

# Extreme SLX-OS YANG Reference Manual, 18s.1.01

Supporting the Brocade SLX 9140 and SLX 9240 Switches

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# Preface

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This section discusses the conventions used in this guide, ways to provide feedback, additional help, and other Extreme Networks® publications.

## Conventions

This section discusses the conventions used in this guide.

## 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
<b>bold text</b>	Identifies command names. Identifies keywords and operands. Identifies the names of GUI elements.
<i>italic text</i>	Identifies text to enter in the GUI. Identifies emphasis. Identifies variables. Identifies document titles.

Format	Description
Courier font	Identifies CLI output.
	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
<b>bold text</b>	Identifies command names, keywords, and command options.
<i>italic text</i>	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, <i>member[member...]</i> .
\	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.

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- 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

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2. Complete the form with your information (all fields are required).
3. Select the products for which you would like to receive notifications.

### NOTE

You can modify your product selections or unsubscribe at any time.

4. Click **Submit**.

## Providing Feedback to Us

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- Content errors or confusing or conflicting information.
- Ideas for improvements to our documentation so you can find the information you need faster.

- Broken links or usability issues.

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Please 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.

# About This Document

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## Supported hardware and software

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

Although many different software and hardware configurations are tested and supported by 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 18s.1.01.

For the complete list of supported features and the summary of enhancements and configuration notes for this release, refer to the Extreme SLX-OS Release Notes.



# Using YANG

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## 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

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# 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:multipplier?      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)?

```

















```

+--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: 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: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-ipv6-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-
| | +--rw bgp:prefix-list-direction-in?              empty
| +--rw bgp:direction-out
| | +--rw bgp:prefix-list-direction-out-prefix-name? nei-prefix-
| | +--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-
| +--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:ldapcert
| | +--ro certutil:input
| | +--ro certutil:output
| +---x certutil:syslogcert
| | +--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:mmminfor
| | +---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-asp?  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)?
| | | | | | +--rw (ca-cluster-id)
| | | | | | | +--rw bgp:cluster-id-value?  decimal-number
| | | | | | | +--rw (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
| | | | | | | | | | | | | | | | | neighbor-description
| | | | | | | | +--rw bgp: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: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: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
filter | | +--rw bgp:prefix-list-direction-out-prefix-name? nei-prefix-list-
| | +--rw bgp:prefix-list-direction-out?          empty
+--rw bgp:neighbor-route-map
| +--rw bgp:neighbor-route-map-direction-in
string64 | | +--rw bgp:neighbor-route-map-name-direction-in? common-def:name-
| +--rw bgp:neighbor-route-map-direction-out
string64 | | +--rw bgp:neighbor-route-map-name-direction-out? common-def:name-
| +--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-peer-group
| | | +---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
filter |     +---rw bgp:prefix-list-direction-out-prefix-name? nei-prefix-list-
|     +---rw bgp:prefix-list-direction-out?           empty
+---rw bgp:neighbor-route-map
|   +---rw bgp:neighbor-route-map-direction-in
string64 |   | +---rw bgp:neighbor-route-map-name-direction-in? common-def:name-
|   +---rw bgp:neighbor-route-map-direction-out
string64 |   +---rw bgp:neighbor-route-map-name-direction-out? common-def:name-
+---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

```







```

|         +---:(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
string64
|   |   +---rw bgp:neighbor-route-map-name-direction-out?  common-def:name-
+---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: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:multipplier?      bfd-multipplier-type
+--rw bgp:update-source
|   +--rw (ch-update-source)?
|   |   +---:(ca-ipv6)

```



```

| | | | | +---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?

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|         | +--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

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| | | | | +--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

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| | +--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

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| | | | | +--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-iftyp
| | | | | | | | | +--rw dhcpv6:interface-name? dhcpv6-ifname
| | | | | +--rw icmp:icmipv6
| | | | | | +--rw icmp:rate-limiting? uint32
| | | | | | +--rw icmp:redirect? empty
| | | | | +--rw ipv6-access-list:access-group [ipv6-access-list ip-direction]

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| | | | +--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

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| | | | | +---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)?
| | | | | | | | +---rw ospfv3:ah? algorithm-type-ah
| | | | | | | | +---rw ospfv3:ah-key? ipsec-authentication-hexkey-string
| | | | | | | +---rw (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

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```

| | |   +--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  13-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 <ul style="list-style-type: none"> <li>added leaf precedence</li> </ul>

# 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-readiness-test-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 : <ul style="list-style-type: none"> <li>• Removed the container tpvm.</li> <li>• Removed the container cluster-output.</li> </ul>

# 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_filename?         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:qmr-t-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-iftyp
| | | | | +--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-cmnds
| | | +--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

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```

| | | +--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 13-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?
| | +--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_mrrouter
|           | | | | +--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:mrrouter
|                       | +--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 <ul style="list-style-type: none"> <li>TBD</li> </ul>

# 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 gbic
|     +--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
+---: (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
+--:( 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 13-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 13-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?  
---rw log?

empty  
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

```







# 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:multipplier?   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: <ul style="list-style-type: none"> <li>Under the container lldp-neighbor-detail, added leaves lldp-pdu-transmitted and lldp-pdu-received.</li> </ul>



# 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 vl-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. <ul style="list-style-type: none"> <li>Added container esi.</li> </ul>

# 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 ival?         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 ival?         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)?
        +--:(ip4-6)
          | +--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 announce-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 ffcd?        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
hop] +--rw rtm:static-route-nh-vrf [static-route-next-vrf-dest next-hop-vrf static-route-next-
/*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:multipplier?              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 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 enqueue-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 ehq-discard-cnt-aggr? uint64
  | +--ro non-empty-voq [slot-port]
  | | +--ro slot-port string
  | | +--ro voq-id? uint32
  | | +--ro voq-size? uint32
  | +--ro tmcputatsslot [slot-id cpugroup-id]
  | | +--ro slot-id uint16
  | | +--ro cpugroup-id uint16
  | | +--ro enqueuepkt? uint64
  | | +--ro enqueuebytes? uint64
  | | +--ro discardpkt? uint64
  | | +--ro discardbytes? uint64
  | | +--ro currdepth? uint64
  | | +--ro maxdepth? uint64
  | +--ro tmcputatsslotallgrp [slot-id]
  | | +--ro slot-id uint16
  | | +--ro enqueuepkt? uint64
  | | +--ro enqueuebytes? 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 enqueuepkt?  uint64
|   +--ro enqueuebytes? 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-overflow-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-overflow-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-overflow-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-overflow-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-distinguisher? 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-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-next-hop 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-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: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]
| | | | | | +--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 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-distinguisher, 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	brocade-firmware	Returns firmware activation status.
bnacfgcmd	brocade-ras	Copies configuration data to and from the system.
bnacfgcmdstatus	brocade-ras	Returns the status of the last configuration command.
dad-status	brocade-firmware	Displays the current status of firmware download.
firmware-download	brocade-firmware	Returns the firmware information.
fwdl-status	brocade-firmware	Returns the status of the firmware download operation.
get-arp	brocade-arp	Returns ARP entries of the managed entity.
get-contained-in-ID	brocade-entity	Returns the slot or container name or ID, where the managed device is "contained in".
get-flexports	brocade-hardware	Retrieves the list of flexports.
get-interface-detail	brocade-interface-ext	Returns operational details of all the possible interfaces of the managed entity. Use this RPC to discover basic characteristics of all the interfaces in the system. Each sublayer below the internetwork layer of a network interface is considered to be an interface.
get-interface-switchport	brocade-interface-ext	Returns switch-port or Layer 2 characteristics of all the interfaces in the managed device.
get-ip-interface	brocade-interface-ext	Returns brief details of all interfaces, loopback and VE interface details of particular managed entity. PHY interface details of particular managed entity cannot be given.
get-last-config-update-time	brocade-vcs	Returns the time stamp of the last configuration change done on the managed device.
get-last-config-update-time-for-xpaths	brocade-vcs	Returns the time stamp of the last configuration change done on the managed device for Xpaths.
get-lldp-neighbor-detail	brocade-lldp-ext	Returns the details of all the neighboring interfaces of the managed entity.
get-mac-acl-for-intf	brocade-mac-access-list	Returns information about the MAC ACL applied on the specified interfaces.
get-mac-address-table	brocade-mac-address-table	Returns the MAC address table for a given MAC address.
get-media-detail	brocade-interface-ext	Returns the media properties of all the interfaces of the managed entity.
get-nameserver-detail	brocade-nameserver	Displays detailed information of the devices stored in the Name Server database.
get-netconf-client-capabilities	brocade-netconf-ext	Returns the vendor information for all NETCONF clients.

**TABLE 5** Custom RPCs (continued)

RPC name	Host module	Synopsis
get-port-channel-detail	brocade-lag	Returns link aggregation control configuration parameters for all the port-channels in the system.
get-portchannel-info-by-intf	brocade-lag	Returns link aggregation control configuration parameters for a given aggregation port in the system.
get-port-profile-for-intf	brocade-port-profile-ext	Returns the port-profiles applied on ports and port-channels.
get-port-profile-status	brocade-port-profile-ext	Returns the status of a port-profile.
get-stp-brief-info	brocade-xstp-ext	Returns Spanning Tree Protocol (STP) information.
get-stp-mst-detail	brocade-xstp-ext	Returns Multiple Spanning Tree Protocol (MSTP) details.
get-system-uptime	brocade-system	Returns the time since the managed entity was last reinitialized.
get-vcs-details	brocade-vcs	Retains detailed VCS fabric information.
get-vlan-brief	brocade-interface-ext	Returns operational data for a given VLAN and enumeration of all the interfaces belonging to this VLAN.
get-vm-policy-macaddr	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input.  All is not supported input anymore.  Data center name added in output.
get-vnetwork-dvpgs	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input.  All is not supported input anymore.  Data center name added in output.
get-vnetwork-dvs	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input.  All is not supported input anymore.  Data center name added in output.
get-vnetwork-hosts	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input.  All is not supported input anymore.  Data center name added in output.
get-vnetwork-portgroups	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input.  All is not supported input anymore.  Data center name added in output.
get-vnetwork-vm	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input.  All is not supported input anymore.  Data center name added in output.
get-vnetwork-vswitches	brocade-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	brocade-vswitch	Returns the associations among Virtual Network Interface Cards (VNICs) or Virtual Machine Kernet Network Interface Cards (VMKNICs), port-groups, and port-profiles.
get-tunnel-info	brocade-tunnels-extrpcs	Retrieves summary of one or more tunnels from the switch.
get-tunnel-statistics	brocade-tunnels-extrpcs	Retrieves tunnel statistics such as count of bytes and frames transmitted and received.
l2traceroute	brocade-trilloam	Traces a TRILL route from a host source MAC address to a destination MAC address.
l2traceroute-result	brocade-trilloam	Returns the result of a TRILL traceroute.
logical-chassis-fwdl-sanity	brocade-firmware	Retrieves firmware download sanity check status.
logical-chassis-fwdl-status	brocade-firmware	Retrieves firmware activation status.
maps-get-all-policy	brocade-maps-ext	Retrieves the existing MAPS Policies.
maps-get-default-rules	brocade-maps-ext	Retrieves the existing MAPS Policies.
redundancy	brocade-ha	Enables high availability (HA).
reload	brocade-ha	Reloads HA.
set-http-application-url	brocade-http-redirect	Sets the HTTP application URL.
show-bare-metal-state	brocade-preprovision	Indicates the bare-metal state on the system.
show-clock	brocade-clock	Returns the date, time, and time zone.
show-fabric-trunk-info	brocade-fabric-service	Provides all ISL trunk information in a fabric.
show-fibrechannel-interface-info	brocade-fabric-service	Provides detailed information of Fibre Channel ports in the routing bridge.
show-firmware-version	brocade-firmware-ext	Returns firmware version information.
show-linkinfo	brocade-fabric-service	Returns details of all the links connected in the fabric.
show-ntp	brocade-ntp	Returns the active NTP server for the Brocade VCS fabric or specified switch.
show-portindex-interface-info	brocade-fabric-service	Returns the details of 10-GbEthernet and FCoE ports.
show-raslog	brocade-ras-ext	Returns RASlog entries.
show-support-save-status	brocade-ras-ext	Returns information about the status of a recent supportSave request.
show-system-info	brocade-ras-ext	Returns the routing bridge ID and MAC address of the switch.
show-system-monitor	brocade-system-monitor-ext	Returns system status information.
show-vcs	brocade-vcs	Provides general VCS fabric information.
show-zoning-enabled-configuration	brocade-zone	Returns the currently enabled zoning configuration information.
user-session-info	brocade-aaa-ext	Returns user role information.



# Actions

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

**TABLE 6** Actions

Action name	Host module	Node	Purpose
abort	brocade-event-handler	event-handler	Under Python event-management, aborts a specified event handler that is currently running.
action	brocade-event-handler	common-def:clear/event-handler	Specifies the Python script that will be triggered when an event occurs.
activate	brocade-fc-auth	secpolicy/action	Activates all the defined FC authorization policies.
activate	brocade-firmware	firmware	Activates the firmware download.
add	brocade-license	common-def:show/license	Displays the license keys.
all	brocade-fabric-service	common-def:show/fabric	Returns fabric information.
auditlog	brocade-ras-ext	common-def:clear/logging	Clears the audit log.
auditlog	brocade-ras-ext	common-def:show/logging	Shows audit log information.
authenticate	brocade-crypto-ext	crypto/ca	Sets the authentication file from the host authentication server.
authenticate	brocade-crypto-ext	common-def:no	Sets the authentication file from the host authentication server.
bare-metal	brocade-preprovision	common-def:show/bare-metal/ bare-metal	Indicates the bare-metal state on the system.
brief	brocade-nameserver	common-def:show/:	Gets a list of devices, listed by FCID, that are stored in the Name Server database.
burninerrclear	brocade-diagnostics	diag	Clears the errors that are stored in the nonvolatile storage on the slot during the burn-in process.
burninerrshow	brocade-diagnostics	common-def:show	Checks the error log.
burninstatus	brocade-diagnostics	common-def:show	Displays the status of the last run system verification test.
certificates	brocade-crypto-ext	common-def:show /crypto/ca	Displays certificate details.
chassis	brocade-beacon	beacon/disable	Disables the chassis beacon.
chassis	brocade-beacon	beacon/enable	Enables the chassis beacon.
chassis	brocade-ras-ext	common-def:show/infra	Returns system information.
chassisreboot	brocade-ha	ha	Reboots the chassis.
clearerror	brocade-diagnostics	diag	Clears the diagnostics failure status.
clock	brocade-clock	clock-set-datetime	Sets the date and time.
clock	brocade-clock	clock-set-timezone	Sets the local time zone.
commit	brocade-firmware	firmware/download	Commits a firmware upgrade after evaluation.
connector-group	brocade-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	brocade-ras	ras/logging/raslog	Sets the severity levels for the RASLog console and allows users to temporarily stop showing RASLog messages on the console.
cpu	brocade-ras-ext	common-def:show/infra/process	Lists processes by CPU usage.
cpu	brocade-ras	resource monitor	Lists processes by CPU usage.
dadstatus	brocade-firmware	common-def:show/dhcp-auto-deployment	Displays the current status of firmware download.
description	brocade-ras-ext	rasman	Displays the details of the defined log modules.
detail	brocade-nameserver	common-def:show/:	Returns details about the configured name server.
dhchap	brocade-fc-auth	auth-secret	Configures authorization secret for DH-CHAP.
dhchap	brocade-fc-auth	common-def:no/fcsp/auth-secret	Deletes the authorization secret for DH-CHAP.
dhchap	brocade-fc-auth	common-def:show/fcsp/authsecret	Returns the device WWN for which a shared secret is configured.
dir	brocade-ras	system/usb	Displays the directory of a USB device.
directory	brocade-firmware	firmware:firmware/download/tftp/input	Specifies the directory from where the firmware is downloaded.
disable	brocade-chassis	chassis	Disables the chassis.
disable	brocade-chassis	chassis/beacon	Disables the chassis beacon.
disable	brocade-firmware	firmware/auto-sync	Disables the firmware download.
disable	brocade-ha	ha	Disables high availability.
dpod	brocade-license	common-def:show/enh-show-license-keys	Displays dynamic POD license information.
dump	brocade-ha	ha	Displays high availability status information.
dvpgs	brocade-vswitch	common-def:show/vnetwork	Shows discovered distributed virtual port-groups.
dvs	brocade-vswitch	common-def:show/vnetwork	Shows discovered distributed virtual switches.
enable	brocade-chassis	chassis	Enables the chassis.
enable	brocade-chassis	chassis/beacon	Enables the chassis beacon.
enable	brocade-firmware	firmware/auto-sync	Enables the firmware download.
enable	brocade-firmware	dhcp/auto-deployment	Enables auto-deployment of the firmware.
enable	brocade-ha	ha	Enables high availability.
enroll	brocade-crypto-ext	crypto/ca	Enrolls the trust point and generates the security certificate for HTTPS security.
erase	brocade-firmware	firmware/write	Returns switch to factory default state.
failover	brocade-ha	ha	Causes HA failover.

**TABLE 6** Actions (continued)

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

**TABLE 6** Actions (continued)

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



**TABLE 6** Actions (continued)

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

**TABLE 6** Actions (continued)

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

**TABLE 6** Actions (continued)

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