Extreme

Customer-Driven Networking

Extreme SLX-OS YANG Reference Manual, 17s.1.02

Supporting the ExtremeSwitching SLX 9140 and SLX 9240 Switches

Contents

Preface

Document conventions

The document conventions describe text formatting conventions, command syntax conventions, and important notice formats used in Extreme 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.
[ ]	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.
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.

Extreme resources

Visit the Extreme website to locate related documentation for your product and additional Extreme resources.

White papers, data sheets, and the most recent versions of Extreme software and hardware manuals are available at www.extremenetworks.com. Product documentation for all supported releases is available to registered users at www.extremenetworks.com/support/documentation.

Document feedback

Quality is our first concern at Extreme, and we have made every effort to ensure the accuracy and completeness of this document. However, if you find an error or an omission, or you think that a topic needs further development, we want to hear from you.

You can provide feedback in two ways:

- Use our short online feedback form at http://www.extremenetworks.com/documentation-feedback-pdf/
- Email us at internalinfodev@extremenetworks.com

Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.

Contacting Extreme Technical Support

As an Extreme customer, you can contact Extreme Technical Support using one of the following methods: 24x7 online or by telephone. OEM customers should contact their OEM/solution provider.

If you require assistance, contact Extreme Networks using one of the following methods:

- GTAC (Global Technical Assistance Center) for immediate support
    - Phone: 1-800-998-2408 (toll-free in U.S. and Canada) or +1 408-579-2826. For the support phone number in your country, visit: www.extremenetworks.com/support/contact.
    - Email: support@extremenetworks.com. To expedite your message, enter the product name or model number in the subject line.
- GTAC Knowledge – Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance.
- The Hub – A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.
- Support Portal – Manage cases, downloads, service contracts, product licensing, and training and certifications.

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number and/or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any action(s) already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

About This Document

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 Extreme Networks, Inc. for this SLX-OS release, documenting all possible configurations and scenarios is beyond the scope of this document.

The following hardware platforms are supported by this release:

- ExtremeSwitching SLX 9140
- ExtremeSwitching SLX 9240

    NOTE
    Some of the commands in this document use a slot/port designation. Because the SLX 9140 and the SLX 9240 do not contain line cards, the slot designation must always be "0" (for example, 0/1 for port 1).

What's new in this document

This document is released in conjunction with SLX-OS 17s.1.02.

On October 30, 2017, Extreme Networks, Inc. acquired the data center networking business from Brocade Communications Systems, Inc. This document has been updated to remove or replace references to Brocade Communications, Inc. with Extreme Networks., Inc., as appropriate.

Using YANG

YANG overview

YANG is a data modeling language 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 Manual* is a reference for YANG modules supported by SLX-OS 17s.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 ethernet [name]
    | | +--rw name interface-type
    | | +--rw long-distance-isl? enumeration
    | | +--rw cee? cee-map-name-type
    | | +--rw speed? enumeration
    | | +--rw fec
    | | | +--rw fec-mode? fec-mode-type
    | | +--ro ifindex? uint64
    | | +--rw description? string
    | | +--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:

TABLE 1 Field descriptions (continued)

Field	Value
	+ Current
	x Deprecated
	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-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
```

History

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

brocade-aaa-ext

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

RPCs

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

History

Release version	History
17s.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]
  |  +--rw arp-ip-address        inet:ipv4-address
  |  +--rw mac-address-value?    mac-access-list:mac-address-type
  |  +--rw interfacename?        enumeration
  |  +--rw (interfacetype)?
  |     +--:(Ethernet)
  |     |  +--rw Ethernet?             interface:interface-type
  |     +--:(Ve)
  |        +--rw Ve?                   interface:ve-type
  +--rw host-table
     +--rw aging-mode
     |  +--rw conversational?   empty
     +--rw aging-time
        +--rw conversational-timeout?   uint32
```

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

Release version	History
17s.1.00	This YANG module was introduced.
17s.1.00	This YANG module was modified to Added container host-table and leaves: aging-mode and aging-time.

brocade-bfd

Provides a data model to manage Bidirectional Forwarding Detection (BFD).

External augmentations

```
module: brocade-common-def
   +--rw bgp:bfd
   |  +--rw bgp:holdover-interval?   bfd:bfd-holdover-interval
   |  +--rw bgp:interval
   |     +--rw bgp:min-tx?      bfd-tx-interval-type
   |     +--rw bgp:min-rx?      bfd-rx-interval-type
   |     +--rw bgp:multiplier?  bfd-multiplier-type


module: brocade-interface
   +--rw interface
   |  +--rw ethernet [name]
   |  |  +--rw bfd
   |  |  |  +--rw interval
   |  |  |  |  +--rw min-tx?      bfd-tx-interval-type /*drop-node-name*/
   |  |  |  |  +--rw min-rx?      bfd-rx-interval-type
   |  |  |  |  +--rw multiplier?  bfd-multiplier-type
   |  |  |  +--rw bfd-shutdown?   empty
```

History

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

brocade-bridge-domain

Provides a data module to manage the 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
      +--rw bridge-domain-type        enumeration
      +--rw vc-id-num?                uint32
      +--rw peer [peer-ip]
      |  +--rw peer-ip        inet:ipv4-address
      |  +--rw load-balance?  empty
      |  +--rw cos?           uint32
      |  +--rw lsp*           string
      +--rw statistics?               empty
      +--rw transparent?              empty
      +--rw router-interface
      |  +--rw router-ve?   interface:ve-type
      +--rw logical-interface
      |  +--rw ethernet [lif-bind-id]
      |  |  +--rw lif-bind-id    import-lif:lif-interface-type
      |  +--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
      +--rw bpdu-drop-enable?         empty
      +--rw local-switching?          empty
      +--rw arp:suppress-arp
      |  +--rw arp:suppress-arp-enable?    empty
      +--rw ipv6-nd-ra:suppress-nd
         +--rw ipv6-nd-ra:suppress-nd-enable?    empty
```

History

Release version	History
17s.1.00	This YANG module was introduced.
17s.1.01	This YANG module was modified to include these changes: Under container arp added leaves suppress-arp, suppress-nd
Release version	History
17r.1.00	This YANG module was updated.

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
```

History

Release version	History
17s.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
   |  +---x clock
   |     +--ro input
   |     |  +--ro set    ietfyang:date-and-time
   |     +--ro output
   +--rw clock-sa
      +--rw clock
         +--rw timezone?   common-def:timezone
```

RPCs

Retrieve local clock information:

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

History

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

brocade-cluster

Provides a data module to manage cluster.

Top-level container

```
module: brocade-cluster
    +--rw mgmt-cluster
        +--rw cluster
            +--rw management
                +--rw virtual
                    +--rw ip
                    |   +--rw address [address]
                    |       +--rw address    common-def:ipv4-address-prefix-type
                    +--rw ipv6
                        +--rw address [ipv6address]
                            +--rw ipv6address    common-def:ipv6-address-prefix
```

History

Release version	History
17s.1.01	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 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:rbridge-id?         common-def:domain-id-type
   |  |        |     +--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
|  |     |  |  +--:(overlay-visibility)
|  |     |  |  |  +--ro hardware:overlay-visibility?  overlay-visibility-subtype
|  |     |  |  +--:(route-table)
|  |     |  |  |  +--ro hardware:route-table?         routing-profile-subtype
|  |     |  |  |  +--ro hardware:openflow-flag?       empty
|  |     |  |  +--:(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
|  |  |          +--ro brocade-license:license-eula-date?      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 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 [rbridge-id]
|  |  |        +--ro ras-extensions:rbridge-id               switchid-type
|  |  |        +--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 [rbridge-id]
|   |       |          +--ro ras-extensions:rbridge-id    switchid-type
|   |       |          +--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 system:host
|    +---x system:show-hostos-ip-address
+--rw clear
| +--rw brcd-aaa:login
| | +---x brcd-aaa:sessions
| |    +--ro brcd-aaa:input
| |    +--ro brcd-aaa:output
| +--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:static
|      |       +--rw rtm:bfd
|      |          +--rw rtm:bfd-static-route [bfd-static-route-dest bfd-static-route-src]
|      |          |    +--rw rtm:bfd-static-route-dest    inet:ipv4-address
|      |          |    +--rw rtm:bfd-static-route-src     inet:ipv4-address
|      |          |    +--rw rtm:bfd-interval-attributes
|      |          |       +--rw rtm:interval?      uint16
|      |          |       +--rw rtm:min-rx?        uint16
|      |          |       +--rw rtm:multiplier?    uint8
|      |          +--rw rtm:holdover-interval?    uint8
|      +--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 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:static
      |   |   +--rw ipv6-route:bfd
      |   |      +--rw ipv6-route:bfd-ipv6-static-route [bfd-ipv6-static-route-dest bfd-ipv6-static-route-src]
      |   |      |  +--rw ipv6-route:bfd-ipv6-static-route-dest      inet:ipv6-address
      |   |      |  +--rw ipv6-route:bfd-ipv6-static-route-src       inet:ipv6-address
      |   |      |  +--rw ipv6-route:bfd-ipv6-interval-attributes
      |   |      |     +--rw ipv6-route:interval?     uint16
      |   |      |     +--rw ipv6-route:min-rx?       uint16
      |   |      |     +--rw ipv6-route:multiplier?   uint8
      |   |      +--rw ipv6-route:bfd-ipv6-link-local-static-route [bfd-ipv6-link-local-dest bfd-ipv6-link-
      local-src bfd-interface-type bfd-interface-name]
      |   |      |  +--rw ipv6-route:bfd-ipv6-link-local-dest       inet:ipv6-address
      |   |      |  +--rw ipv6-route:bfd-ipv6-link-local-src        inet:ipv6-address
      |   |      |  +--rw ipv6-route:bfd-interface-type             enumeration
      |   |      |  +--rw ipv6-route:bfd-interface-name             string
      |   |      |  +--rw ipv6-route:bfd-ipv6-interval-attributes
      |   |      |     +--rw ipv6-route:interval?     uint16
      |   |      |     +--rw ipv6-route:min-rx?       uint16
      |   |      |     +--rw ipv6-route:multiplier?   uint8
      |   |      +--rw ipv6-route:ipv6-holdover-interval?          uint8
      |   +--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:bfd
| | | | +--rw bgp:holdover-interval?   bfd:bfd-holdover-interval
| | | | +--rw bgp:interval
| | | |    +--rw bgp:min-tx?       bfd-tx-interval-type
| | | |    +--rw bgp:min-rx?       bfd-rx-interval-type
| | | |    +--rw bgp:multiplier?   bfd-multiplier-type
| | | +--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-port-channel)
| | |    |    |    | +--rw bgp:port-channel?        interface:portchannel-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:bfd
| | |    |    | +--rw bgp:bfd-enable?         empty
| | |    |    | +--rw bgp:holdover-interval?   bfd:bfd-holdover-interval
| | |    |    | +--rw bgp:interval
| | |    |    |    +--rw bgp:min-tx?       bfd-tx-interval-type
| | |    |    |    +--rw bgp:min-rx?       bfd-rx-interval-type
| | |    |    |    +--rw bgp:multiplier?   bfd-multiplier-type
| | |    |    +--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-port-channel)
| | |       |     |     |  +--rw bgp:port-channel?        interface:portchannel-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:bfd
| | |       |     |  +--rw bgp:bfd-enable?        empty
| | |       |     |  +--rw bgp:holdover-interval?   bfd:bfd-holdover-interval
| | |       |     |  +--rw bgp:interval
| | |       |     |     +--rw bgp:min-tx?       bfd-tx-interval-type
| | |       |     |     +--rw bgp:min-rx?       bfd-rx-interval-type
| | |       |     |     +--rw bgp:multiplier?   bfd-multiplier-type
| | |       |     +--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-port-channel)
| | |            |    | +--rw bgp:port-channel?             interface:portchannel-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:bfd
| | |            | +--rw bgp:bfd-enable?          empty
| | |            | +--rw bgp:holdover-interval?   bfd:bfd-holdover-interval
| | |            | +--rw bgp:interval
| | |            |    +--rw bgp:min-tx?        bfd-tx-interval-type
| | |            |    +--rw bgp:min-rx?        bfd-rx-interval-type
| | |            |    +--rw bgp:multiplier?    bfd-multiplier-type
| | |            +--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:additional-paths
|  |     |     |  |  |        |  +--rw bgp:add-path-both?     empty
|  |     |     |  |  |        |  +--rw bgp:send?             empty
|  |     |     |  |  |        |  +--rw bgp:receive?          empty
|  |     |     |  |  |     +--rw bgp:additional-paths
|  |     |     |  |  |     |  +--rw bgp:advertise
|  |     |     |  |  |     |     +--rw (ch-additional-paths)?
|  |     |     |  |  |     |        +--:(ca-best)
|  |     |     |  |  |     |        |  +--rw bgp:best?   additional-paths-best
|  |     |     |  |  |     |        +--:(ca-all)
|  |     |     |  |  |     |           +--rw bgp:all?    empty
|  |     |     |  |  |     +--rw bgp:allowas-in?                        uint32
|  |     |     |  |  |     +--rw bgp:activate?                          empty
|  |     |     |  |  |     +--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:additional-paths
|  |     |     |  |        |  +--rw bgp:add-path-both?     empty
|  |     |     |  |        |  +--rw bgp:send?             empty
|  |     |     |  |        |  +--rw bgp:receive?          empty
|  |     |     |  |        +--rw bgp:additional-paths
|  |     |     |  |        |  +--rw bgp:advertise
|  |     |     |  |        |     +--rw (ch-additional-paths)?
|  |     |     |  |        |        +--:(ca-best)
```

```
            | |     |     | |              |       | +--rw bgp:best?   additional-paths-best
            | |     |     | |              |       +--:(ca-all)
            | |     |     | |              |          +--rw bgp:all?   empty
            | |     |     | |         +--rw bgp:allowas-in?                    uint32
            | |     |     | |         +--rw bgp:activate?                      empty
            | |     |     | |         +--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:associate-peer-group?       bgp-peergroup
|  |     |     |        +--rw bgp:remote-as?                  bgp-remote-as
|  |     |     |        +--rw bgp:shutdown
|  |     |     |        |  +--rw bgp:shutdown-status?    empty
|  |     |     |        |  +--rw bgp:generate-rib-out?   empty
|  |     |     |        +--rw bgp:allowas-in?                 uint32
|  |     |     |        +--rw bgp:activate?                   empty
|  |     |     |        +--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-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:additional-paths
     |  |       |           |              |     +--rw bgp:add-path-both?   empty
     |  |       |           |              |     +--rw bgp:send?            empty
     |  |       |           |              |     +--rw bgp:receive?         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:bfd
| |   |       |           | +--rw bgp:bfd-enable?          empty
| |   |       |           | +--rw bgp:holdover-interval?    bfd:bfd-holdover-interval
| |   |       |           | +--rw bgp:interval
| |   |       |           |    +--rw bgp:min-tx?        bfd-tx-interval-type
| |   |       |           |    +--rw bgp:min-rx?        bfd-rx-interval-type
| |   |       |           |    +--rw bgp:multiplier?   bfd-multiplier-type
| |   |       |           +--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-port-channel)
| |   |       |           |    | +--rw bgp:port-channel?          interface:portchannel-type
| |   |       |           |    +--:(ca-loopback)
| |   |       |           |    | +--rw bgp:loopback?              loopback-interface
| |   |       |           |    +--:(ca-ve)
| |   |       |           |       +--rw bgp:ve-interface?          interface:ve-type
| |   |       |           +--rw bgp:additional-paths
| |   |       |           | +--rw bgp:advertise
| |   |       |           |    +--rw (ch-additional-paths)?
| |   |       |           |       +--:(ca-best)
| |   |       |           |       | +--rw bgp:best?   additional-paths-best
| |   |       |           |       +--:(ca-all)
| |   |       |           |          +--rw bgp:all?   empty
| |   |       |           +--rw bgp:send-community
| |   |       |              +--rw bgp:send-community-status?   empty
| |   |       |              +--rw bgp:both?                    empty
| |   |       |              +--rw bgp:extended?                empty
| |   |       |              +--rw bgp:standard?                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:additional-paths
| |      |      |  |  |     |     +--rw bgp:add-path-both?   empty
| |      |      |  |  |     |     +--rw bgp:send?            empty
| |      |      |  |  |     |     +--rw bgp:receive?         empty
| |      |      |  |  |     +--rw bgp:additional-paths
| |      |      |  |  |     |  +--rw bgp:advertise
| |      |      |  |  |     |     +--rw (ch-additional-paths)?
| |      |      |  |  |     |        +--:(ca-best)
| |      |      |  |  |     |        |  +--rw bgp:best?   additional-paths-best
```

```
| |     |     | | |     |          +--:(ca-all)
| |     |     | | |     |             +--rw bgp:all?     empty
| |     |     | | |     +--rw bgp:allowas-in?                         uint32
| |     |     | | |     +--rw bgp:activate?                           empty
| |     |     | | |     +--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:additional-paths
| |     |     | |       |     +--rw bgp:add-path-both?   empty
| |     |     | |       |     +--rw bgp:send?            empty
| |     |     | |       |     +--rw bgp:receive?         empty
| |     |     | |       +--rw bgp:additional-paths
| |     |     | |       |  +--rw bgp:advertise
| |     |     | |       |     +--rw (ch-additional-paths)?
| |     |     | |       |        +--:(ca-best)
| |     |     | |       |        |  +--rw bgp:best?   additional-paths-best
| |     |     | |       |        +--:(ca-all)
| |     |     | |       |           +--rw bgp:all?    empty
| |     |     | |       +--rw bgp:allowas-in?                    uint32
| |     |     | |       +--rw bgp:activate?                      empty
| |     |     | |       +--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:associate-peer-group?        bgp-peergroup
|  |     |    |       +--rw bgp:remote-as?                   bgp-remote-as
|  |     |    |       +--rw bgp:shutdown
|  |     |    |       | +--rw bgp:shutdown-status?    empty
|  |     |    |       | +--rw bgp:generate-rib-out?   empty
|  |     |    |       +--rw bgp:allowas-in?                  uint32
|  |     |    |       +--rw bgp:activate?                    empty
|  |     |    |       +--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-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:additional-paths
|  |  |  |        |                 |     +--rw bgp:add-path-both?   empty
|  |  |  |        |                 |     +--rw bgp:send?            empty
|  |  |  |        |                 |     +--rw bgp:receive?         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:additional-paths
|  |  |  |        |                 |  +--rw bgp:advertise
|  |  |  |        |                 |     +--rw (ch-additional-paths)?
|  |  |  |        |                 |        +--:(ca-best)
|  |  |  |        |                 |        |  +--rw bgp:best?   additional-paths-best
|  |  |  |        |                 |        +--:(ca-all)
|  |  |  |        |                 |           +--rw bgp:all?    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:bfd
|  |  |  |        |                 |  +--rw bgp:bfd-enable?         empty
|  |  |  |        |                 |  +--rw bgp:holdover-interval?   bfd:bfd-holdover-interval
|  |  |  |        |                 |  +--rw bgp:interval
|  |  |  |        |                 |     +--rw bgp:min-tx?       bfd-tx-interval-type
|  |  |  |        |                 |     +--rw bgp:min-rx?       bfd-rx-interval-type
|  |  |  |        |                 |     +--rw bgp:multiplier?   bfd-multiplier-type
|  |  |  |        |                 +--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-port-channel)
| |      |          |                |      | +--rw bgp:port-channel?         interface:portchannel-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: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:client-to-client-reflection?   empty
| |        +--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:retain
| |        | +--rw bgp:route-target
| |        |    +--rw bgp:all?   empty
| |        +--rw bgp:vtep-discovery?              empty
| |        +--rw bgp:neighbor
| |           +--rw bgp:evpn-peer-group [evpn-neighbor-peergroup-name]
| |           | +--rw bgp:evpn-neighbor-peergroup-name    bgp-peergroup
| |           | +--rw bgp:encapsulation?                  encapsulation-t
| |           | +--rw bgp:maximum-prefix?                 max-prefix-limit
| |           | +--rw bgp:route-reflector-client?         empty
| |           | +--rw bgp:allowas-in?                     uint32
| |           | +--rw bgp:next-hop-unchanged?             empty
| |           | +--rw bgp:route-map
| |           | | +--rw bgp:direction-in
| |           | | | +--rw bgp:route-map-name-direction-in?    common-def:name-string64
| |           | | +--rw bgp:direction-out
| |           | |    +--rw bgp:route-map-name-direction-out?   common-def:name-string64
| |           | +--rw bgp:activate?                       empty
```

```
|  |                        |  +--rw bgp:send-community
|  |                        |     +--rw bgp:send-community-status?   empty
|  |                        |     +--rw bgp:both?                    empty
|  |                        |     +--rw bgp:extended?                empty
|  |                        |     +--rw bgp:standard?                empty
|  |                    +--rw bgp:evpn-neighbor-ipv4 [evpn-neighbor-ipv4-address]
|  |                    |  +--rw bgp:evpn-neighbor-ipv4-address    inet:ipv4-address
|  |                    |  +--rw bgp:encapsulation?                encapsulation-t
|  |                    |  +--rw bgp:maximum-prefix?               max-prefix-limit
|  |                    |  +--rw bgp:route-reflector-client?       empty
|  |                    |  +--rw bgp:allowas-in?                   uint32
|  |                    |  +--rw bgp:next-hop-unchanged?           empty
|  |                    |  +--rw bgp:route-map
|  |                    |  |  +--rw bgp:direction-in
|  |                    |  |  |  +--rw bgp:route-map-name-direction-in?    common-def:name-string64
|  |                    |  |  +--rw bgp:direction-out
|  |                    |  |     +--rw bgp:route-map-name-direction-out?   common-def:name-string64
|  |                    |  +--rw bgp:activate?                     empty
|  |                    |  +--rw bgp:send-community
|  |                    |     +--rw bgp:send-community-status?   empty
|  |                    |     +--rw bgp:both?                    empty
|  |                    |     +--rw bgp:extended?                empty
|  |                    |     +--rw bgp:standard?                empty
|  |                    +--rw bgp:evpn-neighbor-ipv6 [evpn-neighbor-ipv6-address]
|  |                       +--rw bgp:evpn-neighbor-ipv6-address    inet:ipv6-address
|  |                       +--rw bgp:encapsulation?                encapsulation-t
|  |                       +--rw bgp:maximum-prefix?               max-prefix-limit
|  |                       +--rw bgp:route-reflector-client?       empty
|  |                       +--rw bgp:allowas-in?                   uint32
|  |                       +--rw bgp:next-hop-unchanged?           empty
|  |                       +--rw bgp:route-map
|  |                       |  +--rw bgp:direction-in
|  |                       |  |  +--rw bgp:route-map-name-direction-in?    common-def:name-string64
|  |                       |  +--rw bgp:direction-out
|  |                       |     +--rw bgp:route-map-name-direction-out?   common-def:name-string64
|  |                       +--rw bgp:activate?                     empty
|  |                       +--rw bgp:send-community
|  |                          +--rw bgp:send-community-status?   empty
|  |                          +--rw bgp:both?                    empty
|  |                          +--rw bgp:extended?                empty
|  |                          +--rw bgp:standard?                empty
|  +--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: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: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:route-map-name?      common-def:name-string63
|     | +--rw ospf:dist-value           uint32
|     | +--rw ospf:source-ip?           ospf-ipv4-address
|     | +--rw ospf:source-ip-mask?      ospf-ipv4-address
|     +--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:maximum-paths?                uint8
|       +--rw ospf:global-bfd
|          +--rw ospf:bfd-enable?        empty
|          +--rw ospf:holdover-interval?   uint8
+--rw mac
|  +--rw mac-access-list:receive
|     +--rw mac-access-list:access-group
|        +--rw mac-access-list:mac-access-list?   mac-acl-name
|        +--rw mac-access-list:mac-direction?     enumeration
+--rw ip
|  +--rw vrrp:static-ag-ip-config
|  |  +--rw vrrp:anycast-gateway-mac
|  |     +--rw vrrp:ip-anycast-gateway-mac?   mac-access-list:mac-address-type
|  |     +--rw vrrp:ip-anycast-default-mac?   empty
|  +--rw dhcp:dhcp
|  |  +--rw dhcp:relay
|  |     +--rw dhcp:information
|  |        +--rw dhcp:option?   empty
|  +--rw ip-access-list:receive
|     +--rw ip-access-list:access-group
|        +--rw ip-access-list:ip-access-list?   l3-acl-policy-name
|        +--rw ip-access-list:ip-direction?     enumeration
+--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: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-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: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 ospfv3:bfd
|  |           +--rw ospfv3:bfd-enable?              empty
|  |           +--rw ospfv3:bfd-holdover-interval?   common-def:time-interval-sec
|  +--rw vrrp:static-ag-ipv6-config
|  |  +--rw vrrp:anycast-gateway-mac
|  |     +--rw vrrp:ipv6-anycast-gateway-mac?   mac-access-list:mac-address-type
|  |     +--rw vrrp:ipv6-anycast-default-mac?   empty
|  +--rw ipv6-access-list:receive
|  |  +--rw ipv6-access-list:access-group
|  |     +--rw ipv6-access-list:ipv6-access-list?   ipv6-l3-acl-policy-name
|  |     +--rw ipv6-access-list:ip-direction?       enumeration
|  +--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 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 brocade-interface:bfd
|  |  |  +--rw brocade-interface:interval
|  |  |  |  +--rw brocade-interface:min-tx?       bfd-tx-interval-type
|  |  |  |  +--rw brocade-interface:min-rx?       bfd-rx-interval-type
|  |  |  |  +--rw brocade-interface:multiplier?   bfd-multiplier-type
|  |  |  +--rw brocade-interface:bfd-shutdown?   empty
|  |  +--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:arp
|  |  |  |  |  +--rw ip-config:learn-any?   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
|  |  |  +--rw vrrp:ip-anycast-address [ip-address]
|  |  |  |  +--rw vrrp:ip-address    union
|  |  |  +--rw vrrp:ip-vrrp-extended
|  |  |  |  +--rw vrrp:auth-type
|  |  |  |     +--rw vrrp:md5-auth
|  |  |  |        +--rw vrrp:auth-data?   string
|  |  |  +--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 icmp:redirect?       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: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
| |  +--rw ip-config: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: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 vrrp:ipv6-anycast-address [ipv6-address]
| |  |  |  +--rw vrrp:ipv6-address    union
| |  |  +--rw vrrp:ipv6-vrrp-extended
| |  |  |  +--rw vrrp:auth-type
| |  |  |     +--rw vrrp:md5-auth
| |  |  |        +--rw vrrp:auth-data?    string
| |  |  +--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 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 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-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:owner
| | | | | +--rw vrrpv3:owner-priority?        uint8
| | | | | +--rw vrrpv3:owner-track-priority?  uint8
| | | | +--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                        vrid-type
| | |    +--rw vrrpv3:virtual-mac
| | |    | +--rw vrrpv3:vmac?   empty
| | |    +--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:vrrp [vrid version]
|  |  |  +--rw vrrp:vrid                      vrid-type
|  |  |  +--rw vrrp:version                   uint8
|  |  |  +--rw vrrp:use-v2-checksum?          empty
|  |  |  +--rw vrrp:owner
|  |  |  |  +--rw vrrp:owner-priority?        uint8
|  |  |  |  +--rw vrrp:owner-track-priority?  uint8
|  |  |  +--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                          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 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 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 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 ip-config:ip
|      |  +--rw ip-config:ip-config
|      |  |  +--rw ip-config:address [address]
|      |  |     +--rw ip-config:address    union
|      |  +--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: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
|      +--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 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-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 bgp:evpn-config
|  +--rw bgp:evpn
|     +--rw bgp:evpn-instance [instance-name]
|        +--rw bgp:instance-name          evpn-type
|        +--rw bgp:route-target
|        |  +--rw bgp:both [target-community]
|        |  |  +--rw bgp:target-community    rt-type
|        |  |  +--rw bgp:ignore-as?          empty
|        |  +--rw bgp:export [target-community]
|        |  |  +--rw bgp:target-community    rt-type
|        |  +--rw bgp:import [target-community]
|        |     +--rw bgp:target-community    rt-type
|        |     +--rw bgp:ignore-as?          empty
|        +--rw bgp:route-distinguisher
|        |  +--rw (ch-rd-type)?
|        |     +--:(ca-rd-auto)
|        |        +--rw bgp:auto?    empty
|        +--rw bgp:df-delay-timer?         delay-timer
|        +--rw bgp:duplicate-mac-timer
|        |  +--rw bgp:duplicate-mac-timer-value?   dup-mac-timer
|        |  +--rw bgp:max-count?                   max-count
|        +--rw bgp:bridge-domain
|        |  +--rw bgp:bd-add
|        |  |  +--rw bgp:bd-range-add?       tunnels:bridge-domain-id-range-type
|        |  |  +--rw bgp:bd-range-remove?    tunnels:bridge-domain-id-range-type
|        |  +--rw bgp:evpn-bd [bd-number]
|        |     +--rw bgp:bd-number        interface:bd-type
|        |     +--rw bgp:rd?              rd-type
|        |     +--rw bgp:route-target
|        |        +--rw bgp:import [target-community]
|        |        |  +--rw bgp:target-community    rd-rt-type
|        |        +--rw bgp:export [target-community]
|        |        |  +--rw bgp:target-community    rd-rt-type
|        |        +--rw bgp:both [target-community]
|        |           +--rw bgp:target-community    rd-rt-type
|        +--rw bgp:vlan
|           +--rw bgp:vlan-add
|           |  +--rw bgp:add?       interface:ui32-vlan-range
|           |  +--rw bgp:remove?    interface:ui32-vlan-range
|           +--rw bgp:evpn-vlan [vlan-number]
|              +--rw bgp:vlan-number      interface:vlan-type
|              +--rw bgp:rd?              rd-type
|              +--rw bgp:route-target
|                 +--rw bgp:import [target-community]
|                 |  +--rw bgp:target-community    rd-rt-type
|                 +--rw bgp:export [target-community]
|                 |  +--rw bgp:target-community    rd-rt-type
|                 +--rw bgp:both [target-community]
|                    +--rw bgp:target-community    rd-rt-type
+--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:mac
|  |  +--rw ip-policy:address
|  |     +--rw ip-policy:mac-acl?   mac-access-list:mac-acl-name
|  +--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:set
|  +--rw ip-policy:interface
|  |  +--rw ip-policy:null0?   empty
|  +--rw ip-policy:ip
|  |  +--rw ip-policy:dscp
|  |  |  +--rw ip-policy:dscp-rms?   dscp-precedence
|  |  +--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: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
+--rw ip-policy:precedence [precedence-value]
    +--rw ip-policy:precedence-value    uint16
    +--rw ip-policy:set
       +--rw ip-policy:interface
       |  +--rw ip-policy:ethernet?       interface:interface-type
       |  +--rw ip-policy:port-channel?   interface:portchannel-type
       +--rw ip-policy:next-hop-tvf-domain?   tvf-domain:tvf-domain-type
```

History

Release version	History
17s.1.00	This YANG module was introduced.
17s.1.001	This YANG module was modified to • added leaf precedence

brocade-dhcp

Provides a data model to manage Dynamic Host Configuration Protocol (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
17s.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
17s.1.00	This Yang module was introduced.

brocade-crypto-ext

Provides extensions to the brocade-crypto module for configuring the 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
17s.1.00	This YANG module was introduced.

brocade-dai

Provides the configuration and RPC implementation details for the IP access list.

Top-level container

```
module: brocade-dai
   +--rw dai-config
      +--rw arp
         +--rw access-list [acl-name]
            +--rw acl-name    dai-acl-policy-name
            +--rw permit
               +--rw permit-list [ip-type host-ip mac-type host-mac]
                  +--rw ip-type     enumeration
                  +--rw host-ip     inet:ipv4-address
                  +--rw mac-type    enumeration
                  +--rw host-mac    string
                  +--rw log?        empty
```

History

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

brocade-dhcpv6

Provides a data model to manage Dynamic Host Configuration Protocol version 6 (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
17s.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 the 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 diag-install
         +--ro input
         +--ro output
            +--ro diag-install-msg?   string
```

History

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

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
17s.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 description?    string
      |  +--rw trigger [trigger-id]
      |  |  +--rw trigger-id    uint32
      |  |  +--rw (trigger-choice)?
      |  |     +--:(raslog)
      |  |        +--rw raslog
      |  |           +--rw raslog?    common-def:name-string32
      |  |           +--rw pattern?   string
      |  +--rw action
      |     +--rw (action-choice)?
      |        +--:(python-script)
      |           +--rw python-script?   common-def:name-string32
      +---x abort
      |  +--ro input
      |     +--ro action    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 trigger-mode?     enumeration
            +--rw trigger-function
            |  +--rw trigger-function?   enumeration
            |  +--rw time-window         uint32
            +--rw action-timeout?   uint32
```

History

Release version	History
17s.1.00	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 File Transfer Protocol (FTP) .
<scp>	Download firmware with Secure Copy (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 dhcp
| +--rw auto-deployment
| | +---x enable
| |    +--ro input
| |    +--ro output
| |       +--ro dad-cmd-msg?   string
| +--rw ztp
|    +---x log
|    | +--ro input
|    | +--ro output
|    |    +--ro dad-cmd-msg?   string
|    +---x cancel
|       +--ro input
|       +--ro output
|          +--ro dad-cmd-msg?   string
+--rw onie
| +---x onie-install
|    +--ro input
|    +--ro output
|       +--ro onie-install-msg?   string
+--rw bootmenu
   +---x menu-enable
   | +--ro input
   | +--ro output
   |    +--ro menu-enable-msg?   string
   +---x menu-disable
      +--ro input
      +--ro output
         +--ro menu-disable-msg?   string
```

RPCs

```
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 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
17s.1.00	This YANG module was introduced.
17s.1.00	This YANG module was modified to : • Removed the container tpvm. • Removed the container cluster-output.

brocade-firmware-ext

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

RPCs

Return firmware version information:

```
rpcs:
  +---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
```

History

Release version	History
17s.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 overlay-visibility
      |  |  +--rw predefined
      |  |     +--rw overlay_visibility_profiletype?   overlay-visibility-subtype
      |  +--rw route-table
      |  |  +--rw predefined
      |  |     +--rw routing_profiletype?   routing-profile-subtype
      |  |     +--rw routing_parameter
      |  |        +--rw maximum_paths?      ecmp-subtype
      |  |        +--rw openflow_enable?   openflow-subtype
      |  +--rw lag
      |  |  +--rw predefined
      |  |     +--rw lag_profiletype?   lag-profile-subtype
      |  +--rw counters
      |  |  +--rw predefined
      |  |     +--rw counters_profiletype?   counters-profile-subtype
      |  +--rw kap
      |     +--rw predefined
      |     |  +--rw kap_profiletype?   kap-profile-subtype
      |     +--rw customized
      |        +--rw kap_profilename?   string
      +--rw system-mode?   system-mode-type
```

History

Release version	History
17s.1.00	This YANG module was introduced.
17s.1.01	This YANG module was modified to include container overlay_visibility.

brocade-http-config

Provides a data model for configuring the Hypertext Transfer Protocol (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
```

History

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

brocade-http-redirect

Provides a data model to redirect the Hypertext Transfer Protocol (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
17s.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
17s.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
17s.1.00	This YANG module was introduced.

brocade-igmp-snooping

Provides a data model for configuring 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
```

History

Release version	History
17s.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	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 interface
   |  +--rw ethernet [name]
   |  |  +--rw name                            interface-type
   |  |  +--rw cee?                            cee-map-name-type
   |  |  +--rw speed?                          enumeration
   |  |  +--rw fec
   |  |  |  +--rw fec-mode?   fec-mode-type
   |  |  +--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-secutiry-mac-address [mac-address port-sec-vlan]
   |  |  |  |  |  +--rw mac-address      mac-address-type
   |  |  |  |  |  +--rw port-sec-vlan    vlan-type
   |  |  |  |  +--rw sticky?
   |  |  |  |  |  +--rw port-secutiry-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
|  |  |  |  | +--rw ip-config:learn-any?   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 ip-config:unnumbered
|  |  |  |     +--rw ip-config:ip-donor-interface-type?   ip-unnumbered-donor-interface-type_t
|  |  |  |     +--rw ip-config:ip-donor-interface-name?   ip-unnumbered-donor-interface-name_t
|  |  |  +--rw dai:arp-node-config
|  |  |  | +--rw dai:arp
|  |  |  |    +--rw dai:inspection
|  |  |  |       +--rw dai:trust?   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
|  |  |  | +--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 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: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
| | +--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 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-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:owner
| | | | | +--rw vrrpv3:owner-priority?          uint8
| | | | | +--rw vrrpv3:owner-track-priority?    uint8
| | | | +--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                           vrid-type
| | |    +--rw vrrpv3:virtual-mac
| | |    | +--rw vrrpv3:vmac?   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: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 bfd
| | | +--rw interval
| | | | +--rw min-tx?       bfd-tx-interval-type
| | | | +--rw min-rx?       bfd-rx-interval-type
| | | | +--rw multiplier?   bfd-multiplier-type
| | | +--rw bfd-shutdown?   empty
| | +--rw tvf-domain
| | | +--rw tvfdomain-all?      empty
| | | +--rw tvfdomain-none?     empty
| | | +--rw tvfdomain-add?      tvf-domain-range
| | | +--rw tvfdomain-remove?   tvf-domain-range
| | +--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-vlan
|   |   |                   |  |  +--rw lif:untagged-flag?       empty
|   |   |                   |  |  +--rw lif:untagged-vlan-id?    interface:vlan-type
|   |   |                   |  +--rw lif:egress?         enumeration
|   |   |                   +--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 vrrp:vrrp [vrid version]
|   |   |  +--rw vrrp:vrid                         vrid-type
|   |   |  +--rw vrrp:version                      uint8
|   |   |  +--rw vrrp:use-v2-checksum?             empty
|   |   |  +--rw vrrp:owner
|   |   |  |  +--rw vrrp:owner-priority?        uint8
|   |   |  |  +--rw vrrp:owner-track-priority?  uint8
|   |   |  +--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                          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 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 ip-policy:npb
|  |  |  +--rw ip-policy:policy
|  |  |     +--rw ip-policy:route-map
|  |  |        +--rw ip-policy:npb-route-map-name?   common-def:name-string63
|  |  +--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:dcbx-version?      enumeration
|  |  |  +--rw lldp:disable?           empty
|  |  |  +--rw lldp:iscsi-priority?    uint32
|  |  |  +--rw lldp:profile?           string
|  |  +--rw packet-timestamp:system
|  |  |  +--rw packet-timestamp:packet-timestamp
|  |  |     +--rw packet-timestamp:ingress?   enumeration
|  |  |     +--rw packet-timestamp:egress?    enumeration
|  |  +--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 ptp:protocol
|  |  |  +--rw ptp:ptp?
|  |  |     +--rw ptp:enable?                    empty
|  |  |     +--rw ptp:announce-interval?         uint32
|  |  |     +--rw ptp:announce-timeout?          uint32
|  |  |     +--rw ptp:sync-interval?             int32
|  |  |     +--rw ptp:delay-request-min-interval?  int32
|  |  |     +--rw ptp:ptp-vlan?                  intf:vlan-type
|  |  +--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: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
|  +--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 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:edgeport
|     |  +--rw xstp:edgeportbasic?   empty
|     |  +--rw xstp:bpdu-guard?      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 cee?                             cee-map-name-type
|  +--rw po-speed?                        enumeration
|  +--rw insight
```

```
        |   |   |   +--rw insight-enable?    empty
        |   |   +--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-secutiry-mac-address [mac-address port-sec-vlan]
        |   |   |   |   |   +--rw mac-address      mac-address-type
        |   |   |   |   |   +--rw port-sec-vlan    vlan-type
        |   |   |   |   +--rw sticky?
        |   |   |   |   |   +--rw port-secutiry-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 dai:arp
        |   |   |       +--rw dai:inspection
        |   |   |           +--rw dai:trust?    empty
        |   |   +--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 tvf-domain
        |   |   |   +--rw tvfdomain-all?       empty
        |   |   |   +--rw tvfdomain-none?      empty
        |   |   |   +--rw tvfdomain-add?       tvf-domain-range
        |   |   |   +--rw tvfdomain-remove?    tvf-domain-range
        |   |   +--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-vlan
| | |                 | | +--rw lif:untagged-flag?        empty
| | |                 | | +--rw lif:untagged-vlan-id?   interface:vlan-type
| | |                 | +--rw lif:egress?                enumeration
| | |                 +--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 ip-policy:npb
| | | +--rw ip-policy:policy
| | |    +--rw ip-policy:route-map
| | |       +--rw ip-policy:npb-route-map-name?   common-def:name-string63
| | +--rw packet-timestamp:system
| | | +--rw packet-timestamp:packet-timestamp
| | |    +--rw packet-timestamp:ingress?   enumeration
| | |    +--rw packet-timestamp:egress?    enumeration
| | +--rw ptp:protocol
| | | +--rw ptp:ptp?
| | |    +--rw ptp:enable?                       empty
| | |    +--rw ptp:announce-interval?            uint32
| | |    +--rw ptp:announce-timeout?             uint32
| | |    +--rw ptp:sync-interval?                int32
| | |    +--rw ptp:delay-request-min-interval?   int32
| | |    +--rw ptp:ptp-vlan?                     intf:vlan-type
| | +--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:edgeport
| |    | +--rw xstp:edgeportbasic?   empty
| |    | +--rw xstp:bpdu-guard?       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
|  |  +--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 dhcp
|     |  |  +--rw relay
|     |  |     +--rw information
|     |  |        +--rw relay-option?   empty
|     |  +--rw dai:arp
|     |  |  +--rw dai:inspection
|     |  |     +--rw dai:trust?      empty
|     |  |     +--rw dai:filter
|     |  |     |  +--rw dai:acl-name?   dai-acl-policy-name
|     |  |     +--rw dai:logging
|     |  |        +--rw dai:acl-match?   enumeration
|     |  +--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-last-member-query-count?      lmqc-type
|     |        +--rw igmp-snooping:igmps-query-interval?               qi-type
|     |        +--rw igmp-snooping:igmps-query-max-response-time?      qmrt-type
|     |        +--rw igmp-snooping:igmps-startup-query-interval?       sqi-type
|     |        +--rw igmp-snooping:igmps-startup-query-count?          sqc-type
|     |        +--rw igmp-snooping:igmps-enable?                       empty
|     |        +--rw igmp-snooping:igmps-fast-leave?                   empty
|     |        +--rw igmp-snooping:igmps_robustness-variable?          rob-type
|     |        +--rw igmp-snooping:restrict-unknown-multicast?         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 ipv6
|     |  +--rw mld-snooping:mldVlan
|     |     +--rw mld-snooping:snooping
|     |        +--rw mld-snooping:last-member-query-interval?   lmqt-type
|     |        +--rw mld-snooping:last-member-query-count?      lmqc-type
|     |        +--rw mld-snooping:startup-query-interval?       sqi-type
|     |        +--rw mld-snooping:startup-query-count?          sqc-type
|     |        +--rw mld-snooping:query-max-response-time?      qmrt-type
|     |        +--rw mld-snooping:query-interval?               qi-type
|     |        +--rw mld-snooping:enable?                       empty
|     |        +--rw mld-snooping:fast-leave?                   empty
|     |        +--rw mld-snooping:robustness-variable?          rob-type
|     |        +--rw mld-snooping:querier
|     |        |  +--rw mld-snooping:qenable?   empty
|     |        +--rw mld-snooping:mrouter
|     |        |  +--rw mld-snooping:interface [if-type value]
|     |        |     +--rw mld-snooping:if-type    enumeration
|     |        |     +--rw mld-snooping:value      string-type
|     |        +--rw mld-snooping:static-group [mcast-address interface if-type value]
|     |           +--rw mld-snooping:mcast-address    inet:ipv6-address
|     |           +--rw mld-snooping:interface        enumeration
|     |           +--rw mld-snooping:if-type          enumeration
```

```
|      |           +--rw mld-snooping: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 arp:suppress-arp
|      |  +--rw arp:suppress-arp-enable?   empty
|      +--rw ipv6-nd-ra:suppress-nd
|      |  +--rw ipv6-nd-ra:suppress-nd-enable?   empty
|      +--rw xstp:spanning-tree
|         +--rw xstp:stp-shutdown?   empty
+--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
|  |  |     +--rw lldp:adv-tlv-system-name?         empty
|  |  +--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
|  |           +--rw lldp:adv-tlv-system-name?         empty
|  +--rw ptp:ptp?
|  |  +--rw ptp:enable?      empty
|  |  +--rw ptp:domain?      uint32
|  |  +--rw ptp:priority1?   uint32
|  |  +--rw ptp:priority2?   uint32
|  |  +--rw ptp:source-ip?   inet:ipv4-address
|  +--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:cluster-system-id?    uint8
|     |  +--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:cluster-system-id?      uint8
|   |  +--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:cluster-system-id?      uint8
|   |  +--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:cluster-system-id?      uint8
|   |  +--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:cluster-system-id?      uint8
|      +--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
+--rw global-mtu-conf
   +--rw global-l2-mtu?      mtu-type
   +--rw ip-config:ip
   |  +--rw ip-config:global-ip-mtu?   ip-mtu
   +--rw ipv6-config:ipv6
      +--rw ipv6-config:global-ipv6-mtu?   ip-mtu
```

History

Release version	History
17s.1.00	This YANG module was introduced.
17s1.01	This YANG module was modified to include • TBD

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

```
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 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
17s.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
17s.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 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 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
```

History

Release version	History
17s.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
17s.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
17s.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
17s.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

External augmentations

```
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 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 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
```

History

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

brocade-ipv6-config

Provides a data model to manage the configuration and RPC implementation for an IPv6 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
17s.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
17s.1.00	This YANG module was introduced.

brocade-ipv6-rtm

Provides a data model to manage IPv6 routes.

External augmentations

```
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
17s.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
17s.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

```
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
17s.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
17s.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–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
17s.1.00	This YANG module was introduced.

brocade-lldp-ext

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

RPCs

```
module: brocade-lldp-ext
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-unnum-interface-mac?  interface:mac-address-type
        |  +--ro remote-unnum-ip-address?     inet:ip-address
        |  +--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
17s.1.00	This YANG module was introduced.
17s.1.01	This YANG module was modified to: • Under the container lldp-neighbor-detail, added leaves lldp-pdu-transmitted and lldp-pdu-received.

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 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 count?             empty
                  +--rw log?               empty
```

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
17s.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 learning-mode?       enumeration
   |  +--rw aging-time
   |  |  +--rw conversational-time-out?   uint32
   |  |  +--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
   +--rw mac-group [mac-group-id]
      +--rw mac-group-id        interface:mac-group-id-type
      +--rw mac-group-entry [entry-address]
         +--rw entry-address    interface:mac-address-type
```

RPCs

```
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?           booleanr-client-esi
         +--rw client-deploy?       empty
```

History

Release version	History
17s.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 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
         |  +--rw (esi)?
         |     +--:(esi-ch-val)
         |     |  +--rw esi-value?   cluster-client-esi
         |     +--:(esi-ch-auto)
         |        +--rw esi-auto?    enumeration
         +--rw client-deploy?      empty
```

History

Release version	History
17s.1.00	This YANG module was introduced.
17s.1.00	This YANG module was modified to include the following. • Added container esi.

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
17s.1.00	This YANG module was introduced.

brocade-node

Provides a data module to manage nodes.

Top-level container

```
module: brocade-node
  +--rw node-id [node-id]
      +--rw node-id                    uint32
      +--rw brocade-cluster:cluster
         +--rw brocade-cluster:management
            +--rw brocade-cluster:principal-priority?   uint32
```

History

Release version	History
17s.1.01	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 transparent?                    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
+--ro tvf-domain-list-state [domain-count]
   +--ro domain-count    uint32
   +--ro domain-list [id]
      +--ro id           uint32
      +--ro port-list
         +--ro name?   string
```

History

Release version	History
17s.1.00	This YANG module was introduced.
17s.1.01	This YANG module was modified to include the following. Added transparent, tvf-domain-list-state, domain-count, and domain-list.

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
17s.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
17s.1.00	This YANG module was introduced.

brocade-packet-timestamp

Describes the data model for packet time stamping.

External augmentations

```
module: brocade-interface
   |  +--rw packet-timestamp:system
   |  |  |  +--rw packet-timestamp:packet-timestamp
   |  |  |     +--rw packet-timestamp:ingress?   enumeration
   |  |  |     +--rw packet-timestamp:egress?    enumeration

 module: brocade-interface
   |  |  +--rw packet-timestamp:system
   |  |  |  +--rw packet-timestamp:packet-timestamp
   |  |  |     +--rw packet-timestamp:ingress?   enumeration
   |  |  |     +--rw packet-timestamp:egress?    enumeration
```

History

Release version	History
17s.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-ptp

Provides a data model to manage precision time protocol (PTP) configuration.

External augmentations

```
module: brocade-interface

|  +--rw ptp:protocol
|  |  +--rw ptp:ptp?
|  |  +--rw ptp:ptp?
|  |     +--rw ptp:enable?
|  |     +--rw ptp:announce-interval?
|  |     +--rw ptp:announce-timeout?
|  |     +--rw ptp:sync-interval?
|  |     +--rw ptp:delay-request-min-interval?
|  |     +--rw ptp:ptp-vlan?
|  |     +--rw ptp:ptp-vlan?
|  +--rw ptp:protocol
|  |  +--rw ptp:ptp?
|  |  +--rw ptp:ptp?
|  |     +--rw ptp:enable?
|  |     +--rw ptp:announce-interval?
|  |     +--rw ptp:announce-timeout?
|  |     +--rw ptp:sync-interval?
|  |     +--rw ptp:delay-request-min-interval?
|  |     +--rw ptp:ptp-vlan?
|  |     +--rw ptp:ptp-vlan?
+--rw ptp:ptp?
+--rw ptp:ptp?
|  +--rw ptp:enable?      empty
|  +--rw ptp:domain?      uint32
|  +--rw ptp:priority1?   uint32
|  +--rw ptp:priority2?   uint32
|  +--rw ptp:source-ip?   inet:ipv4-address
|  +--ro hello-padding-ptp?              uint
|  +--ro ptp-handshake?                  bool
```

History

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

brocade-ptp-operational

Manages precision time protocol (PTP) operational information.

Top-level container

```
module: brocade-ptp-operational
   +--ro ptp-state
      +--ro brief
      |  +--ro port-detail-list [port]
      |     +--ro port        string
      |     +--ro ptp-state?   string
      +--ro clock
      |  +--ro type?                string
      |  +--ro identity?            string
      |  +--ro domain?              uint32
      |  +--ro clock-state?         string
      |  +--ro ptp-port-count?      uint32
      |  +--ro priority1?           uint8
      |  +--ro priority2?           uint8
      |  +--ro offset-from-master?   string
      |  +--ro mpd?                 string
      |  +--ro steps-removed?       uint32
      |  +--ro local-time?          string
      |  +--ro quality
      |     +--ro clock-class?   uint32
      |     +--ro accuracy?      uint32
      |     +--ro offset?        uint32
      +--ro clock-foreign-masters
      |  +--ro foreign-master-detail-list [interface]
      |     +--ro interface       string
      |     +--ro clock-id?       string
      |     +--ro priority1?      uint32
      |     +--ro priority2?      uint32
      |     +--ro clock-class?    uint32
      |     +--ro accuracy?       uint32
      |     +--ro oslv?           uint32
      |     +--ro steps-removed?   uint32
      +--ro corrections
      |  +--ro correction-detail-list [slave-port sup-time]
      |     +--ro slave-port    string
      |     +--ro sup-time      string
      |     +--ro correction?   int32
      +--ro parent-port-detail
      |  +--ro parent-clock-identity?          string
      |  +--ro parent-port-number?             uint32
      |  +--ro parent-ip-address?              string
      |  +--ro parent-offset?                  int32
      |  +--ro parent-cpcr?                    int32
      |  +--ro grandparent-identity?           string
      |  +--ro grandparent-quality-class?      uint32
      |  +--ro grandparent-quality-accuracy?   uint32
      |  +--ro grandparent-quality-oslv?       uint32
      |  +--ro grandparent-quality-priority1?   uint32
      |  +--ro grandparent-quality-priority2?   uint32
      +--ro time-property
      |  +--ro utc-offset-valid?      uint32
      |  +--ro utc-offset?            uint32
      |  +--ro leap59?               uint32
      |  +--ro leap61?               uint32
      |  +--ro time-traceable?       uint32
      |  +--ro frequency-traceable?   uint32
      |  +--ro timescale?            uint32
      |  +--ro timesource?           string
      +--ro interfaces-detail [interface-key]
         +--ro interface-key            string
         +--ro interface-detail-list [id]
            +--ro id                      string
```

```
+--ro port-dataset?                  string
+--ro clock-identity?                string
+--ro port-number?                   uint32
+--ro ptp-version?                   uint16
+--ro port-state?                    string
+--ro port-type?                     string
+--ro vlan-info?                     uint16
+--ro dri?                           int32
+--ro arto?                          uint16
+--ro pmpd?                          string
+--ro annouce-interval?              int32
+--ro sync-interval?                 int32
+--ro delay-mechanism?               string
+--ro transport-mode?                string
+--ro announce-msg-sent?             uint32
+--ro announce-msg-received?         uint32
+--ro sync-msg-sent?                 uint32
+--ro sync-msg-received?             uint32
+--ro followup-msg-sent?             uint32
+--ro followup-msg-received?         uint32
+--ro delay-req-msg-sent?            uint32
+--ro delay-req-msg-received?        uint32
+--ro delay-res-msg-sent?            uint32
+--ro delay-res-msg-received?        uint32
+--ro peer-delay-req-msg-sent?       uint32
+--ro peer-delay-req-msg-received?   uint32
+--ro peer-delay-res-msg-sent?       uint32
+--ro peer-delay-res-msg-received?   uint32
+--ro peer-delay-res-fm-sent?        uint32
+--ro peer-delay-res-fm-received?    uint32
```

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-cee

Manages the Converged Enhanced Ethernet (CEE) map.

Top-level container

```
module: brocade-qos-cee
  +--rw cee-map [name]
  |  +--rw name                    cee-map-name-type
  |  +--rw precedence?             int32
  |  +--rw priority-group-table [PGID]
  |  |  +--rw PGID     qos-type-PGID
  |  |  +--rw weight?  int32
  |  |  +--rw pfc      enumeration
  |  +--rw priority-table
  |  |  +--rw map-cos0-pgid?  string
  |  |  +--rw map-cos1-pgid?  string
  |  |  +--rw map-cos2-pgid?  string
  |  |  +--rw map-cos3-pgid?  string
  |  |  +--rw map-cos4-pgid?  string
  |  |  +--rw map-cos5-pgid?  string
  |  |  +--rw map-cos6-pgid?  string
  |  |  +--rw map-cos7-pgid?  string
  |  +--rw remap
  |     +--rw lossless-priority
  |        +--rw lossless-remapped-priority?  int32
  +--rw nas
     +--rw auto-qos?
     |  +--rw set
     |     +--rw cos?   qos-mls:cos-id-type
     |     +--rw dscp?  qos-mls:dscp-id-type
     +--rw server-ip [server-ip]
        +--rw server-ip    nas-ip-prefix
        +--rw vrf [vrf-name]
        |  +--rw vrf-name    string
        +--rw vlan [vlan-number]
           +--rw vlan-number    interface:vlan-type
```

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-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
        |   |   +---x off
        |   |   +---x dir
        |   |   +---x remove
        |   |   |   +--ro input
        |   |   |      +--ro directory    string
        |   |   |      +--ro file         string
        |   |   +---x tpvm
        |   |      +--ro input
        |   +--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
```

RPCs

```
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
17s.1.00	This YANG module was introduced.

brocade-ras-ext

Provides a data model for managing RASLlog-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

```
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 input
     |  +--ro rbridge-id?   switchid-type
     +--ro output
        +--ro show-system-info
           +--ro rbridge-id?   switchid-type
           +--ro stack-mac?    ietfyang:mac-address
```

History

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

brocade-rbridge-lag

Provides a data model to manage Link Aggregation Group (LAG) protocol.

Top-level container

```
module: brocade-rbridge-lag
   +--rw load-balance
   |  +--rw hash
   |  |  +--rw ethernet
   |  |  |  +--rw sa-mac?    empty
   |  |  |  +--rw da-mac?    empty
   |  |  |  +--rw vlan?      empty
   |  |  |  +--rw etype?     empty
   |  |  +--rw ip
   |  |  |  +--rw src-l4-port?    empty
   |  |  |  +--rw dst-l4-port?    empty
   |  |  |  +--rw src-ip?         empty
   |  |  |  +--rw dst-ip?         empty
   |  |  |  +--rw protocol?       empty
   |  |  +--rw ipv6
   |  |  |  +--rw ipv6-src-l4-port?    empty
   |  |  |  +--rw ipv6-dst-l4-port?    empty
   |  |  |  +--rw ipv6-src-ip?         empty
   |  |  |  +--rw ipv6-dst-ip?         empty
   |  |  |  +--rw ipv6-next-hdr?       empty
   |  +--rw po-load-balance
   |     +--rw load-balance-type?   enumeration
   +--rw lag
      +--rw hash
         +--rw hdr-start
         |  +--rw fwd-term?   enumeration
         +--rw bos
         |  +--rw start-skip?   enumeration
         +--rw hdr-count?     uint32
         +--rw rotate?        uint32
         +--rw normalize?     empty
         +--rw srcport?       empty
         +--rw pwctrlword?    empty
```

History

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

brocade-resource-monitor

Manages the Brocade Resource Monitor configuration commands.

Top-level container

```
module: brocade-resource-monitor
   +--rw resource-monitor
      +--rw cpu
      |  +--rw enable-cpu?         empty
      |  +--rw threshold-cpu?      uint32
      |  +--rw action-cpu?         resource-monitor-actiontype
      |  +--rw sample-rate-cpu?    uint32
      |  +--rw logging-rate-cpu?   uint32
      |  +--rw grace-period-cpu?   uint32
      |  +--rw offset-cpu?         uint32
      +--rw memory
      |  +--rw enable-memory?        empty
      |  +--rw threshold-memory?     uint32
      |  +--rw action-memory?        resource-monitor-actiontype
      |  +--rw sample-rate-memory?   uint32
      |  +--rw logging-rate-memory?  uint32
      |  +--rw grace-period-memory?  uint32
      |  +--rw offset-memory?        uint32
      +--rw process
         +--rw memory
            +--rw enable-process?      empty
            +--rw thresh-mem-alarm?    uint32
            +--rw thresh-mem-critic?   uint32
```

History

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

brocade-rtm

Provides a data model for IP routes.

External augmentations

```
module: brocade-rbridge
    +--rw rbridge-id [rbridge-id]
      +--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
      | |          +--rw rtm:holdover-interval?   uint8
      | +--rw rtm:import
      |    +--rw rtm:routes [src-vrf map]
      |       +--rw rtm:src-vrf    common-def:vrf-name
      |       +--rw rtm:map common-def:name-string63


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


module: brocade-rbridge
   +--rw rbridge-id [rbridge-id]
      +--rw vrf:vrf [vrf-name]
      |  +--rw vrf:address-family
      |  |  +--rw vrf:ip
      |  |  |  +--rw rtm:ip
      |  |  |     +--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
         |  |  |        +--rw rtm:import
         |  |  |           +--rw rtm:routes [src-vrf map]
         |  |  |              +--rw rtm:src-vrf    common-def:vrf-name
         |  |  |              +--rw rtm:map common-def:name-string63

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
17s.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
```

History

Release version	History
17s.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 collector-vrf?      common-def:vrf-name
   |  +--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
   +--rw sflow-profile [profile-name]
      +--rw profile-name           profile-name-type
      +--rw profile-sampling-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
17s.1.00	This Yang Module was introduced.

brocade-snmp

Provides a data model for configuring the Simple Network Management Protocol (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
17s.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
17s.1.00	This YANG module was introduced.

brocade-sysdiag-operational

Provides a data model to manage the 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 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 cpu-pkt-cnt-aggr?            uint64
  |  |  +--ro uni-pkt-cnt-aggr?            uint64
  |  |  +--ro mcast-pkt-cnt-aggr?          uint64
  |  |  +--ro uni-discard-pkt-cnt-aggr?    uint64
  |  |  +--ro mcast-discard-pkt-cnt-aggr?  uint64
  |  |  +--ro fqp-pkt-cnt-aggr?            uint64
  |  |  +--ro ehp-discard-cnt-aggr?        uint64
  |  +--ro non-empty-voq [slot-port]
  |  |  +--ro slot-port    string
  |  |  +--ro voq-id?      uint32
  |  |  +--ro voq-size?    uint32
  |  +--ro tmcpustatsslot [slot-id cpugroup-id]
  |  |  +--ro slot-id        uint16
  |  |  +--ro cpugroup-id    uint16
  |  |  +--ro enquepkt?      uint64
  |  |  +--ro enqueubytes?   uint64
  |  |  +--ro discardpkt?    uint64
  |  |  +--ro discardbytes?  uint64
  |  |  +--ro currdepth?     uint64
  |  |  +--ro maxdepth?      uint64
  |  +--ro tmcpustatsslotallgrp [slot-id]
  |  |  +--ro slot-id        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 gos-stats
   |  +--ro link-status?                 string
   |  +--ro tx-pkts-cnt?                 uint64
   |  +--ro tx-bytes-cnt?                uint64
   |  +--ro tx-errors-cnt?               uint64
   |  +--ro tx-drop-cnt?                 uint64
   |  +--ro tx-overrun-error-cnt?        uint64
   |  +--ro tx-carrier-error-cnt?        uint64
   |  +--ro rx-pkts-cnt?                 uint64
   |  +--ro rx-bytes-cnt?                uint64
   |  +--ro rx-errors-cnt?               uint64
   |  +--ro rx-drop-cnt?                 uint64
   |  +--ro rx-overrun-error-cnt?        uint64
   |  +--ro rx-frame-error-cnt?          uint64
   |  +--ro tx-aborted-error-cnt?        uint64
   |  +--ro tx-fifo-error-cnt?           uint64
   |  +--ro tx-timeout-cnt?              uint64
   |  +--ro tx-flow-control-xon-cnt?     uint64
   |  +--ro tx-flow-control-xoff-cnt?    uint64
   |  +--ro tx-pkts-64bytes-cnt?         uint64
   |  +--ro tx-pkts-64-127bytes-cnt?     uint64
   |  +--ro tx-pkts-128-255bytes-cnt?    uint64
   |  +--ro tx-pkts-256-511bytes-cnt?    uint64
   |  +--ro tx-pkts-512-1023bytes-cnt?   uint64
   |  +--ro tx-pkts-1024bytes-max-cnt?   uint64
   |  +--ro tx-bcast-pkts-cnt?           uint64
   |  +--ro tx-mcast-pkts-cnt?           uint64
   |  +--ro rx-crc-error-cnt?            uint64
   |  +--ro rx-fifo-error-cnt?           uint64
   |  +--ro rx-missed-errors-cnt?        uint64
   |  +--ro rx-no-dma-resource-cnt?      uint64
   |  +--ro rx-flow-control-xon-cnt?     uint64
   |  +--ro rx-flow-control-xoff-cnt?    uint64
   |  +--ro rx-pkts-64bytes-cnt?         uint64
   |  +--ro rx-pkts-64-127bytes-cnt?     uint64
   |  +--ro rx-pkts-128-255bytes-cnt?    uint64
   |  +--ro rx-pkts-256-511bytes-cnt?    uint64
   |  +--ro rx-pkts-512-1023bytes-cnt?   uint64
   |  +--ro rx-pkts-1024bytes-max-cnt?   uint64
   |  +--ro rx-good-pkts-cnt?            uint64
   |  +--ro rx-bcast-pkts-cnt?           uint64
   |  +--ro rx-mcast-pkts-cnt?           uint64
   +--ro host-stats
      +--ro link-status?                 string
      +--ro tx-pkts-cnt?                 uint64
      +--ro tx-bytes-cnt?                uint64
      +--ro tx-errors-cnt?               uint64
      +--ro tx-drop-cnt?                 uint64
      +--ro tx-overrun-error-cnt?        uint64
      +--ro tx-carrier-error-cnt?        uint64
      +--ro rx-pkts-cnt?                 uint64
      +--ro rx-bytes-cnt?                uint64
      +--ro rx-errors-cnt?               uint64
      +--ro rx-drop-cnt?                 uint64
      +--ro rx-overrun-error-cnt?        uint64
      +--ro rx-frame-error-cnt?          uint64
      +--ro tx-aborted-error-cnt?        uint64
      +--ro tx-fifo-error-cnt?           uint64
      +--ro tx-timeout-cnt?              uint64
```

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

Provides a data model for system-related information.

Top-level container

```
module: brocade-system
   +--rw host
      +---x host-ipv4
      |  +--ro input
      |  |  +--ro host-ipv4-address?   common-def:ipv4-address-prefix-type
      |  |  +--ro host-ipv4-gateway?   inet:ipv4-address
      |  +--ro output
      |     +--ro host-ipv4-msg?   string
      +---x host-ipv6
         +--ro input
         |  +--ro host-ipv6-address?   common-def:ipv6-address-prefix
         |  +--ro host-ipv6-gateway?   inet:ipv6-address
         +--ro output
            +--ro host-ipv6-msg?   string
```

RPCs

```
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
```

History

Release version	History
17s.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 mqc
        | +--ro span?   boolean
        +--ro qos
        | +--ro system-rx-queue-limit?     boolean
        | +--ro system-tx-queue-limit?     boolean
        | +--ro show-rx-queue-interface?   boolean
        | +--ro conf-rx-queue-interface?   boolean
        | +--ro cee
        | | +--ro nas?   boolean
        | +--ro cpu
        |     +--ro slot?    boolean
        |     +--ro queue?   boolean
        +--ro maps
        | +--ro qos_mpls?   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 lif_untagged_vlan_id?        boolean
        | +--ro bridgedomain_local_switching?   boolean
        | +--ro dot1x?                       boolean
        +--ro l3
        | +--ro ip_mtu?   boolean
        +--ro ipv6
        | +--ro ipv6Raguard?   boolean
        +--ro ssm
        | +--ro aclTrafficType?   boolean
        +--ro lag
        | +--ro PortchannelRedundancy?    boolean
        +--ro bgp
        | +--ro next-hop-mpls?       boolean
        | +--ro redistribute-isis?   boolean
        +--ro license
        | +--ro eula_display?   boolean
        | +--ro dpod_display?   boolean
        | +--ro slot_display?   boolean
        +--ro ip
        | +--ro igmp?            boolean
        | +--ro igmp-snooping
        |     +--ro igmp-snooping-version?   boolean
        +--ro tm?            boolean
        +--ro pw-profile?   boolean
        +--ro overlay
        | +--ro gre?   boolean
        +--ro cfm?          boolean
```

History

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

Release version	History
17s.1.01	This YANG module was modified to include the following. container maps and pw-profile

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
17s.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
```

History

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

brocade-telemetry

Provides a data model to manage the telemetry configuration.

Top-level container

```
module: brocade-telemetry
   +--rw telemetry
      +--rw collector [collector-name]
      |  +--rw collector-name         common-def:name-string32
      |  +--rw collector-ip
      |  |  +--rw collector-ip-address?   inet:ipv4-address
      |  |  +--rw collector-port?         inet:port-number
      |  +--rw collector-profile [collector-profiletype collector-profilename]
      |  |  +--rw collector-profiletype    telemetry-profile-type
      |  |  +--rw collector-profilename    collector-profile-name-type
      |  +--rw collector-activate?   empty
      |  +--rw collector-encoding?   collector-encoding-type
      +--rw server [use-vrf]
      |  +--rw use-vrf       common-def:vrf-name
      |  +--rw transport?    service-transport-type
      |  +--rw port?         service-port-type
      |  +--rw activate?     empty
      +--rw profile
         +--rw system-utilization [name]
         |  +--rw name        system-profile-name-type
         |  +--rw interval?   system-profile-interval-type
         |  +--rw add [object]
         |     +--rw object    system-profile-object-type
         +--rw interface [name]
            +--rw name          interface-profile-name-type
            +--rw interval?     interface-profile-interval-type
            +--rw interface [interface-range]
            |  +--rw interface-range    phy-interface-range-cli-pattern
            +--rw add [object]
               +--rw object    interface-profile-object-type
```

History

Release version	History
17s.1.00	This YANG module was introduced.
17s.1.01	This YANG module was modified to include the following. Added leaf collector-encoding

brocade-terminal

Provides a data model for managing command line interface (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
17s.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 thresholds are monitored:

- CPU usage
- Ethernet interfaces
- Memory usage
- Security parameters, including Telnet violations and login violations

Top-level container

```
module: brocade-threshold-monitor
  +--rw threshold-monitor-hidden
     +--rw threshold-monitor
        +--rw sfp
        |  +--rw apply?    supported-config
        |  +--rw pause?    empty
        |  +--rw policy [policy_name]
        |     +--rw policy_name    string
        |     +--rw area [type area_value]
        |        +--rw type          enumeration
        |        +--rw area_value    enumeration
        |        +--rw threshold
        |        |  +--rw high-threshold?   int32
        |        |  +--rw low-threshold?    int32
        |        |  +--rw buffer?           int32
        |        +--rw alert
        |           +--rw above
        |           |  +--rw above-highthresh-action?   supported-actions
        |           +--rw below
        |              +--rw below-highthresh-action?   supported-actions
        |              +--rw below-lowthresh-action?    supported-actions
        +--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
17s.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
```

History

Release version	History
17s.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
```

History

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

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 route-distiniguisher?    rd-type
      +--rw evpn
      |  +--rw irb
      |     +--rw ve?   interface:ve-type
      +--rw address-family
      |  +--rw ip
      |  |  +--rw unicast?
      |  |     +--rw max-route?       uint32
      |  |     +--rw route-target [action target-community]
      |  |     |  +--rw action            enumeration
      |  |     |  +--rw target-community    rt-type
      |  |     |  +--rw evpn?               empty
      |  |     +--rw import
      |  |     |  +--rw map-import?    route-map-type
      |  |     |  +--rw evpn-import?   empty
      |  |     +--rw export
      |  |     |  +--rw map-export?    route-map-type
      |  |     |  +--rw evpn-export?   empty
      |  |     +--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:ve-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:static
      |  |        |     +--rw rtm:bfd
      |  |        |        +--rw rtm:bfd-static-route [bfd-static-route-dest bfd-static-route-src]
```

```
|  |           |       | +--rw rtm:bfd-static-route-dest       inet:ipv4-address
|  |           |       | +--rw rtm:bfd-static-route-src        inet:ipv4-address
|  |           |       | +--rw rtm:bfd-interval-attributes
|  |           |       |    +--rw rtm:interval?    uint16
|  |           |       |    +--rw rtm:min-rx?      uint16
|  |           |       |    +--rw rtm:multiplier?  uint8
|  |           |       +--rw rtm:holdover-interval?  uint8
|  |        +--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 route-target [action target-community]
|        |  +--rw action              enumeration
|        |  +--rw target-community    rt-type
|        |  +--rw evpn?               empty
|        +--rw import
|        |  +--rw map-import?    route-map-type
|        |  +--rw evpn-import?   empty
|        +--rw export
|        |  +--rw map-export?    route-map-type
|        |  +--rw evpn-export?   empty
|        +--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:static
|              |    +--rw ipv6-route:bfd
```

```
       |              |                +--rw ipv6-route:bfd-ipv6-static-route [bfd-ipv6-
static-route-src]
       |              |          |  +--rw ipv6-route:bfd-ipv6-static-route-dest    inet:ipv6-address
       |              |          |  +--rw ipv6-route:bfd-ipv6-static-route-src     inet:ipv6-address
       |              |          |  +--rw ipv6-route:bfd-ipv6-interval-attributes
       |              |          |     +--rw ipv6-route:interval?     uint16
       |              |          |     +--rw ipv6-route:min-rx?       uint16
       |              |          |     +--rw ipv6-route:multiplier?   uint8
       |              |          +--rw ipv6-route:bfd-ipv6-link-local-static-route [bfd-ipv6-link-local-dest
bfd-ipv6-link-local-src bfd-interface-type bfd-interface-name]
       |              |          |  +--rw ipv6-route:bfd-ipv6-link-local-dest     inet:ipv6-address
       |              |          |  +--rw ipv6-route:bfd-ipv6-link-local-src      inet:ipv6-address
       |              |          |  +--rw ipv6-route:bfd-interface-type           enumeration
       |              |          |  +--rw ipv6-route:bfd-interface-name           string
       |              |          |  +--rw ipv6-route:bfd-ipv6-interval-attributes
       |              |          |     +--rw ipv6-route:interval?     uint16
       |              |          |     +--rw ipv6-route:min-rx?       uint16
       |              |          |     +--rw ipv6-route:multiplier?   uint8
       |              |          +--rw ipv6-route:ipv6-holdover-interval?          uint8
       |              +--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
17s.1.00	This YANG module was introduced.
17s.1.01	This YANG module was modified to include the following. route-distiniguisher, evpn leaves route-target,

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.

Top-level container

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

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
17s.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-rbridge-global
     +--rw vrrp-acceptmode-disable?   empty
```

History

Release version	History
17s.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 Spanning Tree Protocol (RSTP), 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
17s.1.00	This YANG module was introduced.

brocade-xstp-ext

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

RPCs

```
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 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 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 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 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 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 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 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
17s.1.00	This YANG module was introduced.

brocade-zone

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

Top-level container

RPCs

```
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
17s.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	extreme-firmware	Returns firmware activation status.
bna-config-cmd	extreme-ras	Copies configuration data to and from the system.
bna-config-cmd-status	extreme-ras	Returns the status of the last configuration command.
dad-status	extreme-firmware	Displays the current status of firmware download.
firmware-download	extreme-firmware	Returns the firmware information.
fwdl-status	extreme-firmware	Returns the status of the firmware download operation.
get-arp	extreme-arp	Returns ARP entries of the managed entity.
get-contained-in-ID	extreme-entity	Returns the slot or container name or ID, where the managed device is "contained in".
get-flexports	extreme-hardware	Retrieves the list of flexports.
get-interface-detail	extreme-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	extreme-interface-ext	Returns switch-port or Layer 2 characteristics of all the interfaces in the managed device.
get-ip-interface	extreme-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	extreme-vcs	Returns the time stamp of the last configuration change done on the managed device.
get-last-config-update-time-for-xpaths	extreme-vcs	Returns the time stamp of the last configuration change done on the managed device for Xpaths.
get-lldp-neighbor-detail	extreme-lldp-ext	Returns the details of all the neighboring interfaces of the managed entity.
get-mac-acl-for-intf	extreme-mac-access-list	Returns information about the MAC ACL applied on the specified interfaces.
get-mac-address-table	extreme-mac-address-table	Returns the MAC address table for a given MAC address.
get-media-detail	extreme-interface-ext	Returns the media properties of all the interfaces of the managed entity.
get-nameserver-detail	extreme-nameserver	Displays detailed information of the devices stored in the Name Server database.
get-netconf-client-capabilities	extreme-netconf-ext	Returns the vendor information for all NETCONF clients.

TABLE 5 Custom RPCs (continued)

RPC name	Host module	Synopsis
get-port-channel-detail	extreme-lag	Returns link aggregation control configuration parameters for all the port-channels in the system.
get-portchannel-info-by-intf	extreme-lag	Returns link aggregation control configuration parameters for a given aggregation port in the system.
get-port-profile-for-intf	extreme-port-profile-ext	Returns the port-profiles applied on ports and port-channels.
get-port-profile-status	extreme-port-profile-ext	Returns the status of a port-profile.
get-stp-brief-info	extreme-xstp-ext	Returns Spanning Tree Protocol (STP) information.
get-stp-mst-detail	extreme-xstp-ext	Returns Multiple Spanning Tree Protocol (MSTP) details.
get-system-uptime	extreme-system	Returns the time since the managed entity was last reinitialized.
get-vcs-details	extreme-vcs	Retains detailed VCS fabric information.
get-vlan-brief	extreme-interface-ext	Returns operational data for a given VLAN and enumeration of all the interfaces belonging to this VLAN.
get-vmpolicy-macaddr	extreme-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	extreme-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	extreme-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	extreme-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	extreme-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	extreme-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-vswitches	extreme-vswitch	Takes vCenter name as mandatory input, data center name as optional input.

TABLE 5 Custom RPCs (continued)

RPC name	Host module	Synopsis
		All is not supported input anymore.
		Data center name added in output. Returns discovered virtual switches.
get-vmpolicy-macaddr	extreme-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	extreme-tunnels-extrpcs	Retrieves summary of one or more tunnles from the switch.
get-tunnel-statistics	extreme-tunnels-extrpcs	Retrieves tunnel statistics such as count of bytes and frames transmitted and received.
l2traceroute	extreme-trilloam	Traces a TRILL route from a host source MAC address to a destination MAC address.
l2traceroute-result	extreme-trilloam	Returns the result of a TRILL traceroute.
logical-chassis-fwdl-sanity	extreme-firmware	Retrieves firmware download sanity check status.
logical-chassis-fwdl-status	extreme-firmware	Retrieves firmware activation status.
maps-get-all-policy	extreme-maps-ext	Retrieves the existing MAPS Policies.
maps-get-default-rules	extreme-maps-ext	Retrieves the existing MAPS Policies.
redundancy	extreme-ha	Enables high availability (HA).
reload	extreme-ha	Reloads HA.
set-http-application-url	extreme-http-redirect	Sets the HTTP application URL.
show-bare-metal-state	extreme-preprovision	Indicates the bare-metal state on the system.
show-clock	extreme-clock	Returns the date, time, and time zone.
show-fabric-trunk-info	extreme-fabric-service	Provides all ISL trunk information in a fabric.
show-fibrechannel-interface-info	extreme-fabric-service	Provides detailed information of Fibre Channel ports in the routing bridge.
show-firmware-version	extreme-firmware-ext	Returns firmware version information.
show-linkinfo	extreme-fabric-service	Returns details of all the links connected in the fabric.
show-ntp	extreme-ntp	Returns the active NTP server for the extreme VCS fabric or specified switch.
show-portindex-interface-info	extreme-fabric-service	Returns the details of 10-GbEthernet and FCoE ports.
show-raslog	extreme-ras-ext	Returns RASlog entries.
show-support-save-status	extreme-ras-ext	Returns information about the status of a recent supportSave request.
show-system-info	extreme-ras-ext	Returns the routing bridge ID and MAC address of the switch.
show-system-monitor	extreme-system-monitor-ext	Returns system status information.
show-vcs	extreme-vcs	Provides general VCS fabric information.
show-zoning-enabled-configuration	extreme-zone	Returns the currently enabled zoning configuration information.
user-session-info	extreme-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	extreme-event-handler	event-handler	Under Python event-management, aborts a specified event handler that is currently running.
action	extreme-event-handler	common-def:clear/event-handler	Specifies the Python script that will be triggered when an event occurs.
activate	extreme-fc-auth	secpolicy/action	Activates all the defined FC authorization policies.
activate	extreme-firmware	firmware	Activates the firmware download.
add	extreme-license	common-def:show/license	Displays the license keys.
all	extreme-fabric-service	common-def:show/fabric	Returns fabric information.
auditlog	extreme-ras-ext	common-def:clear/logging	Clears the audit log.
auditlog	extreme-ras-ext	common-def:show/logging	Shows audit log information.
authenticate	extreme-crypto-ext	crypto/ca	Sets the authentication file from the host authentication server.
authenticate	extreme-crypto-ext	common-def:no	Sets the authentication file from the host authentication server.
bare-metal	extreme-preprovision	common-def:show/bare-metal/bare-metal	Indicates the bare-metal state on the system.
brief	extreme-nameserver	common-def:show/:	Gets a list of devices, listed by FCID, that are stored in the Name Server database.
burninerrclear	extreme-diagnostics	diag	Clears the errors that are stored in the nonvolatile storage on the slot during the burn-in process.
burninerrshow	extreme-diagnostics	common-def:show	Checks the error log.
burninstatus	extreme-diagnostics	common-def:show	Displays the status of the last run system verification test.
certificates	extreme-crypto-ext	common-def:show /crypto/ca	Displays certificate details.
chassis	extreme-beacon	beacon/disable	Disables the chassis beacon.
chassis	extreme-beacon	beacon/enable	Enables the chassis beacon.
chassis	extreme-ras-ext	common-def:show/infra	Returns system information.
chassisreboot	extreme-ha	ha	Reboots the chassis.
clearerror	extreme-diagnostics	diag	Clears the diagnostics failure status.
clock	extreme-clock	clock-set-datetime	Sets the date and time.
clock	extreme-clock	clock-set-timezone	Sets the local time zone.
commit	extreme-firmware	firmware/download	Commits a firmware upgrade after evaluation.
connector-group	extreme-hardware	common-def:show	Sets a connector group that FlexPort is allowed to access on the switch.

TABLE 6 Actions (continued)

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

TABLE 6 Actions (continued)

Action name	Host module	Node	Purpose
fan	extreme-ras-ext	common-def:show/infra/environment	Shows fan information.
fastboot	extreme-firmware	reboot	Reboots the control processor (CP), bypassing the power-on self-test (POST).
firmware	extreme-firmware-ext	common-def:show/firmware	Shows firmware auto-sync status.
firmwaredownloadhistory	extreme-firmware-ext	common-def:show/firmware	Returns a history of firmware downloads.
firmwaredownloadstatus	extreme-firmware-ext	common-def:show/firmware	Returns the firmware download status.
firmware-features	extreme-firmware-ext	common-def:show/firmware	Shows firmware features.
ftp	extreme-firmware	firmware/download	Downloads firmware with FTP.
ftp	extreme-firmware	firmware/download/default-config	Downloads firmware with FTP.
ftp	extreme-firmware	firmware/download/logical-chassis	Downloads firmware with FTP for logical chassis.
ftp	extreme-firmware	firmware/download/logical-chassis/default-config	Downloads firmware with FTP for logical chassis.
ftp	extreme-firmware	firmware/install	Installs firmware with FTP.
ftp	extreme-ras	copy/support	Uploads support data to an FTP server.
gmsg	extreme-ras	auditlog	Generates an audit log message for an internal audit log test.
gmsg	extreme-ras	logtest/raslog	Generates a message for an internal RASLog test.
ha	extreme-ha	common-def:show/ha	Displays the HA state.
hardware-profile	extreme-hardware	common-def:show	Optimizes hardware resources.
history	extreme-ras-ext	common-def:show/infra	Shows history information.
hosts	extreme-vswitch	common-def:show/vnetwork	Displays discovered hosts.
id	extreme-license	common-def:show/license	Returns license IDs.
import	extreme-crypto-ext	crypto/ca	Imports the CA certificate for HTTPS security configuration.
import	extreme-crypto-ext	common-def:no	Imports the CA certificate for HTTPS security configuration.
info	extreme-ras-ext	common-def:show/infra/process	Shows system processes.
interactive	extreme-firmware	firmware/download	Downloads firmware interactively.
interface	extreme-beacon	beacon/disable	Disables the interface beacon.
interface	extreme-beacon	beacon/enable	Enables the interface beacon.
interface	extreme-threshold-monitor-ext	extreme-common-def:show/defaults/extreme-threshold-monitor-ext:threshold	Shows default threshold and alert values for interface.
inventory	extreme-ras-ext	infra-inventory	Displays the inventory details.
isl	extreme-fabric-service	common-def:show/fabric-service:fabric	Returns fabric ISL information.
islports	extreme-fabric-service	common-def:show/fabric-service:fabric	Returns fabric ISL port information.
l2traceroute	extreme-trilloam	trilloam	Traces a route between a source and destination MAC address.

TABLE 6 Actions (continued)

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

TABLE 6 Actions (continued)

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

TABLE 6 Actions (continued)

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

TABLE 6 Actions (continued)

Action name	Host module	Node	Purpose
tftp	extreme-firmware	firmware:firmware/download	Downloads firmware with TFTP.
tftp	extreme-firmware	firmware/download/default-config	Downloads firmware with TFTP.
tftp	extreme-firmware	firmware/download/logical-chassis	Downloads firmware with TFTP for logical chassis.
tftp	extreme-firmware	firmware/download/logical-chassis/ default-config	Downloads firmware with TFTP for logical chassis.
topology	extreme-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	extreme-fabric-service	common-def:show/fabric-service:fabric	Returns fabric ISL trunk information.
trustpoint	extreme-crypto-ext	common-def:show/crypto/ca	Defines the trust point for HTTPS security configuration.
turboramtest	extreme-diagnostics	diag	Performs a turbo static RAM (SRAM) test of the ASIC chips.
type	extreme-ras-ext	rasman	Displays the details of the RASLog messages based on the given RASLog message type.
unlock	extreme-aaa	user	Unlocks a user account.
usb	extreme-firmware	firmware/download	Downloads firmware from a USB device.
usb	extreme-firmware	firmware/download/default-config	Downloads firmware from a USB device.
usb	extreme-firmware	firmware/download/logical-chassis	Downloads firmware from a USB device for logical chassis.
usb	extreme-ras	copy	Uploads support data to a USB device.
users	extreme-aaa-ext	common-def:show/aaa-users	Accesses the user information.
version	extreme-firmware-ext	common-def:show/firmware	Returns the firmware version string.
vms	extreme-vswitch	common-def:show/vnetwork	Returns information about discovered VMs.
vss	extreme-vswitch	common-def:show/vnetwork	Returns information about standard virtual switches.
zonemember	extreme-nameserver	common-def:show/:	Displays all nodes zoned with a device matching a specified WWN or PID.