass-lsp-debug?                   boolean
|  |     +--ro bypass-lsp-name?                    string
|  |     +--ro bypass-lsp-name-extensive?          boolean
```

```
|  |     +--ro bypass-lsp-name-debug?               boolean
|  |     +--ro bypass-lsp-static?                   string
|  |     +--ro bypass-lsp-static-wide?              boolean
|  |     +--ro bypass-lsp-static-detail?            boolean
|  |     +--ro bypass-lsp-static-extensive?         boolean
|  |     +--ro bypass-lsp-static-debug?             boolean
|  |     +--ro bypass-lsp-static-name?              string
|  |     +--ro bypass-lsp-static-name-extensive?    boolean
|  |     +--ro bypass-lsp-static-name-debug?        boolean
|  |     +--ro bypass-lsp-dynamic?                  string
|  |     +--ro bypass-lsp-dynamic-wide?             boolean
|  |     +--ro bypass-lsp-dynamic-detail?           boolean
|  |     +--ro bypass-lsp-dynamic-extensive?        boolean
|  |     +--ro bypass-lsp-dynamic-debug?            boolean
|  |     +--ro bypass-lsp-dynamic-name?             string
|  |     +--ro bypass-lsp-dynamic-name-extensive?   boolean
|  |     +--ro bypass-lsp-dynamic-name-debug?       boolean
|  |     +--ro lsp-input-lsp-name?                  string
|  |     +--ro lsp-input-bypass?                    boolean
|  |     +--ro lsp-input-dynamic?                   boolean
|  |     +--ro lsp-input-brief?                     boolean
|  |     +--ro lsp-input-wide?                      boolean
|  |     +--ro lsp-input-detail?                    boolean
|  |     +--ro lsp-input-extensive?                 boolean
|  |     +--ro lsp-input-debug?                     boolean
|  |     +--ro lsp-input-one?                       boolean
|  |     +--ro lsp-input-all?                       boolean
|  |     +--ro lsp-input-more?                      boolean
|  +--ro output
|     +--ro bypass-lsp
|        +--ro show-mpls-lsp-extensive-info
|           +--ro show-mpls-lsp-basic-info
|           |  +--ro lsp-name?                 string
|           |  +--ro lsp-type-bypass?          boolean
|           |  +--ro lsp-type-dynamic?         boolean
|           |  +--ro lsp-from-address?         inet:ipv4-address
|           |  +--ro lsp-to-address?           inet:ipv4-address
|           |  +--ro lsp-tunnel-id?            uint32
|           |  +--ro lsp-lsp-id?               uint32
|           |  +--ro lsp-admin-up?             boolean
|           |  +--ro lsp-operational-up?       boolean
|           |  +--ro lsp-is-active?            boolean
|           |  +--ro lsp-path-name?            string
|           |  +--ro lsp-out-label?            uint32
|           |  +--ro lsp-out-interface-name?   string
|           +--ro show-mpls-lsp-common-info
|           |  +--ro lsp-config-admin-up?                        boolean
|           |  +--ro lsp-config-from-address?                    inet:ipv4-address
|           |  +--ro lsp-config-to-address?                      inet:ipv4-address
|           |  +--ro lsp-config-type-bypass?                     boolean
|           |  +--ro lsp-config-type-dynamic?                    boolean
|           |  +--ro lsp-config-adaptive?                        boolean
|           |  +--ro lsp-config-ospf-area?                       inet:ipv4-address
|           |  +--ro lsp-config-isis-level?                      uint32
|           |  +--ro lsp-config-number-of-retries-configured?    boolean
|           |  +--ro lsp-config-number-of-retries?               uint32
|           |  +--ro lsp-config-path-select-mode-configured?     boolean
|           |  +--ro lsp-config-path-select-mode-manual?         boolean
|           |  +--ro lsp-config-path-select-mode-unconditional?  boolean
|           |  +--ro lsp-config-path-select-primary?             boolean
|           |  +--ro lsp-config-path-select-secondary?           boolean
|           |  +--ro lsp-config-shortcut-ospf?                   boolean
|           |  +--ro lsp-config-shortcut-area-configured?        boolean
|           |  +--ro lsp-config-shortcut-area?                   inet:ipv4-address
|           |  +--ro lsp-config-notify-ospf?                     boolean
|           |  +--ro lsp-config-shortcut-isis?                   boolean
|           |  +--ro lsp-config-shortcut-isis-level-configured?  boolean
|           |  +--ro lsp-config-isis-shortcut-level?             uint8
|           |  +--ro lsp-config-notify-isis?                     boolean
|           |  +--ro lsp-config-metric-configured?               boolean
|           |  +--ro lsp-config-metric?                          uint32
|           |  +--ro lsp-config-ospf-ignore-metric?              boolean
```

```
|           |  +--ro lsp-config-ospf-relative-metric?            uint32
|           |  +--ro lsp-config-ospf-announce-metric?            uint32
|           |  +--ro lsp-config-ospf-aaf?                        uint32
|           |  +--ro lsp-config-isis-ignore-metric?              boolean
|           |  +--ro lsp-config-isis-relative-metric?            uint32
|           |  +--ro lsp-config-isis-announce-configured?        boolean
|           |  +--ro lsp-config-isis-announce-metric?            uint32
|           |  +--ro lsp-config-frr-configured?                  boolean
|           |  +--ro lsp-config-frr-one-to-one?                  boolean
|           |  +--ro lsp-config-frr-one-to-many?                 boolean
|           |  +--ro lsp-config-frr-priority-configured?         boolean
|           |  +--ro lsp-config-frr-setup-priority?              uint8
|           |  +--ro lsp-config-frr-holding-priority?            uint8
|           |  +--ro lsp-config-frr-hop-limit-configured?        boolean
|           |  +--ro lsp-config-frr-hop-limit?                   uint8
|           |  +--ro lsp-config-frr-bandwidth-configured?        boolean
|           |  +--ro lsp-config-frr-bandwidth?                   uint32
|           |  +--ro lsp-config-frr-admin-group-configured?      boolean
|           |  +--ro lsp-config-frr-admin-groups
|           |  |  +--ro lsp-admin-group
|           |  |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |  |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |  |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |  |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |  |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |  +--ro lsp-config-exclude-interface-configured?    boolean
|           |  +--ro lsp-config-exclude-interfaces [interface-name]
|           |     +--ro interface-name    string
|           +--ro show-mpls-lsp-instances-info
|           |  +--ro lsp-instances [lsp-instance-number]
|           |     +--ro lsp-instance-number                                  uint32
|           |     +--ro lsp-current-instance?                                boolean
|           |     +--ro lsp-new-instance?                                    boolean
|           |     +--ro lsp-old-instance?                                    boolean
|           |     +--ro lsp-is-primary?                                      boolean
|           |     +--ro lsp-is-current-secondary?                            boolean
|           |     +--ro lsp-is-selected-secondary?                           boolean
|           |     +--ro lsp-config-path-configured?                          boolean
|           |     +--ro lsp-config-path?                                     string
|           |     +--ro lsp-config-reoptimize-timer-configured?              boolean
|           |     +--ro lsp-config-reoptimize-timer?                         uint32
|           |     +--ro lsp-config-tspec-mtu-configured?                     boolean
|           |     +--ro lsp-config-tspec-mtu?                                uint32
|           |     +--ro lsp-config-cos-configured?                           boolean
|           |     +--ro lsp-config-cos?                                      uint8
|           |     +--ro lsp-config-mtu-configured?                           boolean
|           |     +--ro lsp-config-mtu?                                      uint32
|           |     +--ro lsp-config-tie-breaking-configured?                  boolean
|           |     +--ro lsp-config-tie-break-random?                         boolean
|           |     +--ro lsp-config-tie-break-least-fill?                     boolean
|           |     +--ro lsp-config-tie-break-most-fill?                      boolean
|           |     +--ro lsp-config-cspf-disabled?                            boolean
|           |     +--ro lsp-config-hot-standby?                              boolean
|           |     +--ro lsp-config-pinned?                                   boolean
|           |     +--ro lsp-config-persistenct?                              boolean
|           |     +--ro lsp-config-frr-global-revertive?                     boolean
|           |     +--ro lsp-config-frr-hold-time?                            boolean
|           |     +--ro lsp-config-soft-prempt?                              boolean
|           |     +--ro lsp-config-exclude-interface-change?                 boolean
|           |     +--ro lsp-config-prority-configured?                       boolean
|           |     +--ro lsp-config-setup-prority?                            uint8
|           |     +--ro lsp-config-holding-prority?                          uint8
|           |     +--ro lsp-config-hop-limit-configured?                     boolean
|           |     +--ro lsp-config-hop-limit?                                uint8
|           |     +--ro lsp-config-traffic-eng-rate-configured?              boolean
|           |     +--ro lsp-config-traffic-eng-mean-rate?                    uint32
|           |     +--ro lsp-config-traffic-eng-max-rate?                     uint32
|           |     +--ro lsp-config-traffic-eng-max-burst?                    uint32
|           |     +--ro lsp-config-admin-group-configured?                   boolean
|           |     +--ro lsp-config-admin-groups
|           |     |  +--ro lsp-admin-group
```

```
|           |     |     +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |     |     |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |     |     |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |     |     +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |     |        +--ro lsp-admin-group-include-all-group-id    uint32
|           |     +--ro lsp-path-computed-by-cspf?                         boolean
|           |     +--ro lsp-path-computed-by-interface-constraint?         boolean
|           |     +--ro lsp-cspf-computation-mode-default?                  boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-metric?       boolean
|           |     +--ro lsp-cspf-computation-mode-use-bypass-liberal?      boolean
|           |     +--ro lsp-cspf-group-computation-mode-default?           boolean
|           |     +--ro lsp-cspf-group-computation-mode-add-penalty?       boolean
|           |     +--ro lsp-cspf-group-computation-mode-exclude-groups?    boolean
|           |     +--ro lsp-cspf-group-computation-mode-high-cost?         boolean
|           |     +--ro lsp-cspf-path-cost?                                uint32
|           |     +--ro lsp-cspf-path-area?                                inet:ipv4-address
|           |     +--ro lsp-cspf-computation-error?                        uint32
|           |     +--ro lsp-cspf-path-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                    inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                boolean
|           |     |        +--ro lsp-hop-loose-hop?                 boolean
|           |     |        +--ro lsp-hop-is-router-id?              boolean
|           |     |        +--ro lsp-hop-has-protection?            boolean
|           |     |        +--ro lsp-hop-has-node-protection?       boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?  boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?     boolean
|           |     |        +--ro lsp-hop-avoid-node?                boolean
|           |     |        +--ro lsp-hop-avoid-local?               boolean
|           |     |        +--ro lsp-hop-avoid-remote?              boolean
|           |     +--ro lsp-cspf-exclude-hops-present?                     boolean
|           |     +--ro lsp-cspf-exclude-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                    inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                boolean
|           |     |        +--ro lsp-hop-loose-hop?                 boolean
|           |     |        +--ro lsp-hop-is-router-id?              boolean
|           |     |        +--ro lsp-hop-has-protection?            boolean
|           |     |        +--ro lsp-hop-has-node-protection?       boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?  boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?     boolean
|           |     |        +--ro lsp-hop-avoid-node?                boolean
|           |     |        +--ro lsp-hop-avoid-local?               boolean
|           |     |        +--ro lsp-hop-avoid-remote?              boolean
|           |     +--ro lsp-rsvp-session-present?                          boolean
|           |     +--ro lsp-rsvp-session-state-up?                         boolean
|           |     +--ro lsp-rsvp-session-state?                            uint8
|           |     +--ro lsp-rsvp-session-path-error-code?                  uint32
|           |     +--ro lsp-rsvp-session-path-error-value?                 uint32
|           |     +--ro lsp-rsvp-session-path-error-node-address?          inet:ipv4-address
|           |     +--ro lsp-rsvp-session-rro-hops-present?                 boolean
|           |     +--ro lsp-rsvp-session-rro-hops
|           |     |  +--ro show-mpls-lsp-hop-list
|           |     |     +--ro hop [lsp-hop-address]
|           |     |        +--ro lsp-hop-address                    inet:ipv4-address
|           |     |        +--ro lsp-hop-strict-hop?                boolean
|           |     |        +--ro lsp-hop-loose-hop?                 boolean
|           |     |        +--ro lsp-hop-is-router-id?              boolean
|           |     |        +--ro lsp-hop-has-protection?            boolean
|           |     |        +--ro lsp-hop-has-node-protection?       boolean
|           |     |        +--ro lsp-hop-has-bandwidth-protection?  boolean
|           |     |        +--ro lsp-hop-has-protection-in-use?     boolean
|           |     |        +--ro lsp-hop-avoid-node?                boolean
|           |     |        +--ro lsp-hop-avoid-local?               boolean
|           |     |        +--ro lsp-hop-avoid-remote?              boolean
|           |     +--ro lsp-maximum-bandwidth?                             uint32
|           |     +--ro lsp-unreserved-priority-0-bandwidth?               uint32
|           |     +--ro lsp-unreserved-priority-1-bandwidth?               uint32
|           |     +--ro lsp-unreserved-priority-2-bandwidth?               uint32
```

```
|           |     +--ro lsp-unreserved-priority-3-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-4-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-5-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-6-bandwidth?              uint32
|           |     +--ro lsp-unreserved-priority-7-bandwidth?              uint32
|           +--ro show-mpls-lsp-forwarding-info
|           |  +--ro lsp-forwarding-primary-active?     boolean
|           |  +--ro lsp-forwarding-primary-up?         boolean
|           |  +--ro lsp-forwarding-secondary-active?   boolean
|           |  +--ro lsp-forwarding-secondary-up?       boolean
|           |  +--ro lsp-forwarding-frr-active?         boolean
|           |  +--ro lsp-forwarding-frr-up?             boolean
|           |  +--ro lsp-forwarding-out-port-id?        uint32
|           |  +--ro lsp-forwarding-out-port-name?      string
|           |  +--ro lsp-forwarding-out-label?          uint32
|           +--ro show-mpls-lsp-sec-path-info
|           |  +--ro sec-path [lsp-sec-path-path-name]
|           |     +--ro lsp-sec-path-path-name                               string
|           |     +--ro lsp-sec-path-state?                                  uint8
|           |     +--ro lsp-sec-path-state-up?                               boolean
|           |     +--ro lsp-sec-path-active?                                 boolean
|           |     +--ro lsp-sec-path-is-current-secondary?                   boolean
|           |     +--ro lsp-sec-path-is-selected-secondary?                  boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer-configured?     boolean
|           |     +--ro lsp-sec-path-config-reoptimize-timer?                uint32
|           |     +--ro lsp-sec-path-config-tspec-mtu-configured?            boolean
|           |     +--ro lsp-sec-path-sec-path-config-tspec-mtu?              uint32
|           |     +--ro lsp-sec-path-config-cos-configured?                  boolean
|           |     +--ro lsp-sec-path-config-cos?                             uint8
|           |     +--ro lsp-sec-path-config-mtu-configured?                  boolean
|           |     +--ro lsp-sec-path-config-mtu?                             uint32
|           |     +--ro lsp-sec-path-config-tie-breaking-configured?         boolean
|           |     +--ro lsp-sec-path-config-tie-break-random?                boolean
|           |     +--ro lsp-sec-path-config-tie-break-least-fill?            boolean
|           |     +--ro lsp-sec-path-config-tie-break-most-fill?             boolean
|           |     +--ro lsp-sec-path-config-cspf-disabled?                   boolean
|           |     +--ro lsp-sec-path-config-hot-standby?                     boolean
|           |     +--ro lsp-sec-path-config-pinned?                          boolean
|           |     +--ro lsp-sec-path-config-persistent?                      boolean
|           |     +--ro lsp-sec-path-config-soft-prempt?                     boolean
|           |     +--ro lsp-sec-path-config-priority-configured?             boolean
|           |     +--ro lsp-sec-path-config-setup-prority?                   uint8
|           |     +--ro lsp-sec-path-config-holding-prority?                 uint8
|           |     +--ro lsp-sec-path-config-hop-limit-configured?            boolean
|           |     +--ro lsp-sec-path-config-hop-limit?                       uint8
|           |     +--ro lsp-sec-path-config-traffic-eng-rate-configured?     boolean
|           |     +--ro lsp-sec-path-config-traffic-eng-mean-rate?           uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-rate?            uint32
|           |     +--ro lsp-sec-path-config-traffic-eng-max-burst?           uint32
|           |     +--ro lsp-sec-path-config-admin-group-configured?          boolean
|           |     +--ro lsp-sec-path-config-admin-groups
|           |        +--ro lsp-admin-group
|           |           +--ro lsp-admin-group-exclude-any [lsp-admin-group-exclude-any-group-id]
|           |           |  +--ro lsp-admin-group-exclude-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-any [lsp-admin-group-include-any-group-id]
|           |           |  +--ro lsp-admin-group-include-any-group-id    uint32
|           |           +--ro lsp-admin-group-include-all [lsp-admin-group-include-all-group-id]
|           |              +--ro lsp-admin-group-include-all-group-id    uint32
|           +--ro show-mpls-lsp-frr-info
|           |  +--ro lsp-frr-operational-status?                      boolean
|           |  +--ro lsp-frr-operational-status-active?               boolean
|           |  +--ro lsp-frr-down-reason?                             string
|           |  +--ro lsp-frr-computation-mode-default?                boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-metric?      boolean
|           |  +--ro lsp-frr-computation-mode-use-bypass-liberal?     boolean
|           |  +--ro lsp-frr-group-computation-mode-default?          boolean
|           |  +--ro lsp-frr-group-computation-mode-add-penalty?      boolean
|           |  +--ro lsp-frr-group-computation-mode-exclude-groups?   boolean
|           |  +--ro lsp-frr-group-computation-mode-high-cost?        boolean
|           |  +--ro lsp-frr-out-port-id?                             uint32
|           |  +--ro lsp-frr-out-port-name?                           string
|           |  +--ro lsp-frr-out-label?                               uint32
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|           |  +--ro lsp-frr-path-cost?                                uint32
|           |  +--ro lsp-frr-bypass-name?                              string
|           |  +--ro lsp-frr-forwarding-protected-up?                  boolean
|           |  +--ro lsp-frr-secondary-swithover-time?                 uint32
|           |  +--ro lsp-frr-hold-time?                                uint32
|           +--ro show-mpls-lsp-backup-info
|           |  +--ro lsp-backups [lsp-backup-name]
|           |     +--ro lsp-backup-from-address?   inet:ipv4-address
|           |     +--ro lsp-backup-to-address?     inet:ipv4-address
|           |     +--ro lsp-backup-name            string
|           |     +--ro lsp-backup-type-ingress?   boolean
|           |     +--ro lsp-backup-type-transit?   boolean
|           |     +--ro lsp-backup-is-active?      boolean
|           +--ro show-mpls-lsp-history-info
|              +--ro lsp-history?   string
+---x get-mpls-ldp-neighbor-brief
|  +--ro output
|     +--ro mpls-ldp-neighbor-brief
|        +--ro num-link-neighbors?       uint32
|        +--ro num-targeted-neighbors?   uint32
|        +--ro summary [neighbor-transport]
|           +--ro neighbor-transport    inet:ipv4-address
|           +--ro interface?            string
|           +--ro neighbor-ldp-id?      string
|           +--ro max-hold-time?        uint32
|           +--ro time-left?            uint32
+---x get-mpls-ldp-neighbor-detail
|  +--ro output
|     +--ro mpls-ldp-neighbor-detail
|        +--ro num-link-neighbors?       uint32
|        +--ro num-targeted-neighbors?   uint32
|        +--ro summary [neighbor-transport]
|           +--ro neighbor-transport             inet:ipv4-address
|           +--ro interface?                     string
|           +--ro neighbor-ldp-id?               string
|           +--ro max-hold-time?                 uint32
|           +--ro time-left?                     uint32
|           +--ro up-time?                       string
|           +--ro configured-hold-time?          uint32
|           +--ro neighbor-proposed-hold-time?   uint32
+---x get-mpls-ldp-neighbor-one
|  +--ro input
|  |  +--ro mpls-ldp-neighbor-one-input
|  |     +--ro ldpid?          inet:ipv4-address
|  |     +--ro labelspaceId?   uint8
|  +--ro output
|     +--ro mpls-ldp-neighbor-one
|        +--ro summary [neighbor-transport]
|           +--ro neighbor-transport             inet:ipv4-address
|           +--ro interface?                     string
|           +--ro neighbor-ldp-id?               string
|           +--ro max-hold-time?                 uint32
|           +--ro time-left?                     uint32
|           +--ro up-time?                       string
|           +--ro configured-hold-time?          uint32
|           +--ro neighbor-proposed-hold-time?   uint32
+---x show-mpls-bfd
|  +--ro output
|     +--ro admin-status?               boolean
|     +--ro min-tx-interval?            uint32
|     +--ro min-rx-interval?            uint32
|     +--ro detection-time-multiplier?   uint8
+---x show-mpls-ldp
|  +--ro output
|     +--ro ldp-initialized?                              boolean
|     +--ro lsr-id?                                       inet:ipv4-address
|     +--ro lsr-id-configured?                            boolean
|     +--ro loopback?                                     uint8
|     +--ro hello-interval-link?                          uint32
|     +--ro hello-interval-target?                        uint32
|     +--ro hold-time-sent-link?                          uint32
|     +--ro hold-time-sent-target?                        uint32
```

```
|     +--ro ka-interval?                                      uint32
|     +--ro ka-multiple?                                      uint32
|     +--ro ka-timeout?                                       uint32
|     +--ro ka-timeout-default?                               boolean
|     +--ro load-sharing?                                     uint8
|     +--ro advertise-fecs-for-prefix-list?                   string
|     +--ro advertise-fecs-for-prefix-list-exists?            boolean
|     +--ro inbound-fecs-filtering-prefix-list?               string
|     +--ro inbound-fecs-filtering-prefix-list-exists?        boolean
|     +--ro outbound-fecs-filtering-prefix-list?              string
|     +--ro outbound-fecs-filtering-prefix-list-exists?       boolean
|     +--ro tunnel-metric?                                    uint16
|     +--ro fec-128-used-for-auto-disc-current?               boolean
|     +--ro fec-128-used-for-auto-disc-configured?            boolean
|     +--ro end-of-lib?                                       boolean
|     +--ro eol-notification-time?                            uint32
|     +--ro tx-silence-time?                                  uint32
|     +--ro rx-silence-time?                                  uint32
|     +--ro gr-enable?                                        boolean
|     +--ro gr-helper?                                        boolean
|     +--ro gr-reconnect-time?                                uint32
|     +--ro gr-max-peer-reconnect-time?                       uint32
|     +--ro gr-recovery-time?                                 uint32
|     +--ro gr-max-peer-recovery-time?                        uint32
|     +--ro forwarding-state-timer-running?                   boolean
|     +--ro forwarding-state-timer-remaining?                 uint32
|     +--ro lwd-delay?                                        uint32
|     +--ro lwd-default?                                      boolean
+---x show-mpls-statistics-oam
|  +--ro output
|     +--ro mpls-stats-oam
|        +--ro usr_ping_count?         uint32
|        +--ro usr_traceroute_count?   uint32
|        +--ro req_sent?               uint32
|        +--ro req_recv?               uint32
|        +--ro req_timeout?            uint32
|        +--ro reply_sent?             uint32
|        +--ro reply_recv?             uint32
|        +--ro reply_rc
|           +--ro ret_code_name?       string
|           +--ro ret_code_num?        uint32
|           +--ro ret_code_count_tx?   uint32
|           +--ro ret_code_count_rx?   uint32
+---x get-mpls-ldp-session-brief
|  +--ro output
|     +--ro mpls-ldp-session-brief
|        +--ro num-link-sessions?                   uint32
|        +--ro num-operational-link-sessions?       uint32
|        +--ro num-targeted-sessions?               uint32
|        +--ro num-operational-targeted-sessions?   uint32
|        +--ro summary [peerLdpId]
|           +--ro peerLdpId    string
|           +--ro state?       string
|           +--ro adjacency?   string
|           +--ro role?        string
|           +--ro maxHold?     uint32
|           +--ro timeLeft?    uint32
+---x get-mpls-ldp-session-detail
|  +--ro output
|     +--ro mpls-ldp-session-detail
|        +--ro num-link-sessions?                   uint32
|        +--ro num-operational-link-sessions?       uint32
|        +--ro num-targeted-sessions?               uint32
|        +--ro num-operational-targeted-sessions?   uint32
|        +--ro summary [peerLdpId]
|           +--ro peerLdpId                            string
|           +--ro localLdpId?                          string
|           +--ro state?                               string
|           +--ro adjacency?                           string
|           +--ro role?                                string
|           +--ro nextKeepAlive?                       uint32
|           +--ro isRetry?                             boolean
```

```
|           +--ro nextRetry?                              uint32
|           +--ro maxHold?                                uint32
|           +--ro timeLeft?                               uint32
|           +--ro keepaliveInterval?                      uint32
|           +--ro localKeepaliveTimeout?                  uint32
|           +--ro peerProposedKeepaliveTimeout?           uint32
|           +--ro sessionUpTime?                          string
|           +--ro md5AuthKey?                             string
|           +--ro tcpConnLocal?                           string
|           +--ro tcpConnRemote?                          string
|           +--ro tcpState?                               string
|           +--ro numFecsReceivedFromPeer?                uint32
|           +--ro numFecsInstalledFromPeer?               uint32
|           +--ro isFecsPendingUninstall?                 boolean
|           +--ro numFecsFilteredOut?                     uint32
|           +--ro numFecsFilteredIn?                      uint32
|           +--ro outFilterPrefixList?                    string
|           +--ro outFilterPrefixListExists?              boolean
|           +--ro isOnlyGRValid?                          boolean
|           +--ro grEnabled?                              boolean
|           +--ro peerReconectTime?                       uint32
|           +--ro peerRecoveryTime?                       uint32
|           +--ro isInUse?                                boolean
|           +--ro reconnectOrRecovery?                    uint8
|           +--ro grTimeInUse?                            uint32
|           +--ro grTimeRemaining?                        uint32
|           +--ro grState?                                string
|           +--ro localEolUnrecognizedNotification?       boolean
|           +--ro remoteEolUnrecognizedNotification?      boolean
|           +--ro doesSessionSupportEol?                  boolean
|           +--ro localState?                             boolean
|           +--ro remoteState?                            boolean
|           +--ro eolNotificationTime?                    uint32
|           +--ro eolNotificationTimeRemaining?           uint32
|           +--ro eolTxLabelSilenceTime?                  uint32
|           +--ro eolTxLabelSilenceTimeRunning?           uint32
|           +--ro eolRxLabelSilenceTime?                  uint32
|           +--ro eolRxLabelSilenceTimeRunning?           uint32
|           +--ro interfaces [interface]
|           |  +--ro interface    string
|           +--ro addresses [address]
|              +--ro address    inet:ipv4-address
+---x get-mpls-ldp-session-one
|  +--ro input
|  |  +--ro mpls-ldp-session-one
|  |     +--ro ldpid?          inet:ipv4-address
|  |     +--ro labelspaceId?   uint8
|  |     +--ro debug?          boolean
|  |     +--ro out?            boolean
|  |     +--ro in?             boolean
|  +--ro output
|     +--ro mpls-ldp-session-one
|        +--ro peerLdpId?                           string
|        +--ro localLdpId?                          string
|        +--ro state?                               string
|        +--ro adjacency?                           string
|        +--ro role?                                string
|        +--ro nextKeepAlive?                       uint32
|        +--ro isRetry?                             boolean
|        +--ro nextRetry?                           uint32
|        +--ro maxHold?                             uint32
|        +--ro timeLeft?                            uint32
|        +--ro keepaliveInterval?                   uint32
|        +--ro localKeepaliveTimeout?               uint32
|        +--ro peerProposedKeepaliveTimeout?        uint32
|        +--ro sessionUpTime?                       string
|        +--ro md5AuthKey?                          string
|        +--ro tcpConnLocal?                        string
|        +--ro tcpConnRemote?                       string
|        +--ro tcpState?                            string
|        +--ro numFecsReceivedFromPeer?             uint32
|        +--ro numFecsInstalledFromPeer?            uint32
```

```
|        +--ro isFecsPendingUninstall?              boolean
|        +--ro numFecsFilteredOut?                  uint32
|        +--ro numFecsFilteredIn?                   uint32
|        +--ro outFilterPrefixList?                 string
|        +--ro outFilterPrefixListExists?           boolean
|        +--ro isOnlyGRValid?                       boolean
|        +--ro grEnabled?                           boolean
|        +--ro peerReconectTime?                    uint32
|        +--ro peerRecoveryTime?                    uint32
|        +--ro isInUse?                             boolean
|        +--ro reconnectOrRecovery?                 uint8
|        +--ro grTimeInUse?                         uint32
|        +--ro grTimeRemaining?                     uint32
|        +--ro grState?                             string
|        +--ro localEolUnrecognizedNotification?    boolean
|        +--ro remoteEolUnrecognizedNotification?   boolean
|        +--ro doesSessionSupportEol?               boolean
|        +--ro localState?                          boolean
|        +--ro remoteState?                         boolean
|        +--ro eolNotificationTime?                 uint32
|        +--ro eolNotificationTimeRemaining?        uint32
|        +--ro eolTxLabelSilenceTime?               uint32
|        +--ro eolTxLabelSilenceTimeRunning?        uint32
|        +--ro eolRxLabelSilenceTime?               uint32
|        +--ro eolRxLabelSilenceTimeRunning?        uint32
|        +--ro interfaces [interface]
|        |  +--ro interface    string
|        +--ro addresses [address]
|        |  +--ro address    inet:ipv4-address
|        +--ro inboundFecsFiltered [label]
|        |  +--ro label           uint32
|        |  +--ro fecAddr?        inet:ipv4-address
|        |  +--ro fecPrefixLen?   uint8
|        +--ro outboundFecsFiltered [fecAddr]
|        |  +--ro fecAddr         inet:ipv4-address
|        |  +--ro fecPrefixLen?   uint8
|        +--ro debugHistory [historyLine]
|           +--ro historyLine    string
+---x get-mpls-autobw-template-brief
|  +--ro output
|     +--ro mpls-autobw-template-brief
|        +--ro num-autobw-template?   uint32
|        +--ro template-list [autobwTemplateName]
|           +--ro autobwTemplateName     string
|           +--ro adjustmentInterval?    uint32
|           +--ro adjustmentThreshold?   uint32
|           +--ro overflowLimit?         uint32
|           +--ro underflowLimit?        uint32
|           +--ro mode?                  uint32
+---x get-mpls-autobw-template-detail
|  +--ro output
|     +--ro mpls-autobw-template-detail
|        +--ro num-autobw-template?   uint32
|        +--ro template-list [autobwTemplateName]
|           +--ro autobwTemplateName     string
|           +--ro adjustmentInterval?    uint32
|           +--ro adjustmentThreshold?   uint32
|           +--ro overflowLimit?         uint32
|           +--ro underflowLimit?        uint32
|           +--ro mode?                  uint32
|           +--ro associated-paths [lspName pathName]
|              +--ro lspName     string
|              +--ro pathName    string
+---x get-mpls-autobw-template-one
|  +--ro input
|  |  +--ro mpls-autobw-template-one
|  |     +--ro autobwTemplateName?   string
|  +--ro output
|     +--ro mpls-autobw-template-one
|        +--ro autobwTemplateName?    string
|        +--ro adjustmentInterval?    uint32
|        +--ro adjustmentThreshold?   uint32
```

```
|        +--ro overflowLimit?         uint32
|        +--ro underflowLimit?        uint32
|        +--ro mode?                  uint32
|        +--ro associated-paths [lspName pathName]
|           +--ro lspName     string
|           +--ro pathName    string
+---x show-mpls-dynamic-bypass
|  +--ro output
|     +--ro mpls-dynamic-bypass
|        +--ro dbyp-config-enable?                  uint8
|        +--ro dbyp-config-enable-all-interfaces?   uint8
|        +--ro dbyp-reoptimization-timer?           uint32
|        +--ro dbyp-max-bypasses-per-mp?            uint16
|        +--ro dbyp-max-bypasses?                   uint16
|        +--ro dbyp-bypass-count?                   uint16
+---x show-mpls-dynamic-bypass-interface-brief
|  +--ro output
|     +--ro global-dbyp-status?                    uint8
|     +--ro mpls-dynamic-bypass-interface-brief
|        +--ro show-mpls-dynamic-bypass-interface-brief
|           +--ro dbyp-interface-name?            string
|           +--ro dbyp-interface-active-status?   uint8
|           +--ro dbyp-interface-admin-type?      uint8
|           +--ro dbyp-interface-admin-status?    uint8
|           +--ro dbyp-interface-count?           uint16
|           +--ro dbyp-interface-merge-point?     uint32
+---x show-mpls-route
|  +--ro input
|  |  +--ro prefix_address_and_len?   mpls-ipv4-prefix
|  |  +--ro prefix_address?           mpls-ipv4-address
|  |  +--ro subnet_mask?              mpls-ipv4-subnet-mask
|  |  +--ro longer?                   boolean
|  +--ro output
|     +--ro number-route-entry?   uint32
|     +--ro route-entry-list
|        +--ro entry-number?         uint32
|        +--ro dest-prefix?          mpls-ipv4-address
|        +--ro prefix-length?        uint32
|        +--ro gateway?              mpls-ipv4-address
|        +--ro vif-index?            uint32
|        +--ro out-interface-name?   string
|        +--ro out-label?            uint32
|        +--ro protocol?             string
|        +--ro metric?               uint32
|        +--ro use-count?            uint32
+---x clear-mpls-lsp
|  +--ro input
|  |  +--ro clear-mpls-lsp-option
|  |     +--ro mpls-clear-lsp-name-in?   string
|  |     +--ro primary?                  empty
|  |     +--ro secondary?                empty
|  +--ro output
|     +--ro clear-mpls-lsp-out
|        +--ro clear-mpls-lsp-ret-msg?   string
+---x clear-mpls-bypass-lsp
|  +--ro input
|  |  +--ro mpls-clear-bypass-lsp-name-in?   string
|  +--ro output
|     +--ro clear-mpls-bypass-lsp-out
|        +--ro clear-mpls-bypass-lsp-ret-msg?   string
+---x mpls-reopt-lsp
|  +--ro input
|  |  +--ro mpls-reoptimize-lsp-name-in?   string
|  +--ro output
|     +--ro reopt-lsp-ret-msg?   string
+---x clear-mpls-rsvp-statistics
|  +--ro output
|     +--ro clear-mpls-rsvp-statistics-out
|        +--ro clear-mpls-rsvp-statistics-ret-msg?   string
+---x clear-mpls-rsvp-statistics-neighbor
|  +--ro input
|  |  +--ro clear-mpls-rsvp-statistics-neighbor-address?   mpls-ipv4-address
```

```
|  |  +--ro clear-mpls-rsvp-statistics-neighbor-all?       empty
|  +--ro output
|     +--ro clear-mpls-rsvp-statistics-neighbor-out
|        +--ro clear-mpls-rsvp-statistics-neighbor-ret-msg?   string
+---x clear-mpls-ldp-statistics
|  +--ro output
|     +--ro clear-mpls-ldp-statistics-out
|        +--ro clear-mpls-ldp-statistics-ret-msg?   string
+---x clear-mpls-statistics
|  +--ro input
|  |  +--ro mpls-clear-statistics-type?                          uint32
|  |  +--ro mpls-clear-statistics-transit-ldp-fec-prefix?       mpls-ipv4-prefix
|  |  +--ro mpls-clear-statistics-transit-ldp-prefix-address?   mpls-ipv4-address
|  |  +--ro mpls-clear-statistics-transit-ldp-prefix-mask?      mpls-ipv4-subnet-mask
|  |  +--ro mpls-clear-statistics-transit-label-id?             uint32
|  |  +--ro mpls-clear-statistics-tunnel-ldp-id?                uint32
|  |  +--ro mpls-clear-statistics-tunnel-rsvp-bypass?           uint8
|  |  +--ro mpls-clear-statistics-tunnel-name?                  string
|  |  +--ro mpls-clear-statistics-tunnel-dest?                  mpls-ipv4-address
|  +--ro output
|     +--ro clear-mpls-statistics-out
|        +--ro clear-mpls-statistics-ret-msg?   string
+---x clear-mpls-statistics-ldp-tunnel
|  +--ro input
|  |  +--ro clear-statistics-ldp-tunnel-id?   uint32
|  +--ro output
|     +--ro clear-mpls-statistics-ldp-tunnel-out
|        +--ro clear-mpls-statistics-ldp-tunnel-ret-msg?   string
+---x clear-mpls-ldp-neighbor
|  +--ro input
|  |  +--ro mpls-clear-all-ldp-sessions?   empty
|  |  +--ro mpls-clear-one-ldp-sessions?   inet:ipv4-address
|  +--ro output
|     +--ro clear-mpls-ldp-neighbor-out
|        +--ro clear-mpls-ldp-neighbor-ret-msg?   string
+---x clear-mpls-statistics-ldp-transit
|  +--ro input
|  |  +--ro clear-statistics-ldp-transit-fec-prefix?           mpls-ipv4-prefix
|  |  +--ro clear-statistics-ldp-transit-fec-prefix-address?   mpls-ipv4-address
|  |  +--ro clear-statistics-ldp-transit-fec-prefix-mask?      mpls-ipv4-subnet-mask
|  +--ro output
|     +--ro clear-mpls-statistics-ldp-tunnel-out
|        +--ro clear-mpls-statistics-ldp-transit-ret-msg?   string
+---x clear-mpls-auto-bandwidth-statistics-lsp
|  +--ro input
|  |  +--ro lsp-name?   string
|  +--ro output
|     +--ro clear-mpls-auto-bandwidth-statistics-lsp-ret-msg?   string
+---x clear-mpls-auto-bandwidth-sample-history-lsp
|  +--ro input
|  |  +--ro lsp-name?   string
|  +--ro output
|     +--ro clear-mpls-auto-bandwidth-sample-history-lsp-ret-msg?   string
+---x clear-mpls-auto-bandwidth-statistics-all
|  +--ro output
|     +--ro clear-mpls-auto-bandwidth-statistics-all-ret-msg?   string
+---x clear-mpls-auto-bandwidth-sample-history-all
|  +--ro output
|     +--ro clear-mpls-auto-bandwidth-sample-history-all-ret-msg?   string
+---x mpls-adjust-bandwidth-lsp
|  +--ro input
|  |  +--ro lsp-name?   string
|  +--ro output
|     +--ro adjust-bandwidth-lsp-ret-msg?   string
+---x mpls-adjust-bandwidth-lsp-all
|  +--ro output
|     +--ro adjust-bandwidth-all-ret-msg?   string
+---x ping-mpls
   +--ro input
   |  +--ro ping-mpls-input
   |     +--ro ping-mpls-rsvp-lsp?             string
   |     +--ro ping-mpls-rsvp-session-src?     mpls-ipv4-address
```

```
|     +--ro ping-mpls-rsvp-session-dst?     mpls-ipv4-address
|     +--ro ping-mpls-rsvp-session-id?      uint32
|     +--ro ping-mpls-ldp-prefix?           mpls-ipv4-prefix
|     +--ro ping-mpls-ldp-prefix-address?   mpls-ipv4-address
|     +--ro oam-params
|     |  +--ro destination?   mpls-ipv4-address
|     |  +--ro reply-mode?    enumeration
|     |  +--ro reply-tos?     uint8
|     |  +--ro size?          uint32
|     |  +--ro source?        mpls-ipv4-address
|     |  +--ro timeout?       uint32
|     +--ro ping-params
|     |  +--ro count?     uint32
|     |  +--ro detail?    empty
|     |  +--ro detour?    empty
|     |  +--ro standby?   empty
|     +--ro traceroute-params
|        +--ro dsmap?     empty
|        +--ro min-ttl?   uint8
|        +--ro max-ttl?   uint8
|        +--ro nexthop?   mpls-ipv4-address
+--ro output
   +--ro ping-mpls-out
      +--ro ping-mpls-ret-msg?   string
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-nameserver

Provides a data model to manage the Fibre Channel (FC) Name Server, which realizes the FC-GS-6 requirements.

This module provides the means for monitoring the operation and configuring some parameters, of one or more instances of the Fibre Channel Name Server functionality.

The Fibre Channel Name Server provides a way for N_Ports and NL_Ports to register and discover Fibre Channel attributes. Such attributes include names, addresses, types, features, and so on, at various protocol layers, including upper layer protocols specific to Fibre Channel, which are sometimes referred to as FC-4s.

Physically, Fibre Channel is an interconnection of multiple communication points, called N_Ports, interconnected either by a switching network, called a fabric, or by a point-to-point link. A Fibre Channel "node" consists of one or more N_Ports. A fabric may consist of multiple Interconnect Elements, some of which are switches. An N_Port connects to the fabric by way of a port on a switch called an F_Port. When multiple FC nodes are connected to a single port on a switch by way of an Arbitrated Loop topology, the switch port is called an FL_Port, and the nodes' ports are called NL_Ports. The term Nx_Port is used to refer to either an N_Port or an NL_Port.

External augmentations

```
module: brocade-common-def
   +--rw show
   |  +--rw name-server:name-server
```

RPCs

```
+---x get-nameserver-detail
     +--ro output
        +--ro show-nameserver [nameserver-portid]
           +--ro nameserver-portid                nameserver-portid-type
           +--ro nameserver-portname?             common-def:wwn-type
           +--ro nameserver-nodename?             common-def:wwn-type
           +--ro nameserver-scr?                  uint32
           +--ro nameserver-fc4s?                 nameserver-fc4s-type
           +--ro nameserver-portsymb?             nameserver-symbolic-name-type
           +--ro nameserver-nodesymb?             nameserver-symbolic-name-type
           +--ro nameserver-fabric-portname?      common-def:wwn-type
           +--ro nameserver-permanent-portname?   common-def:wwn-type
           +--ro nameserver-devicetype?           nameserver-devicetype-type
           +--ro nameserver-index?                uint32
           +--ro nameserver-porttype?             nameserver-porttype-type
           +--ro nameserver-cos?                  nameserver-cos-type
           +--ro nameserver-sharearea?            nameserver-sharearea-type
           +--ro nameserver-redirect?             nameserver-redirect-type
           +--ro nameserver-xlatedomain?          nameserver-xlatedomain-type
           +--ro nameserver-connected-via-ag?     nameserver-connected-via-ag-type
           +--ro nameserver-ag-base-device?       nameserver-ag-base-device-type
           +--ro nameserver-real?                 nameserver-real-type
           +--ro nameserver-cascaded?             nameserver-cascaded-type
```

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-netconf-ext

Provides a data model to manage NETCONF. It provides an RPC to return client capabilities.

RPCs

```
+---x get-netconf-client-capabilities
     +--ro input
     |  +--ro session-id?   uint32
     +--ro output
        +--ro session
           +--ro session-id?   uint32
           +--ro user-name?    string
           +--ro vendor?       string
           +--ro product?      string
           +--ro version?      string
           +--ro identity?     string
           +--ro af-type?      enumeration
           +--ro host-ip-v6?   inet:ipv6-address
           +--ro host-ip?      inet:ipv4-address
           +--ro time?         ietfyang:date-and-time
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-nsm-operational

This management module is an instrumentation to manage NSM.

Top-level container

```
module: brocade-nsm-operational
   +--ro bridge-domain-state
   |  +--ro bridge-domain-counter
   |  |  +--ro no-of-bd?            uint32
   |  |  +--ro no-of-vpls-bd?       uint32
   |  |  +--ro no-of-dynamic-mac?   uint32
   |  |  +--ro no-of-static-mac?    uint32
   |  +--ro bridge-domain-list [bd-id]
   |     +--ro bd-id                              uint32
   |     +--ro vc-id?                             uint32
   |     +--ro active-ac-lif-count?               uint16
   |     +--ro config-ac-lif-count?               uint16
   |     +--ro active-vfi-lif-count?              uint16
   |     +--ro config-vfi-lif-count?              uint16
   |     +--ro local-switching?                   boolean
   |     +--ro block-bpdu?                        boolean
   |     +--ro bd-type?                           uint16
   |     +--ro ve-ifindex?                        uint32
   |     +--ro pw-profile?                        string
   |     +--ro mac-limit?                         uint16
   |     +--ro statistics?                        boolean
   |     +--ro active-tunnel-count?               uint16
   |     +--ro config-tunnel-count?               uint16
   |     +--ro outer-vlan-list [outer-vlan]
   |     |  +--ro outer-vlan                  uint32
   |     |  +--ro no-of-up-tagged-ports?      uint32
   |     |  +--ro no-of-up-untagged-ports?    uint32
   |     |  +--ro untagged-ports-list [lif-name]
   |     |  |  +--ro lif-name            string
   |     |  |  +--ro lif-ifindex?        uint32
   |     |  |  +--ro outer-vlan?         uint32
   |     |  |  +--ro flags?              uint32
   |     |  |  +--ro ivid?               uint32
   |     |  |  +--ro encap-id?           uint32
   |     |  |  +--ro ingress-stats-id?   uint32
   |     |  |  +--ro egress-stats-id?    uint32
   |     |  |  +--ro op-state?           boolean
   |     |  |  +--ro service-instance?   uint32
   |     |  +--ro tagged-ports-list [lif-name]
   |     |     +--ro lif-name            string
   |     |     +--ro lif-ifindex?        uint32
   |     |     +--ro outer-vlan?         uint32
   |     |     +--ro inner-vlan?         uint32
   |     |     +--ro flags?              uint32
   |     |     +--ro ivid?               uint32
   |     |     +--ro encap-id?           uint32
   |     |     +--ro ingress-stats-id?   uint32
   |     |     +--ro egress-stats-id?    uint32
   |     |     +--ro op-state?           boolean
   |     |     +--ro service-instance?   uint32
   |     +--ro vni-tunnels-list [vni]
   |     |  +--ro vni                    uint32
   |     |  +--ro active-tunnel-count?   uint16
   |     |  +--ro config-tunnel-count?   uint16
   |     |  +--ro tunnels?               string
   |     +--ro logical-interface-tunnel-list [lif-name]
   |        +--ro lif-name            string
   |        +--ro lif-ifindex?        uint32
   |        +--ro vni?                uint32
   |        +--ro flags?              uint32
   |        +--ro ingress-stats-id?   uint32
   |        +--ro egress-stats-id?    uint32
```

```
|        +--ro service-instance?   uint32
+--ro logical-interface-state
|  +--ro main-interface-pseudo-wire
|  |  +--ro protocol-status?                boolean
|  |  +--ro admin-status?                   boolean
|  |  +--ro interface-index?                uint32
|  |  +--ro counters
|  |  |  +--ro lif-type?                 intf-type
|  |  |  +--ro total-lifs?               uint32
|  |  |  +--ro protocol-status-up-lifs?  uint32
|  |  |  +--ro binded-lifs?              uint32
|  |  |  +--ro unbinded-lifs?            uint32
|  |  |  +--ro implicit-lifs?            uint32
|  |  |  +--ro explicit-lifs?            uint32
|  |  +--ro logical-interface-pseudo-wire
|  |     +--ro logical-interface-name?   string
|  |     +--ro source-type?              string
|  |     +--ro protocol-status?          boolean
|  |     +--ro admin-status?             boolean
|  |     +--ro lif-index?                uint32
|  |     +--ro bridge-domain-index?      uint32
|  |     +--ro interface-name?           string
|  |     +--ro is-binded?                boolean
|  |     +--ro ip-address?               inet:ipv4-address
|  +--ro main-interface-tunnel
|  |  +--ro protocol-status?            boolean
|  |  +--ro admin-status?               boolean
|  |  +--ro interface-index?            uint32
|  |  +--ro counters
|  |  |  +--ro lif-type?                  intf-type
|  |  |  +--ro total-lifs?                uint32
|  |  |  +--ro protocol-status-up-lifs?   uint32
|  |  |  +--ro binded-lifs?               uint32
|  |  |  +--ro unbinded-lifs?             uint32
|  |  |  +--ro implicit-lifs?             uint32
|  |  |  +--ro explicit-lifs?             uint32
|  |  +--ro logical-interface-tunnel
|  |     +--ro logical-interface-name?   string
|  |     +--ro source-type?              string
|  |     +--ro protocol-status?          boolean
|  |     +--ro admin-status?             boolean
|  |     +--ro lif-index?                uint32
|  |     +--ro bridge-domain-index?      uint32
|  |     +--ro interface-name?           string
|  |     +--ro is-binded?                boolean
|  |     +--ro vni-tni?                  uint32
|  +--ro main-interface-physical [intf-name]
|     +--ro protocol-status?              boolean
|     +--ro admin-status?                 boolean
|     +--ro interface-index?              uint32
|     +--ro counters
|     |  +--ro lif-type?                  intf-type
|     |  +--ro total-lifs?                uint32
|     |  +--ro protocol-status-up-lifs?   uint32
|     |  +--ro binded-lifs?               uint32
|     |  +--ro unbinded-lifs?             uint32
|     |  +--ro implicit-lifs?             uint32
|     |  +--ro explicit-lifs?             uint32
|     +--ro intf-type?                    intf-type
|     +--ro intf-name                     string
|     +--ro is-tagged?                    boolean
|     +--ro port-mode?                    string
|     +--ro logical-interface-physical
|        +--ro logical-interface-name?   string
|        +--ro source-type?              string
|        +--ro protocol-status?          boolean
|        +--ro admin-status?             boolean
|        +--ro lif-index?                uint32
|        +--ro bridge-domain-index?      uint32
|        +--ro interface-name?           string
|        +--ro is-binded?                boolean
|        +--ro outer-vlan-id?            uint32
```

```
|        +--ro inner-vlan-id?            uint32
|        +--ro intf-type?                intf-type
|        +--ro is-tagged?                boolean
+--ro mct-state
|  +--ro show-cluster [cluster-id]
|     +--ro cluster-id                     uint32
|     +--ro is-cluster-client-command?     boolean
|     +--ro is-cluster-all-command?        boolean
|     +--ro cluster-name?                  string
|     +--ro cluster-status?                boolean
|     +--ro client-isolation-status?       boolean
|     +--ro num-peers?                     uint32
|     +--ro num-clients?                   uint32
|     +--ro num-config-vlans?              uint32
|     +--ro num-active-vlans?              uint32
|     +--ro num-bds?                       uint32
|     +--ro num-active-bds?                uint32
|     +--ro client-interfaces-shutdown?    boolean
|     +--ro control-vlan?                  uint32
|     +--ro df-hold-time?                  uint32
|     +--ro active-vlan-list [vlan-id]
|     |  +--ro vlan-id    uint32
|     +--ro active-bd-list [bd-id]
|     |  +--ro bd-id    uint32
|     +--ro peer-info-list [peer-ip-addr]
|     |  +--ro peer-ip-addr      uint32
|     |  +--ro peer-state?       boolean
|     |  +--ro peer-interface?   string
|     +--ro client-info-list [cluster-id client-id]
|     |  +--ro client-name?        string
|     |  +--ro cluster-id          uint32
|     |  +--ro client-id           uint32
|     |  +--ro client-esi?         string
|     |  +--ro client-interface?   string
|     |  +--ro client-state?       boolean
|     |  +--ro num-config-vlans?   uint32
|     |  +--ro num-config-bds?     uint32
|     |  +--ro config-vlans [vlan-id]
|     |  |  +--ro vlan-id    uint32
|     |  +--ro config-bds [bd-id]
|     |     +--ro bd-id    uint32
|     +--ro config-vlan-list [vlan-id]
|     |  +--ro vlan-id    uint32
|     +--ro bd-list [bd-id]
|        +--ro bd-id    uint32
+--ro sub-interface-statistics-state
|  +--ro vlan-statistics [vlan-id]
|  |  +--ro vlan-id             uint32
|  |  +--ro port-statistics [port-id]
|  |     +--ro rx-packets?   uint64
|  |     +--ro tx-packets?   uint64
|  |     +--ro rx-bytes?     uint64
|  |     +--ro tx-bytes?     uint64
|  |     +--ro port-id       uint32
|  |     +--ro port-name?    string
|  +--ro bridge-domain-statistics [bd-id]
|     +--ro bd-id             uint32
|     +--ro lif-statistics [lif-id]
|        +--ro rx-packets?   uint64
|        +--ro tx-packets?   uint64
|        +--ro rx-bytes?     uint64
|        +--ro tx-bytes?     uint64
|        +--ro lif-id        uint32
|        +--ro lif-name?     string
+--ro topology-group-state
   +--ro topology-group-data [topology-group-id]
      +--ro topology-group-id    uint16
      +--ro l2-protocol?         string
      +--ro master-vlan
      |  +--ro vlan-id?         uint16
      |  +--ro control-ports?   string
      |  +--ro free-ports?      string
```

```
+--ro member-vlan [vlan-id]
|  +--ro vlan-id       uint16
|  +--ro free-ports?   string
+--ro member-bd [bd-id]
   +--ro bd-id         uint32
   +--ro free-ports?   string
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-ntp

Provides a data model to configure Network Time Protocol (NTP) servers and monitor the active server.

Top-level container

```
module: brocade-ntp
   +--rw ntp
      +--rw server [ip use-vrf]
      |  +--rw ip            inet:ip-address
      |  +--rw use-vrf       common-def:vrf-name
      |  +--rw server-key
      |     +--rw key?   uint32
      +--rw authentication-key [keyid]
      |  +--rw keyid    uint32
      |  +--rw md5?     string
      +--rw source-ip?            srcip_type
```

RPCs

Return address of the active NTP server:

```
+---x show-ntp
      +--ro input
      +--ro output
         +--ro node-active-server
            +--ro (ip4-6-or-local)?
               +--:(ipv4-6)
               |  +--ro active-server?    inet:ip-address
               +--:(local)
                  +--ro LOCL?            boolean
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-openflow

Provides a data model for OpenFlow.

Top-level container

```
module: brocade-openflow
   +--rw openflow-global
      +--rw openflow
         +--rw enable
         |  +--rw ofVerType?   enumeration
         +--rw default-behavior
         |  +--rw send-to-controller?   empty
         +--rw controller [controller-name]
            +--rw controller-name      openflow-controller-name-type
            +--rw passive
            |  +--rw passive-connection-method?    enumeration
            |  +--rw passive-controller-address?   inet:ip-address
            |  +--rw passive-connection-port?      uint32
            |  +--rw passive-controller-vrf?       common-def:vrf-name
            +--rw active-controller
               +--rw controller-address?      inet:ip-address
               +--rw connection-method?       enumeration
               +--rw connection-port?         uint32
               +--rw active-controller-vrf?   common-def:vrf-name
```

External augmentations

```
module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw openflow:openflow-interface-cfg
   |  |  |  +--rw openflow:logical-instance-id?   instance-id-type
   |  |  |  +--rw openflow:openflow-enable /*drop-node-name*/
   |  |  |     +--rw openflow:enable?          empty
   |  |  |     +--rw openflow:match-profile?   enumeration /*drop-node-name*/
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-openflow-operational

Provides a data model for managing the OpenFlow operational information.

Top-level container

```
module: brocade-openflow-operational
   +--ro openflow-state
   |  +--ro detail
   |  |  +--ro admin-status?             boolean
   |  |  +--ro ssl-status?               boolean
   |  |  +--ro num-controllers?          uint32
   |  |  +--ro data-path?                string
   |  |  +--ro l2-match?                 string
   |  |  +--ro l3-match?                 string
   |  |  +--ro max-l2-flows?             uint32
   |  |  +--ro active-flows?             uint32
   |  |  +--ro enabled-ports?            string
   |  |  +--ro default-action?           default-packet-action
   |  |  +--ro controller-detail-list [controller-idx]
   |  |  |  +--ro controller-idx           uint32
   |  |  |  +--ro controller-async-list [async-type]
   |  |  |  |  +--ro async-type     async-type
   |  |  |  |  +--ro config-data?   string
   |  |  |  +--ro controller-info
   |  |  |     +--ro name?              string
   |  |  |     +--ro mode?              ctrlr-connection-mode
   |  |  |     +--ro type?              ctrlr-type
   |  |  |     +--ro connection-type?   ctrlr-connection-type
   |  |  |     +--ro ip-addr?           inet:ipv4-address
   |  |  |     +--ro port?              uint32
   |  |  |     +--ro vrf-name?          string
   |  |  |     +--ro status?            ctrlr-connection-status
   |  |  |     +--ro role?              ctrlr-role
   |  |  +--ro hybrid-interfaces [hybrid-interface]
   |  |     +--ro hybrid-interface    string
   |  |     +--ro protected-vlans?    string
   |  +--ro flow
   |  |  +--ro data-packets-sent?   uint32
   |  |  +--ro data-bytes-sent?     uint32
   |  |  +--ro port-based-flows?    uint32
   |  |  +--ro hw-generic-flows?    uint32
   |  |  +--ro l2-interfaces?       uint32
   |  |  +--ro l3-interfaces?       uint32
   |  |  +--ro l23-interfaces?      uint32
   |  |  +--ro flow-info-list [flow-id]
   |  |     +--ro flow-id                          uint32
   |  |     +--ro priority?                        uint32
   |  |     +--ro status?                          flow-status
   |  |     +--ro in-port?                         string
   |  |     +--ro in-vlan?                         string
   |  |     +--ro source-mac?                      string
   |  |     +--ro destination-mac?                 string
   |  |     +--ro ether-type?                      string
   |  |     +--ro ip-protocol?                     uint32
   |  |     +--ro ip-protocol-source-port?         uint32
   |  |     +--ro ip-protocol-destination-port?    uint32
   |  |     +--ro source-ip?                       string
   |  |     +--ro destination-ip?                  string
   |  |     +--ro instructions?                    string
   |  |     +--ro action-data?                     string
   |  |     +--ro meter-id?                        uint32
   |  |     +--ro vlan-upbits?                     uint32
   |  |     +--ro nw-tos?                          uint32
   |  |     +--ro source-ip-mask?                  string
   |  |     +--ro destination-ip-mask?             string
   |  |     +--ro total-packets?                   uint32
   |  |     +--ro total-bytes?                     uint32
```

```
|  |     +--ro flow-action-list [action-idx]
|  |        +--ro action-idx            uint32
|  |        +--ro group-id?             uint32
|  |        +--ro queue-id?             uint32
|  |        +--ro out-ports?            string
|  |        +--ro vlan-id?              uint32
|  |        +--ro action-vlan-upbits?   uint32
|  |        +--ro out-vlan-tag?         vlan-action
|  |        +--ro out-vlan-etype?       string
|  +--ro group
|  |  +--ro max-groups?                   uint32
|  |  +--ro max-bkts-per-group?           uint32
|  |  +--ro max-actions-per-bucket?       uint32
|  |  +--ro total-groups-all?             uint32
|  |  +--ro total-groups-select?          uint32
|  |  +--ro total-groups-indirect?        uint32
|  |  +--ro total-groups-fast-failover?   uint32
|  |  +--ro group-info-list [group-id]
|  |     +--ro group-id             uint32
|  |     +--ro transaction-id?      string
|  |     +--ro group-type?          group-type
|  |     +--ro packet-count?        uint32
|  |     +--ro byte-count?          uint32
|  |     +--ro flow-count?          uint32
|  |     +--ro num-of-bkts?         uint32
|  |     +--ro group-bucket-list [bucket-id]
|  |        +--ro bucket-id            uint32
|  |        +--ro weight?              uint32
|  |        +--ro watch-port?          string
|  |        +--ro group-action-list [action-id]
|  |           +--ro action-id         uint32
|  |           +--ro out-port?         string
|  |           +--ro vlan-id?          uint32
|  |           +--ro out-vlan-tag?     vlan-action
|  |           +--ro out-vlan-etype?   string
|  +--ro meter
|  |  +--ro num-of-meters?     uint32
|  |  +--ro meter-info-list [meter-id]
|  |     +--ro meter-id               uint32
|  |     +--ro transaction-id?        string
|  |     +--ro meterflags-type?       string
|  |     +--ro flow-count?            uint32
|  |     +--ro num-of-bands?          uint32
|  |     +--ro in-packet-count?       uint32
|  |     +--ro in-byte-count?         uint32
|  |     +--ro meterband-info-list [band-type]
|  |        +--ro band-type               uint32
|  |        +--ro rate?                   uint32
|  |        +--ro burst-size?             uint32
|  |        +--ro in-packet-band-count?   uint32
|  |        +--ro in-byte-band-count?     uint32
|  +--ro resources
|  |  +--ro meter-max?            uint32
|  |  +--ro meter-used?           uint32
|  |  +--ro meter-free?           uint32
|  |  +--ro tcam-profile?         string
|  |  +--ro group-resouces-list [group-type]
|  |  |  +--ro max?          uint32
|  |  |  +--ro used?         uint32
|  |  |  +--ro free?         uint32
|  |  |  +--ro group-type    group-type
|  |  +--ro slot-resouces-list [slot-id]
|  |     +--ro slot-id                    uint32
|  |     +--ro module?                    string
|  |     +--ro slot-match-profile-list [slot-match-profile-idx]
|  |        +--ro slot-match-profile-idx     uint32
|  |        +--ro max-flows?                 uint32
|  |        +--ro used-flows?                uint32
|  |        +--ro free-flows?                uint32
|  |        +--ro slot-chip-resource-list [slot-chip-idx]
|  |           +--ro slot-chip-idx    uint32
|  |           +--ro max-flows?       uint32
```

```
|  |           +--ro used-flows?      uint32
|  |           +--ro free-flows?      uint32
|  +--ro interface [port]
|  |  +--ro port          string
|  |  +--ro link?         boolean
|  |  +--ro port-state?   port-state
|  |  +--ro speed?        port-speed
|  |  +--ro mac?          string
|  |  +--ro port-id?      uint32
|  |  +--ro mode?         port-mode
|  +--ro flow-interface [interface-type interface-value]
|  |  +--ro interface-type     uint32
|  |  +--ro interface-value    string
|  |  +--ro flow-info-list [flow-id]
|  |     +--ro flow-id                          uint32
|  |     +--ro priority?                        uint32
|  |     +--ro status?                          flow-status
|  |     +--ro in-port?                         string
|  |     +--ro in-vlan?                         string
|  |     +--ro source-mac?                      string
|  |     +--ro destination-mac?                 string
|  |     +--ro ether-type?                      string
|  |     +--ro ip-protocol?                     uint32
|  |     +--ro ip-protocol-source-port?         uint32
|  |     +--ro ip-protocol-destination-port?    uint32
|  |     +--ro source-ip?                       string
|  |     +--ro destination-ip?                  string
|  |     +--ro instructions?                    string
|  |     +--ro action-data?                     string
|  |     +--ro meter-id?                        uint32
|  |     +--ro vlan-upbits?                     uint32
|  |     +--ro nw-tos?                          uint32
|  |     +--ro source-ip-mask?                  string
|  |     +--ro destination-ip-mask?             string
|  |     +--ro total-packets?                   uint32
|  |     +--ro total-bytes?                     uint32
|  |     +--ro flow-action-list [action-idx]
|  |        +--ro action-idx            uint32
|  |        +--ro group-id?             uint32
|  |        +--ro queue-id?             uint32
|  |        +--ro out-ports?            string
|  |        +--ro vlan-id?              uint32
|  |        +--ro action-vlan-upbits?   uint32
|  |        +--ro out-vlan-tag?         vlan-action
|  |        +--ro out-vlan-etype?       string
|  +--ro controller [name]
|  |  +--ro name               string
|  |  +--ro mode?              ctrlr-connection-mode
|  |  +--ro type?              ctrlr-type
|  |  +--ro connection-type?   ctrlr-connection-type
|  |  +--ro ip-addr?           inet:ipv4-address
|  |  +--ro port?              uint32
|  |  +--ro vrf-name?          string
|  |  +--ro status?            ctrlr-connection-status
|  |  +--ro role?              ctrlr-role
|  +--ro flow-id
|  |  +--ro flow-id?                          uint32
|  |  +--ro priority?                         uint32
|  |  +--ro status?                           flow-status
|  |  +--ro in-port?                          string
|  |  +--ro in-vlan?                          string
|  |  +--ro source-mac?                       string
|  |  +--ro destination-mac?                  string
|  |  +--ro ether-type?                       string
|  |  +--ro ip-protocol?                      uint32
|  |  +--ro ip-protocol-source-port?          uint32
|  |  +--ro ip-protocol-destination-port?     uint32
|  |  +--ro source-ip?                        string
|  |  +--ro destination-ip?                   string
|  |  +--ro instructions?                     string
|  |  +--ro action-data?                      string
|  |  +--ro meter-id?                         uint32
```

```
|   |  +--ro vlan-upbits?                    uint32
|   |  +--ro nw-tos?                         uint32
|   |  +--ro source-ip-mask?                 string
|   |  +--ro destination-ip-mask?            string
|   |  +--ro total-packets?                  uint32
|   |  +--ro total-bytes?                    uint32
|   |  +--ro flow-action-list [action-idx]
|   |     +--ro action-idx            uint32
|   |     +--ro group-id?             uint32
|   |     +--ro queue-id?             uint32
|   |     +--ro out-ports?            string
|   |     +--ro vlan-id?              uint32
|   |     +--ro action-vlan-upbits?   uint32
|   |     +--ro out-vlan-tag?         vlan-action
|   |     +--ro out-vlan-etype?       string
|   +--ro group-id
|   |  +--ro group-id?            uint32
|   |  +--ro transaction-id?      string
|   |  +--ro group-type?          group-type
|   |  +--ro packet-count?        uint32
|   |  +--ro byte-count?          uint32
|   |  +--ro flow-count?          uint32
|   |  +--ro num-of-bkts?         uint32
|   |  +--ro group-bucket-list [bucket-id]
|   |     +--ro bucket-id            uint32
|   |     +--ro weight?              uint32
|   |     +--ro watch-port?          string
|   |     +--ro group-action-list [action-id]
|   |        +--ro action-id         uint32
|   |        +--ro out-port?         string
|   |        +--ro vlan-id?          uint32
|   |        +--ro out-vlan-tag?     vlan-action
|   |        +--ro out-vlan-etype?   string
|   +--ro meter-id
|   |  +--ro meter-id?              uint32
|   |  +--ro transaction-id?        string
|   |  +--ro meterflags-type?       string
|   |  +--ro flow-count?            uint32
|   |  +--ro num-of-bands?          uint32
|   |  +--ro in-packet-count?       uint32
|   |  +--ro in-byte-count?         uint32
|   |  +--ro meterband-info-list [band-type]
|   |     +--ro band-type               uint32
|   |     +--ro rate?                   uint32
|   |     +--ro burst-size?             uint32
|   |     +--ro in-packet-band-count?   uint32
|   |     +--ro in-byte-band-count?     uint32
|   +--ro queues-interface
|      +--ro interface-value?   string
|      +--ro queue-info-list [interface num]
|         +--ro interface     string
|         +--ro num           uint32
|         +--ro tx-packets?   uint64
|         +--ro tx-bytes?     uint64
+--ro queues-state
   +--ro queue-interface-list [interface-value]
      +--ro interface-value    string
      +--ro queue-info-list [interface num]
         +--ro interface     string
         +--ro num           uint32
         +--ro tx-packets?   uint64
         +--ro tx-bytes?     uint64
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-ospf

Provides a data model to configure the Open Shortest Path First (OSPF) version 2 protocol.

External augmentations

```
+--rw ospf:interface-eth-ospf-conf
   |  |  |  |  +--rw ospf:ospf1
   |  |  |  |     +--rw ospf:area?                     ospf-area-id
   |  |  |  |     +--rw ospf:auth-change-wait-time?    common-def:time-interval-sec
   |  |  |  |     +--rw ospf:authentication-key
   |  |  |  |     |  +--rw ospf:no-encrypt-auth-key-table
   |  |  |  |     |  |  +--rw ospf:no-encrypt-auth-key?   ospf-auth-psswd-string
   |  |  |  |     |  +--rw ospf:auth-key-table
   |  |  |  |     |     +--rw ospf:encrypttype?   key-type
   |  |  |  |     |     +--rw ospf:auth-key?      ospf-auth-psswd-string
   |  |  |  |     +--rw ospf:hello-interval?           common-def:time-interval-sec
   |  |  |  |     +--rw ospf:dead-interval?            common-def:time-interval-sec
   |  |  |  |     +--rw ospf:retransmit-interval?      common-def:time-interval-sec
   |  |  |  |     +--rw ospf:transmit-delay?           common-def:time-interval-sec
   |  |  |  |     +--rw ospf:md5-authentication
   |  |  |  |     |  +--rw ospf:key-activation-wait-time?   common-def:time-interval-sec
   |  |  |  |     |  +--rw ospf:no-encrypt-key-table
   |  |  |  |     |  |  +--rw ospf:no-encrypt-key-id?   uint32
   |  |  |  |     |  |  +--rw ospf:no-encrypt-key?      ospf-auth-psswd-string
   |  |  |  |     |  +--rw ospf:key-table
   |  |  |  |     |     +--rw ospf:key-id?                   uint32
   |  |  |  |     |     +--rw ospf:key?                      key-type
   |  |  |  |     |     +--rw ospf:md5-authentication-key?   ospf-auth-psswd-string
   |  |  |  |     +--rw ospf:cost?                     uint32
   |  |  |  |     +--rw ospf:network?                  enumeration
   |  |  |  |     +--rw ospf:intf-ldp-sync?            enumeration
   |  |  |  |     +--rw ospf:database-filter
   |  |  |  |     |  +--rw ospf:all-out?                 empty
   |  |  |  |     |  +--rw ospf:all-external?            database-filter-options
   |  |  |  |     |  +--rw ospf:all-summary-external?    database-filter-options
   |  |  |  |     +--rw ospf:mtu-ignore?               empty
   |  |  |  |     +--rw ospf:active?                   empty
   |  |  |  |     +--rw ospf:passive?                  empty
   |  |  |  |     +--rw ospf:priority?                 uint32
   |  |  |  |     +--rw ospf:bfd
   |  |  |  |        +--rw ospf:intf-bfd-enable?   empty
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-ospfv3

Provides a data model to configure the Open Shortest Path First (OSPF) version 3 protocol.

External augmentations

```
module: brocade-interface
+--rw ospfv3:interface-ospfv3-conf
   |  |  |  |  +--rw ospfv3:interface-area?            ospf:ospf-area-id
   |  |  |  |  +--rw ospfv3:active?                    empty
   |  |  |  |  +--rw ospfv3:passive?                   empty
   |  |  |  |  +--rw ospfv3:bfd
   |  |  |  |  |  +--rw ospfv3:bfd-enable?   empty
   |  |  |  |  +--rw ospfv3:cost?                      uint32
   |  |  |  |  +--rw ospfv3:instance?                  uint32
   |  |  |  |  +--rw ospfv3:mtu-ignore?                empty
   |  |  |  |  +--rw ospfv3:network?                   enumeration
   |  |  |  |  +--rw ospfv3:priority?                  uint32
   |  |  |  |  +--rw ospfv3:suppress-linklsa?          empty
   |  |  |  |  +--rw ospfv3:authentication
   |  |  |  |  |  +--rw ospfv3:ipsec-auth-key-config
   |  |  |  |  |  |  +--rw ospfv3:spi?                   spi-value-type
   |  |  |  |  |  |  +--rw (ch-algorithm)?
   |  |  |  |  |  |     +--:(ca-ah-algorithm)
   |  |  |  |  |  |     |  +--rw ospfv3:ah?                    algorithm-type-ah
   |  |  |  |  |  |     |  +--rw ospfv3:ah-no-encrypt?         empty
   |  |  |  |  |  |     |  +--rw ospfv3:ah-key?                ipsec-authentication-hexkey-string
   |  |  |  |  |  |     +--:(ca-esp-algorithm)
   |  |  |  |  |  |        +--rw ospfv3:esp?                    algorithm-type-esp
   |  |  |  |  |  |        +--rw ospfv3:esp-no-encrypt?         empty
   |  |  |  |  |  |        +--rw ospfv3:esp-key?                ipsec-authentication-hexkey-string
   |  |  |  |  |  |        +--rw ospfv3:esp-auth?               algorithm-type-ah
   |  |  |  |  |  |        +--rw ospfv3:esp-auth-no-encrypt?    empty
   |  |  |  |  |  |        +--rw ospfv3:esp-auth-key?           ipsec-authentication-hexkey-string
   |  |  |  |  |  +--rw ospfv3:ipsec
   |  |  |  |  |     +--rw ospfv3:ipsec-authentication-disable?   empty
   |  |  |  |  |     +--rw ospfv3:ifc-key-add-remove-interval?    common-def:time-interval-sec
   |  |  |  |  +--rw ospfv3:link-interval-properties
   |  |  |  |     +--rw ospfv3:hello-interval?        common-def:time-interval-sec
   |  |  |  |     +--rw ospfv3:dead-interval?         common-def:time-interval-sec
   |  |  |  |     +--rw ospfv3:hello-jitter?          uint32
   |  |  |  |     +--rw ospfv3:retransmit-interval?   common-def:time-interval-sec
   |  |  |  |     +--rw ospfv3:transmit-delay?        common-def:time-interval-sec
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-pim

Provides a data model to configure Protocol Independent Multicast (PIM).

External augmentations

```
module: brocade-interface
+--rw pim:pim-intf-phy-cont
   |  |  |     +--rw pim:pim-int-cmd
   |  |  |        +--rw pim:pim-sparse?               empty
   |  |  |        +--rw pim:pim
   |  |  |        |  +--rw pim:neighbor-filter?   ip-prefix-name-t
   |  |  |        |  +--rw pim:dr-priority?       uint32
   |  |  |        |  +--rw pim:ttl-threshold?     uint32
   |  |  |        +--rw pim:mcast-bdry-prefix-list?   ip-prefix-name-t

module: brocade-interface
+--rw pim:pim-intf-vlan-cont
      |  |  |     +--rw pim:pim-int-cmd
      |  |  |        +--rw pim:pim-sparse?               empty
      |  |  |        +--rw pim:pim
      |  |  |        |  +--rw pim:neighbor-filter?   ip-prefix-name-t
      |  |  |        |  +--rw pim:dr-priority?       uint32
      |  |  |        |  +--rw pim:ttl-threshold?     uint32
      |  |  |        +--rw pim:mcast-bdry-prefix-list?   ip-prefix-name-t

module: brocade-interface
+--rw pim:pim-intf-loopback-cont
      |     |     +--rw pim:pim-int-cmd
      |     |        +--rw pim:pim-sparse?               empty
      |     |        +--rw pim:pim
      |     |        |  +--rw pim:neighbor-filter?   ip-prefix-name-t
      |     |        |  +--rw pim:dr-priority?       uint32
      |     |        |  +--rw pim:ttl-threshold?     uint32
      |     |        +--rw pim:mcast-bdry-prefix-list?   ip-prefix-name-t
```

History

Release version	History
16r.1.00	This Yang Module was introduced.

brocade-pld

Provides a data model to manage port link dampening (PLD).

External augmentations

```
module: brocade-interface
|  |  +--rw pld:link-error-disable /*drop-node-name*/
   |  |  |  +--rw pld:link-error
   |  |  |     +--rw pld:link-error-disable-entry?   uint32 /*drop-node-name*/
   |  |  |     +--rw pld:sampling-time-in-sec?       uint32 /*drop-node-name*/
   |  |  |     +--rw pld:wait-time-in-sec?           uint32 /*drop-node-name*/
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-pw-profile

This management module is an instrumentation to manage PW-Profile.

Top-level container

```
module: brocade-pw-profile
+--rw pw-profile [pw-profile-name] /*drop-node-name*/
      +--rw pw-profile-name    common-def:name-string64
      +--rw mtu
      |  +--rw mtu-value?   uint32 /*drop-node-name*/
      +--rw mtu-enforce?       boolean
      +--rw vc-mode /*drop-node-name*/
         +--rw vc-mode?   enumeration
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-pwm-operational

This management module is an instrumentation to manage PWM.

Top-level container

```
module: brocade-pwm-operational
 +--ro vc-peer-state
   |  +--ro vc-peer-data [vc-id]
   |     +--ro vc-id                  uint32
   |     +--ro vc-peer-address?       inet:ipv4-address
   |     +--ro vc-peer-state?         string
   |     +--ro vc-peer-uptime?        string
   |     +--ro vc-peer-load-balance?  boolean
   |     +--ro vc-peer-cos-enabled?   boolean
   |     +--ro vc-peer-cos-value?     uint8
   |     +--ro vc-ldp-tnnl-in-use?    string
   |     +--ro vc-local-label?        uint32
   |     +--ro vc-remote-label?       uint32
   |     +--ro vc-local-mtu?          uint32
   |     +--ro vc-remote-mtu?         uint32
   |     +--ro vc-local-type?         uint32
   |     +--ro vc-remote-type?        uint32
   |     +--ro vc-proto-tnnl [vc-proto-name]
   |     |  +--ro vc-proto-name          string
   |     |  +--ro vc-ldp-tunnel-id?      uint32
   |     |  +--ro vc-ldp-name?           string
   |     |  +--ro vc-peer-cos-enabled?   boolean
   |     |  +--ro vc-peer-cos-value?     uint8
   |     +--ro vc-assigned-lsp [vc-lsp-name]
   |        +--ro vc-lsp-name    string
   +--ro bd-vc-peer-state [vc-id]
      +--ro vc-id                 uint32
      +--ro bd-vc-peer-counter
      |  +--ro no-of-peer-configured?    uint32
      |  +--ro no-of-peer-operational?   uint32
      +--ro bd-vc-peer-data [vc-peer-address]
         +--ro vc-peer-address         inet:ipv4-address
         +--ro vc-peer-state?          string
         +--ro vc-peer-uptime?         string
         +--ro vc-peer-load-balance?   boolean
         +--ro vc-peer-cos-enabled?    boolean
         +--ro vc-peer-cos-value?      uint8
         +--ro vc-ldp-tnnl-in-use?     string
         +--ro vc-local-label?         uint32
         +--ro vc-remote-label?        uint32
         +--ro vc-local-mtu?           uint32
         +--ro vc-remote-mtu?          uint32
         +--ro vc-local-type?          uint32
         +--ro vc-remote-type?         uint32
         +--ro vc-proto-tnnl [vc-proto-name]
         |  +--ro vc-proto-name          string
         |  +--ro vc-ldp-tunnel-id?      uint32
         |  +--ro vc-ldp-name?           string
         |  +--ro vc-peer-cos-enabled?   boolean
         |  +--ro vc-peer-cos-value?     uint8
         +--ro vc-assigned-lsp [vc-lsp-name]
            +--ro vc-lsp-name    string
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-qos-cpu

Manages the central processing unit (CPU) Quality of Service (QoS).

External augmentations

```
module: brocade-qos-mls
      +--rw qos-cpu:cpu
         +--rw qos-cpu:slot [slot-id]
            +--rw qos-cpu:slot-id       slotid
            +--rw qos-cpu:port-group /*drop-node-name*/
               +--rw qos-cpu:port  /*alt-name:port*/
               |  +--rw qos-cpu:port-shaper /*alt-name:shaper*/
               |     +--rw qos-cpu:port-shaper-rate?         shaper-rate /*alt-name:rate*/
               |     +--rw qos-cpu:port-shaper-burst-size?   burst-size /*alt-name:busrt*/
               +--rw qos-cpu:group [group-id]
                  +--rw qos-cpu:group-id                    groupid
                  +--rw qos-cpu:group-config-shaper-wfq /*drop-node-name*/
                     +--rw qos-cpu:group-shaper
                     |  +--rw qos-cpu:group-shaper-rate?         shaper-rate /*alt-name:rate*/
                     |  +--rw qos-cpu:group-shaper-burst-size?   burst-size /*alt-name:busrt*/
                     +--rw qos-cpu:group-wfq
                     |  +--rw qos-cpu:group-wfq-weight?   weight-value /*alt-name:weight*/
                     +--rw qos-cpu:group-prio [group-prio-id] /*drop-node-name*/
                        +--rw qos-cpu:group-prio-id                  priority /*alt-name:prio*/
                        +--rw qos-cpu:group-prio-config-shaper-wfq /*drop-node-name*/
                           +--rw qos-cpu:group-prio-shaper
                           |  +--rw qos-cpu:group-prio-shaper-rate?         shaper-rate /*alt-
name:rate*/
                           |  +--rw qos-cpu:group-prio-shaper-burst-size?   burst-size /*alt-
name:busrt*/
                           +--rw qos-cpu:group-prio-wfq
                              +--rw qos-cpu:group-prio-wfq-weight?   weight-value /*alt-name:weight*/
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-qos-mls

Manages the Quality of Service (QoS).

Top-level container

```
module: brocade-qos-mls
   +--rw qos
      +--rw map
      |  +--rw cos-mutation [name]
      |  |  +--rw name                    map-name-type
      |  |  +--rw cos-to-cos-mappings [from-cos]
      |  |     +--rw from-cos    cos-id-type
      |  |     +--rw to
      |  |        +--rw to-cos?   cos-id-type
      |  +--rw cos-traffic-class [name]
      |  |  +--rw name                      map-name-type
      |  |  +--rw cos-to-tc-dp-mappings [from-cos]
      |  |     +--rw from-cos    cos-id-type
      |  |     +--rw to
      |  |        +--rw to-traffic-class?     traffic-class-id-type
      |  |        +--rw to-drop-precedence?   drop-precedence-id-type
      |  +--rw cos-dscp [name]
      |  |  +--rw name                     map-name-type
      |  |  +--rw cos-to-dscp-mappings [from-cos]
      |  |     +--rw from-cos    cos-id-type
      |  |     +--rw to
      |  |        +--rw to-dscp?   dscp-id-type
      |  +--rw traffic-class-cos [traffic-class-cos-map-name]
      |  |  +--rw traffic-class-cos-map-name    map-name-type
      |  |  +--rw tc-dp-to-cos-mapping [from-traffic-class from-drop-precedence]
      |  |     +--rw from-traffic-class      traffic-class-id-type
      |  |     +--rw from-drop-precedence    drop-precedence-id-type
      |  |     +--rw to
      |  |        +--rw to-cos?   cos-id-type
      |  +--rw traffic-class-mutation [name]
      |  |  +--rw name                                map-name-type
      |  |  +--rw traffic-class-mutation-mappings [from-traffic-class]
      |  |     +--rw from-traffic-class    traffic-class-id-type
      |  |     +--rw to
      |  |        +--rw to-traffic-class?   traffic-class-id-type
      |  +--rw traffic-class-dscp [name]
      |  |  +--rw name                               map-name-type
      |  |  +--rw traffic-class-to-dscp-mappings [from-traffic-class]
      |  |     +--rw from-traffic-class    traffic-class-id-type
      |  |     +--rw to
      |  |        +--rw to-dscp?   dscp-id-type
      |  +--rw dscp-mutation [dscp-mutation-map-name]
      |  |  +--rw dscp-mutation-map-name    map-name-type
      |  |  +--rw dscp-to-dscp-mapping [dscp-in-values]
      |  |     +--rw dscp-in-values    dscp-id-range-type
      |  |     +--rw to
      |  |        +--rw to-value?   dscp-id-type
      |  +--rw dscp-traffic-class [dscp-traffic-class-map-name]
      |  |  +--rw dscp-traffic-class-map-name    map-name-type
      |  |  +--rw dscp-to-tc-dp-mapping [dscp-in-values]
      |  |     +--rw dscp-in-values    dscp-id-range-type
      |  |     +--rw to
      |  |        +--rw to-value?             traffic-class-id-type
      |  |        +--rw to-drop-precedence?   drop-precedence-id-type
      |  +--rw dscp-cos [dscp-cos-map-name]
      |     +--rw dscp-cos-map-name      map-name-type
      |     +--rw dscp-to-cos-mapping [dscp-in-values]
      |        +--rw dscp-in-values    dscp-id-range-type
      |        +--rw to
      |           +--rw to-value?   cos-id-type
      +--rw red-profile [profile-id]
      |  +--rw profile-id          red-profile-id-type
```

```
|  +--rw min-threshold       int32
|  +--rw max-threshold       int32
|  +--rw drop-probability    int32
+--rw tx-queue
|  +--rw tx-queue-limit?   uint32
|  +--rw scheduler
|     +--rw strict-priority
|        +--rw priority-number?           int32
|        +--rw scheduler-type?            enumeration
|        +--rw dwrr-traffic-class0?       int32
|        +--rw dwrr-traffic-class1?       int32
|        +--rw dwrr-traffic-class2?       int32
|        +--rw dwrr-traffic-class3?       int32
|        +--rw dwrr-traffic-class4?       int32
|        +--rw dwrr-traffic-class5?       int32
|        +--rw dwrr-traffic-class6?       int32
|        +--rw dwrr-traffic-class-last?   int32
+--rw rx-queue
|  +--rw rx-queue-limit?   uint32
+--rw qos-cpu:cpu
|  +--rw qos-cpu:slot [slot-id]
|     +--rw qos-cpu:slot-id       slotid
|     +--rw qos-cpu:port-group
|        +--rw qos-cpu:port
|        |  +--rw qos-cpu:port-shaper
|        |     +--rw qos-cpu:port-shaper-rate?         shaper-rate
|        |     +--rw qos-cpu:port-shaper-burst-size?   burst-size
|        +--rw qos-cpu:group [group-id]
|           +--rw qos-cpu:group-id                  groupid
|           +--rw qos-cpu:group-config-shaper-wfq
|              +--rw qos-cpu:group-shaper
|              |  +--rw qos-cpu:group-shaper-rate?         shaper-rate
|              |  +--rw qos-cpu:group-shaper-burst-size?   burst-size
|              +--rw qos-cpu:group-wfq
|              |  +--rw qos-cpu:group-wfq-weight?   weight-value
|              +--rw qos-cpu:group-prio [group-prio-id]
|                 +--rw qos-cpu:group-prio-id                   priority
|                 +--rw qos-cpu:group-prio-config-shaper-wfq
|                    +--rw qos-cpu:group-prio-shaper
|                    |  +--rw qos-cpu:group-prio-shaper-rate?         shaper-rate
|                    |  +--rw qos-cpu:group-prio-shaper-burst-size?   burst-size
|                    +--rw qos-cpu:group-prio-wfq
|                       +--rw qos-cpu:group-prio-wfq-weight?   weight-value
+--rw qos-cpu:qos-cpu-queue
   +--rw qos-cpu:cpu
      +--rw qos-cpu:queue [id]
         +--rw qos-cpu:id            queue-id-type
         +--rw qos-cpu:rate-limit?   rate-limit-type
```

External augmentations

```
module:brocade-interafce
+--rw qos-mls:storm-control
   |  |  |  +--rw qos-mls:ingress [protocol-type]
   |  |  |     +--rw qos-mls:protocol-type    enumeration
   |  |  |     +--rw qos-mls:rate-format?     enumeration
   |  |  |     +--rw qos-mls:rate-bps?        rate-limit-bps-type
   |  |  |     +--rw qos-mls:rate-percent?    rate-limit-percentage-type
   |  |  |     +--rw qos-mls:bum-action?      enumeration

module:brocade-interafce
|  |  +--rw qos-mls:qos
   |  |  |  +--rw qos-mls:default-cos?          cos-id-type
   |  |  |  +--rw qos-mls:default-tc?           traffic-class-id-type
   |  |  |  +--rw qos-mls:trust
   |  |  |  |  +--rw qos-mls:trust-cos?    empty
   |  |  |  |  +--rw qos-mls:trust-dscp?   empty
   |  |  |  +--rw qos-mls:cos-mutation?         map-name-type
   |  |  |  +--rw qos-mls:traffic-class-cos?    map-name-type
```

```
|  |  |  +--rw qos-mls:cos-traffic-class?    map-name-type
|  |  |  +--rw qos-mls:dscp-mutation?        map-name-type
|  |  |  +--rw qos-mls:dscp-traffic-class?   map-name-type
|  |  |  +--rw qos-mls:dscp-cos?             map-name-type
|  |  |  +--rw qos-mls:random-detect
|  |  |  |  +--rw qos-mls:traffic-class [red-tc-value]
|  |  |  |     +--rw qos-mls:red-tc-value      traffic-class-id-type
|  |  |  |     +--rw qos-mls:red-profile-id?   uint32
|  |  |  +--rw qos-mls:drop-monitor
|  |  |  |  +--rw qos-mls:drop-monitor-enable?   empty
|  |  |  +--rw qos-mls:flowcontrol
|  |  |  |  +--rw qos-mls:link-level-flowcontrol
|  |  |  |  |  +--rw qos-mls:flowcontrol-tx?   enumeration
|  |  |  |  |  +--rw qos-mls:flowcontrol-rx?   enumeration
|  |  |  |  +--rw qos-mls:pfc [pfc-cos]
|  |  |  |     +--rw qos-mls:pfc-cos               cos-id-type
|  |  |  |     +--rw qos-mls:pfc-flowcontrol-tx    enumeration
|  |  |  |     +--rw qos-mls:pfc-flowcontrol-rx    enumeration
|  |  |  +--rw qos-mls:rx-queue
|  |  |     +--rw qos-mls:cos-threshold
|  |  |     |  +--rw qos-mls:cos0-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos1-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos2-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos3-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos4-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos5-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos6-threshold?   uint32
|  |  |     |  +--rw qos-mls:cos7-threshold?   uint32
|  |  |     +--rw qos-mls:unicast
|  |  |     |  +--rw qos-mls:queue-size [traffic-class]
|  |  |     |     +--rw qos-mls:traffic-class     traffic-class-id-type
|  |  |     |     +--rw qos-mls:min-queue-size?   min-queue-size-type
|  |  |     |     +--rw qos-mls:max-queue-size?   max-queue-size-type
|  |  |     +--rw qos-mls:multicast
|  |  |        +--rw qos-mls:guarantee-rate?     guarantee-rate-type
|  |  |        +--rw qos-mls:best-effort-rate?   best-effort-rate-type
|  |  |        +--rw qos-mls:queue-size [traffic-class]
|  |  |           +--rw qos-mls:traffic-class     traffic-class-id-type
|  |  |           +--rw qos-mls:min-queue-size?   min-queue-size-type
|  |  |           +--rw qos-mls:max-queue-size?   max-queue-size-type
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-qos-mpls

Manages the MPLS Quality of Service (QoS).

Top-level container

```
module: brocade-qos-mpls
   +--rw qos-mpls
      +--rw map
      |  +--rw exp-traffic-class [exp-traffic-class-map-name]
      |  |  +--rw exp-traffic-class-map-name    map-name-type
      |  |  +--rw exp [exp-in-values]
      |  |     +--rw exp-in-values    uint32
      |  |     +--rw to
      |  |        +--rw priority?          uint32
      |  |        +--rw drop-precedence?   uint32
      |  +--rw traffic-class-exp [traffic-class-exp-map-name]
      |  |  +--rw traffic-class-exp-map-name    map-name-type
      |  |  +--rw priority [priority-in-values]
      |  |     +--rw priority-in-values    uint32
      |  |     +--rw drop-precedence?      uint32
      |  |     +--rw to?                   empty
      |  |     +--rw exp?                  uint32
      |  +--rw dscp-exp [dscp-exp-map-name]
      |  |  +--rw dscp-exp-map-name    map-name-type
      |  |  +--rw dscp [dscp-in-values]
      |  |     +--rw dscp-in-values    uint32
      |  |     +--rw to
      |  |        +--rw exp?   uint32
      |  +--rw exp-dscp [exp-dscp-map-name]
      |  |  +--rw exp-dscp-map-name    map-name-type
      |  |  +--rw exp [exp-in-values]
      |  |     +--rw exp-in-values    uint32
      |  |     +--rw to
      |  |        +--rw dscp?   uint32
      |  +--rw inexp-outexp [inexp-outexp-map-name]
      |     +--rw inexp-outexp-map-name    map-name-type
      |     +--rw in-exp [in-exp-in-values]
      |        +--rw in-exp-in-values    int32
      |        +--rw to
      |           +--rw out-exp?   int32
      +--rw apply-qos-mpls:map-apply
         +--rw apply-qos-mpls:apply-exp-traffic-class-map-name
         |  +--rw (apply-exp-traffic-class)?
         |  |  +--:(ca-map-name-cmd1)
         |  |  |  +--rw apply-qos-mpls:map-name-cmd1?       map-name-type
         |  |  +--:(ca-all-zero-map-cmd1)
         |  |  |  +--rw apply-qos-mpls:all-zero-map-cmd1?   empty
         |  |  +--:(ca-default-map-cmd1)
         |  |     +--rw apply-qos-mpls:default-map-cmd1?    empty
         |  +--rw apply-qos-mpls:All-cmd1?            empty
         +--rw apply-qos-mpls:apply-traffic-class-exp-map-name
         |  +--rw (apply-traffic-class-exp)?
         |  |  +--:(ca-map-name-cmd2)
         |  |  |  +--rw apply-qos-mpls:map-name-cmd2?       map-name-type
         |  |  +--:(ca-all-zero-map-cmd2)
         |  |  |  +--rw apply-qos-mpls:all-zero-map-cmd2?   empty
         |  |  +--:(ca-default-map-cmd2)
         |  |     +--rw apply-qos-mpls:default-map-cmd2?    empty
         |  +--rw apply-qos-mpls:All-cmd2?            empty
         +--rw apply-qos-mpls:apply-dscp-exp-map-name
         |  +--rw (apply-dscp-exp)?
         |  |  +--:(ca-map-name-cmd3)
         |  |  |  +--rw apply-qos-mpls:map-name-cmd3?       map-name-type
         |  |  +--:(ca-all-zero-map-cmd3)
         |  |  |  +--rw apply-qos-mpls:all-zero-map-cmd3?   empty
         |  |  +--:(ca-default-map-cmd3)
         |  |     +--rw apply-qos-mpls:default-map-cmd3?    empty
```

```
|  +--rw apply-qos-mpls:All-cmd3?            empty
+--rw apply-qos-mpls:apply-exp-dscp-map-name
|  +--rw (apply-exp-dscp)?
|  |  +--:(ca-map-name-cmd4)
|  |  |  +--rw apply-qos-mpls:map-name-cmd4?       map-name-type
|  |  +--:(ca-all-zero-map-cmd4)
|  |  |  +--rw apply-qos-mpls:all-zero-map-cmd4?   empty
|  |  +--:(ca-default-map-cmd4)
|  |     +--rw apply-qos-mpls:default-map-cmd4?    empty
|  +--rw apply-qos-mpls:All-cmd4?            empty
+--rw apply-qos-mpls:apply-inexp-outexp-map-name
   +--rw (apply-inexp-outexp)?
   |  +--:(ca-map-name-cmd5)
   |  |  +--rw apply-qos-mpls:map-name-cmd5?       map-name-type
   |  +--:(ca-all-zero-map-cmd5)
   |  |  +--rw apply-qos-mpls:all-zero-map-cmd5?   empty
   |  +--:(ca-default-map-cmd5)
   |     +--rw apply-qos-mpls:default-map-cmd5?    empty
   +--rw apply-qos-mpls:All-cmd5?            empty
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-qos-mqc

Describes the data model for modular Quality of Service (QoS).

Top-level container

```
module: brocade-qos-mqc
   +--rw police-remark-profile [profile-name]
   |  +--rw profile-name    profile-name-type
   |  +--rw action [classification-type action-type]
   |     +--rw classification-type    enumeration
   |     +--rw action-type            enumeration
   |     +--rw set
   |     |  +--rw cos?             qos-mls:cos-id-type
   |     |  +--rw traffic-class?   qos-mls:traffic-class-id-type
   |     |  +--rw dscp?            qos-mls:dscp-id-type
   |     +--rw map
   |        +--rw cos-mutation?             map-name-type
   |        +--rw cos-traffic-class?        map-name-type
   |        +--rw cos-dscp?                 map-name-type
   |        +--rw traffic-class-mutation?   map-name-type
   |        +--rw traffic-class-cos?        map-name-type
   |        +--rw traffic-class-dscp?       map-name-type
   |        +--rw dscp-mutation?            map-name-type
   |        +--rw dscp-traffic-class?       map-name-type
   |        +--rw dscp-cos?                 map-name-type
   +--rw class-map [name]
   |  +--rw name     map-name-type
   |  +--rw match
   |     +--rw access-group
   |        +--rw access-group-name?   mac-ip-acl-name
   +--rw policy-map [name]
   |  +--rw name     map-name-type
   |  +--rw class [cl-name]
   |     +--rw cl-name                   map-name-type
   |     +--rw police
   |     |  +--rw cir?                   uint64
   |     |  +--rw cbs?                   uint64
   |     |  +--rw eir?                   uint64
   |     |  +--rw ebs?                   uint64
   |     |  +--rw classification-type?   enumeration
   |     |  +--rw remark-profile?        profile-name-type
   |     +--rw set
   |     |  +--rw set_cos_tc
   |     |  |  +--rw cos?             uint8
   |     |  |  +--rw traffic-class?   uint8
   |     |  +--rw set_dscp
   |     |     +--rw dscp?   uint16
   |     +--rw span
   |     |  +--rw session?   session-type
   |     +--rw map
   |     |  +--rw cos-mutation?         map-name-type
   |     |  +--rw cos-traffic-class?    map-name-type
   |     |  +--rw dscp-cos?             map-name-type
   |     |  +--rw dscp-traffic-class?   map-name-type
   |     |  +--rw dscp-mutation?        map-name-type
   |     +--rw sflow-profile?            sflow:profile-name-type
   |     +--rw shape
   |     |  +--rw shaping_rate?   shaping-rate-limit
   |     +--rw scheduler
   |     |  +--rw strict-priority
   |     |     +--rw priority-number?          uint8
   |     |     +--rw scheduler-type?           enumeration
   |     |     +--rw dwrr-traffic-class0?      uint32
   |     |     +--rw dwrr-traffic-class1?      uint32
   |     |     +--rw dwrr-traffic-class2?      uint32
   |     |     +--rw dwrr-traffic-class3?      uint32
   |     |     +--rw dwrr-traffic-class4?      uint32
```

```
|     |     +--rw dwrr-traffic-class5?       uint32
|     |     +--rw dwrr-traffic-class6?       uint32
|     |     +--rw dwrr-traffic-class-last?   uint32
|     |     +--rw TC1?                       shaping-rate-limit
|     |     +--rw TC2?                       shaping-rate-limit
|     |     +--rw TC3?                       shaping-rate-limit
|     |     +--rw TC4?                       shaping-rate-limit
|     |     +--rw TC5?                       shaping-rate-limit
|     |     +--rw TC6?                       shaping-rate-limit
|     |     +--rw TC7?                       shaping-rate-limit
|     +--rw priority-mapping-table
|        +--rw import
|           +--rw cee?   map-name-type
+--rw system-qos
   +--rw qos
      +--rw service-policy [direction policy-map-name]
         +--rw direction          enumeration
         +--rw policy-map-name    map-name-type
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-ras

Provides a data model for managing log collections, such as those used by supportSave and copy support operations, and for USB management.

Top-level container

```
module: brocade-ras
   +--rw copy
   |  +--rw support
   |  |  +---x ftp
   |  |  |  +--ro input
   |  |  |  |  +--ro user         string
   |  |  |  |  +--ro host         string
   |  |  |  |  +--ro directory    directory-path
   |  |  |  |  +--ro password?    string
   |  |  |  |  +--ro timeout?     timeout-value
   |  |  |  |  +--ro module?      string
   |  |  |  |  +--ro linecard?    string
   |  |  |  |  +--ro group?       string
   |  |  |  |  +--ro use-vrf?     common-def:vrf-name
   |  |  |  +--ro output
   |  |  |     +--ro supportSaveResult
   |  |  |        +--ro status-code    copy-support-status
   |  |  |        +--ro status-str?    string
   |  |  +---x scp
   |  |  |  +--ro input
   |  |  |  |  +--ro user         string
   |  |  |  |  +--ro host         string
   |  |  |  |  +--ro directory    directory-path
   |  |  |  |  +--ro password?    string
   |  |  |  |  +--ro timeout?     timeout-value
   |  |  |  |  +--ro module?      string
   |  |  |  |  +--ro linecard?    string
   |  |  |  |  +--ro group?       string
   |  |  |  |  +--ro use-vrf?     common-def:vrf-name
   |  |  |  +--ro output
   |  |  |     +--ro supportSaveResult
   |  |  |        +--ro status-code    copy-support-status
   |  |  |        +--ro status-str?    string
   |  |  +---x usb
   |  |     +--ro input
   |  |     |  +--ro directory    string
   |  |     |  +--ro timeout?     timeout-value
   |  |     |  +--ro module?      string
   |  |     +--ro output
   |  |        +--ro supportSaveResult
   |  |           +--ro status-code    copy-support-status
   |  |           +--ro status-str?    string
   |  +---x support-interactive
   |     +--ro input
   |     +--ro output
   |        +--ro result?   string
   +--rw logging
   |  +--rw raslog
   |  |  +--rw interface
   |  |  |  +--rw description?   empty
   |  |  +--rw message
   |  |  |  +--rw msgId [msgId]
   |  |  |     +--rw msgId       string
   |  |  |     +--rw severity?   message-severity
   |  |  |     +--rw suppress?   empty
   |  |  |     +--rw syslog?     empty
   |  |  +--rw module
   |  |  |  +--rw modId [modId]
   |  |  |     +--rw modId    string
   |  |  +--rw console?     raslog-console
```

```
|  +--rw syslog-server [syslogip use-vrf]
|  |  +--rw syslogip         inet:ip-address
|  |  +--rw use-vrf          common-def:vrf-name
|  |  +--rw syslog-secure
|  |     +--rw secure?   empty
|  |     +--rw port?     uint16
|  +--rw auditlog
|  |  +--rw class [class]
|  |     +--rw class    audit-class
|  +--rw syslog-facility
|  |  +--rw local?   facility-enum
|  +--rw syslog-client
|     +--rw localip    iptype-enum
+--rw destination_console
|  +--rw logging
|     +--rw raslog
|        +---x console
|           +--ro input
|              +--ro (ras-con)?
|                 +--:(stop)
|                 |  +--ro stop     uint32
|                 +--:(start)
|                    +--ro start?   empty
+--rw system
|  +--rw usb
|  |  +---x on
|  |  |  +--ro input
|  |  +---x off
|  |  |  +--ro input
|  |  +---x dir
|  |  |  +--ro input
|  |  +---x remove
|  |     +--ro input
|  |        +--ro directory    string
|  |        +--ro file         string
|  +--rw switch-attributes
|     +--rw chassis-name?   string
|     +--rw host-name?      string
+--rw support
|  +--rw autoupload-param
|  |  +--rw hostip       inet:ip-address
|  |  +--rw username     string
|  |  +--rw directory    string
|  |  +--rw protocol     string
|  |  +--rw password?    string
|  +--rw support-param
|  |  +--rw hostip       inet:ip-address
|  |  +--rw username     string
|  |  +--rw directory    string
|  |  +--rw protocol     string
|  |  +--rw password?    string
|  +--rw autoupload
|  |  +--rw enable?   empty
|  +--rw ffdc?               empty
+--rw logtest
|  +--rw raslog
|     +---x gmsg
|        +--ro input
|           +--ro messageID?   string
+--rw auditlog
|  +---x gmsg
|     +--ro input
|        +--ro messageID?   string
+--rw resource-monitor
   +---x memory
   |  +--ro input
   |     +--ro (srm)?
   |        +--:(enable)
   |        |  +--ro enable?    empty
   |        +--:(disable)
   |           +--ro disable?   empty
   +---x cpu
```

```
         +--ro input
            +--ro (srm)?
               +--:(enable)
               |  +--ro enable?    empty
               +--:(disable)
                  +--ro disable?   empty
```

RPCs

```
+---x bna-config-cmd
  |  +--ro input
  |  |  +--ro src     string
  |  |  +--ro dest    string
  |  +--ro output
  |     +--ro session-id       uint32
  |     +--ro status           cmd-status
  |     +--ro status-string?   string
  +---x bna-config-cmd-status
     +--ro input
     |  +--ro session-id    uint32
     +--ro output
        +--ro status           cmd-status
        +--ro status-string?   string
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-ras-ext

Provides a data model for managing RASlog-related information.

Top-level container

```
module: brocade-ras-ext
   +--rw rasman
      +---x message
      |  +--ro input
      |  |  +--ro id    string
      |  +--ro output
      +---x module
      |  +--ro input
      |  |  +--ro name    string
      |  +--ro output
      +---x description
      |  +--ro input
      |  +--ro output
      +---x type
         +--ro input
         |  +--ro value    enumeration
         +--ro output
```

External augmentations

```
module: brocade-common-def
   +--rw show
   |  +--rw ras-extensions:support
```

RPCs

```
+---x show-raslog
  |  +--ro input
  |  |  +--ro number-of-latest-events?   uint32
  |  +--ro output
  |     +--ro show-all-raslog
  |     |  +--ro number-of-entries?   uint32
  |     |  +--ro raslog-entries
  |     |     +--ro index?                    uint32
  |     |     +--ro message-id?               string
  |     |     +--ro date-and-time-info?       string
  |     |     +--ro severity?                 enumeration
  |     |     +--ro repeat-count?             uint32
  |     |     +--ro message?                  string
  |     |     +--ro message-flag?             enumeration
  |     |     +--ro log-type?                 enumeration
  |     |     +--ro switch-or-chassis-name?   string
  |     +--ro cmd-status-error-msg?   string
  +---x show-support-save-status
  |  +--ro output
  |     +--ro show-support-save-status
  |        +--ro status?                    enumeration
  |        +--ro message?                   string
  |        +--ro percentage-of-completion?   uint32
  +---x show-system-info
     +--ro output
        +--ro show-system-info
           +--ro stack-mac?   ietfyang:mac-address
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-rmon

Provides a data model for managing Remote Monitor (RMON). This data model facilitates configuring RMON events, RMON alarms, RMON Ethernet group statistics collections, and collection histories.

Top-level container

```
module: brocade-rmon
   +--rw rmon
      +--rw event-entry [event-index] /*alt-name:event*/
      |  +--rw event-index          event-index-type
      |  +--rw event-description?   event-description-type /*alt-name:description*/
      |  +--rw log?                 empty
      |  +--rw event-community?     string /*alt-name:trap*/
      |  +--rw event-owner?         owner-string /*alt-name:owner*/
      +--rw alarm-entry [alarm-index] /*alt-name:alarm*/
         +--rw alarm-index                  alarm-index-type
         +--rw snmp-oid                     snmp-oid-type /*drop-node-name*/
         +--rw alarm-interval               uint32 /*alt-name:interval*/
         +--rw alarm-sample                 alarm-sample-type /*drop-node-name*/; /*alt-name:type*/
         +--rw alarm-rising-threshold       uint32 /*alt-name:rising-threshold*/
         +--rw alarm-rising-event-index     alarm-rising-event-index-type /*alt-name:event*/
         +--rw alarm-falling-threshold?     uint32 /*alt-name:falling-threshold*/
         +--rw alarm-falling-event-index?   alarm-falling-event-index-type /*alt-name:event*/
         +--rw alarm-owner?                 owner-string /*alt-name:owner*/
```

External augmentations

```
module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw rmon:rmon
   |  |  |  +--rw rmon:collection
   |  |  |     +--rw rmon:ether-stats-entry [ether-stats-index] /*alt-name:stats*/
   |  |  |     |  +--rw rmon:ether-stats-index    ether-stats-index-type
   |  |  |     |  +--rw rmon:ether-stats-owner?   owner-string /*alt-name:owner*/
   |  |  |     +--rw rmon:history-control-entry [history-control-index] /*alt-name:history*/
   |  |  |        +--rw rmon:history-control-index                 history-control-index-type
   |  |  |        +--rw rmon:history-control-buckets-requested?   history-control-buckets-requested-
type /*alt-name:buckets*/
   |  |  |        +--rw rmon:history-control-interval?            history-control-interval-type /*alt-
name:interval*/
   |  |  |        +--rw rmon:history-control-owner?               owner-string /*alt-name:owner*/
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-rtm

Provides a data model for IP routes.

External augmentations

```
module: brocade-common-def
   +--rw ip
   |  +--rw rtm:rtm-config /*drop-node-name*/
   |     +--rw rtm:router-id?      inet:ipv4-address
   |     +--rw rtm:load-sharing?   uint32
   |     +--rw rtm:route
   |        +--rw rtm:static-route-nh [static-route-dest static-route-next-hop] /*drop-node-name*/
   |        |  +--rw rtm:static-route-dest        inet:ipv4-prefix
   |        |  +--rw rtm:static-route-next-hop    inet:ipv4-address /*drop-node-name*/
   |        |  +--rw rtm:route-attributes /*drop-node-name*/
   |        |     +--rw rtm:metric?     uint32 /*drop-node-name*/
   |        |     +--rw rtm:distance?   uint32
   |        |     +--rw rtm:tag?        uint32
   |        +--rw rtm:static-route-nh-vrf [static-route-next-vrf-dest next-hop-vrf static-route-next-
hop] /*drop-node-name*/
   |        |  +--rw rtm:static-route-next-vrf-dest    inet:ipv4-prefix
   |        |  +--rw rtm:next-hop-vrf                  string
   |        |  +--rw rtm:static-route-next-hop         inet:ipv4-address /*drop-node-name*/
   |        +--rw rtm:static-route-oif-vrf [static-route-next-vrf-dest next-hop-vrf static-route-oif-
type static-route-oif-name] /*drop-node-name*/
   |        |  +--rw rtm:static-route-next-vrf-dest    inet:ipv4-prefix
   |        |  +--rw rtm:next-hop-vrf                  string
   |        |  +--rw rtm:static-route-oif-type         enumeration
   |        |  +--rw rtm:static-route-oif-name         string /*alt-name:InterfaceNumber*/
   |        +--rw rtm:static-route-oif [static-route-dest static-route-oif-type static-route-oif-name] /
*drop-node-name*/
   |        |  +--rw rtm:static-route-dest        inet:ipv4-prefix
   |        |  +--rw rtm:static-route-oif-type    enumeration
   |        |  +--rw rtm:static-route-oif-name    string /*alt-name:InterfaceNumber*/
   |        |  +--rw rtm:route-attributes /*drop-node-name*/
   |        |     +--rw rtm:metric?     uint32 /*drop-node-name*/
   |        |     +--rw rtm:distance?   uint32
   |        |     +--rw rtm:tag?        uint32
   |        +--rw rtm:static
   |           +--rw rtm:bfd
   |              +--rw rtm:bfd-static-route [bfd-static-route-dest bfd-static-route-src] /*drop-node-
name*/
   |                 +--rw rtm:bfd-static-route-dest      inet:ipv4-address
   |                 +--rw rtm:bfd-static-route-src       inet:ipv4-address
   |                 +--rw rtm:bfd-interval-attributes /*drop-node-name*/
   |                    +--rw rtm:interval?     uint16
   |                    +--rw rtm:min-rx?       uint16
   |                    +--rw rtm:multiplier?   uint8
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-sec-services

Provides a data model for configuring a Telnet server or a Secure Shell (SSH) server.

Top-level container

```
module: brocade-sec-services
   +--rw telnet-sa
   |  +--rw telnet
   |     +--rw server
   |     |  +--rw shutdown?          empty
   |     |  +--rw standby
   |     |  |  +--rw enable?   empty
   |     |  +--rw telnet-vrf-cont
   |     |     +--rw use-vrf [use-vrf-name]
   |     |        +--rw use-vrf-name           string
   |     |        +--rw telnet-vrf-shutdown?   empty
   |     +--rw client
   |        +--rw source-interface
   |           +--rw interface-type?   source-interface-type
   |           +--rw interface-name?   union
   +--rw ssh-sa
      +--rw ssh
         +--rw server
         |  +--rw shutdown?          empty
         |  +--rw key-exchange?      string
         |  +--rw rekey-interval?    uint32
         |  +--rw ssh-server-port?   uint32
         |  +--rw cipher?            string
         |  +--rw mac?               string
         |  +--rw standby
         |  |  +--rw enable?   empty
         |  +--rw key
         |  |  +--rw rsa?     rsa-bits-size
         |  |  +--rw ecdsa?   ecdsa-bits-size
         |  |  +--rw dsa?     empty
         |  +--rw ssh-vrf-cont
         |     +--rw use-vrf [use-vrf-name]
         |        +--rw use-vrf-name        string
         |        +--rw ssh-vrf-shutdown?   empty
         +--rw client
            +--rw cipher?             string
            +--rw mac?                string
            +--rw key-exchange?       string
            +--rw source-interface
               +--rw interface-type?   source-interface-type
               +--rw interface-name?   union
```

External augmentations

```
module: brocade-common-def
   +--rw show
   |  +--rw brcd-sec-services:telnet
   |  |  +--rw brcd-sec-services:server

module: brocade-common-def
   +--rw show
   |  +--rw brcd-sec-services:ssh
   |  |  +--rw brcd-sec-services:server
   |  |  +--rw brcd-sec-services:client
```

Actions

Display the Telnet server status:

```
module: brocade-common-def
   +--rw show
   |  +--rw brcd-sec-services:telnet
   |  |  +--rw brcd-sec-services:server
   |  |     +--ro brcd-sec-services:status
   |  |        +--ro brcd-sec-services:input
   |  |        +--ro brcd-sec-services:output
```

Display the SSH server status:

```
module: brocade-common-def
   +--rw show
   |  +--rw brcd-sec-services:ssh
   |  |  +--rw brcd-sec-services:server
   |  |  |  +--ro brcd-sec-services:status
   |  |  |     +--ro brcd-sec-services:input
   |  |  |     +--ro brcd-sec-services:output
   |  |  +--rw brcd-sec-services:client
   |  |     +--ro brcd-sec-services:status
   |  |        +--ro brcd-sec-services:input
   |  |        +--ro brcd-sec-services:output
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-sflow

Provides a data model for configuring sFlow—an industry standard technology for monitoring high-speed switched networks.

Top-level container

```
module: brocade-sflow
   +--rw sflow
      +--rw enable?             empty
      +--rw source-interface
      |  +--rw interface-type?   source-interface-type
      |  +--rw interface-name?   union
      +--rw collector [collector-ip-address collector-port-number use-vrf]
      |  +--rw collector-ip-address     inet:ip-address
      |  +--rw collector-port-number    uint32
      |  +--rw use-vrf                  common-def:vrf-name
      +--rw polling-interval?   uint32
      +--rw sample-rate?        uint32
```

External augmentations

```
module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw sflow:sflow
   |  |  |  +--rw sflow:enable?             empty
   |  |  |  +--rw sflow:polling-interval?   uint32
   |  |  |  +--rw sflow:sample-rate?        uint32
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-snmp

Provides a data model for configuring the SNMP server.

Top-level container

```
module: brocade-snmp
   +--rw snmp-server
      +--rw context [context-name]
      |  +--rw context-name    string
      |  +--rw vrf-name?       string
      +--rw community [community]
      |  +--rw community    string
      |  +--rw groupname?   string
      +--rw user [username]
      |  +--rw username         string
      |  +--rw groupname?       string
      |  +--rw auth?            enumeration
      |  +--rw auth-password?   string
      |  +--rw priv?            enumeration
      |  +--rw priv-password?   string
      |  +--rw encrypted?       empty
      +--rw v3host [hostip username]
      |  +--rw hostip              inet:host
      |  +--rw username            string
      |  +--rw udp-port?           host-port
      |  +--rw notifytype?         enumeration
      |  +--rw engineid?           string
      |  +--rw severity-level?     sev-level
      |  +--rw use-vrf?            use-vrf-option
      |  +--rw source-interface
      |     +--rw (source-interface-type)?
      |        +--:(loopback)
      |        |  +--rw loopback?   intf-loopback-port-type
      |        +--:(ve)
      |           +--rw ve?         ve-type
      +--rw host [ip community]
      |  +--rw ip                  inet:host
      |  +--rw version?            host-version
      |  +--rw community           string
      |  +--rw udp-port?           host-port
      |  +--rw severity-level?     sev-level
      |  +--rw use-vrf?            use-vrf-option
      |  +--rw source-interface
      |     +--rw (source-interface-type)?
      |        +--:(loopback)
      |        |  +--rw loopback?   intf-loopback-port-type
      |        +--:(ve)
      |           +--rw ve?         ve-type
      +--rw agtconfig /*drop-node-name*/
      |  +--rw contact?     system-contact
      |  +--rw location?    system-location
      |  +--rw sys-descr?   system-description
      +--rw enable
      |  +--rw trap
      |     +--rw trap-flag?   empty /*drop-node-name*/
      +--rw engineID-drop /*drop-node-name*/
         +--rw engineID
      |  +--rw engineID
      |     +--rw local?   snmp-engineID
      +--rw view [viewname mibtree]
      |  +--rw viewname          string
      |  +--rw mibtree           string
      |  +--rw mibtree-access?   mib-access
      +--rw group [group-name group-version]
      |  +--rw group-name         string
      |  +--rw group-version      group-version-type
      |  +--rw group-auth-mode?   auth-mode-option
```

```
|  +--rw read?              string
|  +--rw write?             string
|  +--rw notify?            string
+--rw mib
   +--rw community-map [community]
      +--rw community    string
      +--rw context?     string
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-span

Provides a data model for managing the Switch Port Analyzer (SPAN) port mirroring feature.

Top-level container

```
module: brocade-span
   +--rw monitor
      +--rw session [session-number]
         +--rw session-number    session-type
         +--rw description?      string
         +--rw span-command /*drop-node-name*/
            +--rw source?                enumeration /*drop-node-name*/
            +--rw src-ethernet?          enumeration /*drop-node-name*/
            +--rw src-ethernet-val?      span-if-type  /*drop-node-name*/
            +--rw destination?           enumeration /*drop-node-name*/
            +--rw dest-ethernet?         enumeration /*drop-node-name*/
            +--rw dest-vlan-val?           interface:vlan-type
            +--rw dest-ethernet-val?     span-if-type /*drop-node-name*/
            +--rw dest-port-channel-val? interface:portchannel-type /*drop-node-name*/
            +--rw direction?                      enumeration
```

External augmentations

```
module: brocade-interface
   +--rw interface-vlan
   |  +--rw interface
   |     +--rw vlan [name]
   |     |  +--rw span:remote-span?      empty /*alt-name:rspan-vlan*/
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-ssm-operational

Manages the switch security module (SSM).

Use this module to manage the SSM.

Top-level container

```
module: brocade-ssm-operational
+--ro acl-state
   |  +--ro vxlan-acl
   |     +--ro extended-data [acl-name seq-num]
   |        +--ro acl-name            string
   |        +--ro seq-num             uint32
   |        +--ro permit-deny?        string
   |        +--ro dst-vtep-ip?        inet:ipv4-address
   |        +--ro src-vtep-ip?        inet:ipv4-address
   |        +--ro vni?                string
   |        +--ro vni-mask?           uint16
   |        +--ro native-tag?         string
   |        +--ro dst-ip?             inet:ipv4-address
   |        +--ro dst-ip-mask?        uint16
   |        +--ro src-ip?             inet:ipv4-address
   |        +--ro src-ip-mask?        uint16
   |        +--ro dst-port?           uint16
   |        +--ro src-port?           uint16
   |        +--ro count?              uint64
   |        +--ro byte-count?         uint64
   |        +--ro transit-name?       string
   |        +--ro sflow?              boolean
   |        +--ro redir-interface?    string
   |        +--ro mirror-interface?   string
   +--ro overlay-transit-state
   |  +--ro overlay-transit-name?   string
   |  +--ro extended-data [acl-name seq-num]
   |     +--ro acl-name            string
   |     +--ro seq-num             uint32
   |     +--ro permit-deny?        string
   |     +--ro dst-vtep-ip?        inet:ipv4-address
   |     +--ro src-vtep-ip?        inet:ipv4-address
   |     +--ro vni?                string
   |     +--ro vni-mask?           uint16
   |     +--ro native-tag?         string
   |     +--ro dst-ip?             inet:ipv4-address
   |     +--ro dst-ip-mask?        uint16
   |     +--ro src-ip?             inet:ipv4-address
   |     +--ro src-ip-mask?        uint16
   |     +--ro dst-port?           uint16
   |     +--ro src-port?           uint16
   |     +--ro count?              uint64
   |     +--ro byte-count?         uint64
   |     +--ro transit-name?       string
   |     +--ro sflow?              boolean
   |     +--ro redir-interface?    string
   |     +--ro mirror-interface?   string
   +--ro vxlan-stats-acl-state
      +--ro extended-stats-data [acl-name seq-num]
         +--ro acl-name            string
         +--ro seq-num             uint32
         +--ro permit-deny?        string
         +--ro dst-vtep-ip?        inet:ipv4-address
         +--ro src-vtep-ip?        inet:ipv4-address
         +--ro vni?                string
         +--ro vni-mask?           uint16
         +--ro native-tag?         string
         +--ro dst-ip?             inet:ipv4-address
         +--ro dst-ip-mask?        uint16
```

```
+--ro src-ip?              inet:ipv4-address
+--ro src-ip-mask?         uint16
+--ro dst-port?            uint16
+--ro src-port?            uint16
+--ro count?               uint64
+--ro byte-count?          uint64
+--ro sflow?               boolean
+--ro redir-interface?     string
+--ro mirror-interface?    string
```

History

Release version	History
17s.1.00	This Yang Module was introduced.

brocade-sysdiag-operational

This management module is an instrumentation to manage the system diagnostics. Use this module to the manage system diagnostics.

Top-level container

```
module: brocade-sysdiag-operational
   +--ro tm-state
   |  +--ro tmdevicestataggr [slot tower]
   |  |  +--ro slot                                      uint16
   |  |  +--ro tower                                     uint16
   |  |  +--ro ingress-total-pkt-cnt-aggr?               uint64
   |  |  +--ro cpu-pkt-cnt-aggr?                         uint64
   |  |  +--ro nif-pkt-cnt-aggr?                         uint64
   |  |  +--ro oamp-pkt-cnt-aggr?                        uint64
   |  |  +--ro olp-pkt-cnt-aggr?                         uint64
   |  |  +--ro rcy-pkt-cnt-aggr?                         uint64
   |  |  +--ro mmu-pkt-cnt-aggr?                         uint64
   |  |  +--ro enque-pkt-cnt-aggr?                       uint64
   |  |  +--ro deque-pkt-cnt-aggr?                       uint64
   |  |  +--ro total-discard-pkt-cnt-aggr?               uint64
   |  |  +--ro deleted-pkt-cnt-aggr?                     uint64
   |  |  +--ro invalid-queue-pkt-aggr?                   uint64
   |  |  +--ro ipt-fdt-pkt-cnt-aggr?                     uint64
   |  |  +--ro ipt-crc-err-pkt-cnt-aggr?                 uint64
   |  |  +--ro uni-pkt-cnt-aggr?                         uint64
   |  |  +--ro fqp-pkt-cnt-aggr?                         uint64
   |  |  +--ro uni-discard-pkt-cnt-aggr?                 uint64
   |  |  +--ro mcast-discard-pkt-cnt-aggr?               uint64
   |  |  +--ro mcast-pkt-cnt-aggr?                       uint64
   |  |  +--ro ehp-discard-cnt-aggr?                     uint64
   |  |  +--ro prp-uc-discard-cnt-aggr?                  uint64
   |  |  +--ro prp-mc-discard-cnt-aggr?                  uint64
   |  |  +--ro prp-sop-uc-discard-cnt-aggr?              uint64
   |  |  +--ro prp-sop-mc-discard-cnt-aggr?              uint64
   |  |  +--ro ehp-mc-high-discard-cnt-aggr?             uint64
   |  |  +--ro ehp-mc-low-discard-cnt-aggr?              uint64
   |  |  +--ro erpp-lag-pruning-discard-cnt-aggr?        uint64
   |  |  +--ro erpp-pmf-discard-cnt-aggr?                uint64
   |  |  +--ro erpp-vlan-membership-discard-cnt-aggr?    uint64
   |  |  +--ro epe-discard-cnt-aggr?                     uint64
   |  |  +--ro epe-cnt-aggr?                             uint64
   |  |  +--ro tot-egr-pkt-cnt-aggr?                     uint64
   |  +--ro non-empty-voq [slot tower]
   |  |  +--ro slot        uint16
   |  |  +--ro tower       uint16
   |  |  +--ro voq-id*     uint32
   |  |  +--ro voq-size*   uint32
   |  +--ro buf-pool-stats [slot tower]
   |  |  +--ro slot                    uint16
   |  |  +--ro tower                   uint16
   |  |  +--ro dram-size?              uint16
   |  |  +--ro bd-occ-core0?           uint64
   |  |  +--ro buf-occ-bytes-core0?    uint64
   |  |  +--ro bd-occ-core1?           uint64
   |  |  +--ro buf-occ-bytes-core1?    uint64
   |  +--ro tmcpustatsslot [slot-id cpugroup-id priority]
   |  |  +--ro slot-id         uint16
   |  |  +--ro cpugroup-id     uint16
   |  |  +--ro priority        uint16
   |  |  +--ro enquepkt?       uint64
   |  |  +--ro enqueubytes?    uint64
   |  |  +--ro discardpkt?     uint64
   |  |  +--ro discardbytes?   uint64
   |  |  +--ro currdepth?      uint64
   |  |  +--ro maxdepth?       uint64
```

```
|  +--ro tmcpustatsslotallgrp [slot-id priority]
|  |  +--ro slot-id         uint16
|  |  +--ro priority        uint16
|  |  +--ro enquepkt?       uint64
|  |  +--ro enqueubytes?    uint64
|  |  +--ro discardpkt?     uint64
|  |  +--ro discardbytes?   uint64
|  |  +--ro currdepth?      uint64
|  |  +--ro maxdepth?       uint64
|  +--ro tm-top-discard-pkt-data [slot tower id]
|  |  +--ro slot          uint16
|  |  +--ro tower         uint16
|  |  +--ro id            uint16
|  |  +--ro dest-port?    string
|  |  +--ro priority?     uint16
|  |  +--ro queue?        uint32
|  |  +--ro discardpkt?   uint64
|  +--ro tm-top-max-queue-depth-data [slot tower id]
|  |  +--ro slot               uint16
|  |  +--ro tower              uint16
|  |  +--ro id                 uint16
|  |  +--ro dest-port?         string
|  |  +--ro priority?          uint16
|  |  +--ro queue?             uint32
|  |  +--ro max-queue-depth?   uint32
|  |  +--ro min-threshold?     uint32
|  |  +--ro max-utilization?   uint32
|  +--ro tm-max-buff-util-data [slot tower]
|  |  +--ro slot             uint16
|  |  +--ro tower            uint16
|  |  +--ro max-buff-size?   uint64
|  |  +--ro max-buff-util?   uint16
|  +--ro tmvoqstatistics [ing-slot ing-tower egr-voqid]
|     +--ro ing-slot        uint16
|     +--ro ing-tower       uint16
|     +--ro egr-voqid       uint16
|     +--ro priority?       uint16
|     +--ro enquepkt?       uint64
|     +--ro enqueubytes?    uint64
|     +--ro discardpkt?     uint64
|     +--ro discardbytes?   uint64
|     +--ro currdepth?      uint64
|     +--ro maxdepth?       uint64
+--ro cpu-interface-state [ifname]
   +--ro ifname    string
   +--ro stats
      +--ro gos-link-status?                 string
      +--ro gos-tx-pkts-cnt?                 uint64
      +--ro gos-tx-bytes-cnt?                uint64
      +--ro gos-tx-errors-cnt?               uint64
      +--ro gos-tx-drop-cnt?                 uint64
      +--ro gos-tx-overrun-error-cnt?        uint64
      +--ro gos-tx-carrier-error-cnt?        uint64
      +--ro gos-rx-pkts-cnt?                 uint64
      +--ro gos-rx-bytes-cnt?                uint64
      +--ro gos-rx-errors-cnt?               uint64
      +--ro gos-rx-drop-cnt?                 uint64
      +--ro gos-rx-overrun-error-cnt?        uint64
      +--ro gos-rx-frame-error-cnt?          uint64
      +--ro host-link-status?                string
      +--ro host-tx-pkts-cnt?                uint64
      +--ro host-tx-bytes-cnt?               uint64
      +--ro host-tx-errors-cnt?              uint64
      +--ro host-tx-drop-cnt?                uint64
      +--ro host-tx-overrun-error-cnt?       uint64
      +--ro host-tx-carrier-error-cnt?       uint64
      +--ro host-rx-pkts-cnt?                uint64
      +--ro host-rx-bytes-cnt?               uint64
      +--ro host-rx-errors-cnt?              uint64
      +--ro host-rx-drop-cnt?                uint64
      +--ro host-rx-overrun-error-cnt?       uint64
      +--ro host-rx-frame-error-cnt?         uint64
```

```
+--ro host-tx-aborted-error-cnt?        uint64
+--ro host-tx-fifo-error-cnt?           uint64
+--ro host-tx-timeout-cnt?              uint64
+--ro host-tx-flow-control-xon-cnt?     uint64
+--ro host-tx-flow-control-xoff-cnt?    uint64
+--ro host-tx-pkts-64bytes-cnt?         uint64
+--ro host-tx-pkts-64-127bytes-cnt?     uint64
+--ro host-tx-pkts-128-255bytes-cnt?    uint64
+--ro host-tx-pkts-256-511bytes-cnt?    uint64
+--ro host-tx-pkts-512-1023bytes-cnt?   uint64
+--ro host-tx-pkts-1024bytes-max-cnt?   uint64
+--ro host-tx-bcast-pkts-cnt?           uint64
+--ro host-tx-mcast-pkts-cnt?           uint64
+--ro host-rx-crc-error-cnt?            uint64
+--ro host-rx-fifo-error-cnt?           uint64
+--ro host-rx-missed-errors-cnt?        uint64
+--ro host-rx-no-dma-resource-cnt?      uint64
+--ro host-rx-flow-control-xon-cnt?     uint64
+--ro host-rx-flow-control-xoff-cnt?    uint64
+--ro host-rx-pkts-64bytes-cnt?         uint64
+--ro host-rx-pkts-64-127bytes-cnt?     uint64
+--ro host-rx-pkts-128-255bytes-cnt?    uint64
+--ro host-rx-pkts-256-511bytes-cnt?    uint64
+--ro host-rx-pkts-512-1023bytes-cnt?   uint64
+--ro host-rx-pkts-1024bytes-max-cnt?   uint64
+--ro host-rx-good-pkts-cnt?            uint64
+--ro host-rx-bcast-pkts-cnt?           uint64
+--ro host-rx-mcast-pkts-cnt?           uint64
```

History

Release version	History
17s.1.00	This Yang Module was introduced.

brocade-sysmgr

Displays the blade processor (BP) switch statistics for the switch.

External augmentations

```
module: brocade-common-def
   +--rw sysmgr:bpswitch
   |     +--ro sysmgr:clear-stats
   |        +--ro sysmgr:input
   |        +--ro sysmgr:output

module: brocade-common-def
   |  +--rw sysmgr:bpswitch
   |  |  +--rw sysmgr:show-stats /*drop-node-name/
   |  |     +--ro sysmgr:stats
   |  |        +--ro sysmgr:input
   |  |        |  +--ro (show-bpswitch-type)?
   |  |        |     +--:(stats1)
   |  |        |     |  +--ro sysmgr:port?     uint32
   |  |        |     +--:(stats2)
   |  |        |        +--ro sysmgr:global?   empty
   |  |        +--ro sysmgr:output
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-sysmon

Manage the traffic manager (TM) and switch fabric (SFM) error monitoring.

Use this module to mange TM and SFM error monitoring.

Top-level container

```
module: brocade-sysmon
+--rw sysmon
      +--rw fe-access-check
      |  +--rw fe-access-check-disable?              empty /*alt-name:disable/
      |  +--rw fe-access-check-interval?             uint16/*alt-name:poll-interval/
      |  +--rw fe-access-check-threshold?            uint8 /*alt-name:threshold/
      |  +--rw fe-access-check-recovery-threshold?   uint8 /*alt-name:recovery-threshold/
      |  +--rw fe-access-check-action?               enumeration
      +--rw link-crc-monitoring
      |  +--rw link-crc-mon-disable?     empty
      |  +--rw link-crc-mon-interval?    uint16
      |  +--rw link-crc-mon-threshold?   uint8
      |  +--rw link-crc-mon-action?      enumeration
      +--rw sfm-walk
         +--rw sfm-walk-auto?                   empty
         +--rw sfm-walk-dis-redundancy-check?   empty
         +--rw sfm-walk-interval?               uint16
         +--rw sfm-walk-threshold?              uint16
```

History

Release version	History
17s.1.00	This Yang Module was introduced.

brocade-system

Provides a data model for system-related information.

RPCs

```
+---x get-system-uptime
     +--ro output
        +--ro show-system-uptime
        |  +--ro days?      common-def:time-interval-day
        |  +--ro hours?     common-def:time-interval-hour
        |  +--ro minutes?   common-def:time-interval-minute
        |  +--ro seconds?   common-def:time-interval-sec
        +--ro cmd-error?            string
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-system-capabilities

Displays system capabilities of the Brocade device.

Top-level container

```
module: brocade-system-capabilities
   +--ro capabilities
      +--ro power
      |  +--ro lc_sfm?       boolean
      |  +--ro psu_on_off?   boolean
      +--ro temperature
      |  +--ro tmpr_detail?   boolean
      +--ro qos
      |  +--ro mqc
      |     +--ro span?                 boolean
      |     +--ro vlan-based-actions?   boolean
      |     +--ro bd-based-actions?     boolean
      +--ro l3
      |  +--ro rpf?   boolean
      +--ro l2
      |  +--ro port_profile?        boolean
      |  +--ro overlap_vlan?        boolean
      |  +--ro rspan?               boolean
      |  +--ro mac_move?            boolean
      |  +--ro consistency_check?   boolean
      |  +--ro learning_mode?       boolean
      |  +--ro priority_tag?        boolean
      |  +--ro internal_nsm?        boolean
      +--ro ipv6
      |  +--ro ipv6Raguard?   boolean
      +--ro ssm
      |  +--ro aclTrafficType?   boolean
      +--ro lag
      |  +--ro PortchannelRedundancy?   boolean
      +--ro license
      |  +--ro eula_display?   boolean
      |  +--ro dpod_display?   boolean
      |  +--ro slot_display?   boolean
      +--ro tm?            boolean
      +--ro openflow
         +--ro ingress?   boolean
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-system-monitor

Provides a data model for configuring monitoring thresholds for field-replaceable units (FRUs) and for configuring Fabric Watch e-mail alerts.

When a threshold is breached or when a FRU is inserted or removed, a RASlog message is generated. Using this module, you can configure the marginal threshold and down threshold values for the following FRUs:

- Fans
- Power supplies
- Chassis ID (CID) card
- Each small form-factor pluggable (SFP) media interface
- Compact flash
- Management Module (MM)
- Line cards
- Switch Fabric Module (SFM)

Top-level container

```
module: brocade-system-monitor
   +--rw system-monitor
   |  +--rw fan
   |  |  +--rw threshold
   |  |  |  +--rw marginal-threshold?   uint32
   |  |  |  +--rw down-threshold?       uint32
   |  |  +--rw alert
   |  |     +--rw state?    supported-state
   |  |     +--rw action?   supported-actions
   |  +--rw power
   |  |  +--rw threshold
   |  |  |  +--rw marginal-threshold?   uint32
   |  |  |  +--rw down-threshold?       uint32
   |  |  +--rw alert
   |  |     +--rw state?    supported-state
   |  |     +--rw action?   supported-actions
   |  +--rw temp
   |  |  +--rw threshold
   |  |     +--rw marginal-threshold?   uint32
   |  |     +--rw down-threshold?       uint32
   |  +--rw cid-card
   |  |  +--rw threshold
   |  |  |  +--rw marginal-threshold?   uint32
   |  |  |  +--rw down-threshold?       uint32
   |  |  +--rw alert
   |  |     +--rw state?    supported-state
   |  |     +--rw action?   supported-actions
   |  +--rw compact-flash
   |  |  +--rw threshold
   |  |     +--rw marginal-threshold?   uint32
   |  |     +--rw down-threshold?       uint32
   |  +--rw MM
   |  |  +--rw threshold
   |  |     +--rw marginal-threshold?   uint32
   |  |     +--rw down-threshold?       uint32
   |  +--rw LineCard
   |  |  +--rw threshold
   |  |  |  +--rw marginal-threshold?   uint32
   |  |  |  +--rw down-threshold?       uint32
   |  |  +--rw alert
   |  |     +--rw state?    supported-state
   |  |     +--rw action?   supported-actions
```

```
|  +--rw SFM
|     +--rw threshold
|        +--rw marginal-threshold?   uint32
|        +--rw down-threshold?       uint32
+--rw system-monitor-mail
   +--rw fru
   |  +--rw enable?       empty
   |  +--rw email-list [email]
   |     +--rw email    string
   +--rw sfp
   |  +--rw enable?       empty
   |  +--rw email-list [email]
   |     +--rw email    string
   +--rw security
   |  +--rw enable?       empty
   |  +--rw email-list [email]
   |     +--rw email    string
   +--rw interface
   |  +--rw enable?       empty
   |  +--rw email-list [email]
   |     +--rw email    string
   +--rw relay [host-ip]
      +--rw host-ip        inet:host
      +--rw domain-name?   string
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-system-monitor-ext

Provides a data model for returning system monitor data.

External augmentations

```
module: brocade-common-def
   +--rw show
   |  +--rw system-monitor-extensions:system
```

RPCs

```
+---x show-system-monitor
     +--ro output
        +--ro switch-status
           +--ro switch-name?           string
           +--ro switch-ip?             inet:ip-address
           +--ro report-time?           ietfyang:date-and-time
           +--ro switch-state?          system-monitor-health-state-enum
           +--ro switch-state-reason?   string
           +--ro component-status
           |  +--ro component-name?    string
           |  +--ro component-state?   system-monitor-health-state-enum
           +--ro port-status
              +--ro port-area?    uint32
              +--ro port-name?    string
              +--ro port-state?   system-monitor-port-state-enum
```

Actions

```
module: brocade-common-def
   +--rw show
   |  +--rw system-monitor-extensions:system
   |  |  +--ro system-monitor-extensions:monitor
   |  |     +--ro system-monitor-extensions:input
   |  |     +--ro system-monitor-extensions:output
   |  |        +--ro system-monitor-extensions:switch-status
   |  |           +--ro system-monitor-extensions:switch-name?        string
   |  |           +--ro system-monitor-extensions:switch-ip?          inet:ip-address
   |  |           +--ro system-monitor-extensions:report-time?        ietfyang:date-and-time
   |  |           +--ro system-monitor-extensions:switch-state?       system-monitor-health-state-enum
   |  |           +--ro system-monitor-extensions:component-status
   |  |           |  +--ro system-monitor-extensions:component-name?    string
   |  |           |  +--ro system-monitor-extensions:component-state?   system-monitor-health-state-enum
   |  |           +--ro system-monitor-extensions:faulty-port
   |  |              +--ro system-monitor-extensions:port-name?   string
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-terminal

Provides a data model for managing CLI session features such as timeout.

Top-level container

```
module: brocade-terminal
   +--rw terminal-cfg /*drop-node-name*/
      +--rw line [sessionid]
         +--rw sessionid       terminal-type
         +--rw exec-timeout?   uint32
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-threshold-monitor

Provides a data model monitoring components by alerting the user when thresholds are exceeded.

The following components are monitored:

- CPU usage
- 1-, 10-, and 40-Gigabit Ethernet interfaces
- Memory usage
- Security parameters, including Telnet violations and login violations

Top-level container

```
module: brocade-threshold-monitor
   +--rw threshold-monitor-hidden /*drop-node-name*/
      +--rw threshold-monitor
         +--rw sfp
         |  +--rw apply?    supported-config
         |  +--rw pause?    empty
         |  +--rw policy [policy_name] /*drop-node-name*/
         |     +--rw policy_name    string
         |     +--rw area [type area_value] /*drop-node-name*/
         |        +--rw type          enumeration
         |        +--rw area_value    enumeration /*alt-name:"area"*/
         |        +--rw threshold
         |        |  +--rw high-threshold?   int32
         |        |  +--rw low-threshold?    int32
         |        |  +--rw buffer?           int32
         |        +--rw alert
         |           +--rw above
         |           |  +--rw above-highthresh-action?   supported-actions /*alt-name:"highthresh-
action"*/
         |           +--rw below
         |              +--rw below-highthresh-action?   supported-actions /*alt-name:"highthresh-
action"*/
         |              +--rw below-lowthresh-action?    supported-actions /*alt-name:"lowthresh-
action"*/
         +--rw Cpu
         |  +--rw poll?      uint32
         |  +--rw retry?     uint32
         |  +--rw limit?     uint32
         |  +--rw actions?   enumeration
         +--rw Memory
         |  +--rw poll?         uint32
         |  +--rw retry?        uint32
         |  +--rw limit?        uint32
         |  +--rw high-limit?   uint32
         |  +--rw low-limit?    uint32
         |  +--rw actions?      enumeration
         +--rw Buffer
            +--rw poll?      uint32
            +--rw retry?     uint32
            +--rw limit?     uint32
            +--rw actions?   enumeration
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-threshold-monitor-ext

Provides a data model for returning threshold monitor data.

External augmentations

```
module: brocade-common-def
   +--rw show
   |  +--rw defaults
   |  |  +--rw threshold-monitor-extensions:threshold
```

RPCs

```
+---x show-system-monitor
      +--ro output
         +--ro switch-status
            +--ro switch-name?           string
            +--ro switch-ip?             inet:ip-address
            +--ro report-time?           ietfyang:date-and-time
            +--ro switch-state?          system-monitor-health-state-enum
            +--ro switch-state-reason?   string
            +--ro component-status
            |  +--ro component-name?    string
            |  +--ro component-state?   system-monitor-health-state-enum
            +--ro port-status
               +--ro port-area?    uint32
               +--ro port-name?    string
               +--ro port-state?   system-monitor-port-state-enum
```

Actions

```
module: brocade-common-def
   +--rw show
   |  +--rw defaults
   |  |  +--rw threshold-monitor-extensions:threshold
   |  |     +--ro threshold-monitor-extensions:sfp
   |  |     |  +--ro threshold-monitor-extensions:input
   |  |     |     +--ro threshold-monitor-extensions:type    sfp-type
   |  |     +--ro threshold-monitor-extensions:interface
   |  |     |  +--ro threshold-monitor-extensions:input
   |  |     |     +--ro threshold-monitor-extensions:type    enumeration
   |  |     +--ro threshold-monitor-extensions:security
```

Show default threshold and alert values for SFP:

```
module: brocade-common-def
   +--rw show
   |  +--rw defaults
   |  |  +--rw threshold-monitor-extensions:threshold
   |  |     +--ro threshold-monitor-extensions:sfp
   |  |     |  +--ro threshold-monitor-extensions:input
   |  |     |     +--ro threshold-monitor-extensions:type    sfp-type
```

Show default threshold and alert values for interface:

```
module: brocade-common-def
   +--rw show
   |  +--rw defaults
   |  |  +--rw threshold-monitor-extensions:threshold
   |  |     +--ro threshold-monitor-extensions:interface
   |  |     |  +--ro threshold-monitor-extensions:input
   |  |     |     +--ro threshold-monitor-extensions:type    enumeration
```

Display default threshold and alert values for security:

```
module: brocade-common-def
   +--rw show
   |  +--rw defaults
   |  |  +--rw threshold-monitor-extensions:threshold
   |  |     +--ro threshold-monitor-extensions:security
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-tm-stats

Manages the traffic manager statistics.

RPCS

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-topology-group

Manages the topology group-related commands.

Top-level container

```
module: brocade-topology-group
+--rw topology-group [topology-group-id]
      +--rw topology-group-id       uint32
      +--rw master-vlan?            uint32
      +--rw member-vlan
      |  +--rw member-vlan-add?      ui32-member-vlan-range /*alt-name:add/
      |  +--rw member-vlan-remove?   ui32-member-vlan-range /*alt-name:remove/
      +--rw member-bridge-domain
         +--rw member-bridge-domain-add?      bd:ui32-bridge-domain-range /*alt-name:add/
         +--rw member-bridge-domain-remove?   bd:ui32-bridge-domain-range /*alt-name:remove/
```

History

Release version	History
17s.1.00	This YANG module was introduced.

brocade-tunnels

Provides a data model to manage tunnels configuration.

Top-level container

```
module: brocade-tunnels
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-udld

Provides data model to manage Unidirectional Link Detection (UDLD) protocol configuration.

External augmentations

```
module: brocade-interface
   +--rw protocol
   |  +--rw udld:udld?
   |  |  +--rw udld:hello?        uint32
   |  |  +--rw udld:multiplier?   uint32
   |  |  +--rw udld:shutdown?     empty

module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw udld:udld
   |  |  |  +--rw udld:udld-enable?   empty /*alt-name:"enable"*/
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-vcs

Provides a data model for managing the Brocade VCS fabric.

VCS fabric refers to the ability of a group of physical Ethernet switches, interconnected in an arbitrary way using the regular front-end data ports, to appear as one unified and transparent Ethernet switching service to the external network. The network that connects these individual switches is referred to as the fabric. The group of physical Ethernet switches in the fabric is referred to as the cluster.

The cluster behaves like a logical switch to the external network.

Top-level container

```
module: brocade-vcs
   +--ro vcsmode
   |  +--ro vcs-mode            boolean
   |  +--ro vcs-cluster-mode    boolean
   +--ro local-node
      +--ro swbd-number    uint32
```

RPCs

```
+---x get-last-config-update-time
  |  +--ro output
  |     +--ro last-config-update-time?   uint64
  +---x get-last-config-update-time-for-xpaths
     +--ro input
     |  +--ro xpath-strings [xpath-string]
     |     +--ro xpath-string    string
     +--ro output
        +--ro last-config-update-time-for-xpaths [xpath-string]
           +--ro xpath-string                string
           +--ro last-config-update-time?   uint64
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-vlan

Provides a data model for managing VLAN classifiers.

Top-level container

```
module: brocade-vlan
   +--rw vlan
      +--rw dot1q
         +--rw tag
            +--rw native?   empty
```

brocade-vrf

Provides a data model for managing Virtual Routing and Forwarding (VRF).

Top-level container

```
module: brocade-vrf
   +--rw vrf [vrf-name]
      +--rw vrf-name          common-def:vrf-name
      +--rw address-family
      |  +--rw ip
      |  |  +--rw unicast?
      |  |     +--rw max-route?       uint32
      |  |     +--rw arp:arp-entry [arp-ip-address]
      |  |     |  +--rw arp:arp-ip-address       inet:ipv4-address
      |  |     |  +--rw arp:mac-address-value?   mac-access-list:mac-address-type
      |  |     |  +--rw arp:interfacename?       enumeration
      |  |     |  +--rw (interfacetype)?
      |  |     |     +--:(Ethernet)
      |  |     |     |  +--rw arp:Ethernet?            interface:interface-type
      |  |     |     +--:(Ve)
      |  |     |        +--rw arp:Ve?                  interface:vlan-type
      |  |     +--rw rtm:ip
      |  |        +--rw rtm:route
      |  |        |  +--rw rtm:static-route-nh [static-route-dest static-route-next-hop]
      |  |        |  |  +--rw rtm:static-route-dest        inet:ipv4-prefix
      |  |        |  |  +--rw rtm:static-route-next-hop    inet:ipv4-address
      |  |        |  |  +--rw rtm:route-attributes
      |  |        |  |     +--rw rtm:metric?     uint32
      |  |        |  |     +--rw rtm:distance?   uint32
      |  |        |  |     +--rw rtm:tag?        uint32
      |  |        |  +--rw rtm:static-route-nh-vrf [static-route-next-vrf-dest next-hop-vrf static-
route-next-hop]
      |  |        |  |  +--rw rtm:static-route-next-vrf-dest    inet:ipv4-prefix
      |  |        |  |  +--rw rtm:next-hop-vrf                  common-def:vrf-name
      |  |        |  |  +--rw rtm:static-route-next-hop         inet:ipv4-address
      |  |        |  +--rw rtm:static-route-oif-vrf [static-route-next-vrf-dest next-hop-vrf static-
route-oif-type static-route-oif-name]
      |  |        |  |  +--rw rtm:static-route-next-vrf-dest    inet:ipv4-prefix
      |  |        |  |  +--rw rtm:next-hop-vrf                  common-def:vrf-name
      |  |        |  |  +--rw rtm:static-route-oif-type         enumeration
      |  |        |  |  +--rw rtm:static-route-oif-name         string
      |  |        |  +--rw rtm:static-route-oif [static-route-dest static-route-oif-type static-route-
oif-name]
      |  |        |     +--rw rtm:static-route-dest        inet:ipv4-prefix
      |  |        |     +--rw rtm:static-route-oif-type    enumeration
      |  |        |     +--rw rtm:static-route-oif-name    string
      |  |        |     +--rw rtm:route-attributes
      |  |        |        +--rw rtm:metric?     uint32
      |  |        |        +--rw rtm:distance?   uint32
      |  |        |        +--rw rtm:tag?        uint32
      |  |        +--rw rtm:import
      |  |           +--rw rtm:routes [src-vrf route-map]
      |  |              +--rw rtm:src-vrf      common-def:vrf-name
      |  |              +--rw rtm:route-map    common-def:name-string63
      |  +--rw ipv6
      |     +--rw unicast?
      |        +--rw max-route?         uint32
      |        +--rw ipv6-route:ipv6
      |           +--rw ipv6-route:route
      |           |  +--rw ipv6-route:static-route-nh [static-route-dest static-route-next-hop]
      |           |  |  +--rw ipv6-route:static-route-dest        inet:ipv6-prefix
      |           |  |  +--rw ipv6-route:static-route-next-hop    inet:ipv6-address
      |           |  |  +--rw ipv6-route:route-attributes
      |           |  |     +--rw ipv6-route:metric?     uint32
      |           |  |     +--rw ipv6-route:distance?   uint32
      |           |  |     +--rw ipv6-route:tag?        uint32
      |           |  +--rw ipv6-route:static-route-oif [static-route-dest static-route-oif-type static-
```

```
route-oif-name]
      |           |  |  +--rw ipv6-route:static-route-dest        inet:ipv6-prefix
      |           |  |  +--rw ipv6-route:static-route-oif-type    enumeration
      |           |  |  +--rw ipv6-route:static-route-oif-name    string
      |           |  |  +--rw ipv6-route:route-attributes
      |           |  |     +--rw ipv6-route:metric?     uint32
      |           |  |     +--rw ipv6-route:distance?   uint32
      |           |  |     +--rw ipv6-route:tag?        uint32
      |           |  +--rw ipv6-route:link-local-static-route-nh [link-local-static-route-dest link-
local-nexthop link-local-route-oif-type link-local-route-oif-name]
      |           |  |  +--rw ipv6-route:link-local-static-route-dest    inet:ipv6-prefix
      |           |  |  +--rw ipv6-route:link-local-nexthop              inet:ipv6-address
      |           |  |  +--rw ipv6-route:link-local-route-oif-type       enumeration
      |           |  |  +--rw ipv6-route:link-local-route-oif-name       string
      |           |  |  +--rw ipv6-route:route-attributes
      |           |  |     +--rw ipv6-route:metric?     uint32
      |           |  |     +--rw ipv6-route:distance?   uint32
      |           |  |     +--rw ipv6-route:tag?        uint32
      |           |  +--rw ipv6-route:static-route-nh-vrf [static-route-next-vrf-dest next-hop-vrf
static-route-next-hop]
      |           |  |  +--rw ipv6-route:static-route-next-vrf-dest    inet:ipv6-prefix
      |           |  |  +--rw ipv6-route:next-hop-vrf                  common-def:vrf-name
      |           |  |  +--rw ipv6-route:static-route-next-hop         inet:ipv6-address
      |           |  +--rw ipv6-route:link-local-static-route-nh-vrf [static-route-next-vrf-dest next-
hop-vrf link-local-next-hop link-local-route-oif-type link-local-route-oif-name]
      |           |  |  +--rw ipv6-route:static-route-next-vrf-dest    inet:ipv6-prefix
      |           |  |  +--rw ipv6-route:next-hop-vrf                  common-def:vrf-name
      |           |  |  +--rw ipv6-route:link-local-next-hop           inet:ipv6-address
      |           |  |  +--rw ipv6-route:link-local-route-oif-type     enumeration
      |           |  |  +--rw ipv6-route:link-local-route-oif-name     string
      |           |  +--rw ipv6-route:ipv6-static-route-oif-vrf [static-route-next-vrf-dest next-hop-
vrf static-route-oif-type static-route-oif-name]
      |           |     +--rw ipv6-route:static-route-next-vrf-dest    inet:ipv6-prefix
      |           |     +--rw ipv6-route:next-hop-vrf                  common-def:vrf-name
      |           |     +--rw ipv6-route:static-route-oif-type         enumeration
      |           |     +--rw ipv6-route:static-route-oif-name         string
      |           +--rw ipv6-route:import
      |              +--rw ipv6-route:routes [src-vrf route-map]
      |                 +--rw ipv6-route:src-vrf      common-def:vrf-name
      |                 +--rw ipv6-route:route-map    common-def:name-string63
      +--rw ip
         +--rw vrf-router-id?   inet:ipv4-address
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-vrrp

Provides a data model for configuring the Virtual Router Redundancy Protocol (VRRP).

Use this module to enable VRRP globally, and to configure and enable VRRP on specific interfaces to share workload and provide router redundancy.

External augmentations

```
module: brocade-interface
+--rw vrrp:vrrp [vrid version]
   |  |  |  +--rw vrrp:vrid                      vrid-type
   |  |  |  +--rw vrrp:version                   uint8
   |  |  |  +--rw vrrp:use-v2-checksum?          empty
   |  |  |  +--rw vrrp:virtual-ip [virtual-ipaddr]
   |  |  |  |  +--rw vrrp:virtual-ipaddr    inet:ipv4-address
   |  |  |  +--rw vrrp:track
   |  |  |  |  +--rw vrrp:interface [interface-type interface-name]
   |  |  |  |     +--rw vrrp:interface-type    track-iftype
   |  |  |  |     +--rw vrrp:interface-name    track-ifname
   |  |  |  |     +--rw vrrp:track-priority?   uint8
   |  |  |  +--rw vrrp:advertisement-interval?   uint32
   |  |  |  +--rw vrrp:enable?                   empty
   |  |  |  +--rw vrrp:hold-time?                uint32
   |  |  |  +--rw vrrp:preempt-mode?             empty
   |  |  |  +--rw vrrp:arp
   |  |  |  |  +--rw vrrp:unicast-request
   |  |  |  |     +--rw vrrp:receive?   empty
   |  |  |  +--rw vrrp:priority?                 uint8
   |  |  |  +--rw vrrp:description?              string
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-vrrpv3

Provides a data model for configuring the Virtual Router Redundancy Protocol IPv6 (VRRPv3).

Use this module to enable VRRPv3 globally, and to configure and enable VRRPv3 on specific interfaces to share workload and provide router redundancy.

Top-level container

```
module: brocade-vrrpv3
   +--rw vrrp-global
      +--rw vrrp-acceptmode-disable?   empty
```

External augmentations

```
module: brocade-interface
+--rw vrrpv3:vrrpv3-group [vrid]
   |  |  |  |  +--rw vrrpv3:vrid                        vrid-type
   |  |  |  |  +--rw vrrpv3:use-v2-checksum?           empty
   |  |  |  |  +--rw vrrpv3:virtual-ip [virtual-ipaddr]
   |  |  |  |  |  +--rw vrrpv3:virtual-ipaddr    inet:ipv6-address
   |  |  |  |  +--rw vrrpv3:track
   |  |  |  |  |  +--rw vrrpv3:interface [interface-type interface-name]
   |  |  |  |  |     +--rw vrrpv3:interface-type    track-iftype
   |  |  |  |  |     +--rw vrrpv3:interface-name    track-ifname
   |  |  |  |  |     +--rw vrrpv3:track-priority?   uint8
   |  |  |  |  +--rw vrrpv3:advertisement-interval?   uint32
   |  |  |  |  +--rw vrrpv3:enable?                   empty
   |  |  |  |  +--rw vrrpv3:hold-time?                uint32
   |  |  |  |  +--rw vrrpv3:preempt-mode?             empty
   |  |  |  |  +--rw vrrpv3:priority?                 uint8
   |  |  |  |  +--rw vrrpv3:description?              string
   |  |  |  +--rw vrrpv3:vrrpv3e-group [vrid]
   |  |  |     +--rw vrrpv3:vrid                              vrrpe-vrid-type
   |  |  |     +--rw vrrpv3:virtual-ip [virtual-ipaddr]
   |  |  |     |  +--rw vrrpv3:virtual-ipaddr    inet:ipv6-address
   |  |  |     +--rw vrrpv3:track
   |  |  |     |  +--rw vrrpv3:interface [interface-type interface-name]
   |  |  |     |     +--rw vrrpv3:interface-type    track-iftype
   |  |  |     |     +--rw vrrpv3:interface-name    track-ifname
   |  |  |     |     +--rw vrrpv3:track-priority?   uint8
   |  |  |     +--rw vrrpv3:enable?                           empty
   |  |  |     +--rw vrrpv3:hold-time?                        uint32
   |  |  |     +--rw vrrpv3:preempt-mode?                     empty
   |  |  |     +--rw vrrpv3:priority?                         uint8
   |  |  |     +--rw vrrpv3:description?                      string
   |  |  |     +--rw vrrpv3:advertise-backup?                 empty
   |  |  |     +--rw vrrpv3:nd-advertisement-timer?           uint32
   |  |  |     +--rw vrrpv3:advertisement-interval-scale?     uint32
   |  |  |     +--rw vrrpv3:backup-advertisement-interval?    uint32
   |  |  |     +--rw vrrpv3:vrrpe-advertisement-interval?     uint32
   |  |  |     +--rw vrrpv3:short-path-forwarding
   |  |  |        +--rw vrrpv3:basic?             empty
   |  |  |        +--rw vrrpv3:revert-priority?   uint8
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-vxlan-visibility

Manages Virtual Extensible LAN (VXLAN) visibility commands. Use this module to access VXLAN visibility commands.

Top-level container

```
module: brocade-vxlan-visibility
   +--rw overlay
   |  +--rw access-list
   |     +--rw type
   |        +--rw vxlan
   |           +--rw standard [user-acl-name]
   |           |  +--rw user-acl-name    user-acl-name-type
   |           |  +--rw seq [seq-num]
   |           |     +--rw seq-num            uint32
   |           |     +--rw permit-deny?       enumeration /*drop-node-name*/
   |           |     +--rw (choice-dst-vtep-ip)?
   |           |     |  +--:(case-dst-vtep-ip)
   |           |     |  |  +--rw dst-vtep-ip?       inet:ipv4-address
   |           |     |  +--:(case-dst-vtep-ip-any)
   |           |     |     +--rw dst-vtep-ip-any?   empty
   |           |     +--rw (choice-src-vtep-ip)?
   |           |     |  +--:(case-src-vtep-ip)
   |           |     |  |  +--rw src-vtep-ip?       inet:ipv4-address
   |           |     |  +--:(case-src-vtep-ip-any)
   |           |     |     +--rw src-vtep-ip-any?   empty
   |           |     +--rw (choice-vni)?
   |           |     |  +--:(case-vni)
   |           |     |  |  +--rw vni?               uint32
   |           |     |  +--:(case-vni-any)
   |           |     |     +--rw vni-any?           empty
   |           |     +--rw vni-mask?          string
   |           |     +--rw count?             empty
   |           |     +--rw redirect?          interface:interface-type
   |           |     +--rw sflow?             empty
   |           +--rw extended [ext-user-acl-name]
   |              +--rw ext-user-acl-name    user-acl-name-type
   |              +--rw ext-seq [ext-seq-num]
   |                 +--rw ext-seq-num            uint32
   |                 +--rw ext-permit-deny?       enumeration
   |                 +--rw (choice-ext-dst-vtep-ip)?
   |                 |  +--:(case-ext-dst-vtep-ip)
   |                 |  |  +--rw ext-dst-vtep-ip?       inet:ipv4-address
   |                 |  +--:(case-ext-dst-vtep-ip-any)
   |                 |     +--rw ext-dst-vtep-ip-any?   empty
   |                 +--rw (choice-ext-src-vtep-ip)?
   |                 |  +--:(case-ext-src-vtep-ip)
   |                 |  |  +--rw ext-src-vtep-ip?       inet:ipv4-address
   |                 |  +--:(case-ext-src-vtep-ip-any)
   |                 |     +--rw ext-src-vtep-ip-any?   empty
   |                 +--rw (choice-ext-vni)?
   |                 |  +--:(case-ext-vni)
   |                 |  |  +--rw ext-vni?               uint32
   |                 |  +--:(case-ext-vni-any)
   |                 |     +--rw ext-vni-any?           empty
   |                 +--rw ext-vni-mask?          string
   |                 +--rw ext-count?             empty
   |                 +--rw ext-mirror?            interface:interface-type
   |                 +--rw ext-redirect?          interface:interface-type
   |                 +--rw ext-sflow?             empty
   |                 +--rw native?                empty
   |                 +--rw tag?                   enumeration
   |                 +--rw (choice-dst-ip)?
   |                 |  +--:(case-dst-ip-host) /*alt-name:"dst-ip-host"*/
   |                 |  |  +--rw dst-ip-host?           inet:ipv4-address
   |                 |  +--:(case-dst-ip)
   |                 |  |  +--rw dst-ip?                union
   |                 |  +--:(case-dst-ip-any)
```

```
|                  |     +--rw dst-ip-any?            empty
|                  +--rw (choice-src-ip)?
|                  |  +--:(case-src-ip-host) /*alt-name:"src-ip-host"*/
|                  |  |  +--rw src-ip-host?           inet:ipv4-address
|                  |  +--:(case-src-ip)
|                  |  |  +--rw src-ip?                union
|                  |  +--:(case-src-ip-any)
|                  |     +--rw src-ip-any?            empty
|                  +--rw (choice-dst-port)?
|                  |  +--:(case-dst-port)
|                  |  |  +--rw dst-port?              uint32
|                  |  +--:(case-dst-port-any)
|                  |     +--rw dst-port-any?          empty
|                  +--rw (choice-src-port)?
|                     +--:(case-src-port)
|                     |  +--rw src-port?              uint32
|                     +--:(case-src-port-any)
|                        +--rw src-port-any?          empty
+--rw overlay-transit [user-transit-name] /*alt-name:"overlay"*/
   +--rw user-transit-name    user-transit-name-type
   +--rw transit-overlay [access-group in-out]
      +--rw access-group    string
      +--rw in-out          enumeration /*drop-node-name*/
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-xstp

Provides a data model for managing the Spanning Tree Protocols globally and for each interface.

The data model supports Spanning Tree Protocol (STP), Rapid STP, Multiple Spanning Tree Protocol (MSTP), Per-VLAN Spanning Tree (PVST), and Rapid PVST.

External augmentations

```
module: brocade-interface
+--rw xstp:spanning-tree
   |        +--rw xstp:stp-shutdown?   empty
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-xstp-ext

Provides a data model for obtaining operational data about the Spanning Tree Protocol.

RPCs

```
+---x get-stp-brief-info
  |  +--ro input
  |  |  +--ro (request-type)?
  |  |     +--:(getnext-request)
  |  |        +--ro last-rcvd-instance
  |  |           +--ro instance-id?   uint32
  |  +--ro output
  |     +--ro spanning-tree-info
  |     |  +--ro stp-mode?   stp-type
  |     |  +--ro (spanning-tree-mode)?
  |     |     +--:(stp)
  |     |     |  +--ro stp
  |     |     |     +--ro root-bridge
  |     |     |     |  +--ro priority?        uint32
  |     |     |     |  +--ro bridge-id?       bridge-id-type
  |     |     |     |  +--ro hello-time?      uint32
  |     |     |     |  +--ro max-age?         uint32
  |     |     |     |  +--ro forward-delay?   uint32
  |     |     |     +--ro bridge
  |     |     |     |  +--ro priority?        uint32
  |     |     |     |  +--ro bridge-id?       bridge-id-type
  |     |     |     |  +--ro hello-time?      uint32
  |     |     |     |  +--ro max-age?         uint32
  |     |     |     |  +--ro forward-delay?   uint32
  |     |     |     +--ro port
  |     |     |        +--ro interface-type?              enumeration
  |     |     |        +--ro interface-name?              union
  |     |     |        +--ro spanningtree-enabled?        boolean
  |     |     |        +--ro if-index?                    uint64
  |     |     |        +--ro interface-id?                uint64
  |     |     |        +--ro if-role?                     stp-port-role
  |     |     |        +--ro if-state?                    stp-port-state
  |     |     |        +--ro external-path-cost?          uint32
  |     |     |        +--ro internal-path-cost?          uint32
  |     |     |        +--ro configured-path-cost?        uint32
  |     |     |        +--ro designated-port-id?          uint64
  |     |     |        +--ro port-priority?               uint32
  |     |     |        +--ro designated-bridge-id?        bridge-id-type
  |     |     |        +--ro port-hello-time?             uint32
  |     |     |        +--ro forward-transitions-count?   uint32
  |     |     |        +--ro received-stp-type?           stp-type
  |     |     |        +--ro transmitted-stp-type?        stp-type
  |     |     |        +--ro edge-port?                   on-off-type
  |     |     |        +--ro auto-edge?                   yes-no-type
  |     |     |        +--ro admin-edge?                  yes-no-type
  |     |     |        +--ro edge-delay?                  uint32
  |     |     |        +--ro configured-root-guard?       on-off-type
  |     |     |        +--ro oper-root-guard?             on-off-type
  |     |     |        +--ro boundary-port?               yes-no-type
  |     |     |        +--ro oper-bpdu-guard?             on-off-type
  |     |     |        +--ro oper-bpdu-filter?            on-off-type
  |     |     |        +--ro link-type?                   stp-link-type
  |     |     |        +--ro rx-bpdu-count?               uint64
  |     |     |        +--ro tx-bpdu-count?               uint64
  |     |     +--:(rstp)
  |     |     |  +--ro rstp
  |     |     |     +--ro root-bridge
  |     |     |     |  +--ro priority?        uint32
  |     |     |     |  +--ro bridge-id?       bridge-id-type
  |     |     |     |  +--ro hello-time?      uint32
  |     |     |     |  +--ro max-age?         uint32
  |     |     |     |  +--ro forward-delay?   uint32
```

```
|      |      |      +--ro bridge
|      |      |      |  +--ro priority?        uint32
|      |      |      |  +--ro bridge-id?       bridge-id-type
|      |      |      |  +--ro hello-time?      uint32
|      |      |      |  +--ro max-age?         uint32
|      |      |      |  +--ro forward-delay?   uint32
|      |      |      +--ro transmit-hold-count?   uint32
|      |      |      +--ro migrate-time?          uint32
|      |      |      +--ro port
|      |      |         +--ro interface-type?              enumeration
|      |      |         +--ro interface-name?              union
|      |      |         +--ro spanningtree-enabled?        boolean
|      |      |         +--ro if-index?                    uint64
|      |      |         +--ro interface-id?                uint64
|      |      |         +--ro if-role?                     stp-port-role
|      |      |         +--ro if-state?                    stp-port-state
|      |      |         +--ro external-path-cost?          uint32
|      |      |         +--ro internal-path-cost?          uint32
|      |      |         +--ro configured-path-cost?        uint32
|      |      |         +--ro designated-port-id?          uint64
|      |      |         +--ro port-priority?               uint32
|      |      |         +--ro designated-bridge-id?        bridge-id-type
|      |      |         +--ro port-hello-time?             uint32
|      |      |         +--ro forward-transitions-count?   uint32
|      |      |         +--ro received-stp-type?           stp-type
|      |      |         +--ro transmitted-stp-type?        stp-type
|      |      |         +--ro edge-port?                   on-off-type
|      |      |         +--ro auto-edge?                   yes-no-type
|      |      |         +--ro admin-edge?                  yes-no-type
|      |      |         +--ro edge-delay?                  uint32
|      |      |         +--ro configured-root-guard?       on-off-type
|      |      |         +--ro oper-root-guard?             on-off-type
|      |      |         +--ro boundary-port?               yes-no-type
|      |      |         +--ro oper-bpdu-guard?             on-off-type
|      |      |         +--ro oper-bpdu-filter?            on-off-type
|      |      |         +--ro link-type?                   stp-link-type
|      |      |         +--ro rx-bpdu-count?               uint64
|      |      |         +--ro tx-bpdu-count?               uint64
|      |      +--:(mstp)
|      |      |  +--ro mstp
|      |      |     +--ro root-bridge
|      |      |     |  +--ro priority?        uint32
|      |      |     |  +--ro bridge-id?       bridge-id-type
|      |      |     |  +--ro hello-time?      uint32
|      |      |     |  +--ro max-age?         uint32
|      |      |     |  +--ro forward-delay?   uint32
|      |      |     +--ro bridge
|      |      |     |  +--ro priority?        uint32
|      |      |     |  +--ro bridge-id?       bridge-id-type
|      |      |     |  +--ro hello-time?      uint32
|      |      |     |  +--ro max-age?         uint32
|      |      |     |  +--ro forward-delay?   uint32
|      |      |     +--ro transmit-hold-count?   uint32
|      |      |     +--ro migrate-time?          uint32
|      |      |     +--ro port
|      |      |        +--ro interface-type?              enumeration
|      |      |        +--ro interface-name?              union
|      |      |        +--ro spanningtree-enabled?        boolean
|      |      |        +--ro if-index?                    uint64
|      |      |        +--ro interface-id?                uint64
|      |      |        +--ro if-role?                     stp-port-role
|      |      |        +--ro if-state?                    stp-port-state
|      |      |        +--ro external-path-cost?          uint32
|      |      |        +--ro internal-path-cost?          uint32
|      |      |        +--ro configured-path-cost?        uint32
|      |      |        +--ro designated-port-id?          uint64
|      |      |        +--ro port-priority?               uint32
|      |      |        +--ro designated-bridge-id?        bridge-id-type
|      |      |        +--ro port-hello-time?             uint32
|      |      |        +--ro forward-transitions-count?   uint32
|      |      |        +--ro received-stp-type?           stp-type
|      |      |        +--ro transmitted-stp-type?        stp-type
```

```
|      |      |        +--ro edge-port?                   on-off-type
|      |      |        +--ro auto-edge?                   yes-no-type
|      |      |        +--ro admin-edge?                  yes-no-type
|      |      |        +--ro edge-delay?                  uint32
|      |      |        +--ro configured-root-guard?       on-off-type
|      |      |        +--ro oper-root-guard?             on-off-type
|      |      |        +--ro boundary-port?               yes-no-type
|      |      |        +--ro oper-bpdu-guard?             on-off-type
|      |      |        +--ro oper-bpdu-filter?            on-off-type
|      |      |        +--ro link-type?                   stp-link-type
|      |      |        +--ro rx-bpdu-count?               uint64
|      |      |        +--ro tx-bpdu-count?               uint64
|      |      |     +--:(pvstp)
|      |      |     |  +--ro pvstp [vlan-id]
|      |      |     |     +--ro vlan-id                interface:vlan-type
|      |      |     |     +--ro root-bridge
|      |      |     |     |  +--ro priority?        uint32
|      |      |     |     |  +--ro bridge-id?       bridge-id-type
|      |      |     |     |  +--ro hello-time?      uint32
|      |      |     |     |  +--ro max-age?         uint32
|      |      |     |     |  +--ro forward-delay?   uint32
|      |      |     |     +--ro bridge
|      |      |     |     |  +--ro priority?        uint32
|      |      |     |     |  +--ro bridge-id?       bridge-id-type
|      |      |     |     |  +--ro hello-time?      uint32
|      |      |     |     |  +--ro max-age?         uint32
|      |      |     |     |  +--ro forward-delay?   uint32
|      |      |     |     +--ro transmit-hold-count?   uint32
|      |      |     |     +--ro migrate-time?          uint32
|      |      |     |     +--ro port
|      |      |     |        +--ro interface-type?              enumeration
|      |      |     |        +--ro interface-name?              union
|      |      |     |        +--ro spanningtree-enabled?        boolean
|      |      |     |        +--ro if-index?                    uint64
|      |      |     |        +--ro interface-id?                uint64
|      |      |     |        +--ro if-role?                     stp-port-role
|      |      |     |        +--ro if-state?                    stp-port-state
|      |      |     |        +--ro external-path-cost?          uint32
|      |      |     |        +--ro internal-path-cost?          uint32
|      |      |     |        +--ro configured-path-cost?        uint32
|      |      |     |        +--ro designated-port-id?          uint64
|      |      |     |        +--ro port-priority?               uint32
|      |      |     |        +--ro designated-bridge-id?        bridge-id-type
|      |      |     |        +--ro port-hello-time?             uint32
|      |      |     |        +--ro forward-transitions-count?   uint32
|      |      |     |        +--ro received-stp-type?           stp-type
|      |      |     |        +--ro transmitted-stp-type?        stp-type
|      |      |     |        +--ro edge-port?                   on-off-type
|      |      |     |        +--ro auto-edge?                   yes-no-type
|      |      |     |        +--ro admin-edge?                  yes-no-type
|      |      |     |        +--ro edge-delay?                  uint32
|      |      |     |        +--ro configured-root-guard?       on-off-type
|      |      |     |        +--ro oper-root-guard?             on-off-type
|      |      |     |        +--ro boundary-port?               yes-no-type
|      |      |     |        +--ro oper-bpdu-guard?             on-off-type
|      |      |     |        +--ro oper-bpdu-filter?            on-off-type
|      |      |     |        +--ro link-type?                   stp-link-type
|      |      |     |        +--ro rx-bpdu-count?               uint64
|      |      |     |        +--ro tx-bpdu-count?               uint64
|      |      |     +--:(rpvstp)
|      |      |        +--ro rpvstp [vlan-id]
|      |      |           +--ro vlan-id                interface:vlan-type
|      |      |           +--ro root-bridge
|      |      |           |  +--ro priority?        uint32
|      |      |           |  +--ro bridge-id?       bridge-id-type
|      |      |           |  +--ro hello-time?      uint32
|      |      |           |  +--ro max-age?         uint32
|      |      |           |  +--ro forward-delay?   uint32
|      |      |           +--ro bridge
|      |      |           |  +--ro priority?        uint32
|      |      |           |  +--ro bridge-id?       bridge-id-type
|      |      |           |  +--ro hello-time?      uint32
```

```
|     |           |  +--ro max-age?         uint32
|     |           |  +--ro forward-delay?   uint32
|     |           +--ro transmit-hold-count?   uint32
|     |           +--ro migrate-time?          uint32
|     |           +--ro port
|     |              +--ro interface-type?              enumeration
|     |              +--ro interface-name?              union
|     |              +--ro spanningtree-enabled?        boolean
|     |              +--ro if-index?                    uint64
|     |              +--ro interface-id?                uint64
|     |              +--ro if-role?                     stp-port-role
|     |              +--ro if-state?                    stp-port-state
|     |              +--ro external-path-cost?          uint32
|     |              +--ro internal-path-cost?          uint32
|     |              +--ro configured-path-cost?        uint32
|     |              +--ro designated-port-id?          uint64
|     |              +--ro port-priority?               uint32
|     |              +--ro designated-bridge-id?        bridge-id-type
|     |              +--ro port-hello-time?             uint32
|     |              +--ro forward-transitions-count?   uint32
|     |              +--ro received-stp-type?           stp-type
|     |              +--ro transmitted-stp-type?        stp-type
|     |              +--ro edge-port?                   on-off-type
|     |              +--ro auto-edge?                   yes-no-type
|     |              +--ro admin-edge?                  yes-no-type
|     |              +--ro edge-delay?                  uint32
|     |              +--ro configured-root-guard?       on-off-type
|     |              +--ro oper-root-guard?             on-off-type
|     |              +--ro boundary-port?               yes-no-type
|     |              +--ro oper-bpdu-guard?             on-off-type
|     |              +--ro oper-bpdu-filter?            on-off-type
|     |              +--ro link-type?                   stp-link-type
|     |              +--ro rx-bpdu-count?               uint64
|     |              +--ro tx-bpdu-count?               uint64
|     +--ro has-more?            boolean
|     +--ro last-instance
|        +--ro instance-id?   uint32
+---x get-stp-mst-detail
   +--ro input
   |  +--ro (request-type)?
   |     +--:(getnext-request)
   |        +--ro last-rcvd-instance
   |           +--ro instance-id?   uint32
   +--ro output
      +--ro cist
      |  +--ro cist-root-id?         bridge-id-type
      |  +--ro cist-bridge-id?       bridge-id-type
      |  +--ro cist-reg-root-id?     bridge-id-type
      |  +--ro root-forward-delay?   uint32
      |  +--ro hello-time?           uint32
      |  +--ro max-age?              uint32
      |  +--ro max-hops?             uint32
      |  +--ro migrate-time?         uint32
      |  +--ro vlans
      |  |  +--ro vlan-id*   interface:vlan-type
      |  +--ro port
      |     +--ro interface-type?              enumeration
      |     +--ro interface-name?              union
      |     +--ro spanningtree-enabled?        boolean
      |     +--ro if-index?                    uint64
      |     +--ro interface-id?                uint64
      |     +--ro if-role?                     stp-port-role
      |     +--ro if-state?                    stp-port-state
      |     +--ro external-path-cost?          uint32
      |     +--ro internal-path-cost?          uint32
      |     +--ro configured-path-cost?        uint32
      |     +--ro designated-port-id?          uint64
      |     +--ro port-priority?               uint32
      |     +--ro designated-bridge-id?        bridge-id-type
      |     +--ro port-hello-time?             uint32
      |     +--ro forward-transitions-count?   uint32
      |     +--ro received-stp-type?           stp-type
```

```
|     +--ro transmitted-stp-type?        stp-type
|     +--ro edge-port?                   on-off-type
|     +--ro auto-edge?                   yes-no-type
|     +--ro admin-edge?                  yes-no-type
|     +--ro edge-delay?                  uint32
|     +--ro configured-root-guard?       on-off-type
|     +--ro oper-root-guard?             on-off-type
|     +--ro boundary-port?               yes-no-type
|     +--ro oper-bpdu-guard?             on-off-type
|     +--ro oper-bpdu-filter?            on-off-type
|     +--ro link-type?                   stp-link-type
|     +--ro rx-bpdu-count?               uint64
|     +--ro tx-bpdu-count?               uint64
+--ro msti [instance-id]
|  +--ro instance-id             uint32
|  +--ro msti-root-id?           bridge-id-type
|  +--ro msti-bridge-id?         bridge-id-type
|  +--ro msti-bridge-priority?   uint32
|  +--ro vlans
|  |  +--ro vlan-id*   interface:vlan-type
|  +--ro port
|     +--ro interface-type?              enumeration
|     +--ro interface-name?              union
|     +--ro spanningtree-enabled?        boolean
|     +--ro if-index?                    uint64
|     +--ro interface-id?                uint64
|     +--ro if-role?                     stp-port-role
|     +--ro if-state?                    stp-port-state
|     +--ro external-path-cost?          uint32
|     +--ro internal-path-cost?          uint32
|     +--ro configured-path-cost?        uint32
|     +--ro designated-port-id?          uint64
|     +--ro port-priority?               uint32
|     +--ro designated-bridge-id?        bridge-id-type
|     +--ro port-hello-time?             uint32
|     +--ro forward-transitions-count?   uint32
|     +--ro received-stp-type?           stp-type
|     +--ro transmitted-stp-type?        stp-type
|     +--ro edge-port?                   on-off-type
|     +--ro auto-edge?                   yes-no-type
|     +--ro admin-edge?                  yes-no-type
|     +--ro edge-delay?                  uint32
|     +--ro configured-root-guard?       on-off-type
|     +--ro oper-root-guard?             on-off-type
|     +--ro boundary-port?               yes-no-type
|     +--ro oper-bpdu-guard?             on-off-type
|     +--ro oper-bpdu-filter?            on-off-type
|     +--ro link-type?                   stp-link-type
|     +--ro rx-bpdu-count?               uint64
|     +--ro tx-bpdu-count?               uint64
+--ro has-more?        boolean
+--ro last-instance
   +--ro instance-id?   uint32
```

History

Release version	History
16r.1.00	This YANG module was introduced.

brocade-zone

Provides a data model for configuring zones and retrieving operational zoning information.

RPCs

```
+---x show-zoning-enabled-configuration
     +--ro input
     |  +--ro (request-type)?
     |     +--:(get-request)
     |     |  +--ro zone-name-pattern?     string
     |     +--:(get-next-request)
     |        +--ro last-rcvd-zone-name?   string
     +--ro output
        +--ro enabled-configuration
           +--ro cfg-name?       string
           +--ro enabled-zone [zone-name]
           |  +--ro zone-name       string
           |  +--ro member-entry [entry-name]
           |     +--ro entry-name    string
           +--ro has-more?       boolean
```

History

Release version	History
16r.1.00	This YANG module was introduced.

Custom RPCs

The following table lists the custom RPCs, their locations, and a brief synopsis.

TABLE 5 Custom RPCs

RPC name	Host module	Synopsis
activate-status	brocade-firmware	Returns firmware activation status.
bna-config-cmd	brocade-ras	Copies configuration data to and from the system.
bna-config-cmd-status	brocade-ras	Returns the status of the last configuration command.
dad-status	brocade-firmware	Displays the current status of firmware download.
fcoe-get-interface	brocade-fcoe-ext	Returns operational state details for an FCoE interface.
fcoe-get-login	brocade-fcoe-ext	Returns the login information about FCoE end nodes that have logged in to the managed device.
firmware-download	brocade-firmware	Returns the firmware information.
fwdl-status	brocade-firmware	Returns the status of the firmware download operation.
get-arp	brocade-arp	Returns ARP entries of the managed entity.
get-contained-in-ID	brocade-entity	Returns the slot or container name or ID, where the managed device is "contained in".
get-flexports	brocade-hardware	Retrieves the list of flexports.
get-interface-detail	brocade-interface-ext	Returns operational details of all the possible interfaces of the managed entity. Use this RPC to discover basic characteristics of all the interfaces in the system. Each sublayer below the internetwork layer of a network interface is considered to be an interface.
get-interface-switchport	brocade-interface-ext	Returns switch-port or Layer 2 characteristics of all the interfaces in the managed device.
get-ip-interface	brocade-interface-ext	Returns brief details of all interfaces, loopback and VE interface details of particular managed entity. PHY interface details of particular managed entity cannot be given.
get-last-config-update-time	brocade-vcs	Returns the time stamp of the last configuration change done on the managed device.
get-last-config-update-time-for-xpaths	brocade-vcs	Returns the time stamp of the last configuration change done on the managed device for Xpaths.
get-lldp-neighbor-detail	brocade-lldp-ext	Returns the details of all the neighboring interfaces of the managed entity.
get-mac-acl-for-intf	brocade-mac-access-list	Returns information about the MAC ACL applied on the specified interfaces.
get-mac-address-table	brocade-mac-address-table	Returns the MAC address table for a given MAC address.
get-media-detail	brocade-interface-ext	Returns the media properties of all the interfaces of the managed entity.

TABLE 5 Custom RPCs (continued)

RPC name	Host module	Synopsis
get-nameserver-detail	brocade-nameserver	Displays detailed information of the devices stored in the Name Server database.
get-netconf-client-capabilities	brocade-netconf-ext	Returns the vendor information for all NETCONF clients.
get-port-channel-detail	brocade-lag	Returns link aggregation control configuration parameters for all the port-channels in the system.
get-portchannel-info-by-intf	brocade-lag	Returns link aggregation control configuration parameters for a given aggregation port in the system.
get-port-profile-for-intf	brocade-port-profile-ext	Returns the port-profiles applied on ports and port-channels.
get-port-profile-status	brocade-port-profile-ext	Returns the status of a port-profile.
get-stp-brief-info	brocade-xstp-ext	Returns Spanning Tree Protocol (STP) information.
get-stp-mst-detail	brocade-xstp-ext	Returns Multiple Spanning Tree Protocol (MSTP) details.
get-system-uptime	brocade-system	Returns the time since the managed entity was last reinitialized.
get-vcs-details	brocade-vcs	Retains detailed VCS fabric information.
get-vlan-brief	brocade-interface-ext	Returns operational data for a given VLAN and enumeration of all the interfaces belonging to this VLAN.
get-vmpolicy-macaddr	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input. All is not supported input anymore. Data center name added in output.
get-vnetwork-dvpgs	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input. All is not supported input anymore. Data center name added in output.
get-vnetwork-dvs	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input. All is not supported input anymore. Data center name added in output.
get-vnetwork-hosts	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input. All is not supported input anymore. Data center name added in output.
get-vnetwork-portgroups	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input. All is not supported input anymore. Data center name added in output.
get-vnetwork-vms	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input. All is not supported input anymore.

TABLE 5 Custom RPCs (continued)

RPC name	Host module	Synopsis
		Data center name added in output.
get-vnetwork-vswitches	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input. All is not supported input anymore. Data center name added in output. Returns discovered virtual switches.
get-vmpolicy-macaddr	brocade-vswitch	Returns the associations among Virtual Network Interface Cards (VNICs) or Virtual Machine Kernet Network Interface Cards (VMKNICs), port-groups, and port-profiles.
get-tunnel-info	brocade-tunnels-extrpcs	Retrieves summary of one or more tunnles from the switch.
get-tunnel-statistics	brocade-tunnels-extrpcs	Retrieves tunnel statistics such as count of bytes and frames transmitted and received.
l2traceroute	brocade-trilloam	Traces a TRILL route from a host source MAC address to a destination MAC address.
l2traceroute-result	brocade-trilloam	Returns the result of a TRILL traceroute.
logical-chassis-fwdl-sanity	brocade-firmware	Retrieves firmware download sanity check status.
logical-chassis-fwdl-status	brocade-firmware	Retrieves firmware activation status.
maps-get-all-policy	brocade-maps-ext	Retrieves the existing MAPS Policies.
maps-get-default-rules	brocade-maps-ext	Retrieves the existing MAPS Policies.
redundancy	brocade-ha	Enables high availability (HA).
reload	brocade-ha	Reloads HA.
set-http-application-url	brocade-http-redirect	Sets the HTTP application URL.
show-bare-metal-state	brocade-preprovision	Indicates the bare-metal state on the system.
show-clock	brocade-clock	Returns the date, time, and time zone.
show-fabric-trunk-info	brocade-fabric-service	Provides all ISL trunk information in a fabric.
show-fibrechannel-interface-info	brocade-fabric-service	Provides detailed information of Fibre Channel ports in the routing bridge.
show-firmware-version	brocade-firmware-ext	Returns firmware version information.
show-linkinfo	brocade-fabric-service	Returns details of all the links connected in the fabric.
show-ntp	brocade-ntp	Returns the active NTP server for the Brocade VCS fabric or specified switch.
show-portindex-interface-info	brocade-fabric-service	Returns the details of 10-GbEthernet and FCoE ports.
show-raslog	brocade-ras-ext	Returns RASlog entries.
show-support-save-status	brocade-ras-ext	Returns information about the status of a recent supportSave request.
show-system-info	brocade-ras-ext	Returns the routing bridge ID and MAC address of the switch.
show-system-monitor	brocade-system-monitor-ext	Returns system status information.
show-vcs	brocade-vcs	Provides general VCS fabric information.
show-zoning-enabled-configuration	brocade-zone	Returns the currently enabled zoning configuration information.

TABLE 5 Custom RPCs (continued)

RPC name	Host module	Synopsis
user-session-info	brocade-aaa-ext	Returns user role information.

Actions

The following table lists the actions, their locations, and a brief description of the purpose of each action.

TABLE 6 Actions

Action name	Host module	Node	Purpose
abort	brocade-event-handler	event-handler	Under Python event-management, aborts a specified event handler that is currently running.
action	brocade-event-handler	common-def:clear/event-handler	Specifies the Python script that will be triggered when an event occurs.
activate	brocade-fc-auth	secpolicy/action	Activates all the defined FC authorization policies.
activate	brocade-firmware	firmware	Activates the firmware download.
activations	brocade-event-handler	common-def:show	Activates an event handler on an RBridge and accesses event-handler activation mode.
add	brocade-license	common-def:show/license	Displays the license keys.
all	brocade-fabric-service	common-def:show/fabric	Returns fabric information.
auditlog	brocade-ras-ext	common-def:clear/logging	Clears the audit log.
auditlog	brocade-ras-ext	common-def:show/logging	Shows audit log information.
authenticate	brocade-crypto-ext	crypto/ca	Sets the authentication file from the host authentication server.
authenticate	brocade-crypto-ext	common-def:no	Sets the authentication file from the host authentication server.
bare-metal	brocade-preprovision	common-def:show/bare-metal/ bare-metal	Indicates the bare-metal state on the system.
brief	brocade-nameserver	common-def:show/:	Gets a list of devices, listed by FCID, that are stored in the Name Server database.
burninerrclear	brocade-diagnostics	diag	Clears the errors that are stored in the nonvolatile storage on the slot during the burn-in process.
burninerrshow	brocade-diagnostics	common-def:show	Checks the error log.
burninstatus	brocade-diagnostics	common-def:show	Displays the status of last run system verification test.
certificates	brocade-crypto-ext	common-def:show /crypto/ca	Displays certificate details.
chassis	brocade-beacon	beacon/disable	Disables the chassis beacon.
chassis	brocade-beacon	beacon/enable	Enables the chassis beacon.
chassis	brocade-ras-ext	common-def:show/infra	Returns system information.
chassisreboot	brocade-ha	ha	Reboots the chassis.
clearerror	brocade-diagnostics	diag	Clears the diagnostics failure status.
clock	brocade-clock	clock-set-datetime	Sets the date and time.
clock	brocade-clock	clock-set-timezone	Sets the local time zone.
commit	brocade-firmware	firmware/download	Commits a firmware upgrade after evaluation.

TABLE 6 Actions (continued)

Action name	Host module	Node	Purpose
connector-group	brocade-hardware	common-def:show	Sets a connector group that FlexPort is allowed to access on the switch.
console	brocade-ras	ras/logging/raslog	Sets the severity levels for the RASLog console and allows users to temporarily stop showing RASLog messages on the console.
cpu	brocade-ras-ext	common-def:show/infra/process	Lists processes by CPU usage.
cpu	brocade-ras	resource monitor	Lists processes by CPU usage.
dadstatus	brocade-firmware	common-def:show/dhcp-auto-deployment	Displays the current status of firmware download.
description	brocade-ras-ext	rasman	Displays the details of the defined log modules.
detail	brocade-nameserver	common-def:show/:	Returns details about the configured name server.
dhchap	brocade-fc-auth	auth-secret	Configures authorization secret for DH-CHAP.
dhchap	brocade-fc-auth	common-def:no/fcsp/auth-secret	Deletes the authorization secret for DH-CHAP.
dhchap	brocade-fc-auth	common-def:show/fscp/authsecret	Returns the device WWN for which a shared secret is configured.
dir	brocade-ras	system/usb	Displays the directory of a USB device.
directory	brocade-firmware	firmware:firmware/download/tftp/input	Specifies the directory from where the firmware is downloaded.
disable	brocade-chassis	chassis	Disables the chassis.
disable	brocade-chassis	chassis/beacon	Disables the chassis beacon.
disable	brocade-firmware	firmware/auto-sync	Disables the firmware download.
disable	brocade-ha	ha	Disables high availability.
dpod	brocade-license	common-def:show/enh-show-license-keys	Displays dynamic POD license information.
dump	brocade-ha	ha	Displays high availability status information.
dvpgs	brocade-vswitch	common-def:show/vnetwork	Shows discovered distributed virtual port-groups.
dvs	brocade-vswitch	common-def:show/vnetwork	Shows discovered distributed virtual switches.
enable	brocade-chassis	chassis	Enables the chassis.
enable	brocade-chassis	chassis/beacon	Enables the chassis beacon.
enable	brocade-firmware	firmware/auto-sync	Enables the firmware download.
enable	brocade-firmware	dhcp/auto-deployment	Enables auto-deployment of the firmware.
enable	brocade-ha	ha	Enables high availability.
enroll	brocade-crypto-ext	crypto/ca	Enrolls the trust point and generates the security certificate for HTTPS security.
erase	brocade-firmware	firmware/write	Returns switch to factory default state.

TABLE 6 Actions (continued)

Action name	Host module	Node	Purpose
exec	brocade-diagnostics	fos	Runs native Fabric OS commands.
failover	brocade-ha	ha	Causes HA failover.
fan	brocade-ras-ext	common-def:show/infra/environment	Shows fan information.
fastboot	brocade-firmware	reboot	Reboots the control processor (CP), bypassing the power-on self-test (POST).
firmware	brocade-firmware-ext	common-def:show/firmware	Shows firmware auto-sync status.
firmwaredownloadhistory	brocade-firmware-ext	common-def:show/firmware	Returns a history of firmware downloads.
firmwaredownloadstatus	brocade-firmware-ext	common-def:show/firmware	Returns the firmware download status.
firmware-features	brocade-firmware-ext	common-def:show/firmware	Shows firmware features.
ftp	brocade-firmware	firmware/download	Downloads firmware with FTP.
ftp	brocade-firmware	firmware/download/default-config	Downloads firmware with FTP.
ftp	brocade-firmware	firmware/download/logical-chassis	Downloads firmware with FTP for logical chassis.
ftp	brocade-firmware	firmware/download/logical-chassis/default-config	Downloads firmware with FTP for logical chassis.
ftp	brocade-firmware	firmware/install	Installs firmware with FTP.
ftp	brocade-ras	copy/support	Uploads support data to an FTP server.
gmsg	brocade-ras	auditlog	Generates an audit log message for an internal audit log test.
gmsg	brocade-ras	logtest/raslog	Generates a message for an internal RASlog test.
ha	brocade-ha	common-def:show/ha	Displays the HA state.
hardware-profile	brocade-hardware	common-def:show	Optimizes hardware resources.
history	brocade-ras-ext	common-def:show/infra	Shows history information.
hosts	brocade-vswitch	common-def:show/vnetwork	Displays discovered hosts.
id	brocade-license	common-def:show/license	Returns license IDs.
import	brocade-crypto-ext	crypto/ca	Imports the CA certificate for HTTPS security configuration.
import	brocade-crypto-ext	common-def:no	Imports the CA certificate for HTTPS security configuration.
info	brocade-ras-ext	common-def:show/infra/process	Shows system processes.
interactive	brocade-firmware	firmware/download	Downloads firmware interactively.
interface	brocade-beacon	beacon/disable	Disables the interface beacon.
interface	brocade-beacon	beacon/enable	Enables the interface beacon.
interface	brocade-threshold-monitor-ext	brocade-common-def:show/defaults/brocade-threshold-monitor-ext:threshold	Shows default threshold and alert values for interface.
inventory	brocade-ras-ext	infra-inventory	Displays the inventory details.
isl	brocade-fabric-service	common-def:show/fabric-service:fabric	Returns fabric ISL information.

TABLE 6 Actions (continued)

Action name	Host module	Node	Purpose
islports	brocade-fabric-service	common-def:show/fabric-service:fabric	Returns fabric ISL port information.
l2traceroute	brocade-trilloam	trilloam	Traces a route between a source and destination MAC address.
ldapca	brocade-certutil	certutil/import	Imports the LDAP CA certificate.
ldapca	brocade-certutil	common-def:no/certutil	Deletes the LDAP CA certificate.
ldapcacert	brocade-certutil	common-def:show/cert-util	Displays the LDAP CA certificate.
license	brocade-license	common-def:show/enh-show-license-keys	Displays license information.
linecard	brocade-linecard-management	common-def:show/linecardinfo	Configures a line card.
linecard	common-def:show	common-def:show/linecardinfo	Configures a line card.
linkinfo	brocade-fabric-service	common-def:show/fabric-service:fabric	Returns fabric ISL link information.
maps	brocade-maps-ext	common-def:show	
macaddr	brocade-vswitch	common-def:show/vnetwork/vmpolicy	Returns information about MAC address policies.
memory	brocade-ras-ext	common-def:show/infra/process	Lists processes by memory usage.
memory	brocade-ras	resource-monitor	Lists processes by memory usage.
message	brocade-ras-ext	rasman	Displays the details of the given RASlog message ID.
mm	brocade-linecard-management	common-def:show/mminfor	Management module.
module	brocade-ras-ext	rasman	Displays the details of the given RAS module name.
monitor	brocade-system-monitor-ext	common-def:show/system-monitor-extensions:system	Returns monitor switch status.
monitor	brocade-threshold-monitor-ext	common-def:show/threshold-monitor-extensions:system	Returns monitor switch error statistics on an interface.
multicast	brocade-fabric-service	fabric/route	Displays multicast routing information, including the multicast tree, its root, priority, and so on.
mypubkey	brocade-crypto-ext	common-def:show/crypto/key	Displays the crypto key.
neighbor-state	brocade-fabric-state	fabric/route	Displays the FSPF link state information of a node. A full state indicates FSPF link state database exchange is complete and that the link can be used while making routing decisions.
nodefind	brocade-nameserver	common-def:show/:	Displays nodes matching a specified WWN or PID.
off	brocade-ras	system/usb	Disables the USB device.
on	brocade-ras	system/usb	Enables the USB device.
operation-info	brocade-zone	common-def:show/zoning	Returns zone database size information and the time stamp of the last change.
pathinfo	brocade-fabric-service	fabric/route	Displays routing information and states along a path covering multiple switches.

TABLE 6 Actions (continued)

Action name	Host module	Node	Purpose
pgs	brocade-vswitch	common-def:show/vnetwork	Returns information about discovered standard port-groups.
portledtest	brocade-diagnostics	diag	Runs various action modes on the port LEDs and validates the functionality.
portloopbacktest	brocade-diagnostics	diag	Sends frames between various ASICs on the switch and validates the ASIC functionality.
port-group	brocade-hardware	common-def:show/hardware	Displays the port-group information for the device.
port-side-exhaust	brocade-chassis	fan/airflow-direction	Sets the airflow direction to exhaust-side intake.
port-side-intake	brocade-chassis	fan/airflow-direction	Sets the airflow direction to port-side intake.
power	brocade-ras-ext	common-def:show/infra/environment	Shows power information.
power-off	brocade-linecard-management	common-def:show/linecardservice	Deactivates a line card.
power-on	brocade-linecard-management	linecardservice	Powers on a line card.
prbstest	brocade-diagnostics	diag	Performs pseudo-random binary-sequence tests.
raslog	brocade-ras-ext	common-def:clear/logging	Clears the RASlog.
raslog	brocade-ras-ext	common-def:show/logging	Shows RASlog information.
recover	brocade-firmware	firmware	Aborts the firmware operation that is ready to be activated and then commits the firmware.
redundancy	brocade-ha	common-def:show/redundancy	Shows high availability redundancy state.
reload	brocade-ha	common-def:show/system/reload	Reloads the system.
remove	brocade-license	license	Removes the license keys.
remove	brocade-ras	system/usb	Deletes a file from a USB device.
restore	brocade-firmware	firmware/download	Restores the original firmware after evaluation.
results	brocade-diagnostics	common-def:show/diag/post	Displays the post verification test result.
sanity-check	brocade-firmware	firmware/download	Conducts a sanity check on the firmware download.
scp	brocade-firmware	firmware/download	Downloads firmware with SCP.
scp	brocade-firmware	firmware/download/default-config	Downloads firmware with SCP.
scp	brocade-firmware	firmware/download/logical-chassis	Downloads firmware with SCP for logical chassis.
scp	brocade-firmware	firmware/download/logical-chassis/default-config	Downloads firmware with SCP for logical chassis.
scp	brocade-firmware	firmware/install	Installs firmware with SCP.
scp	brocade-ras	copy/support	Uploads support data to an SCP server.
security	brocade-threshold-monitor-ext	common-def:show/defaults	Displays default threshold and alert values for security.

TABLE 6 Actions (continued)

Action name	Host module	Node	Purpose
sensor	brocade-ras-ext	common-def:show/infra/environment	Returns sensor information.
sessions	brocade-aaa	common-def:clear/login	Unlocks a user account.
setcycle	brocade-diagnostics	diag	Configures all the parameters required for the system verification test.
setdbg	brocade-diagnostics	diag	Changes the debug level.
sfm	brocade-linecard-management	common-def:show/sfminfo	Switch fabric module.
sfp	brocade-threshold-monitor-ext	common-def:show/defaults/threshold-monitor-extensions:threshold	Displays default threshold and alert values for SFP.
sftp	brocade-firmware	firmware/download	Downloads firmware with SFTP.
sftp	brocade-firmware	firmware/download/default-config	Downloads firmware with SFTP.
sftp	brocade-firmware	firmware/download/logical-chassis	Downloads firmware with SFTP for logical-chassis.
sftp	brocade-firmware	firmware/download/logical-chassis/default-config	Downloads firmware with SFTP for logical-chassis.
slots	brocade-linecard-management	common-def:show/slotsinfor	Modules present in the chassis.
sshkey	brocade-certutil	certutil/import	SSH public key import operation.
sshkey	brocade-certutil	common-def:no/cert-util	Displays username length error message.
sshkey	brocade-certutil	common-def:show/certutil:cert-util	Displays user name length error message.
start	brocade-ha	ha/sync	Syncs up the system.
status	brocade-diagnostics	common-def:show	Displays currenly running diagnostic tests.
status	brocade-http-config	common-def:show /http/server	Displays HTTP server status.
status	brocade-ras-ext	common-def:show/copy-support	Shows copy support details.
status	brocade-sec-services	common-def:show/ssh/server	Displays the SSH server status.
status	brocade-sec-services	common-def:show/ssh/client	Displays the SSH client status.
status	brocade-sec-services	common-def:show/telnet/server	Displays the Telnet server status.
stop	brocade-ha	ha/sync	Syncs up the system.
support	brocade-ras-ext	common-def:clear/support	Clears support information.
support	brocade-ras-ext	common-def:show/support	Shows support information available for upload.
support-interactive	brocade-ras	copy	Enables interactive support data upload.
sync	brocade-firmware	firmware/download	Synchronizes the firmware with its peer.
syslogca	brocade-certutil	certutil/import	Imports the syslog server CA certificate.
syslogca	brocade-certutil	common-def:no/certutil	Deletes the syslog server CA certificate.
syslogcacert	brocade-certutil	common-def:show/cert-util	Displays the syslog server CA certificate.
systemverification	brocade-diagnostics	diag	Runs a combination of various hardware diagnostic tests.

TABLE 6 Actions (continued)

Action name	Host module	Node	Purpose
temp	brocade-ras-ext	common-def:show/infra/environment	Shows temperature information.
timezone	brocade-clock	common-def:no/clock	Returns the time zone information.
tftp	brocade-firmware	firmware:firmware/download	Downloads firmware with TFTP.
tftp	brocade-firmware	firmware/download/default-config	Downloads firmware with TFTP.
tftp	brocade-firmware	firmware/download/logical-chassis	Downloads firmware with TFTP for logical chassis.
tftp	brocade-firmware	firmware/download/logical-chassis/default-config	Downloads firmware with TFTP for logical chassis.
topology	brocade-fabric-service	fabric/route	Provides fabric topology information as seen by a VCS fabric node, including the number of currently active paths to the destination, maximum number of hops to reach destination, cost of reaching destination, and so on.
trunk	brocade-fabric-service	common-def:show/fabric-service:fabric	Returns fabric ISL trunk information.
trustpoint	brocade-crypto-ext	common-def:show/crypto/ca	Defines the trust point for HTTPS security configuration.
turboramtest	brocade-diagnostics	diag	Performs a turbo static RAM (SRAM) test of the ASIC chips.
type	brocade-ras-ext	rasman	Displays the details of the RASlog messages based on the given RASlog message type.
unlock	brocade-aaa	user	Unlocks a user account.
usb	brocade-firmware	firmware/download	Downloads firmware from a USB device.
usb	brocade-firmware	firmware/download/default-config	Downloads firmware from a USB device.
usb	brocade-firmware	firmware/download/logical-chassis	Downloads firmware from a USB device for logical chassis.
usb	brocade-ras	copy	Uploads support data to a USB device.
users	brocade-aaa-ext	common-def:show/aaa-users	Accesses the user information.
version	brocade-firmware-ext	common-def:show/firmware	Returns the firmware version string.
vms	brocade-vswitch	common-def:show/vnetwork	Returns information about discovered VMs.
vss	brocade-vswitch	common-def:show/vnetwork	Returns information about standard virtual switches.
zonemember	brocade-nameserver	common-def:show/:	Displays all nodes zoned with a device matching a specified WWN or PID.