

# Extreme SLX-OS YANG Reference Guide, 17r.2.01

Supporting the Extreme SLX 9850 and 9540 Devices

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# Preface

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## Document conventions

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

## Notes, cautions, and warnings

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

### NOTE

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

### ATTENTION

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



### CAUTION

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



### DANGER

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

## Text formatting conventions

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

Format	Description
<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.
Courier font	Identifies document titles. Identifies CLI output.

Format	Description
	Identifies command syntax examples.

## Command syntax conventions

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

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

## Extreme resources

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

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

## Document feedback

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

You can provide feedback in two ways:

- Use our short online feedback form at <http://www.extremenetworks.com/documentation-feedback-pdf/>
- Email us at [internalinfodev@extremenetworks.com](mailto:internalinfodev@extremenetworks.com)

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



# Contacting Extreme Technical Support

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

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

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

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

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



# About This Document

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This document is released in conjunction with SLX-OS 17r.2.01.

## Interface module capabilities

The following table lists the supported capabilities for the following Brocade SLX 9850 interface modules:

- BR-SLX9850-10Gx72S-M
- BR-SLX9850-100Gx36CQ-M
- BR-SLX9850-10Gx72S-D
- BR-SLX9850-100Gx36CQ-D

**TABLE 1** Brocade SLX 9850 interface modules capabilities

Capability	Modular interface module
MPLS	Yes
Packet Buffers per interface module	12 GB (72x10G) 36 GB (Flex)

## 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 for SLX-OS Release 17r.2.01, documenting all possible configurations and scenarios is beyond the scope of this document.

The following hardware platforms are supported by this release:

- Extreme SLX 9850-4 router
- Extreme SLX 9850-8 router
- Extreme SLX 9540 switch

To obtain information about other releases, refer to the documentation specific to that release.

## Interface module capabilities

The following table lists the supported capabilities for the following SLX 9850 interface modules:

- BR-SLX9850-10Gx72S-M
- BR-SLX9850-100Gx36CQ-M
- BR-SLX9850-10Gx72S-D
- BR-SLX9850-100Gx36CQ-D

- BR-SLX9850-100Gx12CQ-M

**TABLE 2** SLX 9850 interface modules capabilities

Capability	Modular interface module
MPLS	Yes
Packet Buffer memory per interface module	12GB (BR-SLX9850-10Gx72S-M) 36GB (BR-SLX9850-100Gx36CQ-M) 8GB (BR-SLX9850-10Gx72S-D) 24GB (BR-SLX9850-100Gx36CQ-D)

## What's new in this document

This document is released in conjunction with SLX-OS 17r.2.01.

On October 30, 2017, Extreme Networks, Inc. acquired the SLX-OS product line from Brocade Communications Systems, Inc. This transitional release includes references to both companies.

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

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

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

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

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

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

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

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

**TABLE 3** Field descriptions

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

**TABLE 3** Field descriptions (continued)

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

# YANG Modules

---

# brocade-aaa

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

## 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 authorization
  |   |   |   +--rw command
  |   |   |   |   +--rw firstauthor?  enumeration
  |   |   |   |   +--rw secondauthor? enumeration
  +--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
  |   |   +---w input
  |   |   |   +---w 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 source-interface
  |   |   |   +--rw source-interface-name? track-iftype
  |   |   |   +--rw source-interface-value? union
  +--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
16r.1.01	This YANG module was introduced.
17r.1.01	Removed <i>interface-k</i> and <i>interface-l</i> .
17r.2.00	

# brocade-aaa-ext

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

## RPCs

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

## History

Release version	History
17r.1.01	This YANG module was introduced.

# brocade-acl-policy

Manages the access control list (ACL) policy configuration.

## Top-level container

```

module: brocade-acl-policy
  +--rw acl-policy
    +--rw global-acl-policy-conf-cmds
      +--rw allow-conflicting-rules?  empty
      +--rw allow-duplicate-rules?    empty
      +--rw enable-acl-cam-sharing?    empty
      +--rw enable-acl-log-raslog
        +--rw acl-log-raslog?  empty
        +--rw log-interval?    common-def:time-interval-sec

```

## History

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

# brocade-arp

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

## Top-level container

```

module: brocade-arp
  +---rw arp-entry* [arp-ip-address]
    +---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:vlan-type

```

## RPCs

Return ARP entries of the managed entity:

```

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

```

## History

	History
16r.1.00	This Yang module was introduced.
17r.2.00	

# brocade-beacon

Provides a data model enabling and disabling the interface beacon and chassis beacon.

## Top-level container

```

module: brocade-beacon
  +--rw beacon
    +--rw enable
      | +--rw interface
      | | +---x ethernet
      | | | +---w input
      | | |   +---w eth_option
      | | |     +---w ethernet    string
      | | |       +---w start?    ietfyang:date-and-time
      | | |         +---w length?  uint32
      | | +---x port-channel
      | | | +---w input
      | | |   +---w lag_option
      | | |     +---w port-channel  uint32
      | | |       +---w start?    ietfyang:date-and-time
      | | |         +---w length?  uint32
      | +---x chassis
      | | +---w input
      | | | +---w start?    ietfyang:date-and-time
      | | |   +---w length?  uint32
    +--rw disable
      +--rw interface
      | +---x ethernet
      | | +---w input
      | | | +---w ethernet    string
      | +---x port-channel
      | | +---w input
      | | | +---w port-channel  uint32
      +---x chassis
  
```

## History

Release version	History
17r.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 description?         string
    +--rw peer* [peer-ip]
      | +--rw peer-ip          inet:ipv4-address
      | +--rw load-balance?    empty
      | +--rw cos?             uint32
      | +--rw lsp*             string
      | +--rw flow-label?      empty
      | +--rw control-word?    empty
    +--rw statistics?          empty
    +--rw router-interface* [router-ve]
      | +--rw router-ve        interface:ve-type
      | +--rw disallow-oar-ac? empty
    +--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 ip
      | +--rw igmp-snooping:bd-pim
      | | +--rw igmp-snooping:snooping
      | | | +--rw igmp-snooping:bd-pimv4-enable? empty
      | +--rw igmp-snooping:bd-ip-igmp
      | | +--rw igmp-snooping:snooping
      | | | +--rw igmp-snooping:igmps-version?      igmps-version-type
      | | | +--rw igmp-snooping:igmps-last-member-query-interval?  lmq-type
      | | | +--rw igmp-snooping:igmps-query-interval?      qi-type
      | | | +--rw igmp-snooping:igmps-query-max-response-time?  qmrt-type
      | | | +--rw igmp-snooping:igmps-enable?              empty
      | | | +--rw igmp-snooping:igmps-fast-leave?          empty
      | | | +--rw igmp-snooping:igmps-querier
      | | | | +--rw igmp-snooping:igmps-qenable?          empty
      | | | +--rw igmp-snooping:igmps_mrouter
      | | | | +--rw igmp-snooping:igmps-interface* [igmps-if-type igmps-value]
      | | | | | +--rw igmp-snooping:igmps-if-type      enumeration
      | | | | | +--rw igmp-snooping:igmps-value        string-type
      | | | +--rw igmp-snooping:igmps_static-group* [igmps-mcast-address igmps-interface igmps-if-
type igmps-value]
      | | | | +--rw igmp-snooping:igmps-mcast-address    inet:ipv4-address
      | | | | +--rw igmp-snooping:igmps-interface        enumeration
      | | | | +--rw igmp-snooping:igmps-if-type          enumeration
      | | | | +--rw igmp-snooping:igmps-value            string-type
    +--rw mac-address
      | +--rw withdrawal?    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
16r.1.00	This YANG module was introduced.



# 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
        | +---w input
        |   +---w protocol      enumeration
        |   +---w user          string
        |   +---w password?     string
        |   +---w host          string
        |   +---w directory     string
        |   +---w file          string
      +---x syslogca
        | +---w input
        |   +---w protocol      enumeration
        |   +---w user          string
        |   +---w password?     string
        |   +---w host          string
        |   +---w directory     string
        |   +---w file          string
      +---x sshkey
        +---w input
          +---w user            string
          +---w host            string
          +---w directory       string
          +---w file            string
          +---w login           string
          +---w password?       string
  
```

## External augmentations

```

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

## History

	History
16r.1.00	This YANG module was introduced.

# brocade-chassis

Provides a data model for enabling and disabling the chassis.

## Top-level container

```

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

```

## Actions

Enable the chassis:

```

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

```

Disable the chassis:

```

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

```

Enable the chassis beacon:

```

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

```

Disable the chassis beacon:

```

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

```

Set the airflow direction to port-side-intake:

```

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

```

Set the airflow direction to port-side-exhaust:

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

## History

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

# brocade-clock

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

## Top-level container

```

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

```

## External augmentations

```

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

```

## RPCs

```

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

```

## History

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

# brocade-common-def

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

## Top-level container

```

module: brocade-common-def
  +--rw show
  | +--rw defaults
  | | +--rw threshold-monitor-extensions:threshold
  | | | +---x threshold-monitor-extensions:sfp
  | | | | +---w threshold-monitor-extensions:input
  | | | | +---w threshold-monitor-extensions:type      sfp-type
  | +--rw aaa-extensions:aaa-users
  | | +---x aaa-extensions:users
  | +--rw certutil:cert-util
  | | +---x certutil:ldapcert
  | | +---x certutil:syslogcert
  | | +---x certutil:sshkey
  | | | +---w certutil:input
  | | | +---w certutil:user      string
  | +--rw brcd-crypto-ext:crypto
  | | +--rw brcd-crypto-ext:key
  | | | +---x brcd-crypto-ext:mypubkey
  | | +--rw brcd-crypto-ext:ca
  | | | +---x brcd-crypto-ext:trustpoint
  | | | +---x brcd-crypto-ext:certificates
  | +--rw diagnostics:diag
  | | +--rw diagnostics:post
  | | | +---x diagnostics:results
  | | | | +---w diagnostics:input
  | | | | | +---w (localremote)?
  | | | | | | +---:(local)
  | | | | | | | +---w diagnostics:slot      slotidtype {platform_chassis}?
  | | | | | | +---w (postresult)?
  | | | | | | | +---:(brief)
  | | | | | | | | +---w diagnostics:brief?      empty
  | | | | | | | | +---:(detailed)
  | | | | | | | | +---w diagnostics:detailed?    empty
  | | | | +--ro diagnostics:output
  | | | | | +--ro diagnostics:result?      string
  | | +---x diagnostics:status
  | | | +---w diagnostics:input
  | | | | +---w (localremote)?
  | | | | | +---:(local)
  | | | | | | +---w diagnostics:slot      slotidtype {platform_chassis}?
  | | | | +--ro diagnostics:output
  | | | | | +--ro diagnostics:result?      string
  | | +---x diagnostics:burninstatus
  | | | +--ro diagnostics:output
  | | | | +--ro diagnostics:result?      string
  | | +---x diagnostics:burninerrshow
  | | | +--ro diagnostics:output
  | | | | +--ro diagnostics:result?      string
  | +--rw distributedlog:log
  | | +---x distributedlog:audit
  | | | +---w distributedlog:input
  | | | | +---w (audit-log-input)
  | | | | | +---:(non-support-save-logs)
  | | | | | | +---w distributedlog:non-support-save?      empty
  | | | | | | +---:(all-logs)
  | | | | | | | +---w distributedlog:all?      empty
  | | | | | | | +---:(filtered-logs)
  | | | | | | | +---w distributedlog:user?      string
  | | | | | | | +---w distributedlog:type?      enumeration
  | | | | +---w distributedlog:limit?      uint32
  | +--rw event-handler:event-handler
  | | +---x event-handler:activations

```

```

| +--rw firmware-extensions:firmware
| | +---x firmware-extensions:firmwaredownloadstatus
| | | +---w firmware-extensions:input
| | | | +---w firmware-extensions:brief?    empty
| | | | +---w firmware-extensions:summary?  empty
| | | +---ro firmware-extensions:output
| | |   +---ro firmware-extensions:result?  string
| | +---x firmware-extensions:firmwaredownloadhistory
| | | +---ro firmware-extensions:output
| | |   +---ro firmware-extensions:result?  string
| | +---x firmware-extensions:firmware
| | | +---w firmware-extensions:input
| | | | +---w firmware-extensions:auto-sync?  enumeration
| | | +---ro firmware-extensions:output
| | |   +---ro firmware-extensions:result?  string
| | +---x firmware-extensions:version
| | | +---w firmware-extensions:input
| | | | +---w firmware-extensions:brief?    empty
| | | | +---w firmware-extensions:all-partitions?  empty
| | | +---ro firmware-extensions:output
| | |   +---ro firmware-extensions:result?  string
| | +---x firmware-extensions:firmware-features
| | | +---ro firmware-extensions:output
| | |   +---ro firmware-extensions:result?  string
+--rw firmware:show-firmware-dummy
+--rw firmware:show-firmware-option
| +--rw firmware:peripheral-show-option
| | +---x firmware:peripheral-show-cpld
| | +---x firmware:peripheral-show-fpga
| | +--rw firmware:peripheral-show-bmc-option
| | | +---x firmware:peripheral-show-bmc-all
| | | +---x firmware:peripheral-show-bmc-boot
| | | +---x firmware:peripheral-show-bmc-application
+--rw ha:ha
| | +---x ha:ha
| | | +---w ha:input
| | |   +---w ha:all-partitions?  empty
+--rw ha:redundancy
| +---x ha:redundancy
+--rw hardware:hardware
| +---x hardware:port-group
| +---x hardware:profile
| | +---w hardware:input
| | | +---w (profile-type)?
| | | | +---: (tcam)
| | | | | +---w hardware:tcam?          tcam-profile-subtype
| | | | | +---: (cam-share)
| | | | | | +---w hardware:cam-share-show?  empty
| | | | | +---: (lag)
| | | | | | +---w hardware:lag?          lag-profile-subtype
| | | | | +---: (counters)
| | | | | | +---w hardware:counters?      counters-profile-subtype
| | | | | +---: (current)
| | | | | | +---w hardware:current-container
| | | | | | | +---w hardware:current?    empty
| | | | | | | +---w hardware:usage?    empty
| | | | | | | +---w hardware:slot?    uint32
| | | | | | | +---w hardware:chip?    uint32
+--rw http-config:http
| +--rw http-config:server
| | +---x http-config:status
+--rw brocade-license:license
| | +---x brocade-license:id
| | | +---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
| | | +---w brocade-license:input
| | | | +---w (single-or-all)?
| | | | | +---: (eula)
| | | | | | +---w 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: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
| +---rw linecard-management:sfminfo
| | +---x linecard-management:switch_fabric_module
| +---rw linecard-management:mmminfor
| | +---x linecard-management:mm
| +---rw linecard-management:slotsinfor
| | +---x linecard-management:slots
| +---rw linecard-management:latch-detection-info
| | +---x linecard-management:show-latch-detection
| |   +---w linecard-management:input
| |     +---w linecard-management:linecard?  fusion_slotnum
| +---rw name-server:name-server
| | +---x name-server:brief
| | +---x name-server:detail
| | | +---ro name-server:output
| | |   +---ro name-server:show-nameserver* [nameserver-portid]
| | |     +---ro name-server:nameserver-portid          nameserver-portid-type
| | |     +---ro name-server:nameserver-portname?      common-def:wnn-type
| | |     +---ro name-server:nameserver-nodename?     common-def:wnn-type
| | |     +---ro name-server:nameserver-scr?          uint32
| | |     +---ro name-server:nameserver-fc4s?        nameserver-fc4s-type
| | |     +---ro name-server:nameserver-portsymb?    nameserver-symbolic-name-type
| | |     +---ro name-server:nameserver-nodesymb?    nameserver-symbolic-name-type
| | |     +---ro name-server:nameserver-fabric-portname?  common-def:wnn-type
| | |     +---ro name-server:nameserver-permanent-portname?  common-def:wnn-type
| | |     +---ro name-server:nameserver-devicetype?   nameserver-devicetype-type
| | |     +---ro name-server:nameserver-index?       uint32
| | |     +---ro name-server:nameserver-porttype?    nameserver-porttype-type
| | |     +---ro name-server:nameserver-cos?         nameserver-cos-type
| | |     +---ro name-server:nameserver-sharearea?   nameserver-sharearea-type
| | |     +---ro name-server:nameserver-redirect?   nameserver-redirect-type
| | |     +---ro name-server:nameserver-xlatedomain? nameserver-xlatedomain-type
| | |     +---ro name-server:nameserver-connected-via-ag?  nameserver-connected-via-ag-type
| | |     +---ro name-server:nameserver-ag-base-device?  nameserver-ag-base-device-type
| | |     +---ro name-server:nameserver-real?        nameserver-real-type
| | |     +---ro name-server:nameserver-cascaded?    nameserver-cascaded-type
| | +---x name-server:nodefind
| | | +---w name-server:input
| | |   +---w (pid-or-wnn)?
| | |     +---: (wnn)
| | |       | +---w name-server:wnn  common-def:wnn-type
| | |       +---: (pid)
| | |         +---w name-server:pid  nameserver-fcid-hexstring-type
| | +---x name-server:zonemember
| | | +---w name-server:input
| | |   +---w (pid-or-wnn)?
| | |     +---: (wnn)
| | |       | +---w name-server:wnn  common-def:wnn-type
| | |       +---: (pid)
| | |         +---w name-server:pid  nameserver-fcid-hexstring-type
| +---rw ras-extensions:support

```

```

| | +---x ras-extensions:support
+--rw ras-extensions:copy-support
| | +---x ras-extensions:status
| | +---x ras-extensions:group-list
+--rw ras-extensions:infra-inventory
| | +---x ras-extensions:inventory
| | +---w ras-extensions:input
| | | +---w (opt)?
| | | | +---:(chassis)
| | | | | +---w ras-extensions:chassis?      empty
| | | | | +---:(fan)
| | | | | | +---w ras-extensions:fan?      empty
| | | | | +---:(module)
| | | | | | +---w ras-extensions:module?   empty
| | | | | +---:(powerSupply)
| | | | | | +---w ras-extensions:powerSupply? empty
+--rw ras-extensions:infra
| | +---x ras-extensions:chassis
| | | +---ro ras-extensions:output
| | | | +---ro ras-extensions:chassis-info*
| | | | | +---ro ras-extensions:switch-type      uint32
| | | | | +---ro ras-extensions:vendor          string
| | | | | +---ro ras-extensions:vendor-version   string
| | | | | +---ro ras-extensions:supplier-serial-number? string
| | | | | +---ro ras-extensions:chassis-service-tag? string
| | | | | +---ro ras-extensions:bay-id?         string
| | | | | +---ro ras-extensions:vendor-part-number? string
| | | | | +---ro ras-extensions:brocade-part-number? string
| | | | | +---ro ras-extensions:max-port?       int32
| | | | | +---ro ras-extensions:is-ha-enabled?   boolean
| | | | | +---ro ras-extensions:is-ha-redundant? boolean
| | | | | +---ro ras-extensions:is-ha-heartbeat-up? boolean
| | | | | +---ro ras-extensions:is-ha-synchronized? boolean
| | | | | +---ro ras-extensions:ha-recovery?     ha-recovery-type
| | | | | +---ro ras-extensions:fru*
| | | | | | +---ro ras-extensions:tag            uint32
| | | | | | +---ro ras-extensions:part-number    string
| | | | | | +---ro ras-extensions:serial-number  string
| | | | | | +---ro ras-extensions:field-replacable boolean
| | | | | | +---ro ras-extensions:slot-number    uint32
| | | | | | +---ro ras-extensions:logical-slot-number? uint32
| | | | | | +---ro ras-extensions:blade-type-id?  uint32
| | | | | | +---ro ras-extensions:slot-eth-port-cnt? uint32
| | | | | | +---ro ras-extensions:manufacturer-date  xs:date
| | | | | | +---ro ras-extensions:update-date      xs:date
| | | | | | +---ro ras-extensions:version         string
| | | | | | +---ro ras-extensions:vendor-equipment-type fru-type
| | | | | | +---ro ras-extensions:operational-status fru-operational-status
| | | | | | +---ro ras-extensions:manufacturer    string
| | | | | | +---ro ras-extensions:vendor?        string
| | | | | | +---ro ras-extensions:vendor-part-number? string
| | | | | | +---ro ras-extensions:vendor-serial-number? string
| | | +---rw ras-extensions:process
| | | | +---x ras-extensions:info
+--rw ras-extensions:environment
| | | +---x ras-extensions:fan
| | | +---x ras-extensions:power
| | | +---x ras-extensions:temp
| | | | +---w ras-extensions:input
| | | | | +---w ras-extensions:detail?  empty
+---x ras-extensions:sensor
| | | | +---ro ras-extensions:output
| | | | | +---ro ras-extensions:sensor-info*
| | | | | | +---ro ras-extensions:sensor*
| | | | | | | +---ro ras-extensions:id            uint32
| | | | | | | +---ro ras-extensions:type          sensor-type
| | | | | | | +---ro ras-extensions:sub-type      uint32
| | | | | | | +---ro ras-extensions:status        sensor-status
| | | | | | | +---ro ras-extensions:current-reading int32
| | | | +---x ras-extensions:history
+--rw ras-extensions:logging
| | | +---x ras-extensions:raslog

```



```

| | | +---w ras-extensions:input
| | |   +---w ras-extensions:reverse?      empty
| | |   +---w ras-extensions:message-type? enumeration
| | |   +---w ras-extensions:attribute?    enumeration
| | |   +---w ras-extensions:blade?       string
| | |   +---w ras-extensions:count?       uint16
| | |   +---w ras-extensions:severity?    enumeration
| | +---x ras-extensions:auditlog
| |   +---w ras-extensions:input
| |     +---w ras-extensions:reverse?    empty
| |     +---w ras-extensions:count?      uint16
+---rw brcd-sec-services:telnet
| +---rw brcd-sec-services:server
| | +---x brcd-sec-services:status
+---rw brcd-sec-services:ssh
| +---rw brcd-sec-services:server
| | +---x brcd-sec-services:status
+---rw brcd-sec-services:client
| | +---x brcd-sec-services:status
+---rw sysmgr:bpswitch
| +---rw sysmgr:show-stats
| | +---x sysmgr:stats
| | | +---w sysmgr:input
| | |   +---w (show-bpswitch-type)?
| | |   +---:(stats1)
| | |   | +---w sysmgr:port?      uint32
| | |   +---:(stats2)
| | |   +---w sysmgr:global?     empty
+---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 tpvm:tpvm
| +---x tpvm:status
| | +---w tpvm:input
| | | +---w tpvm:debug?      boolean
| | | +---w tpvm:clear-tag?  string
| | | +---w tpvm:blade?     bladeType
| | +---ro tpvm:output
| | | +---ro tpvm:tpvm-status-msg?  string
+---x tpvm:service-port
| +---w tpvm:input
| | +---w tpvm:blade?  bladeType
| | +---w tpvm:debug?  boolean
| +---ro tpvm:output
| | +---ro tpvm:tpvm-service-port-msg?  string
+---x tpvm:ip-address
| +---w tpvm:input
| | +---w tpvm:blade?  bladeType
| | +---w tpvm:debug?  boolean
| +---ro tpvm:output
| | +---ro tpvm:tpvm-ipaddr-msg?  string
+---x tpvm:disk
| +---w tpvm:input
| | +---w tpvm:name      union
| | +---w tpvm:blade?   bladeType
| | +---w tpvm:debug?   boolean
| +---ro tpvm:output
| | +---ro tpvm:tpvm-show-disk-msg?  string
+---rw clear
| +---rw brcd-aaa:login
| | +---x brcd-aaa:sessions
+---rw ras-extensions:support

```

```

| | +---x ras-extensions:support
| +--rw ras-extensions:logging
| | +---x ras-extensions:raslog
| | | +---w ras-extensions:input
| | |   +---w ras-extensions:message-type?  enumeration
| | +---x ras-extensions:auditlog
| +--rw sysmgr:bpswitch
|   +---x sysmgr:clear-stats
+--rw no
| +--rw certutil:certutil
| | +---x certutil:ldapca
| | +---x certutil:syslogca
| | +---x certutil:sshkey
| |   +---w certutil:input
| |   +---w certutil:user      string
+--rw clock-server:clock
| +---x clock-server:timezone
+--rw brcd-crypto-ext:nocrypto
| +--rw brcd-crypto-ext:ca
| | +---x brcd-crypto-ext:authenticate
| | | +---w brcd-crypto-ext:input
| | |   +---w brcd-crypto-ext:authenticate_params
| | |   +---w brcd-crypto-ext:trustpoint      string
| | +---x brcd-crypto-ext:import
| |   +---w brcd-crypto-ext:input
| |   +---w brcd-crypto-ext:authenticate_params
| |   +---w brcd-crypto-ext:trustpoint      string
| |   +---w brcd-crypto-ext:certificate      empty
+--rw tpvm:tpvm
| +--rw tpvm:service-port
| | +---x tpvm:enable
| |   +---w tpvm:input
| |   | +---w tpvm:blade?  bladeType
| +--ro tpvm:output
|   +--ro tpvm:sp-disable-msg?  string
+--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:seq* [seq-id]
| | | | | +--rw ip-policy:seq-id uint32
| | | | | +--rw ip-policy:ext-community-action? action-t
| | | | | +--rw ip-policy:ext-community-expr? extcommunity-list-expr-t
| | | +--rw ip-policy:extended* [extended-extcommunity-list-name]
| | | | +--rw ip-policy:extended-extcommunity-list-name ip-extcommunity-list-name-t
| | | | +--rw ip-policy:seq* [extended-seq-id]
| | | | | +--rw ip-policy:extended-seq-id uint32
| | | | | +--rw ip-policy:exp-ext-community-action? action-t
| | | | | +--rw ip-policy:ext-community-regex? extcommunity-list-reg-expr-t
| +--rw rtm:rtm-config
| | +--rw rtm:router-id? inet:ipv4-address
| | +--rw rtm:load-sharing? uint32
| | +--rw rtm:route
| | | +--rw rtm:static-route-nh* [static-route-dest static-route-next-hop]
| | | | +--rw rtm:static-route-dest inet:ipv4-prefix
| | | | +--rw rtm:static-route-next-hop inet:ipv4-address
| | | | +--rw rtm:route-attributes
| | | | | +--rw rtm:metric? uint32
| | | | | +--rw rtm:distance? uint32
| | | | | +--rw rtm:tag? uint32
| | | | +--rw rtm:static-route-nh-vrf* [static-route-next-vrf-dest next-hop-vrf static-route-next-
hop]
| | | | | +--rw rtm:static-route-next-vrf-dest inet:ipv4-prefix
| | | | | +--rw rtm:next-hop-vrf common-def:vrf-name
| | | | | +--rw rtm:static-route-next-hop inet:ipv4-address
| | | | +--rw rtm:static-route-oif-vrf* [static-route-next-vrf-dest next-hop-vrf static-route-oif-
type static-route-oif-name]
| | | | | +--rw rtm:static-route-next-vrf-dest inet:ipv4-prefix
| | | | | +--rw rtm:next-hop-vrf common-def:vrf-name
| | | | | +--rw rtm:static-route-oif-type enumeration
| | | | | +--rw rtm:static-route-oif-name string
| | | | | +--rw rtm:static-route-oif* [static-route-dest static-route-oif-type static-route-oif-name]
| | | | | +--rw rtm:static-route-dest inet:ipv4-prefix
| | | | | +--rw rtm:static-route-oif-type enumeration
| | | | | +--rw rtm:static-route-oif-name string
| | | | | +--rw rtm:route-attributes
| | | | | | +--rw rtm:metric? uint32
| | | | | | +--rw rtm:distance? uint32
| | | | | | +--rw rtm:tag? uint32
| | | +--rw rtm:import
| | | | +--rw rtm:routes* [src-vrf route-map]
| | | | | +--rw rtm:src-vrf common-def:vrf-name
| | | | | +--rw rtm:route-map common-def:name-string63
| +--rw ipv6
| | +--rw router
| | | +--rw ip-policy:prefix-list* [name seq-keyword instance]
| | | | +--rw ip-policy:name ipv6-prefix-name-t
| | | | +--rw ip-policy:seq-keyword enumeration
| | | | +--rw ip-policy:instance instance-id-t
| | | | +--rw ip-policy:action-ipp? action-t
| | | | +--rw ip-policy:ipv6-prefix-ipp? inet:ipv6-prefix
| | | | +--rw ip-policy:ge-ipp? ipv6-prefix-len-t
| | | | +--rw ip-policy:le-ipp? ipv6-prefix-len-t
| | | +--rw ipv6-nd-ra:ipv6-global-cmds
| | | | +--rw ipv6-nd-ra:nd-global
| | | | | +--rw ipv6-nd-ra:global-suppress-ra? empty
| | | | | +--rw ipv6-nd-ra:dns-server-global* [dns-server-prefix-global]
| | | | | | +--rw ipv6-nd-ra:dns-server-prefix-global inet:ipv6-address
| | | | | | +--rw ipv6-nd-ra:dns-server-lifetime-global? uint32
| | | | | +--rw ipv6-nd-ra:domain-name-global* [domain-name-string-global]
| | | | | | +--rw ipv6-nd-ra:domain-name-string-global string
| | | | | | +--rw ipv6-nd-ra:domain-name-lifetime-global? uint32
| | | +--rw ipv6-route:route
| | | | +--rw ipv6-route:static-route-nh* [static-route-dest static-route-next-hop]
| | | | | +--rw ipv6-route:static-route-dest inet:ipv6-prefix
| | | | | +--rw ipv6-route:static-route-next-hop inet:ipv6-address
| | | | +--rw ipv6-route:route-attributes

```

```

| | | +--rw ipv6-route:metric?      uint32
| | | +--rw ipv6-route:distance?    uint32
| | | +--rw ipv6-route:tag?         uint32
| | +--rw ipv6-route:static-route-oif* [static-route-dest static-route-oif-type static-route-oif-
name]
| | | +--rw ipv6-route:static-route-dest      inet:ipv6-prefix
| | | +--rw ipv6-route:static-route-oif-type  enumeration
| | | +--rw ipv6-route:static-route-oif-name  string
| | | +--rw ipv6-route:route-attributes
| | |   +--rw ipv6-route:metric?      uint32
| | |   +--rw ipv6-route:distance?    uint32
| | |   +--rw ipv6-route:tag?         uint32
| | +--rw ipv6-route:link-local-static-route-nh* [link-local-static-route-dest link-local-nexthop
link-local-route-oif-type link-local-route-oif-name]
| | | +--rw ipv6-route:link-local-static-route-dest      inet:ipv6-prefix
| | | +--rw ipv6-route:link-local-nexthop                inet:ipv6-address
| | | +--rw ipv6-route:link-local-route-oif-type        enumeration
| | | +--rw ipv6-route:link-local-route-oif-name        string
| | | +--rw ipv6-route:route-attributes
| | |   +--rw ipv6-route:metric?      uint32
| | |   +--rw ipv6-route:distance?    uint32
| | |   +--rw ipv6-route:tag?         uint32
| | +--rw ipv6-route:static-route-nh-vrf* [static-route-next-vrf-dest next-hop-vrf static-route-
next-hop]
| | | +--rw ipv6-route:static-route-next-vrf-dest      inet:ipv6-prefix
| | | +--rw ipv6-route:next-hop-vrf                    common-def:vrf-name
| | | +--rw ipv6-route:static-route-next-hop           inet:ipv6-address
| | +--rw ipv6-route:link-local-static-route-nh-vrf* [static-route-next-vrf-dest next-hop-vrf link-
local-next-hop link-local-route-oif-type link-local-route-oif-name]
| | | +--rw ipv6-route:static-route-next-vrf-dest      inet:ipv6-prefix
| | | +--rw ipv6-route:next-hop-vrf                    common-def:vrf-name
| | | +--rw ipv6-route:link-local-next-hop             inet:ipv6-address
| | | +--rw ipv6-route:link-local-route-oif-type      enumeration
| | | +--rw ipv6-route:link-local-route-oif-name      string
| | +--rw ipv6-route:ipv6-static-route-oif-vrf* [static-route-next-vrf-dest next-hop-vrf static-
route-oif-type static-route-oif-name]
| | | +--rw ipv6-route:static-route-next-vrf-dest      inet:ipv6-prefix
| | | +--rw ipv6-route:next-hop-vrf                    common-def:vrf-name
| | | +--rw ipv6-route:static-route-oif-type          enumeration
| | | +--rw ipv6-route:static-route-oif-name          string
| | +--rw ipv6-route:import
| | | +--rw ipv6-route:routes* [src-vrf route-map]
| | |   +--rw ipv6-route:src-vrf      common-def:vrf-name
| | |   +--rw ipv6-route:route-map    common-def:name-string63
| | +--rw vrrpv3:proto-vrrpv3
| | | +--rw vrrpv3:vrrp?              empty
| | | +--rw vrrpv3:vrrp-extended?    empty
+--rw router
+--rw routing-system
+--rw router
| +--rw bgp:router-bgp!
| | +--rw bgp:router-bgp-attributes
| | | +--rw bgp:local-as?              local-as-type
| | | +--rw bgp:always-compare-med?    empty
| | | +--rw bgp:compare-med-empty-aspath? empty
| | | +--rw bgp:med-missing-as-worst?  empty
| | | +--rw bgp:as-path-ignore?       empty
| | | +--rw bgp:compare-routerid?     empty
| | | +--rw bgp:install-igp-cost?     empty
| | | +--rw bgp:cluster-id
| | | | +--rw (ch-cluster-id)?
| | | | | +--:(ca-cluster-id)
| | | | | | +--rw bgp:cluster-id-value?      decimal-number
| | | | | | +--:(ca-cluster-id-ipv4-address)
| | | | | | +--rw bgp:cluster-id-ipv4-address?  inet:ipv4-address
| | | +--rw bgp:default-local-preference?  local-preference-number
| | | +--rw bgp:distance
| | | | +--rw bgp:ext-route-distance?  ext-route-distance
| | | | +--rw bgp:int-route-distance?  int-route-distance
| | | | +--rw bgp:lcl-route-distance?  lcl-route-distance
| | | +--rw bgp:capability
| | | +--rw bgp:as4-enable?            empty

```

```

| | | +--rw bgp:maxas-limit
| | | | +--rw bgp:in
| | | | | +--rw bgp:num-as-in-path? num-as-in-path
| | | +--rw bgp:enforce-first-as? empty
| | | +--rw bgp:fast-external-fallover? empty
| | | +--rw bgp:timers
| | | | +--rw bgp:keep-alive? nei-keep-alive
| | | | | +--rw bgp:hold-time? nei-hold-time
| | | +--rw bgp:log-dampening-debug? empty
| | | +--rw bgp:confederation
| | | | +--rw bgp:identifier? cidentifier
| | | | | +--rw bgp:peers* cidentifier
| | | +--rw bgp: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-peer-group
| | | | | | +--rw bgp:peer-group-name? empty
| | | | | | +--rw bgp:remote-as? bgp-remote-as
| | | | | | +--rw bgp:update-source
| | | | | | | +--rw (ch-update-source)?
| | | | | | | | +--:(ca-ipv4)
| | | | | | | | | +--rw bgp:sip-ipv4-address? sip-ipv4-address
| | | | | | | | | +--:(ca-eth)
| | | | | | | | | | +--rw bgp:ethernet-interface
| | | | | | | | | | | +--rw bgp:interface-type? enumeration
| | | | | | | | | | | +--rw bgp:interface-name? update-source-ethernet-type
| | | | | | | | | +--:(ca-loopback)
| | | | | | | | | | +--rw bgp:loopback? loopback-interface
| | | | | | | | | +--:(ca-ve)
| | | | | | | | | | +--rw bgp:ve-interface? interface:ve-type
| | | | | +--rw bgp:description? neighbor-description
| | | | +--rw bgp:local-as
| | | | | +--rw bgp:local-as-value? local-as-num
| | | | | +--rw bgp:no-prepend? empty
| | | | +--rw bgp:next-hop-self
| | | | | +--rw (ch-next-hop-self-type)?
| | | | | | +--:(ca-next-hop-self-always)
| | | | | | | +--rw bgp:next-hop-self-always? empty
| | | | | | +--:(ca-next-hop-self-status)
| | | | | | | +--rw bgp:next-hop-self-status? empty
| | | | +--rw bgp:advertisement-interval
| | | | | +--rw bgp:value? adv-value
| | | | +--rw bgp:ebgp-btsh? empty
| | | | +--rw bgp:ebgp-multihop
| | | | | +--rw (ch-ebgp-multihop-type)?
| | | | | | +--:(ca-ebgp-multihop-flag)
| | | | | | | +--rw bgp:ebgp-multihop-flag? empty
| | | | | | +--:(ca-ebgp-multihop-count)
| | | | | | | +--rw bgp:ebgp-multihop-count? uint32
| | | | +--rw bgp:password? bgp-password
| | | | +--rw bgp:enforce-first-as
| | | | | +--rw bgp:nei-enforce-first-as? empty
| | | | | +--rw bgp:nei-enforce-first-as-disable? empty
| | | | +--rw bgp:timers
| | | | | +--rw bgp:nei-keep-alive? nei-keep-alive
| | | | | +--rw bgp:nei-hold-time? nei-hold-time
| | | | +--rw bgp:remove-private-as? empty
| | | | +--rw bgp:as-override? empty
| | | | +--rw bgp:soft-reconfiguration
| | | | | +--rw bgp:inbound? empty
| | | | +--rw bgp:static-network-edge? empty
| | | | +--rw bgp: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-peer-group
+--rw bgp:update-source
|   +--rw (ch-update-source)?
|     +---:(ca-ipv6)
|       | +--rw bgp:sip-ipv6-address?          sip-ipv6-address
|       +---:(ca-eth)
|         | +--rw bgp:ethernet-interface
|         |   +--rw bgp:interface-type?        enumeration
|         |   +--rw bgp:interface-name?       update-source-ethernet-type
|       +---:(ca-loopback)
|         | +--rw bgp:loopback?                loopback-interface
|       +---:(ca-ve)
|         | +--rw bgp:ve-interface?            interface:ve-type
|         +--rw bgp:description?              neighbor-description
+--rw bgp:local-as
|   +--rw bgp:local-as-value?    local-as-num
|   +--rw bgp:no-prepend?        empty
+--rw bgp:next-hop-self
|   +--rw (ch-next-hop-self-type)?
|     +---:(ca-next-hop-self-always)
|       | +--rw bgp:next-hop-self-always?    empty
|     +---:(ca-next-hop-self-status)
|       | +--rw bgp:next-hop-self-status?    empty
+--rw bgp:advertisement-interval
|   +--rw bgp:value?    adv-value
+--rw bgp:ebgp-btsh?          empty
+--rw bgp:ebgp-multihop
|   +--rw (ch-ebgp-multihop-type)?
|     +---:(ca-ebgp-multihop-flag)
|       | +--rw bgp:ebgp-multihop-flag?    empty
|     +---:(ca-ebgp-multihop-count)
|       | +--rw bgp:ebgp-multihop-count?   uint32
+--rw bgp:password?          bgp-password
+--rw bgp:enforce-first-as
|   +--rw bgp:nei-enforce-first-as?        empty
|   +--rw bgp:nei-enforce-first-as-disable? empty
+--rw bgp:timers
|   +--rw bgp:nei-keep-alive?    nei-keep-alive
|   +--rw bgp:nei-hold-time?     nei-hold-time
+--rw bgp:remove-private-as?    empty
+--rw bgp:as-override?          empty
+--rw bgp:soft-reconfiguration
|   +--rw bgp:inbound?          empty
+--rw bgp:static-network-edge?  empty
+--rw bgp:bfd
|   +--rw bgp:bfd-enable?        empty
|   +--rw bgp:holdover-interval? bfd:bfd-holdover-interval
|   +--rw bgp:interval
|     +--rw bgp:min-tx?          bfd-tx-interval-type
|     +--rw bgp:min-rx?          bfd-rx-interval-type
|     +--rw bgp:multiplier?     bfd-multiplier-type

```

```

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

```

```

|         +---:(ca-maxas-limit-enable)
|         | +---rw bgp:num-as-in-as-path?      num-as-in-as-path
|         +---:(ca-maxas-limit-disable)
|         | +---rw bgp:maxas-limit-disable?    empty
+---rw bgp:af-neighbor-capability
| +---rw bgp:as4
|     +---rw bgp:neighbor-as4-enable?         empty
|     +---rw bgp:neighbor-as4-disable?        empty
+---rw bgp:shutdown
|     +---rw bgp:shutdown-status?             empty
|     +---rw bgp:generate-rib-out?            empty
+---rw bgp:address-family
| +---rw bgp:ipv4
|     +---rw bgp:ipv4-unicast
|     | +---rw bgp:default-vrf
|     | | +---rw bgp:default-vrf-selected?          empty
|     | | +---rw bgp:af-ipv4-uc-and-vrf-cmds-call-point-holder
|     | | | +---rw bgp: 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: af-additional-paths
|     | | | | | +---rw bgp: addpath-txrx
|     | | | | | | +---rw bgp: addpath-send?          empty
|     | | | | | | +---rw bgp: addpath-receive?       empty
|     | | | | | +---rw bgp: addpath-select
|     | | | | | | +---rw bgp: addpath-sel-best?       uint8
|     | | | | | | +---rw bgp: addpath-sel-groupbest?  empty
|     | | | | | | +---rw bgp: addpath-sel-all?       empty
|     | | | | | +---rw bgp: advertise-best-external? empty
+---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:addpath-sel-groupbest? empty
| | +---rw bgp:addpath-sel-all? empty
| +---rw bgp:advertise-best-external? empty
+---rw bgp:static-network* [static-network-address]
| +---rw bgp:static-network-address inet:ipv4-prefix
| +---rw bgp:static-network-distance? sdistance
+---rw bgp:aggregate-address* [aggregate-ip-prefix]
| +---rw bgp:aggregate-ip-prefix inet:ipv4-prefix
| +---rw bgp:advertise-map? advertise-map
| +---rw bgp:as-set? empty
| +---rw bgp:attribute-map? attribute-map
| +---rw bgp:summary-only? empty
| +---rw bgp:suppress-map? suppress-map
+---rw bgp:network* [network-ipv4-address]
| +---rw bgp:network-ipv4-address inet:ipv4-prefix
| +---rw bgp:network-weight? absolute-decimal-number
| +---rw bgp:backdoor? empty
| +---rw bgp:network-route-map? rmap-type
+---rw bgp:neighbor
| +---rw bgp:af-ipv4-vrf-neighbor-address-holder
| +---rw bgp:af-ipv4-neighbor-addr* [af-ipv4-neighbor-address]
| +---rw bgp:af-ipv4-neighbor-address inet:ipv4-address
| +---rw bgp:remote-as? bgp-remote-as
| +---rw bgp:shutdown
| | +---rw bgp:shutdown-status? empty
| | +---rw bgp:generate-rib-out? empty
+---rw bgp:af-vrf-neighbor-capability
| +---rw bgp:as4
| | +---rw bgp:neighbor-as4-enable? empty
| | +---rw bgp:neighbor-as4-disable? empty
| +---rw bgp:orf
| +---rw bgp:prefixlist
| | +---rw bgp:prefixlist-status? empty
| | +---rw bgp:prefixlist-send? empty
| | +---rw bgp:prefixlist-receive? empty
+---rw bgp:allowas-in? uint32
+---rw bgp:filter-list
| +---rw bgp:direction-in
| | +---rw bgp:filter-list-direction-in-acl-name? ip-filter-name
| | +---rw bgp:filter-list-name-direction-in? empty
| +---rw bgp:direction-out
| | +---rw bgp:filter-list-direction-out-acl-name? ip-filter-name
| | +---rw bgp:filter-list-name-direction-out? empty
+---rw bgp:maximum-prefix
| +---rw bgp:max-prefix-limit? max-prefix-limit
| +---rw bgp:threshold-holder
| | +---rw bgp:threshold? max-prefix-threshold
| | +---rw bgp:teardown? empty
+---rw bgp:default-originate
| +---rw bgp:default-originate-status? empty
+---rw bgp:prefix-list
| +---rw bgp:direction-in
| | +---rw bgp:prefix-list-direction-in-prefix-name? nei-prefix-
list-filter
| | +---rw bgp:prefix-list-direction-in? empty
| +---rw bgp:direction-out
| | +---rw bgp:prefix-list-direction-out-prefix-name? nei-prefix-
list-filter
| | +---rw bgp:prefix-list-direction-out? empty
+---rw bgp:neighbor-route-map
| +---rw bgp:neighbor-route-map-direction-in
| | +---rw bgp:neighbor-route-map-name-direction-in? common-
def:name-string64
| | +---rw bgp:neighbor-route-map-direction-out
| | +---rw bgp:neighbor-route-map-name-direction-out? common-
def:name-string64
+---rw bgp:route-reflector-client? empty
+---rw bgp:unsuppress-map
| +---rw bgp:map-name? rmap-type
+---rw bgp:af-nei-weight? nei-weight
+---rw bgp:enable-peer-as-check? empty
+---rw bgp:additional-paths

```

```

| +--rw bgp:addpath-disable?      empty
| +--rw bgp:addpath-txrx
| | +--rw bgp:addpath-send?       empty
| | +--rw bgp:addpath-receive?   empty
| +--rw bgp:addpath-advertise
|   +--rw bgp:addpath-adv-best?   uint8
|   +--rw bgp:addpath-adv-groupbest? empty
|   +--rw bgp:addpath-adv-all?   empty
+--rw bgp:associate-peer-group?   bgp-peergroup
+--rw bgp:description?           neighbor-description
+--rw bgp:local-as
|   +--rw bgp:local-as-value?     local-as-num
|   +--rw bgp:no-prepend?         empty
+--rw bgp:next-hop-self
|   +--rw (ch-next-hop-self-type)?
|   | +--:(ca-next-hop-self-always)
|   | | +--rw bgp:next-hop-self-always? empty
|   | +--:(ca-next-hop-self-status)
|   | | +--rw bgp:next-hop-self-status? empty
+--rw bgp:advertisement-interval
|   +--rw bgp:value?              adv-value
+--rw bgp:ebgp-btsh?             empty
+--rw bgp:ebgp-multihop
|   +--rw (ch-ebgp-multihop-type)?
|   | +--:(ca-ebgp-multihop-flag)
|   | | +--rw bgp:ebgp-multihop-flag?   empty
|   | +--:(ca-ebgp-multihop-count)
|   | | +--rw bgp:ebgp-multihop-count?  uint32
+--rw bgp:password?             bgp-password
+--rw bgp:enforce-first-as
|   +--rw bgp:nei-enforce-first-as?   empty
|   +--rw bgp:nei-enforce-first-as-disable? empty
+--rw bgp:timers
|   +--rw bgp:nei-keep-alive?        nei-keep-alive
|   +--rw bgp:nei-hold-time?         nei-hold-time
+--rw bgp:remove-private-as?     empty
+--rw bgp:as-override?           empty
+--rw bgp:soft-reconfiguration
|   +--rw bgp:inbound?              empty
+--rw bgp:static-network-edge?   empty
+--rw bgp: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:maxas-limit
|   +--rw bgp:in
|     +--rw (ch-maxas-limit)?
|     | +--:(ca-maxas-limit-enable)
|     | | +--rw bgp:num-as-in-as-path?  num-as-in-as-path
|     | +--:(ca-maxas-limit-disable)
|     | | +--rw bgp:maxas-limit-disable? empty
+--rw bgp:update-source
|   +--rw (ch-update-source)?
|   | +--:(ca-ipv4)
|   | | +--rw bgp:sip-ipv4-address?    sip-ipv4-address
|   | +--:(ca-eth)
|   | | +--rw bgp:ethernet-interface
|   | | | +--rw bgp:interface-type?    enumeration
|   | | | +--rw bgp:interface-name?   update-source-ethernet-type
|   | +--:(ca-loopback)
|   | | +--rw bgp:loopback?           loopback-interface
|   | +--:(ca-ve)
|   | | +--rw bgp:ve-interface?       interface:ve-type
+--rw bgp:send-community
|   +--rw bgp:send-community-status?  empty
|   +--rw bgp:both?                  empty
|   +--rw bgp:extended?              empty
|   +--rw bgp:standard?              empty
+--rw bgp:activate?               empty

```













```

| | +--rw bgp:addpath-send?      empty
| | +--rw bgp:addpath-receive?   empty
| +--rw bgp:addpath-advertise
|   +--rw bgp:addpath-adv-best?  uint8
|   +--rw bgp:addpath-adv-groupbest?  empty
|   +--rw bgp:addpath-adv-all?    empty
+--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:bfd
| +--rw bgp:bfd-enable?              empty
| +--rw bgp:holdover-interval?      bfd:bfd-holdover-interval
| +--rw bgp:interval
|   +--rw bgp:min-tx?                bfd-tx-interval-type
|   +--rw bgp:min-rx?                bfd-rx-interval-type
|   +--rw bgp:multiplier?           bfd-multiplier-type
+--rw bgp:update-source
| +--rw (ch-update-source)?
|   +---:(ca-ipv6)
|   | +--rw bgp:sip-ipv6-address?    sip-ipv6-address
|   +---:(ca-eth)
|   | +--rw bgp:ethernet-interface
|   |   +--rw bgp:interface-type?    enumeration
|   |   +--rw bgp:interface-name?    update-source-ethernet-type
|   +---:(ca-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 isis:auth-check-level1-disable? empty
| | | | +--rw isis:auth-check-level2
| | | | +--rw isis:auth-check-level2-disable? empty
| | | +--rw isis:auth-mode
| | | | +--rw isis:md5
| | | | | +--rw isis:auth-mode-md5-level1? empty
| | | | | +--rw isis:auth-mode-md5-level2? empty
| | | +--rw isis:auth-key
| | | | +--rw isis:auth-key-level1-str? string
| | | | +--rw isis:auth-key-level2-str? string
| | | +--rw isis:bfd
| | | | +--rw isis:bfd-global-enable? empty
| | | | +--rw isis:bfd-holdover-interval? uint16
| | | +--rw isis:csnp-interval? uint32
| | | +--rw isis:disable-inc-stct-spf-opt? empty
| | | +--rw isis:disable-incremental-spf-opt? empty
| | | +--rw isis:disable-partial-spf-opt? empty
| | | +--rw isis:fast-flood!
| | | | +--rw isis:fast-flood-value? uint32
| | | +--rw isis:graceful-restart
| | | | +--rw isis:gr-helper-disable? empty
| | | +--rw isis:hello
| | | | +--rw isis:padding
| | | | | +--rw isis:hello-padding-point-to-point
| | | | | | +--rw isis:hello-padding-ptp-disable? empty
| | | | | | +--rw isis:hello-padding-disable? empty
| | | +--rw isis:hostname
| | | | +--rw isis:hostname-disable? empty
| | | +--rw isis:is-type? enumeration
| | | +--rw isis:log
| | | | +--rw isis:adjacency? empty
| | | | +--rw isis:invalid-lsp-packets? empty
| | | +--rw isis:lsp-gen-interval? uint32
| | | +--rw isis:lsp-interval? uint32
| | | +--rw isis:lsp-refresh-interval? uint32
| | | +--rw isis:max-lsp-lifetime? uint32
| | | +--rw isis:nonstop-routing? empty
| | | +--rw isis:partial-spf-interval
| | | | +--rw isis:pspf-max-hold-time? uint32
| | | | +--rw isis:pspf-init-delay? uint32
| | | | +--rw isis:pspf-hold-time? uint32
| | | +--rw isis:retransmit-interval? uint32
| | | +--rw isis:set-debug
| | | | +--rw isis:nsr? empty
| | | +--rw isis:set-overload-bit!
| | | | +--rw isis:on-startup
| | | | | +--rw (ch-on-startup)?
| | | | | | +--:(ca-on-startup)
| | | | | | | +--rw isis:on-startup-overloadtime? uint32
| | | | | | +--:(ca-on-startup-wfbgp)
| | | | | | | +--rw isis:wait-for-bgp!
| | | | | | | | +--rw isis:wait-for-bgp-value? uint32
| | | +--rw isis:spf-interval* [spf-interval-level]
| | | | +--rw isis:spf-interval-level enumeration
| | | | +--rw isis:spf-interval-max-hold-time? uint32
| | | | +--rw isis:spf-interval-initial-delay? uint32
| | | | +--rw isis:spf-interval-hold-time? uint32
| | | +--rw isis:reverse-metric!
| | | | +--rw isis:reverse_metric_tlv
| | | | | +--rw isis:rev-metric-tlv-type? uint16
| | | | +--rw isis:rev-metric-common-attributes
| | | | | +--rw isis:rev-metric-val? uint32
| | | | | +--rw isis:rev-metric-whole-lan? empty
| | | | | +--rw isis:rev-metric-te-def-metric? empty
| | | +--rw isis:address-family
| | | | +--rw isis:ipv4
| | | | | +--rw isis:af-ipv4-unicast!
| | | | | | +--rw isis:af-ipv4-attributes
| | | | | | | +--rw isis:metric-style
| | | | | | | | +--rw isis:wide
| | | | | | | | | +--rw isis:metric-style-wide-level1? empty
| | | | | | | | | +--rw isis:metric-style-wide-level2? empty

```



```

+--rw isis:summary-address* [summary-ip summary-ip-mask]
| +--rw isis:summary-ip          inet:ipv4-address
| +--rw isis:summary-ip-mask    inet:ipv4-address
| +--rw isis:summary-ip-level1? empty
| +--rw isis:summary-ip-level2? empty
+--rw isis:ldp-sync!
| +--rw isis:ldp-sync-hold-down? uint32
+--rw isis:default-link-metric
| +--rw isis:default-link-metric-level1? uint32
| +--rw isis:default-link-metric-level2? uint32
+--rw isis:af-common-attributes
+--rw isis:default-information-originate!
| +--rw isis:default-information-originate-route-map? string
+--rw isis:default-metric?          uint32
+--rw isis:distance?               uint32
+--rw isis:maximum-paths?          uint32
+--rw isis:redistribute
+--rw isis:connected!
| +--rw isis:connected-metric?      conn-metric
| +--rw isis:connected-route-map?   rmap-type
| +--rw (ch-connected-levels)?
| | +--:(ca-connected-level1)
| | | +--rw isis:connected-level1?  empty
| | +--:(ca-connected-level2)
| | | +--rw isis:connected-level2?  empty
| | +--:(ca-connected-level12)
| | | +--rw isis:connected-level12? empty
| +--rw isis:connected-metric-type? is-metric-type-t
+--rw isis:ospf!
+--rw isis:match
| +--rw isis:ospf-internal?          empty
| +--rw isis:ospf-external1?        empty
| +--rw isis:ospf-external2?        empty
| +--rw isis:ospf-metric?           conn-metric
| +--rw isis:ospf-route-map?        rmap-type
| +--rw (ch-ospf-levels)?
| | +--:(ca-ospf-level1)
| | | +--rw isis:ospf-level1?       empty
| | +--:(ca-ospf-level2)
| | | +--rw isis:ospf-level2?       empty
| | +--:(ca-ospf-level12)
| | | +--rw isis:ospf-level12?      empty
| +--rw isis:ospf-metric-type?      is-metric-type-t
+--rw isis:static!
+--rw isis:static-metric?           conn-metric
+--rw isis:static-route-map?        rmap-type
+--rw (ch-static-levels)?
| | +--:(ca-static-level1)
| | | +--rw isis:static-level1?     empty
| | +--:(ca-static-level2)
| | | +--rw isis:static-level2?     empty
| | +--:(ca-static-level12)
| | | +--rw isis:static-level12?    empty
| +--rw isis:static-metric-type?    is-metric-type-t
+--rw isis:bgp!
+--rw isis:bgp-metric?              conn-metric
+--rw isis:bgp-route-map?           common-def:name-string63
+--rw (ch-bgp-levels)?
| | +--:(ca-bgp-level1)
| | | +--rw isis:bgp-level1?        empty
| | +--:(ca-bgp-level2)
| | | +--rw isis:bgp-level2?        empty
| | +--:(ca-bgp-level12)
| | | +--rw isis:bgp-level12?       empty
| +--rw isis:bgp-metric-type?       is-metric-type-t
+--rw isis:isis
+--rw isis:level-1
| +--rw isis:into
| +--rw isis:level1-into-level2
| +--rw (ch-prefix-list-level1-disable)?
| | +--:(ca-prefix-list-level1)
| | | +--rw isis:prefix-list-level1? string

```





```

| | | | +--rw ospf:metric
| | | | | +--rw ospf:nssa-value?    big-metric
| | | | | +--rw ospf:no-summary1?   empty
| | | | +--rw ospf:default-information-originate?  empty
| | | +--rw ospf:stub
| | | | +--rw ospf:metric
| | | | | +--rw ospf:stub-value?    big-metric
| | | | | +--rw ospf:no-summary?    empty
| | | +--rw ospf:range* [range-address range-mask]
| | | | +--rw ospf:range-address    inet:ipv4-address
| | | | +--rw ospf:range-mask      inet:ipv4-address
| | | | +--rw ospf:range-effect?    enumeration
| | | | +--rw ospf:range-cost?     range-metric
| | | +--rw ospf:prefix-list
| | | | +--rw ospf:direction-in
| | | | | +--rw ospf:prefix-list-direction-in-prefix-name?  ipv4-prefix-name-t
| | | | | +--rw ospf:prefix-list-direction-in?              empty
| | | | +--rw ospf:direction-out
| | | | | +--rw ospf:prefix-list-direction-out-prefix-name?  ipv4-prefix-name-t
| | | | | +--rw ospf:prefix-list-direction-out?              empty
| | | +--rw ospf:virtual-link* [virt-link-neighbor]
| | | | +--rw ospf:virt-link-neighbor    inet:ipv4-address
| | | | +--rw ospf:authentication-key
| | | | | +--rw ospf:no-encrypt-auth-key-table
| | | | | | +--rw ospf:no-encrypt-auth-key?  ospf-auth-psswd-string
| | | | +--rw ospf:hello-interval?      common-def:time-interval-sec
| | | | +--rw ospf:dead-interval?        common-def:time-interval-sec
| | | | +--rw ospf:retransmit-interval?   common-def:time-interval-sec
| | | | +--rw ospf:transmit-delay?        common-def:time-interval-sec
| | | | +--rw ospf:md5-authentication
| | | | | +--rw ospf:key-activation-wait-time?  common-def:time-interval-sec
| | | | | +--rw ospf:key-table
| | | | | | +--rw ospf:key-id?                uint32
| | | | | +--rw ospf:md5-authentication-key?  ospf-auth-psswd-string
| | | +--rw ospf:auto-cost
| | | | +--rw ospf:reference-bandwidth
| | | | | +--rw ospf:ref-bandwidth?    band-width
| | | | | +--rw ospf:use-active-ports?  empty
| | | +--rw ospf:distance* [route-type]
| | | | +--rw ospf:route-type    route-type-enum
| | | | +--rw ospf:dist-value    uint32
| | | +--rw ospf:distribute-list
| | | | +--rw ospf:route-map
| | | | | +--rw ospf:route-map?    common-def:name-string63
| | | | | +--rw ospf:input?        empty
| | | +--rw ospf:max-metric
| | | | +--rw ospf:router-lsa!
| | | | | +--rw ospf:all-vrfs?      empty
| | | | | +--rw ospf:all-lsas?      empty
| | | | | +--rw ospf:external-lsa!
| | | | | | +--rw ospf:external-lsa-val?  uint32
| | | | | +--rw ospf:summary-lsa!
| | | | | | +--rw ospf:summary-lsa-val?  uint32
| | | | +--rw ospf:link
| | | | | +--rw ospf:all?            empty
| | | | | +--rw ospf:ptp?            empty
| | | | | +--rw ospf:stub?           empty
| | | | | +--rw ospf:transit?        empty
| | | +--rw ospf:on-startup
| | | | +--rw ospf:time?              uint32
| | | | +--rw ospf:wait-for-bgp?     empty
| | | | +--rw ospf:all-lsas-onstartup?  empty
| | | | +--rw ospf:external-lsa-onstartup!
| | | | | +--rw ospf:external-lsa-val-onstartup?  uint32
| | | | +--rw ospf:summary-lsa-onstartup!
| | | | | +--rw ospf:summary-lsa-val-onstartup?  uint32
| | | | +--rw ospf:link-onstartup
| | | | | +--rw ospf:all-link-onstartup?    empty
| | | | | +--rw ospf:ptp-link-onstartup?    empty
| | | | | +--rw ospf:stub-link-onstartup?   empty
| | | | | +--rw ospf:transit-link-onstartup? empty
| | | +--rw ospf:summary-address* [sum-address sum-address-mask]

```

```

| | | +--rw ospf:sum-address      ospf-ipv4-address
| | | +--rw ospf:sum-address-mask  inet:ipv4-address
| | +--rw ospf:timers
| | | +--rw ospf:lsa-group-pacing?  common-def:time-interval-sec
| | | +--rw ospf:throttle
| | | | +--rw ospf:spf
| | | | | +--rw ospf:init-delay?      common-def:time-interval-msec
| | | | | +--rw ospf:hold-time?      common-def:time-interval-msec
| | | | | +--rw ospf:max-hold-time?  common-def:time-interval-msec
| | | +--rw ospf:vrf-lite-capability?  empty
| | +--rw ospf:graceful-restart
| | | +--rw ospf:graceful-restart-enable?  empty
| | | +--rw ospf:helper-disable?          empty
| | | +--rw ospf:restart-time?            common-def:time-interval-sec
| | +--rw ospf:nonstop-routing?          empty
| | +--rw ospf:maximum-paths?            uint8
| | +--rw ospf:global-bfd
| | | +--rw ospf:bfd-enable?             empty
| | | +--rw ospf:holdover-interval?     uint8
+--rw pim:pim* [vrf]
| +--rw pim:vrf                          common-def:vrf-name
| +--rw pim:max-mcache?                   uint32
| +--rw pim:hello-interval?               uint32
| +--rw pim:prune-wait?                   uint32
| +--rw pim:nbr-timeout?                  uint16
| +--rw pim:inactivity-timer?             uint16
| +--rw pim:message-interval?             uint32
| +--rw pim:spt-threshold?                spt-thr-type
+--rw pim:rpf
| +--rw pim:ecmp!
| | +--rw pim:rebalance?                  empty
+--rw pim:ssm-enable!
| +--rw pim:range?                        ip-prefix-name-t
+--rw pim:bsr-candidate
| +--rw pim:bsr-cand-interface* [bsr-cand-intf-type bsr-cand-intf-id]
| | +--rw pim:bsr-cand-intf-type          pim-intf-types
| | +--rw pim:bsr-cand-intf-id           string
| | +--rw pim:hash-mask-length?          uint16
| | +--rw pim:bsr-cand-priority?          uint32
+--rw pim:rp-candidate
| +--rw pim:rp-cand-interface* [rp-cand-intf-type rp-cand-intf-id]
| | +--rw pim:rp-cand-intf-type          pim-intf-types
| | +--rw pim:rp-cand-intf-id           string
| | +--rw pim:rp-cand-grp-prefix* [rp-cand-prefix-name]
| | +--rw pim:rp-cand-prefix-name        ip-prefix-name-t
+--rw pim:anycast-rp* [anycast-ip-addr]
| +--rw pim:anycast-ip-addr               inet:ipv4-address
| +--rw pim:anycast-prefix-list?          ip-prefix-name-t
+--rw pim:rp-address* [rp-ip-addr]
| +--rw pim:rp-ip-addr                    inet:ipv4-address
| +--rw pim:rp-addr-prefix-list?          common-def:name-string63
+--rw pim:route-precedence
| +--rw pim:uc-default?                   route-precedence-type
| +--rw pim:uc-non-default?               route-precedence-type
| +--rw pim:none?                         route-precedence-type
+--rw ip
| +--rw dhcp:dhcp
| | +--rw dhcp:relay
| | | +--rw dhcp:information
| | | | +--rw dhcp:option?              empty
+--rw ip-access-list:receive
| | +--rw ip-access-list:access-group* [acl-name]
| | +--rw ip-access-list:acl-name      13-acl-policy-name
+--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 ipv6
| +--rw router
| | +--rw ospfv3:ospf* [vrf]
| | | +--rw ospfv3:vrf                  common-def:vrf-name
| | | +--rw ospfv3:area* [area-id]

```

```

| | | +--rw ospfv3:area-id          ospf:ospf-area-id
| | | +--rw ospfv3:normal?        empty
| | | +--rw ospfv3:nssa!
| | | | +--rw ospfv3:metric
| | | | | +--rw ospfv3:nssa-area-metric?  uint32
| | | | +--rw ospfv3:area-default-information-originate!
| | | | | +--rw ospfv3:area-default-information-originate-metric?  uint32
| | | | | | +--rw ospfv3:area-default-information-originate-metric-type?  ospf:metric-type
| | | | +--rw ospfv3:no-redistribution?  empty
| | | | +--rw ospfv3:nssa-area-no-summary?  empty
| | | | +--rw ospfv3:translator-always?  empty
| | | | +--rw ospfv3:translator-interval?  common-def:time-interval-sec
| | | +--rw ospfv3:stub
| | | | +--rw ospfv3:stub-area-no-summary?  empty
| | | | +--rw ospfv3:stub-area-metric?  uint32
| | | +--rw ospfv3:authentication
| | | | +--rw ospfv3:ipsec-auth-key-config
| | | | | +--rw ospfv3:spi?  spi-value-type
| | | | | +--rw (ch-algorithm)?
| | | | | | +--:(ca-ah-algorithm)
| | | | | | | +--rw ospfv3:ah?  algorithm-type-ah
| | | | | | | | +--rw ospfv3:ah-key?  ipsec-authentication-hexkey-string
| | | | | | +--:(ca-esp-algorithm)
| | | | | | | +--rw ospfv3:esp?  algorithm-type-esp
| | | | | | | +--rw ospfv3:esp-auth?  algorithm-type-ah
| | | | | | | +--rw ospfv3:esp-auth-key?  ipsec-authentication-hexkey-string
| | | +--rw ospfv3:virtual-link* [virtual-link-neighbor]
| | | | +--rw ospfv3:virtual-link-neighbor  inet:ipv4-address
| | | | +--rw ospfv3:link-properties
| | | | | +--rw ospfv3:link-interval-properties
| | | | | | +--rw ospfv3:hello-interval?  common-def:time-interval-sec
| | | | | | +--rw ospfv3:dead-interval?  common-def:time-interval-sec
| | | | | | +--rw ospfv3:hello-jitter?  uint32
| | | | | | +--rw ospfv3:retransmit-interval?  common-def:time-interval-sec
| | | | | | +--rw ospfv3:transmit-delay?  common-def:time-interval-sec
| | | | +--rw ospfv3:area-range* [range-address]
| | | | | +--rw ospfv3:range-address  inet:ipv6-prefix
| | | | | +--rw ospfv3:range-effect?  enumeration
| | | | | +--rw ospfv3:range-cost?  ospf:range-metric
| | | +--rw ospfv3:auto-cost
| | | | +--rw ospfv3:reference-bandwidth?  ospf:band-width
| | | +--rw ospfv3:database-overflow-interval?  common-def:time-interval-sec
| | | +--rw ospfv3:global-default-information-originate!
| | | | +--rw ospfv3:global-default-information-originate-always?  empty
| | | | +--rw ospfv3:global-default-information-originate-metric?  uint32
| | | | +--rw ospfv3:global-default-information-originate-metric-type?  ospf:metric-type
| | | +--rw ospfv3:default-metric?  uint32
| | | +--rw ospfv3:default-passive-interface?  empty
| | | +--rw ospfv3:distance* [route-type]
| | | | +--rw ospfv3:route-type  ospf:route-type-enum
| | | | +--rw ospfv3:distance-value?  uint32
| | | +--rw ospfv3:distribute-list
| | | | +--rw ospfv3:route-map
| | | | | +--rw ospfv3:distribute-list-route-map-name?  common-def:name-string63
| | | | | +--rw ospfv3:distribute-list-route-map-in?  empty
| | | | +--rw ospfv3:prefix-list
| | | | | +--rw ospfv3:distribute-list-prefix-list-name?  common-def:name-string63
| | | | | +--rw ospfv3:distribute-list-prefix-list-in?  empty
| | | +--rw ospfv3:external-lsdb-limit?  uint32
| | | +--rw ospfv3:graceful-restart
| | | | +--rw ospfv3:helper
| | | | | +--rw ospfv3:graceful-restart-helper-disable?  empty
| | | | | +--rw ospfv3:graceful-restart-helper-strict-lsa-checking?  empty
| | | +--rw ospfv3:key-add-remove-interval?  common-def:time-interval-sec
| | | +--rw ospfv3:key-rollover-interval?  common-def:time-interval-sec
| | | +--rw ospfv3:log
| | | | +--rw ospfv3:log-adjacency!
| | | | | +--rw ospfv3:log-adjacency-dr-only?  empty
| | | | +--rw ospfv3:log-all?  empty
| | | | +--rw ospfv3:log-bad-packet!
| | | | | +--rw ospfv3:log-bad-packet-checksum?  empty
| | | +--rw ospfv3:log-database?  empty

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| | | | +--rw ospfv3:log-retransmit? empty
| | | +--rw ospfv3:global-metric-type? ospf:metric-type
| | | +--rw ospfv3:redistribute
| | | | +--rw ospfv3:redistribute-connected!
| | | | | +--rw ospfv3:connected-route-map? common-def:name-string63
| | | | | +--rw ospfv3:redistribute-connected-metric? uint32
| | | | | +--rw ospfv3:redistribute-connected-metric-type? ospf:metric-type
| | | | +--rw ospfv3:redistribute-static!
| | | | | +--rw ospfv3:static-route-map? common-def:name-string63
| | | | | +--rw ospfv3:redistribute-static-metric? uint32
| | | | | +--rw ospfv3:redistribute-static-metric-type? ospf:metric-type
| | | +--rw ospfv3:redistribute-isis!
| | | | +--rw ospfv3:redistribute-isis-route-map? common-def:name-string63
| | | | +--rw (ch-isis-level)?
| | | | | +--:(ca-level-1)
| | | | | | +--rw ospfv3:level-1? empty
| | | | | | +--:(ca-level-2)
| | | | | | | +--rw ospfv3:level-2? empty
| | | | | | +--:(ca-level-1-2)
| | | | | | | +--rw ospfv3:level-1-2? empty
| | | | | +--rw ospfv3:redistribute-isis-metric? uint32
| | | | | +--rw ospfv3:redistribute-isis-metric-type? ospf:metric-type
| | | +--rw ospfv3:redistribute-bgp!
| | | | +--rw ospfv3:bgp-route-map? common-def:name-string63
| | | | +--rw ospfv3:redistribute-bgp-metric? uint32
| | | | +--rw ospfv3:redistribute-bgp-metric-type? ospf:metric-type
| | | +--rw ospfv3:redistribute-ospf!
| | | | +--rw ospfv3:ospf-route-map? common-def:name-string63
| | | | +--rw ospfv3:redistribute-ospf-metric? uint32
| | | | +--rw ospfv3:redistribute-ospf-metric-type? ospf:metric-type
| | | +--rw ospfv3:summary-address* [summary-address-value]
| | | | +--rw ospfv3:summary-address-value common-def:ipv6-address-prefix
| | | +--rw ospfv3:timers
| | | | +--rw ospfv3:lsa-group-pacing? common-def:time-interval-sec
| | | | +--rw ospfv3:spf
| | | | | +--rw ospfv3:spf-delay? common-def:time-interval-sec
| | | | | +--rw ospfv3:spf-hold-time? common-def:time-interval-sec
| | | +--rw ospfv3:nonstop-routing? empty
| | | +--rw ospfv3:maximum-paths? uint32
| | | +--rw ospfv3:max-metric
| | | | +--rw ospfv3:router-lsa!
| | | | | +--rw ospfv3:all-lsas? empty
| | | | | +--rw ospfv3:external-lsa!
| | | | | | +--rw ospfv3:external-lsa-value? uint32
| | | | | +--rw ospfv3:summary-lsa!
| | | | | | +--rw ospfv3:summary-lsa-value? uint32
| | | | | +--rw ospfv3:include-stub? empty
| | | | | +--rw ospfv3:on-startup
| | | | | | +--rw ospfv3:on-startup-time? uint32
| | | | | | +--rw ospfv3:wait-for-bgp? empty
| | | +--rw ospfv3:bfd
| | | | +--rw ospfv3:bfd-enable? empty
| | | | +--rw ospfv3:bfd-holdover-interval? common-def:time-interval-sec
| | | +--rw ospfv3:vrf-lite-capability? empty
| +--rw ipv6-access-list:receive
| | +--rw ipv6-access-list:access-group* [acl-name]
| | | +--rw ipv6-access-list:acl-name ipv6-l3-acl-policy-name
| +--rw 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 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

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```

| | | | +--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:directed-broadcast? empty
| | | | | +--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 dhcp:interface-ve-dhcp-conf
| | | | | +--rw dhcp:dhcp
| | | | | | +--rw dhcp:relay
| | | | | | | +--rw dhcp:servers* [relay-ip-addr server-vrf-name]
| | | | | | | | +--rw dhcp:relay-ip-addr   dhcp-ipv4-address
| | | | | | | | +--rw dhcp:server-vrf-name common-def:vrf-name
| | | | | | +--rw dhcp:gateway?   dhcp-ipv4-address
| | | | +--rw icmp:icmp
| | | | | +--rw icmp:rate-limiting?   uint32
| | | | +--rw isis:intf-router-isis
| | | | | +--rw isis:int-router-isis
| | | | | | +--rw isis:interface-ip-router-isis? empty
| | | | +--rw 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 ospf:interface-vlan-ospf-conf
| | | | | +--rw ospf:ospf1
| | | | | | +--rw ospf:area?           ospf-area-id
| | | | | | +--rw ospf:auth-change-wait-time? common-def:time-interval-sec
| | | | | | +--rw ospf:authentication-key
| | | | | | | +--rw ospf:no-encrypt-auth-key-table
| | | | | | | | +--rw ospf:no-encrypt-auth-key?   ospf-auth-psswd-string
| | | | | | +--rw ospf:hello-interval?   common-def:time-interval-sec
| | | | | | +--rw ospf:dead-interval?     common-def:time-interval-sec
| | | | | | +--rw ospf:retransmit-interval? common-def:time-interval-sec
| | | | | | +--rw ospf:transmit-delay?    common-def:time-interval-sec
| | | | | | +--rw ospf:md5-authentication
| | | | | | | +--rw ospf:key-activation-wait-time? common-def:time-interval-sec
| | | | | | | +--rw ospf:key-table
| | | | | | | | +--rw ospf:key-id?           uint32
| | | | | | | | +--rw ospf:md5-authentication-key? ospf-auth-psswd-string
| | | | | | +--rw ospf:cost?             uint32
| | | | | | +--rw ospf:network?          enumeration
| | | | | | +--rw ospf:intf-ldp-sync?     enumeration
| | | | | | +--rw ospf:database-filter
| | | | | | | +--rw ospf:all-out?         empty
| | | | | | | +--rw ospf:all-external?   database-filter-options
| | | | | | | +--rw ospf:all-summary-external? database-filter-options
| | | | | | +--rw ospf:mtu-ignore?       empty
| | | | | | +--rw ospf:active?           empty
| | | | | | +--rw ospf:passive?         empty
| | | | | | +--rw ospf:priority?        uint32
| | | | | | +--rw ospf:bfd
| | | | | | | +--rw ospf:intf-bfd-enable? empty
| | | | +--rw pim:pim-intf-vlan-cont
| | | | | +--rw pim:pim-int-cmd
| | | | | | +--rw pim:pim-sparse?   empty
| | | | | | +--rw pim:pim
| | | | | | | +--rw pim:dr-priority?   uint32
| | | | | | | +--rw pim:ttl-threshold? uint32
| | | | +--rw 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 dhcpv6:interface-ve-dhcp-conf
| | | | +--rw dhcpv6:dhcp
| | | | | +--rw dhcpv6:relay
| | | | | | +--rw dhcpv6:servers* [relay-ip-addr]
| | | | | | | +--rw dhcpv6:relay-ip-addr dhcp-ipv6-address
| | | | | | | +--rw dhcpv6:server-vrf-name? common-def:vrf-name
| | | | | | +--rw dhcpv6:interface
| | | | | | | +--rw dhcpv6:interface-type? dhcpv6-iftype
| | | | | | | +--rw dhcpv6:interface-name? dhcpv6-ifname
| | | +--rw icmp:icmpv6
| | | | +--rw icmp:rate-limiting? uint32
| | | +--rw ipv6-access-list:access-group* [ipv6-access-list ip-direction]
| | | | +--rw ipv6-access-list:ipv6-access-list ipv6-l3-acl-policy-name
| | | | +--rw ipv6-access-list:ip-direction enumeration
| | | | +--rw ipv6-access-list:traffic-type? enumeration
| | | +--rw ip-policy:policy
| | | | +--rw ip-policy:route-map
| | | | | +--rw ip-policy:ipv6-route-map-name? common-def:name-string63
| | | +--rw ipv6-nd-ra:ipv6-nd-ra
| | | | +--rw ipv6-nd-ra:ipv6-intf-cmds
| | | | | +--rw ipv6-nd-ra:vrrp-suppress-interface-ra? empty
| | | | | +--rw ipv6-nd-ra:nd
| | | | | | +--rw ipv6-nd-ra:managed-config-flag? empty
| | | | | | +--rw ipv6-nd-ra:other-config-flag? empty
| | | | | | +--rw ipv6-nd-ra:broadcast-mac-trap? empty
| | | | | | +--rw ipv6-nd-ra:ra-lifetime? common-def:time-interval-sec
| | | | | | +--rw ipv6-nd-ra:reachable-time? common-def:time-interval-msec
| | | | | | +--rw ipv6-nd-ra:mtu? uint32
| | | | | | +--rw ipv6-nd-ra:retrans-timer? common-def:time-interval-msec
| | | | | | +--rw ipv6-nd-ra:hoplimit? uint32
| | | | | | +--rw ipv6-nd-ra:ns-interval? common-def:time-interval-sec
| | | | | | +--rw ipv6-nd-ra:suppress-ra
| | | | | | | +--rw ipv6-nd-ra:suppress-ra-flag? empty
| | | | | | | +--rw ipv6-nd-ra:suppress-ra-mtu? empty
| | | | | | | +--rw ipv6-nd-ra:suppress-ra-all? empty
| | | | | | +--rw ipv6-nd-ra:ra-interval
| | | | | | | +--rw ipv6-nd-ra:max-interval? common-def:time-interval-sec
| | | | | | | +--rw ipv6-nd-ra:min? common-def:time-interval-sec
| | | | | | +--rw ipv6-nd-ra:send-ra? empty
| | | | | | +--rw ipv6-nd-ra:router-preference
| | | | | | | +--rw ipv6-nd-ra:router-pref-high? empty
| | | | | | | +--rw ipv6-nd-ra:router-pref-low? empty
| | | | | | | +--rw ipv6-nd-ra:router-pref-medium? empty
| | | | | | +--rw ipv6-nd-ra:ra-dns-server* [dns-server-prefix]
| | | | | | | +--rw ipv6-nd-ra:dns-server-prefix inet:ipv6-address
| | | | | | | +--rw ipv6-nd-ra:dns-server-lifetime-multiplier? uint32
| | | | | | +--rw ipv6-nd-ra:ra-domain-name* [domain-name-string]
| | | | | | | +--rw ipv6-nd-ra:domain-name-string string
| | | | | | | +--rw ipv6-nd-ra:domain-name-lifetime-multiplier? uint32
| | | | | | +--rw ipv6-nd-ra:address
| | | | | | | +--rw ipv6-nd-ra:suppressing-address* [suppress-ipv6-address]
| | | | | | | | +--rw ipv6-nd-ra:suppress-ipv6-address nd-suppress-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 vrrpv3:virtual-ipaddr inet:ipv6-address
| | | | +--rw vrrpv3:track
| | | | | +--rw vrrpv3:network* [network-address]
| | | | | | +--rw vrrpv3:network-address common-def:ipv6-address-prefix
| | | | | | +--rw vrrpv3:network-priority? uint8
| | | | | +--rw vrrpv3:interface* [interface-type interface-name]
| | | | | | +--rw vrrpv3:interface-type track-iftype
| | | | | | +--rw vrrpv3:interface-name track-ifname
| | | | | | +--rw vrrpv3:track-priority? uint8
| | | | +--rw vrrpv3:enable? empty
| | | | +--rw vrrpv3:hold-time? uint32
| | | | +--rw vrrpv3:preempt-mode? empty
| | | | +--rw vrrpv3:priority? uint8
| | | | +--rw vrrpv3:description? string
| | | | +--rw vrrpv3:advertise-backup? empty
| | | | +--rw vrrpv3:nd-advertisement-timer? uint32
| | | | +--rw vrrpv3:advertisement-interval-scale? uint32
| | | | +--rw vrrpv3:backup-advertisement-interval? uint32
| | | | +--rw vrrpv3:vrrpe-advertisement-interval? uint32
| | | | +--rw vrrpv3:short-path-forwarding
| | | | | +--rw vrrpv3:basic? empty
| | | | | +--rw vrrpv3:revert-priority? uint8
| | | | +--rw ip-access-list:ip-acl-interface
| | | | | +--rw ip-access-list:ip
| | | | | | +--rw ip-access-list:access-group* [ip-access-list ip-direction]
| | | | | | | +--rw ip-access-list:ip-access-list l3-acl-policy-name
| | | | | | | +--rw ip-access-list:ip-direction enumeration
| | | | | | | +--rw ip-access-list:traffic-type? enumeration
| | | | +--rw ip-policy:ip-pbr-interface
| | | | | +--rw ip-policy:ip
| | | | | | +--rw ip-policy:policy
| | | | | | | +--rw ip-policy:route-map
| | | | | | | +--rw ip-policy:route-map-name? common-def:name-string63
| | | | +--rw isis:intf-isis!
| | | | | +--rw isis:interface-isis
| | | | | | +--rw isis:auth-check
| | | | | | | +--rw isis:auth-check-level1
| | | | | | | | +--rw isis:interface-auth-check-level1-disable? empty
| | | | | | | +--rw isis:auth-check-level2
| | | | | | | | +--rw isis:interface-auth-check-level2-disable? empty
| | | | | | +--rw isis:interface-reverse-metric!
| | | | | | | +--rw isis:rev-metric-common-attributes
| | | | | | | | +--rw isis:rev-metric-val? uint32
| | | | | | | | +--rw isis:rev-metric-whole-lan? empty
| | | | | | | | +--rw isis:rev-metric-te-def-metric? empty
| | | | | | +--rw isis:interface-auth-mode
| | | | | | | +--rw isis:interface-md5
| | | | | | | | +--rw isis:interface-auth-mode-md5-level1? empty
| | | | | | | | +--rw isis:interface-auth-mode-md5-level2? empty
| | | | | | +--rw isis:interface-auth-key* [interface-auth-key-level]
| | | | | | | +--rw isis:interface-auth-key-level enumeration
| | | | | | | +--rw isis:interface-auth-key-str? string
| | | | | | +--rw isis:interface-hello
| | | | | | | +--rw isis:interface-hello-padding
| | | | | | | | +--rw isis:interface-hello-padding-disable? empty
| | | | | | +--rw isis:interface-hello-interval* [interface-hello-interval-level]
| | | | | | | +--rw isis:interface-hello-interval-level enumeration
| | | | | | | | +--rw isis:interface-hello-interval-val? uint32
| | | | | | +--rw isis:interface-hello-multiplier* [interface-hello-multiplier-level]
| | | | | | | +--rw isis:interface-hello-multiplier-level enumeration
| | | | | | | | +--rw isis:interface-hello-multiplier-val? uint32
| | | | | | +--rw isis:circuit-type? enumeration
| | | | | | +--rw isis:interface-ipv6
| | | | | | | +--rw isis:interface-ipv6-metric* [interface-ipv6-metric-level]
| | | | | | | | +--rw isis:interface-ipv6-metric-level enumeration
| | | | | | | | +--rw isis:interface-ipv6-metric-val? uint32
| | | | | | +--rw isis:interface-metric* [interface-metric-level]
| | | | | | | +--rw isis:interface-metric-level enumeration
| | | | | | | | +--rw isis:interface-metric-val? uint32
| | | | | | +--rw isis:interface-point-to-point? empty
| | | | | | +--rw isis:interface-passive? empty
| | | | | | +--rw isis:interface-priority

```

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| | | | +--rw isis:interface-priority-level1? uint32
| | | | +--rw isis:interface-priority-level2? uint32
| | | | +--rw isis:interface-bfd
| | | | | +--rw isis:interface-bfd-enable? empty
| | | | +--rw isis:interface-ldp-sync? enumeration
| | +--rw vrrp:vrrp* [vrid version]
| | | +--rw vrrp:vrid vrid-type
| | | +--rw vrrp:version uint8
| | | +--rw vrrp:use-v2-checksum? empty
| | | +--rw vrrp:virtual-ip* [virtual-ipaddr]
| | | | +--rw vrrp:virtual-ipaddr inet:ipv4-address
| | | +--rw vrrp:track
| | | | +--rw vrrp:interface* [interface-type interface-name]
| | | | | +--rw vrrp:interface-type track-iftype
| | | | | +--rw vrrp:interface-name track-ifname
| | | | | +--rw vrrp:track-priority? uint8
| | | | +--rw vrrp:advertisement-interval? uint32
| | | | +--rw vrrp:enable? empty
| | | | +--rw vrrp:hold-time? uint32
| | | | +--rw vrrp:preempt-mode? empty
| | | | +--rw vrrp:arp
| | | | | +--rw vrrp:unicast-request
| | | | | | +--rw vrrp:receive? empty
| | | | +--rw vrrp:priority? uint8
| | | | +--rw vrrp:description? string
| | +--rw vrrp:vrrpe* [vrid]
| | | +--rw vrrp:vrid vrrpe-vrid-type
| | | +--rw vrrp:virtual-mac? enumeration
| | | +--rw vrrp:virtual-ip* [virtual-ipaddr]
| | | | +--rw vrrp:virtual-ipaddr inet:ipv4-address
| | | +--rw vrrp:track
| | | | +--rw vrrp:network* [network-address]
| | | | | +--rw vrrp:network-address union
| | | | | +--rw vrrp:network-priority? uint8
| | | | +--rw vrrp:interface* [interface-type interface-name]
| | | | | +--rw vrrp:interface-type track-iftype
| | | | | +--rw vrrp:interface-name track-ifname
| | | | | +--rw vrrp:track-priority? uint8
| | | | +--rw vrrp:advertisement-interval? uint32
| | | | +--rw vrrp:enable? empty
| | | | +--rw vrrp:hold-time? uint32
| | | | +--rw vrrp:preempt-mode? empty
| | | | +--rw vrrp:arp
| | | | | +--rw vrrp:unicast-request
| | | | | | +--rw vrrp:receive? empty
| | | | +--rw vrrp:priority? uint8
| | | | +--rw vrrp:description? string
| | | | +--rw vrrp:advertise-backup? empty
| | | | +--rw vrrp:vrrpe-garp-timer? uint32
| | | | +--rw vrrp:backup-advertisement-interval? uint32
| | | | +--rw vrrp:short-path-forwarding
| | | | | +--rw vrrp:basic? empty
| | | | | +--rw vrrp:revert-priority? uint8
| | | | +--rw vrrp:advertisement-interval-scale? uint32
| | +--rw 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 rpf:rpf
| | | +--rw rpf:mode? enumeration
+--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 isis:intf-router-isis
| | | +--rw isis:int-router-isis
| | | +--rw isis:interface-ip-router-isis? empty

```

```

| | +---rw ospf:interface-loopback-ospf-conf
| | | +---rw ospf:ospf1
| | | | +---rw ospf:area? ospf-area-id
| | | | +---rw ospf:auth-change-wait-time? common-def:time-interval-sec
| | | | +---rw ospf:authentication-key
| | | | | +---rw ospf:no-encrypt-auth-key-table
| | | | | | +---rw ospf:no-encrypt-auth-key? ospf-auth-psswd-string
| | | | +---rw ospf:hello-interval? common-def:time-interval-sec
| | | | +---rw ospf:dead-interval? common-def:time-interval-sec
| | | | +---rw ospf:retransmit-interval? common-def:time-interval-sec
| | | | +---rw ospf:transmit-delay? common-def:time-interval-sec
| | | | +---rw ospf:md5-authentication
| | | | | +---rw ospf:key-activation-wait-time? common-def:time-interval-sec
| | | | | +---rw ospf:key-table
| | | | | | +---rw ospf:key-id? uint32
| | | | | | +---rw ospf:md5-authentication-key? ospf-auth-psswd-string
| | | | +---rw ospf:cost? uint32
| | | | +---rw ospf:network? enumeration
| | | | +---rw ospf:intf-ldp-sync? enumeration
| | | | +---rw ospf:database-filter
| | | | | +---rw ospf:all-out? empty
| | | | | | +---rw ospf:all-external? database-filter-options
| | | | | | +---rw ospf:all-summary-external? database-filter-options
| | | | +---rw ospf:mtu-ignore? empty
| | | | +---rw ospf:active? empty
| | | | +---rw ospf:passive? empty
| | | | +---rw ospf:priority? uint32
| | | | +---rw ospf:bfd
| | | | | +---rw ospf:intf-bfd-enable? empty
| | +---rw pim:pim-intf-loopback-cont
| | | +---rw pim:pim-int-cmd
| | | | +---rw pim:pim-sparse? empty
| | | | +---rw pim:pim
| | | | | +---rw pim:dr-priority? uint32
| | | | | +---rw pim:ttl-threshold? uint32
| +---rw ipv6-config:ipv6
| | +---rw ipv6-config:ipv6-config
| | | +---rw ipv6-config:address
| | | | +---rw ipv6-config:use-link-local-only? empty
| | | | +---rw ipv6-config:link-local-config
| | | | | +---rw ipv6-config:link-local-address? inet:ipv6-address
| | | | | +---rw ipv6-config:link-local? empty
| | | | +---rw ipv6-config:ipv6-address* [address]
| | | | | +---rw ipv6-config:address union
| | | | | +---rw ipv6-config:eui64? empty
| | | | | +---rw ipv6-config:anycast? empty
| | +---rw isis:intf-ipv6-router-isis
| | | +---rw isis:int-ipv6-router-isis
| | | | +---rw isis:interface-ipv6-router-isis? empty
| +---rw ospfv3:interface-ospfv3-conf
| | +---rw ospfv3:interface-area? ospf:ospf-area-id
| | | +---rw ospfv3:active? empty
| | | +---rw ospfv3:passive? empty
| | | +---rw ospfv3: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: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 isis:intf-isis!
| | +---rw isis:interface-isis
| | | +---rw isis:auth-check
| | | | +---rw isis:auth-check-level1
| | | | | +---rw isis:interface-auth-check-level1-disable? empty

```

```

|         | +--rw isis:auth-check-level2
|         | | +--rw isis:interface-auth-check-level2-disable? empty
+--rw isis:interface-reverse-metric!
|   +--rw isis:rev-metric-common-attributes
|     +--rw isis:rev-metric-val? uint32
|     +--rw isis:rev-metric-whole-lan? empty
|     +--rw isis:rev-metric-te-def-metric? empty
+--rw isis:interface-auth-mode
|   +--rw isis:interface-md5
|     +--rw isis:interface-auth-mode-md5-level1? empty
|     +--rw isis:interface-auth-mode-md5-level2? empty
+--rw isis:interface-auth-key* [interface-auth-key-level]
|   +--rw isis:interface-auth-key-level enumeration
|   +--rw isis:interface-auth-key-str? string
+--rw isis:interface-hello
|   +--rw isis:interface-hello-padding
|     +--rw isis:interface-hello-padding-disable? empty
+--rw isis:interface-hello-interval* [interface-hello-interval-level]
|   +--rw isis:interface-hello-interval-level enumeration
|   +--rw isis:interface-hello-interval-val? uint32
+--rw isis:interface-hello-multiplier* [interface-hello-multiplier-level]
|   +--rw isis:interface-hello-multiplier-level enumeration
|   +--rw isis:interface-hello-multiplier-val? uint32
+--rw isis:circuit-type? enumeration
+--rw isis:interface-ipv6
|   +--rw isis:interface-ipv6-metric* [interface-ipv6-metric-level]
|     +--rw isis:interface-ipv6-metric-level enumeration
|     +--rw isis:interface-ipv6-metric-val? uint32
+--rw isis:interface-metric* [interface-metric-level]
|   +--rw isis:interface-metric-level enumeration
|   +--rw isis:interface-metric-val? uint32
+--rw isis:interface-point-to-point? empty
+--rw isis:interface-passive? empty
+--rw isis:interface-priority
|   +--rw isis:interface-priority-level1? uint32
|   +--rw isis:interface-priority-level2? uint32
+--rw isis:interface-bfd
|   +--rw isis:interface-bfd-enable? empty
+--rw isis:interface-ldp-sync? enumeration
+--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: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? bridge-domain:ui32-bridge-domain-range
|     | +--rw bgp:bd-range-remove? bridge-domain:ui32-bridge-domain-range
|   +--rw bgp:evpn-bd* [bd-number]
|     +--rw bgp:bd-number bridge-domain:bridge-domain-id-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:additional-paths
| | +--rw ip-policy:advertise-set
| | | +--rw ip-policy:all?       empty
| | | +--rw ip-policy:best?      uint32
| | | +--rw ip-policy:best-range
| | | | +--rw ip-policy:range-start?  uint32
| | | | +--rw ip-policy:range-end?    uint32
| | | +--rw ip-policy:group-best?   empty
+--rw ip-policy:interface
| | +--rw ip-policy:ethernet-rmm*   interface:interface-type
| | +--rw ip-policy:loopback*      loopback-intf:intf-loopback-port-type
| | +--rw ip-policy:ve*            interface:ve-type
+--rw ip-policy:ipv6
| | +--rw ip-policy:address
| | | +--rw ip-policy:ipv6-prefix-list-rmm?  ipv6-prefix-name-t
| | | +--rw ip-policy:ipv6-acl-rmm?          ipv6-access-list:ipv6-l3-acl-policy-name
| | +--rw ip-policy:next-hop
| | | +--rw ip-policy:ipv6-prefix-list-rmm-n?  ipv6-prefix-name-t
| | +--rw ip-policy:route-source
| | | +--rw ip-policy:ipv6-prefix-list-rmrs?   string
+--rw ip-policy:ip
| | +--rw ip-policy:address
| | | +--rw ip-policy:prefix-list-rmm?  ip-prefix-name-t
| | | +--rw ip-policy:acl-rmm?          ip-access-list:l3-acl-policy-name
| | +--rw ip-policy:next-hop
| | | +--rw ip-policy:prefix-list-rmm-n?  ip-prefix-name-t
| | +--rw ip-policy:route-source
| | | +--rw ip-policy:prefix-list-rmrs?   string
+--rw ip-policy:extcommunity
| | +--rw ip-policy:extcommunity-name?  ip-extcommunity-list-name-t
+--rw ip-policy:metric
| | +--rw ip-policy:metric-rmm?  metric-t
+--rw ip-policy:route-type
| | +--rw ip-policy:route-type-rmm?  match-route-type-t
+--rw ip-policy:tag
| | +--rw ip-policy:tag-rmm*  tag-t
+--rw ip-policy:as-path
| | +--rw ip-policy:as-path-access-list-name?  ip-as-path-name-t
+--rw ip-policy:community
| | +--rw ip-policy:community-access-list-name?  match-community-list-name-t
+--rw ip-policy:protocol
| | +--rw ip-policy:protocol-static-container
| | | +--rw ip-policy:static?  empty
| | +--rw ip-policy:bgp-protocol-container
| | | +--rw ip-policy:protocol-bgp?  empty
| | | +--rw ip-policy:bgp-route-type?  enumeration
| | +--rw ip-policy:isis-protocol-container
| | | +--rw ip-policy:protocol-isis?  empty
| | | +--rw ip-policy:match-isis-level?  enumeration
+--rw ip-policy:ospf-protocol-container

```

```

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

```



```
+++rw ip-policy:continue?    empty
+++rw ip-policy:continue-val? uint32
```

## History

Release version	History
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was modified to include container <i>show-firmware-dummy</i> , <i>license</i> , <i>linecard-management</i> , <i>bfd-holdover-interval</i> , and <i>redistribute-isis</i> .
17r.2.00	

# brocade-control-plane

Manages the control-plane level commands.

## Top-level container

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

## History

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

# brocade-crypto

Configures Crypto services for HTTPS certificate management.

## Top-level container

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

## History

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

# brocade-crypto-ext

Configures Crypto services for HTTPS certificate management.

## Top-level container

```

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

## History

Release version	History
16r.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

```

## History

Release version	History
17r.1.00	This YANG module was introduced.
17r.1.01	Removed leaf <i>log</i> .

# brocade-diagnostics

Provides a data model for managing diagnostic tests.

This data model enables or disables power-on self-test (POST) and actions to initiate the tests listed in [Table 4](#).

**TABLE 4** Diagnostic actions

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

## Top-level container

```

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

```

```

| | | | +---w short? empty
| | | | +---:(stop)
| | | | +---w stop? empty
| | +---ro output
| | +---ro result? string
+---x prbstest
| +---w input
| | +---w slot slotidtype {platform_chassis}?
| | +---w pattern? enumeration
| +---ro output
| +---ro result? string
+---x clearerror
| +---ro output
| +---ro result? string
+---x burninerrclear
| +---ro output
| +---ro result? string
+---x setcycle
| +---w input
| | +---w tbr_passes? uint32
| | +---w num_of_runs? uint32
| | +---w min_lb_mode? uint32
| | +---w plb_nframes? uint32
| +---ro output
| +---ro result? string
+---x setdbg
| +---w input
| +---w level? enumeration
+---rw post
| +---rw enable? empty
+---rw fos
+---x exec
+---w input
+---w (op)?
+---:(file)
| +---w file? string
+---:(cmd)
+---w cmd? string

```

## History

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

# brocade-dot1ag

Manages the connectivity fault management (CFM) Protocol.

## Top-level container

```

module: brocade-dot1ag
  +---rw cfm-config
    +---rw protocol
      +---rw cfm!
        +---rw y1731!
          | +---rw test-profile* [test-profile]
          | | +---rw test-profile      string
          | | +---rw profile-type?     y1731-profile-type
          | | +---rw test-profile-params
          | |   +---rw tx-interval?     y1731-profile-tx-interval
          | |   +---rw measurement-interval? uint32
          | |   +---rw cos?             uint8
          | |   +---rw tx-frame-count?   uint32
          | |   +---rw timeout?         uint8
          | |   +---rw start
          | |     | +---rw start-type?   schedule-type
          | |     | +---rw start-time?   time-in-hhmmss
          | |     | +---rw start-periodic? y1731-start-periodic
          | |     +---rw stop
          | |       | +---rw stop-type?   schedule-type
          | |       | +---rw stop-time?   time-in-hhmmss
          | |     +---rw slm-threshold
          | |       | +---rw forward
          | |         | | +---rw thr-fwd-avg-value? uint32
          | |         | | +---rw thr-fwd-max-value? uint32
          | |         | +---rw backward
          | |         |   +---rw thr-bwd-avg-value? uint32
          | |         |   +---rw thr-bwd-max-value? uint32
          | |       +---rw dmm-threshold
          | |         +---rw thr-avg-value? uint32
          | |         +---rw thr-max-value? uint32
          | +---rw action-profile-name* [action-profile-name]
          |   +---rw action-profile-name string
          |   +---rw event
          |     +---rw ccm-up
          |       | +---rw ccm-up-actions? action-profile-bitmap
          |     +---rw ccm-down
          |       | +---rw ccm-down-actions? action-profile-bitmap
          |     +---rw avg-threshold
          |       | +---rw avg-threshold-actions? action-profile-bitmap
          |     +---rw max-threshold
          |       | +---rw max-threshold-actions? action-profile-bitmap
          +---rw domain-name* [domain-name]
            +---rw domain-name      string
            +---rw domain-id        uint32
            +---rw domain-level     uint32
            +---rw ma-name* [ma-name]
              +---rw ma-name        string
              +---rw ma-id          uint32
              +---rw (vid-type)?
              | +---: (vlan)
              | | +---rw ma-vlan-vid? uint32
              | +---: (bridgeDomain)
              |   +---rw ma-bd-vid?  uint32
              +---rw ma-priority?   uint32
              +---rw cfm-ma-sub-commands
                +---rw ccm-interval? ccm-interval-type
                +---rw mip-policy?   mip-policy-type
                +---rw maid-format?  maid-format-type
                +---rw mep* [mep-id]
                  +---rw mep-id      uint32
                  +---rw mep-down-up mep-down-up-type

```



```

+--rw vlan?                uint32
+--rw inner-vlan?          uint32
+--rw mep-intf-type?       dot1ag-interface-type
+--rw mep-intf-name?      dot1ag-interface-name
+--rw cfm-mep-sub-commands
  +--rw tlv-type?          ccm-tlv-type
  +--rw remote-mep* [remote-mep]
    +--rw remote-mep                uint32
    +--rw rmep-test-profile* [rmep-test-profile mode]
      | +--rw rmep-test-profile      string
      | +--rw mode                    y1731-profile-mode
    +--rw action-profile-association? string

```

## History

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

# brocade-entity

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

## RPCs

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

## History

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

# brocade-event-handler

Provides event handler-related information.

## Top-level container

```

module: brocade-event-handler
  +--rw event-handler
    +--rw event-handler-list* [name]
      | +--rw name          common-def:name-string32
      | +--rw 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
    | +---w input
    |   +---w 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
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was updated to include container <i>name</i> and <i>leaf</i> ; container <i>raslog</i> .

# 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 the table below.

**TABLE 5** Custom actions for firmware version management

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

## Top-level container

```

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

```

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

```

```

| | | | | +---w noreboot?    empty
| | | | | +---w use-vrf?   common-def:vrf-name
| | | | | +---ro output
| | | | |   +---ro fwdl-tid?    int32
| | | | |     +---ro fwdl-status?  int32
| | | | |       +---ro fwdl-msg?    string
| | | | | +---x scp
| | | | | | +---w input
| | | | | | | +---w user        string
| | | | | | | +---w password?   string
| | | | | | | +---w host        string
| | | | | | | +---w directory   string
| | | | | | | +---w file?       string
| | | | | | | +---w manual?     empty
| | | | | | | +---w noreboot?   empty
| | | | | | | +---w use-vrf?   common-def:vrf-name
| | | | | | +---ro output
| | | | | |   +---ro fwdl-tid?    int32
| | | | | |     +---ro fwdl-status?  int32
| | | | | |       +---ro fwdl-msg?    string
| | | | | +---x sftp
| | | | | | +---w input
| | | | | | | +---w user        string
| | | | | | | +---w password?   string
| | | | | | | +---w host        string
| | | | | | | +---w directory   string
| | | | | | | +---w file?       string
| | | | | | | +---w manual?     empty
| | | | | | | +---w noreboot?   empty
| | | | | | | +---w use-vrf?   common-def:vrf-name
| | | | | | +---ro output
| | | | | |   +---ro fwdl-tid?    int32
| | | | | |     +---ro fwdl-status?  int32
| | | | | |       +---ro fwdl-msg?    string
| | | | | +---x tftp
| | | | | | +---w input
| | | | | | | +---w host        string
| | | | | | | +---w directory   string
| | | | | | | +---w file?       string
| | | | | | | +---w manual?     empty
| | | | | | | +---w noreboot?   empty
| | | | | | +---ro output
| | | | | |   +---ro fwdl-tid?    int32
| | | | | |     +---ro fwdl-status?  int32
| | | | | |       +---ro fwdl-msg?    string
| | | | | +---x usb
| | | | | | +---w input
| | | | | | | +---w directory   string
| | | | | | | +---w manual?     empty
| | | | | | | +---w noreboot?   empty
| | | | | | +---ro output
| | | | | |   +---ro fwdl-tid?    int32
| | | | | |     +---ro fwdl-status?  int32
| | | | | |       +---ro fwdl-msg?    string
| | | | | +---rw fullinstall
| | | | | +---x ftp
| | | | | | +---w input
| | | | | | | +---w user        string
| | | | | | | +---w password?   string
| | | | | | | +---w host        string
| | | | | | | +---w directory   string
| | | | | | | +---w file?       string
| | | | | | | +---w manual?     empty
| | | | | | | +---w use-vrf?   common-def:vrf-name
| | | | | | +---ro output
| | | | | |   +---ro fwdl-tid?    int32
| | | | | |     +---ro fwdl-status?  int32
| | | | | |       +---ro fwdl-msg?    string
| | | | | +---x scp
| | | | | | +---w input
| | | | | | | +---w user        string
| | | | | | | +---w password?   string

```

```

| | | +---w host      string
| | | +---w directory string
| | | +---w file?    string
| | | +---w manual?  empty
| | | +---w use-vrf? common-def:vrf-name
| | | +---ro output
| | |   +---ro fwdl-tid?    int32
| | |   +---ro fwdl-status? int32
| | |   +---ro fwdl-msg?    string
| | +---x sftp
| | | +---w input
| | | | +---w user      string
| | | | +---w password? string
| | | | +---w host      string
| | | | +---w directory string
| | | | +---w file?    string
| | | | +---w manual?  empty
| | | | +---w use-vrf?  common-def:vrf-name
| | | +---ro output
| | |   +---ro fwdl-tid?    int32
| | |   +---ro fwdl-status? int32
| | |   +---ro fwdl-msg?    string
| | +---x tftp
| | | +---w input
| | | | +---w host      string
| | | | +---w directory string
| | | | +---w file?    string
| | | | +---w manual?  empty
| | | +---ro output
| | |   +---ro fwdl-tid?    int32
| | |   +---ro fwdl-status? int32
| | |   +---ro fwdl-msg?    string
| | +---x usb
| | | +---w input
| | | | +---w directory string
| | | | +---w manual?  empty
| | | +---ro output
| | |   +---ro fwdl-tid?    int32
| | |   +---ro fwdl-status? int32
| | |   +---ro fwdl-msg?    string
| +---rw install
| | +---x ftp
| | | +---w input
| | | | +---w user      string
| | | | +---w password? string
| | | | +---w host      string
| | | | +---w directory string
| | | | +---w file?    string
| | | | +---w manual?  empty
| | | | +---w use-vrf?  common-def:vrf-name
| | | +---ro output
| | |   +---ro fwdl-tid?    int32
| | |   +---ro fwdl-status? int32
| | |   +---ro fwdl-msg?    string
| | +---x scp
| | | +---w input
| | | | +---w user      string
| | | | +---w password? string
| | | | +---w host      string
| | | | +---w directory string
| | | | +---w file?    string
| | | | +---w manual?  empty
| | | | +---w use-vrf?  common-def:vrf-name
| | | +---ro output
| | |   +---ro fwdl-tid?    int32
| | |   +---ro fwdl-status? int32
| | |   +---ro fwdl-msg?    string
| +---x commit
| | +---ro output
| |   +---ro result?  string
| +---x restore
| | +---ro output

```



```

| |     +---ro result?   string
| +---x sync
| |     +---ro output
| |     +---ro result?   string
| +---x activate
| |     +---ro output
| |     +---ro overall-status?   int32
| |     +---ro overall-error-msg? string
| |     +---ro status?         int32
| +---x recover
| |     +---ro output
| |     +---ro result?   string
| +---rw auto-sync
| |     +---x enable
| | |     +---ro output
| | |     +---ro result?   string
| | +---x disable
| |     +---ro output
| |     +---ro result?   string
| +---rw peripheral-update-option
| |     +---x peripheral-update-cpld
| |     +---x peripheral-update-fpga
| |     +---rw peripheral-update-bmc-option
| | |     +---x peripheral-update-bmc-all
| | |     +---x peripheral-update-bmc-boot
| | |     +---x peripheral-update-bmc-application
+---rw write
| |     +---x erase
| | |     +---w input
| | | |     +---w erase_all?   empty
| | |     +---ro output
| | | |     +---ro fwdl-tid?   int32
| | | |     +---ro fwdl-status? int32
| | | |     +---ro fwdl-msg?   string
+---rw reboot
| |     +---x fastboot
+---rw dhcp
| |     +---rw ztp
| | |     +---x log
| | | |     +---ro output
| | | | |     +---ro dad-cmd-msg?   string
| | |     +---x cancel
| | | |     +---ro output
| | | | |     +---ro dad-cmd-msg?   string

```

## RPCs

```

+---x fwdl-status
| |     +---w input
| | |     +---w 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

```

```

+---w input
| +---w (protocol-type)?
| | +---:(scp-protocol)
| | | +---w scp
| | |   +---w user      string
| | |   +---w password? string
| | |   +---w host      string
| | |   +---w directory string
| | |   +---w file?     string
| | +---:(ftp-protocol)
| | | +---w ftp
| | |   +---w user      string
| | |   +---w password? string
| | |   +---w host      string
| | |   +---w directory string
| | |   +---w file?     string
| | +---:(sftp-protocol)
| | | +---w sftp
| | |   +---w user      string
| | |   +---w password? string
| | |   +---w host      string
| | |   +---w directory string
| | |   +---w file?     string
| | |   +---w port?     int32
| | |   +---w host-key-check? empty
| | +---:(usb-protocol)
| | | +---w usb
| | |   +---w directory string
| +---w coldboot? empty
+---ro output
+---ro fwdl-cmd-status? int32
+---ro fwdl-cmd-msg?   string
+---ro cluster-output*
+---ro fwdl-status?   int32
+---ro fwdl-msg?     string

```

## History

Release version	History
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was updated to include container <i>show-firmware-option</i> , <i>bfd</i> , <i>evpn global-bfd</i> , <i>ospfv3 pim</i> , <i>redistribute-isis</i> , <i>router-lsa</i> , <i>rpf</i> , <i>vrf</i> , and <i>leaf sensor-info</i> .

# brocade-firmware-ext

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

## RPCs

Displays 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
16r.1.00	This YANG module was introduced.

# brocade-ha

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

## Top-level container

```

module: brocade-ha
  +--rw ha
  |   +--rw process-restart
  |   |   +--rw mpls?      empty
  |   |   +--rw bgp?      empty
  |   |   +--rw isis?     empty
  |   |   +--rw ospfv2?   empty
  |   |   +--rw ospfv3?   empty
  |   +--rw ha-action
  |   |   +--rw ha
  |   |   |   +---x enable
  |   |   |   |   +---w input
  |   |   |   |   |   +---w force?  empty
  |   |   |   |   +---x disable
  |   |   |   |   |   +---w input
  |   |   |   |   |   |   +---w force?  empty
  |   |   |   |   +---x dump
  |   |   |   |   +---x chassisreboot
  |   |   |   |   +---x failover
  |   |   |   |   |   +---w input
  |   |   |   |   |   |   +---w force?  empty
  |   |   |   |   +--rw sync
  |   |   |   |   |   +---x start
  |   |   |   |   |   |   +---ro output
  |   |   |   |   |   |   |   +---ro result?  string
  |   |   |   |   |   +---x stop
  |   |   |   |   |   |   +---ro output
  |   |   |   |   |   |   |   +---ro result?  string
  |   |   +--rw system-ha
  |   |   |   +---x reload
  |   |   |   |   +---w input
  |   |   |   |   |   +---w system?      empty
  |   |   |   |   |   +---w powercycle?  empty
  |   |   |   |   |   +---w standby?    empty
  |   |   |   |   +---ro output
  |   |   |   |   |   +---ro status-string?  string

```

## RPCs

```

+---x reload
  +---w input
  |   +---w system?      empty
  |   +---w standby?    empty

```

## History

Release version	History
16r.1.00	This YANG module was introduced .
17r.1.00	This YANG module was updated to include leaf <i>bgp</i> , <i>isis</i> , <i>mpls</i> , <i>ospfv2</i> , and <i>ospfv3</i> .

# 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 insight
      |   +--rw insmode?  empty
    +--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 cam-share
        | | +--rw l2-ingress-acl?    empty
        | | +--rw l3-v4-ingress-acl? empty
        | | +--rw l3-v6-ingress-acl? empty
        | | +--rw l3-v4-pbr?        empty
        | | +--rw l3-v6-pbr?        empty
        | +--rw limit
        |   +--rw l2l3v4-app  uint32
        |   +--rw v6-app      uint32
        |   +--rw flex-acl    uint32
      +--rw route
        | +--rw predefined
        | | +--rw route_profiletype? route-profile-subtype
        | | +--rw route_parameter
        | |   +--rw hwopt_enable?    hwopt-subtype
        | |   +--rw v4fibcomp_enable? v4fibcomp-subtype
        | |   +--rw v6fibcomp_enable? v6fibcomp-subtype
      +--rw lag
        | +--rw predefined
        | | +--rw lag_profiletype? lag-profile-subtype
      +--rw counters
        +--rw predefined
          +--rw counters_profiletype? counters-profile-subtype
  
```

## History

Release version	History
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was updated to include container <i>cage-mode</i> , <i>insight</i> , and <i>insmode</i> .

# 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
  
```

## External augmentations

```

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

Release version	History
16r.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
  +---w input
  |   +---w config-http-app-url
  |       +---w url          string
  |       +---w op-type      uint32
  +--ro output
      +--ro status-code      int32
      +--ro status-string?   string
```

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

# brocade-igmp-snooping

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

## Top-level container

```

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

## External augmentations

```

module: brocade-interface
  +--rw igmp:igmp-phy-intf-cfg
    | | | | +--rw igmp:igmp
    | | | | +--rw igmp:igmpl3-last-member-query-interval? igmp-snooping:lmqt-type
    | | | | +--rw igmp:igmpl3-query-interval? igmp-snooping:qi-type
    | | | | +--rw igmp:igmpl3-query-max-response-time? igmp-snooping: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
16r.1.00	This YANG module was introduced.



# brocade-interface

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

The following table lists the Ethernet interfaces and other entities modeled by high-level nodes in this management module.

**TABLE 6** Entities managed through brocade-interface module

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

This module provides the mechanism to support the following actions:

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

## Top-level container

```

module: brocade-interface
  +--rw interface
    | +--rw ethernet* [name]
    | | +--rw name                               interface-type
    | | +--rw long-distance-isl?                 enumeration
    | | +--rw loopback?                          enumeration
    | | +--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 route-only? empty
    | | +--rw tag-type?   tpid-type
    | | +--rw switchport-basic
    | | | +--rw basic?    empty
    | | +--rw switchport
    | | | +--rw mode
    | | | | +--rw vlan-mode?  l2-mode-type
    | | | +--rw port-security!
    | | | | +--rw port-sec-max?      uint32
    | | | | +--rw port-sec-violation? port-sec-violation
    | | | | +--rw port-security-mac-address* [mac-address port-sec-vlan]
    | | | | | +--rw mac-address      mac-address-type
    | | | | | +--rw port-sec-vlan    vlan-type
    | | | | +--rw sticky
    | | | | | +--rw sticky-flag?    empty
    | | | | | +--rw port-security-mac-address* [mac-address port-sec-vlan]
    | | | | | +--rw mac-address      mac-address-type
    | | | | | +--rw port-sec-vlan    vlan-type
    | | | | +--rw shutdown-time?    uint32
    | | | +--rw access
    | | | | +--rw accessvlan?      vlan-type

```

```

| | | | +--rw rspan-access
| | | | | +--rw rspan-access-vlan?  vlan-type
| | | | x--rw access-mac-vlan-classification
| | | | | +--rw access
| | | | | | +--rw vlan* [access-vlan-id access-mac-address]
| | | | | | | +--rw access-vlan-id      vlan-type
| | | | | | | +--rw access-mac-address  mac-address-type
| | | | x--rw access-mac-group-vlan-classification
| | | | | +--rw access
| | | | | | +--rw vlan* [access-vlan-id access-mac-group]
| | | | | | | +--rw access-vlan-id      vlan-type
| | | | | | | +--rw access-mac-group  mac-group-id-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
| | | | x--rw trunk-rspan-vlan-classification
| | | | | +--rw rspan-vlan
| | | | | | +--rw add* [trunk-vlan-id trunk-ctag-id]
| | | | | | | +--rw trunk-vlan-id  non-dot1q-vlan-type
| | | | | | | +--rw trunk-ctag-id  dot1q-vlan-type
| | | | | | | +--rw remove* [trunk-vlan-id trunk-ctag-id]
| | | | | | | +--rw trunk-vlan-id  non-dot1q-vlan-type
| | | | | | | +--rw trunk-ctag-id  dot1q-vlan-type
| | | | x--rw trunk-vlan-classification
| | | | | +--rw allowed
| | | | | | +--rw vlan
| | | | | | | +--rw add* [trunk-vlan-id]
| | | | | | | | +--rw trunk-vlan-id  non-dot1q-vlan-type
| | | | | | | | +--rw trunk-ctag-range? ui32-ctag-range
| | | | | | | +--rw remove* [trunk-vlan-id]
| | | | | | | | +--rw trunk-vlan-id  non-dot1q-vlan-type
| | | | | | | | +--rw trunk-ctag-range? ui32-ctag-range
| | | | x--rw default-vlan-config
| | | | | +--rw default-transparent-vlan? non-dot1q-vlan-type
| | | | +--rw tag!
| | | | | +--rw native-vlan?  empty
| | | | +--rw native-vlan-classification
| | | | | +--rw native-vlan-id?  native-vlan-type
| | | | | x--rw native-vlan-ctag-id? dot1q-vlan-type
| | | | x--rw native-vlan-xtagged-config
| | | | | +--rw native-vlan-id-xtagged?      vlan-type
| | | | | | +--rw native-vlan-ctag-id-xtagged? dot1q-vlan-type
| | | | | | +--rw native-vlan-egress-type-xtagged? enumeration
| | | | x--rw native-vlan-untagged-config
| | | | | +--rw native-vlan-id-untagged?  vlan-type
| | | | x--rw access-mac-rspan-vlan-classification
| | | | | +--rw access
| | | | | | +--rw vlan* [access-vlan-id access-mac-address]
| | | | | | | +--rw access-vlan-id      vlan-type
| | | | | | | +--rw access-mac-address  mac-address-type
| | | | x--rw access-mac-group-rspan-vlan-classification
| | | | | +--rw access
| | | | | | +--rw vlan* [access-vlan-id access-mac-group]
| | | | | | | +--rw access-vlan-id      vlan-type
| | | | | | | +--rw access-mac-group  mac-group-id-type
| | | | +--rw ip
| | | | | +--rw dai:arp-node-config
| | | | | | +--rw dai:arp
| | | | | | | +--rw dai:inspection
| | | | | | | +--rw dai:trust?  empty

```

```

| | | | |         +---rw dai:filter
| | | | |         +---rw dai:acl-name?    dai-acl-policy-name
| | | | | +---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
| | | | | | | +---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 dhcp:interface-eth-dhcp-conf
| | | | | | +---rw dhcp:dhcp
| | | | | | | +---rw dhcp:relay
| | | | | | | | +---rw dhcp:servers* [relay-ip-addr server-vrf-name]
| | | | | | | | | +---rw dhcp:relay-ip-addr    dhcp-ipv4-address
| | | | | | | | | +---rw dhcp:server-vrf-name  common-def:vrf-name
| | | | | | | | +---rw dhcp:gateway?        dhcp-ipv4-address
| | | | | +---rw icmp:icmp
| | | | | | +---rw icmp:rate-limiting?    uint32
| | | | | | +---rw icmp:redirect?        empty
| | | | | +---rw igmp:igmp-phy-intf-cfg
| | | | | | +---rw igmp:igmp
| | | | | | | +---rw igmp:igmpl3-last-member-query-interval?  igmp-snooping:lmqt-type
| | | | | | | +---rw igmp:igmpl3-query-interval?              igmp-snooping:qi-type
| | | | | | | +---rw igmp:igmpl3-query-max-response-time?    igmp-snooping: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
| | | | | +---rw isis:intf-router-isis
| | | | | | +---rw isis:int-router-isis
| | | | | | | +---rw isis:interface-ip-router-isis?  empty
| | | | | +---rw ospf:interface-eth-ospf-conf
| | | | | | +---rw ospf:ospf1
| | | | | | | +---rw ospf:area?                ospf-area-id
| | | | | | | +---rw ospf:auth-change-wait-time?  common-def:time-interval-sec
| | | | | | | +---rw ospf:authentication-key
| | | | | | | | +---rw ospf:no-encrypt-auth-key-table
| | | | | | | | | +---rw ospf:no-encrypt-auth-key?  ospf-auth-psswd-string
| | | | | | | +---rw ospf:hello-interval?        common-def:time-interval-sec
| | | | | | | +---rw ospf:dead-interval?         common-def:time-interval-sec
| | | | | | | +---rw ospf:retransmit-interval?   common-def:time-interval-sec
| | | | | | | +---rw ospf:transmit-delay?        common-def:time-interval-sec
| | | | | | | +---rw ospf:md5-authentication
| | | | | | | | +---rw ospf:key-activation-wait-time?  common-def:time-interval-sec
| | | | | | | | +---rw ospf:key-table
| | | | | | | | | +---rw ospf:key-id?                uint32
| | | | | | | | | +---rw ospf:md5-authentication-key?  ospf-auth-psswd-string
| | | | | | | +---rw ospf:cost?                  uint32
| | | | | | | +---rw ospf:network?              enumeration
| | | | | | | +---rw ospf:intf-ldp-sync?        enumeration
| | | | | | | +---rw ospf:database-filter
| | | | | | | | +---rw ospf:all-out?              empty
| | | | | | | | | +---rw ospf:all-external?      database-filter-options
| | | | | | | | | +---rw ospf:all-summary-external?  database-filter-options
| | | | | | | +---rw ospf:mtu-ignore?            empty
| | | | | | | +---rw ospf:active?                empty
| | | | | | | +---rw ospf:passive?              empty
| | | | | | | +---rw ospf:priority?            uint32
| | | | | | | +---rw ospf:bfd
| | | | | | | | +---rw ospf:intf-bfd-enable?    empty
| | | | | +---rw pim:pim-intf-phy-cont
| | | | | | +---rw pim:pim-int-cmd
| | | | | | | +---rw pim:pim-sparse?    empty
| | | | | +---rw pim:pim

```

```

| | | +--rw pim:dr-priority? uint32
| | | +--rw pim:t1l-threshold? uint32
| | +--rw vrf
| | | +--rw forwarding? common-def:vrf-name
| +--rw ipv6
| | +--rw raguard? empty
| | +--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-iftypel
| | | | | +--rw dhcpv6:interface-name? dhcpv6-ifname
| +--rw icmp:icmpv6
| | +--rw icmp:rate-limiting? uint32
| | +--rw icmp:redirect? empty
| +--rw ipv6-access-list:access-group* [ipv6-access-list ip-direction]
| | +--rw ipv6-access-list:ipv6-access-list ipv6-l3-acl-policy-name
| | +--rw ipv6-access-list:ip-direction enumeration
| | +--rw ipv6-access-list:traffic-type? enumeration
| +--rw ip-policy:policy
| | +--rw ip-policy:route-map
| | | +--rw ip-policy:ipv6-route-map-name? common-def:name-string63
| +--rw ipv6-nd-ra:ipv6-nd-ra
| | +--rw ipv6-nd-ra:ipv6-intf-cmds
| | | +--rw ipv6-nd-ra:vrrp-suppress-interface-ra? empty
| | | +--rw ipv6-nd-ra:nd
| | | | +--rw ipv6-nd-ra:managed-config-flag? empty
| | | | +--rw ipv6-nd-ra:other-config-flag? empty
| | | | +--rw ipv6-nd-ra:broadcast-mac-trap? empty
| | | | +--rw ipv6-nd-ra:ra-lifetime? common-def:time-interval-sec
| | | | +--rw ipv6-nd-ra:reachable-time? common-def:time-interval-msec
| | | | +--rw ipv6-nd-ra:mtu? uint32
| | | | +--rw ipv6-nd-ra:retrans-timer? common-def:time-interval-msec
| | | | +--rw ipv6-nd-ra:hoplimit? uint32
| | | | +--rw ipv6-nd-ra:ns-interval? common-def:time-interval-sec
| | | | +--rw ipv6-nd-ra:suppress-ra
| | | | | +--rw ipv6-nd-ra:suppress-ra-flag? empty
| | | | | +--rw ipv6-nd-ra:suppress-ra-mtu? empty
| | | | | +--rw ipv6-nd-ra:suppress-ra-all? empty
| | | | +--rw ipv6-nd-ra:ra-interval
| | | | | +--rw ipv6-nd-ra:max-interval? common-def:time-interval-sec
| | | | | +--rw ipv6-nd-ra:min? common-def:time-interval-sec
| | | | +--rw ipv6-nd-ra:send-ra? empty
| | | | +--rw ipv6-nd-ra:router-preference
| | | | | +--rw ipv6-nd-ra:router-pref-high? empty
| | | | | +--rw ipv6-nd-ra:router-pref-low? empty
| | | | | +--rw ipv6-nd-ra:router-pref-medium? empty
| | | | +--rw ipv6-nd-ra:ra-dns-server* [dns-server-prefix]
| | | | | +--rw ipv6-nd-ra:dns-server-prefix inet:ipv6-address
| | | | | +--rw ipv6-nd-ra:dns-server-lifetime-multiplier? uint32
| | | | +--rw ipv6-nd-ra:ra-domain-name* [domain-name-string]
| | | | | +--rw ipv6-nd-ra:domain-name-string string
| | | | | +--rw ipv6-nd-ra:domain-name-lifetime-multiplier? uint32
| | | | +--rw ipv6-nd-ra:address
| | | | | +--rw ipv6-nd-ra:suppressing-address* [suppress-ipv6-address]

```



```

| | | +--rw 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 track
| | | +--rw track_enable? empty
| | | +--rw min-link? uint32
| | | +--rw interface* [track-interface-type track-interface-name]
| | | | +--rw track-interface-type enumeration
| | | | +--rw track-interface-name string
| | | +--rw remove
| | | | +--rw remove-all-track-interfaces? empty
| +--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 vepa
| | +--rw vepa-enable? empty
| +--rw edge-loop-detection-native
| | +--rw loop-detection-native? empty
| +--rw edge-loop-detection
| | +--rw eldprio? uint32
| | +--rw eldshutdown-disable? empty
| | +--rw eldvlan? ui32-vlan-range
| +--rw priority-tag-enable? empty
| +--rw strip-header? enumeration
| +--rw tunable-optics
| | +--rw sfpp
| | | +--rw channel? tunable-optics-sfpp-channel-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 lif:logical-interface
| | +--rw lif:ethernet* [instance-id]
| | | +--rw lif:instance-id lif-interface-type
| | | +--rw lif:shutdown? empty
| | | +--rw lif:name? string
| | | +--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-tagged-vlan-id? uint32
| +--rw dle:delay-link-event
| | +--rw dle:delay-link
| | | +--rw dle:delay-link-event-entry? uint32
| | | +--rw dle:delay-link-event-type? enumeration
| +--rw dot1x:dot1x
| | +--rw dot1x:authentication? empty
| | +--rw dot1x:port-control? enumeration
| | +--rw dot1x:protocol-version? uint32
| | +--rw dot1x:quiet-period? uint32
| | +--rw dot1x:reauthMax? uint32
| | +--rw dot1x:max-req? uint32

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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 dot3ah:link-oam-interface
| | | |   +--rw dot3ah:enable?              enumeration
| | | |   +--rw dot3ah:allow-loopback?     empty
| | | |   +--rw dot3ah:remote-failure
| | | | |   +--rw dot3ah:dying-gasp
| | | | | |   +--rw dot3ah:dying-gasp-action?  action-type
| | | | | +--rw dot3ah:link-fault
| | | | | |   +--rw dot3ah:link-fault-action?  action-type
| | | | | +--rw dot3ah:critical-event
| | | | | |   +--rw dot3ah:critical-event-action?  action-type
| | | +--rw ip-access-list:ip-acl-interface
| | | |   +--rw ip-access-list:ip
| | | | |   +--rw ip-access-list:access-group* [ip-access-list ip-direction]
| | | | |   +--rw ip-access-list:ip-access-list  l3-acl-policy-name
| | | | |   +--rw ip-access-list:ip-direction  enumeration
| | | | |   +--rw ip-access-list:traffic-type?  enumeration
| | | +--rw ip-policy:ip-pbr-interface
| | | |   +--rw ip-policy:ip
| | | | |   +--rw ip-policy:policy
| | | | | |   +--rw ip-policy:route-map
| | | | | | |   +--rw ip-policy:route-map-name?  common-def:name-string63
| | | +--rw isis:interface-eth-isis-conf
| | | |   +--rw isis:intf-isis!
| | | | |   +--rw isis:interface-isis
| | | | | |   +--rw isis:auth-check
| | | | | | |   +--rw isis:auth-check-level1
| | | | | | | |   +--rw isis:interface-auth-check-level1-disable?  empty
| | | | | | | |   +--rw isis:auth-check-level2
| | | | | | | | |   +--rw isis:interface-auth-check-level2-disable?  empty
| | | | | +--rw isis:interface-reverse-metric!
| | | | | |   +--rw isis:rev-metric-common-attributes
| | | | | | |   +--rw isis:rev-metric-val?          uint32
| | | | | | |   +--rw isis:rev-metric-whole-lan?    empty
| | | | | | |   +--rw isis:rev-metric-te-def-metric?  empty
| | | | | +--rw isis:interface-auth-mode
| | | | | |   +--rw isis:interface-md5
| | | | | | |   +--rw isis:interface-auth-mode-md5-level1?  empty
| | | | | | |   +--rw isis:interface-auth-mode-md5-level2?  empty
| | | | | +--rw isis:interface-auth-key* [interface-auth-key-level]
| | | | | |   +--rw isis:interface-auth-key-level  enumeration
| | | | | |   +--rw isis:interface-auth-key-str?   string
| | | | | +--rw isis:interface-hello
| | | | | |   +--rw isis:interface-hello-padding
| | | | | | |   +--rw isis:interface-hello-padding-disable?  empty
| | | | | +--rw isis:interface-hello-interval* [interface-hello-interval-level]
| | | | | |   +--rw isis:interface-hello-interval-level  enumeration
| | | | | |   +--rw isis:interface-hello-interval-val?   uint32
| | | | | +--rw isis:interface-hello-multiplier* [interface-hello-multiplier-level]
| | | | | |   +--rw isis:interface-hello-multiplier-level  enumeration
| | | | | |   +--rw isis:interface-hello-multiplier-val?   uint32
| | | | | +--rw isis:circuit-type?          enumeration
| | | | +--rw isis:interface-ipv6
| | | | |   +--rw isis:interface-ipv6-metric* [interface-ipv6-metric-level]
| | | | | |   +--rw isis:interface-ipv6-metric-level  enumeration
| | | | | |   +--rw isis:interface-ipv6-metric-val?   uint32
| | | | | +--rw isis:interface-metric* [interface-metric-level]
| | | | | |   +--rw isis:interface-metric-level  enumeration
| | | | | |   +--rw isis:interface-metric-val?   uint32
| | | | | +--rw isis:interface-point-to-point?  empty
| | | | | +--rw isis:interface-passive?         empty
| | | | | +--rw isis:interface-priority
| | | | | |   +--rw isis:interface-priority-level1?  uint32
| | | | | |   +--rw isis:interface-priority-level2?  uint32
| | | | | +--rw isis:interface-bfd
| | | | | |   +--rw isis:interface-bfd-enable?     empty
| | | | | +--rw isis:interface-ldp-sync?      enumeration

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| | +--rw lacp-pdu-forward:lacp-pdu-forward
| | | +--rw lacp-pdu-forward:enable? empty
| | +--rw lacp:lacp
| | | +--rw lacp:timeout? enumeration
| | | +--rw lacp:std_port-priority? uint32
| | | +--rw lacp:default-up? empty
| | +--rw lfs:link-fault-signaling
| | | +--rw lfs:rx? enumeration
| | | +--rw lfs:tx? enumeration
| | +--rw lldp:lldp
| | | +--rw lldp:cee
| | | | +--rw lldp:lldp-cee-on-off? enumeration
| | | +--rw lldp:disable? empty
| | | +--rw lldp:profile? string
| | +--rw vrrp:vrrp* [vrid version]
| | | +--rw vrrp:vrid vrid-type
| | | +--rw vrrp:version uint8
| | | +--rw vrrp:use-v2-checksum? empty
| | | +--rw vrrp:virtual-ip* [virtual-ipaddr]
| | | | +--rw vrrp:virtual-ipaddr inet:ipv4-address
| | | +--rw vrrp:track
| | | | +--rw vrrp:interface* [interface-type interface-name]
| | | | | +--rw vrrp:interface-type track-iftype
| | | | | +--rw vrrp:interface-name track-ifname
| | | | | +--rw vrrp:track-priority? uint8
| | | +--rw vrrp:advertisement-interval? uint32
| | | +--rw vrrp:enable? empty
| | | +--rw vrrp:hold-time? uint32
| | | +--rw vrrp:preempt-mode? empty
| | | +--rw vrrp:arp
| | | | +--rw vrrp:unicast-request
| | | | | +--rw vrrp:receive? empty
| | | +--rw vrrp:priority? uint8
| | | +--rw vrrp:description? string
| | +--rw openflow:openflow
| | | +--rw openflow:protected-vlans
| | | | +--rw openflow:protected-vlan-add? ui32-vlan-range
| | | | +--rw openflow:protected-vlan-remove? ui32-vlan-range
| | | +--rw openflow:enableInterfaceLevel
| | | | +--rw openflow:modeType? enumeration
| | | | +--rw openflow:hybrid-mode? empty
| | +--rw pld:link-error-disable
| | | +--rw pld:link-error-disable-entry? uint32
| | | +--rw pld:sampling-time-in-sec? uint32
| | | +--rw pld:wait-time-in-sec? uint32
| | +--rw qos-mls:storm-control
| | | +--rw qos-mls:ingress* [protocol-type]
| | | | +--rw qos-mls:protocol-type enumeration
| | | | +--rw qos-mls:rate-format? enumeration
| | | | +--rw qos-mls:rate-bps? rate-limit-bps-type
| | | | +--rw qos-mls:rate-percent? rate-limit-percentage-type
| | | | +--rw qos-mls:bum-action? enumeration
| | +--rw qos-mls:qos
| | | +--rw qos-mls:default-cos? cos-id-type
| | | +--rw qos-mls:default-tc? traffic-class-id-type
| | | +--rw qos-mls:trust
| | | | +--rw qos-mls:trust-cos? empty
| | | | +--rw qos-mls:trust-dscp? empty
| | | +--rw qos-mls:cos-mutation? map-name-type
| | | +--rw qos-mls:traffic-class-cos? map-name-type
| | | +--rw qos-mls:cos-traffic-class? map-name-type
| | | +--rw qos-mls:dscp-mutation? map-name-type
| | | +--rw qos-mls:dscp-traffic-class? map-name-type
| | | +--rw qos-mls:dscp-cos? map-name-type
| | | +--rw qos-mls:random-detect
| | | | +--rw qos-mls:traffic-class* [red-tc-value red-dp-value]
| | | | | +--rw qos-mls:red-tc-value traffic-class-id-type
| | | | | +--rw qos-mls:red-dp-value drop-precedence-id-type
| | | | | +--rw qos-mls:red-profile-id? red-profile-id-type
| | | +--rw qos-mls:drop-monitor
| | | | +--rw qos-mls:drop-monitor-enable? empty
| | +--rw qos-mls:flowcontrol

```



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| | | | +--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:threshold
| | | | | +--rw qos-mls:threshold-tx-on? flowcontrol-threshold-type
| | | | | +--rw qos-mls:threshold-tx-off? flowcontrol-threshold-type
| | | | +--rw qos-mls:pfc-threshold
| | | | | +--rw qos-mls:threshold
| | | | | | +--rw qos-mls:pfc* [pfc-threshold-cos]
| | | | | | +--rw qos-mls:pfc-threshold-cos cos-id-type
| | | | | | +--rw qos-mls:pfc-threshold-tx-on? flowcontrol-threshold-type
| | | | | | +--rw qos-mls:pfc-threshold-tx-off? flowcontrol-threshold-type
| | | +--rw qos-mls:rx-queue
| | | | +--rw qos-mls:cos-threshold
| | | | | +--rw qos-mls:cos0-threshold? uint32
| | | | | +--rw qos-mls:cos1-threshold? uint32
| | | | | +--rw qos-mls:cos2-threshold? uint32
| | | | | +--rw qos-mls:cos3-threshold? uint32
| | | | | +--rw qos-mls:cos4-threshold? uint32
| | | | | +--rw qos-mls:cos5-threshold? uint32
| | | | | +--rw qos-mls:cos6-threshold? uint32
| | | | | +--rw qos-mls:cos7-threshold? uint32
| | | | +--rw qos-mls:unicast
| | | | | +--rw qos-mls:queue-size* [traffic-class]
| | | | | | +--rw qos-mls:traffic-class traffic-class-id-type
| | | | | | +--rw qos-mls:min-queue-size? min-queue-size-type
| | | | | | +--rw qos-mls:max-queue-size? max-queue-size-type
| | | | +--rw qos-mls:multicast
| | | | | +--rw qos-mls:guarantee-rate? guarantee-rate-type
| | | | | +--rw qos-mls:best-effort-rate? best-effort-rate-type
| | | | | +--rw qos-mls:queue-size* [traffic-class]
| | | | | | +--rw qos-mls:traffic-class uint8
| | | | | | +--rw qos-mls:min-queue-size? min-queue-size-type
| | | | | | +--rw qos-mls:max-queue-size? max-queue-size-type
| | +--rw sflow:sflow
| | | +--rw sflow:enable? empty
| | | +--rw sflow:polling-interval? uint32
| | | +--rw sflow:sample-rate? uint32
| | +--rw qos-mqc:service-policy
| | | +--rw qos-mqc:in? map-name-type
| | | +--rw qos-mqc:out? map-name-type
| | +--rw rmon:rmon
| | | +--rw rmon:collection
| | | | +--rw rmon:ether-stats-entry* [ether-stats-index]
| | | | | +--rw rmon:ether-stats-index ether-stats-index-type
| | | | | +--rw rmon:ether-stats-owner? owner-string
| | | | +--rw rmon:history-control-entry* [history-control-index]
| | | | | +--rw rmon:history-control-index history-control-index-type
| | | | | +--rw rmon:history-control-buckets-requested? history-control-buckets-requested-type
| | | | | +--rw rmon:history-control-interval? history-control-interval-type
| | | | | +--rw rmon:history-control-owner? owner-string
| | +--rw rpf:rpf
| | | +--rw rpf:mode? enumeration
| | +--rw uda-access-list:uda
| | | +--rw uda-access-list:access-group* [uda-access-list uda-direction]
| | | | +--rw uda-access-list:uda-access-list uda-acl-name
| | | | +--rw uda-access-list:uda-direction enumeration
| | +--rw uda-access-list:offsets-container
| | | +--rw uda-access-list:offsets? uda-profile-name
| | +--rw udld:udld
| | | +--rw udld:udld-enable? empty
| | +--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

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| | | | | +--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
| | | | | x--rw trunk-vlan-classification
| | | | |   +--rw allowed
| | | | |     +--rw vlan
| | | | |       +--rw add* [trunk-vlan-id]
| | | | |         | +--rw trunk-vlan-id   non-dot1q-vlan-type
| | | | |         | +--rw trunk-ctag-range? ui32-ctag-range
| | | | |         +--rw remove* [trunk-vlan-id]
| | | | |           +--rw trunk-vlan-id   non-dot1q-vlan-type
| | | | |           +--rw trunk-ctag-range? ui32-ctag-range
| | | | | x--rw default-vlan-config
| | | | |   +--rw default-transparent-vlan? non-dot1q-vlan-type
| | | | | +--rw tag!
| | | | |   | +--rw native-vlan?   empty
| | | | | +--rw native-vlan-classification
| | | | |   | +--rw native-vlan-id?   native-vlan-type
| | | | |   | x--rw native-vlan-ctag-id? dot1q-vlan-type
| | | | | x--rw native-vlan-xtagged-config
| | | | |   | +--rw native-vlan-id-xtagged?   vlan-type
| | | | |   | +--rw native-vlan-ctag-id-xtagged? dot1q-vlan-type
| | | | |   | +--rw native-vlan-egress-type-xtagged? enumeration
| | | | | x--rw native-vlan-untagged-config
| | | | |   +--rw native-vlan-id-untagged?   vlan-type
| | | | | +--rw ip
| | | | |   +--rw dai:arp
| | | | |   | +--rw dai:inspection
| | | | |   |   +--rw dai:trust?   empty
| | | | |   |   +--rw dai:filter
| | | | |   |     +--rw dai:acl-name?   dai-acl-policy-name
| | | | | x--rw ip-config:hide-ip-holder
| | | | |   +--rw ip-config:ip-config
| | | | |     +--rw ip-config:mtu?   uint32
| | | | |     +--rw ip-config:directed-broadcast?   empty
| | | | |     +--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 ipv6
| | | | |   +--rw raguard?   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 track
| | | | |   +--rw track_enable?   empty
| | | | |   +--rw min-link?   uint32
| | | | |   +--rw interface* [track-interface-type track-interface-name]
| | | | |     | +--rw track-interface-type   enumeration
| | | | |     | +--rw track-interface-name   string
| | | | |     +--rw remove
| | | | |       +--rw remove-all-track-interfaces?   empty
| | | | | +--rw edge-loop-detection-native
| | | | |   +--rw loop-detection-native?   empty
| | | | | +--rw edge-loop-detection
| | | | |   +--rw eldprio?   uint32
| | | | |   +--rw eldshutdown-disable?   empty
| | | | |   +--rw eldvlan?   ui32-vlan-range
| | | | | +--rw priority-tag-enable?   empty
| | | | | +--rw load-balance?   enumeration
| | | | | +--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

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| | |   +--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:shutdown?                empty
| | |   |   +--rw lif:name?                    string
| | |   |   +--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-tagged-vlan-id?  uint32
| | +--rw ip-access-list:ip-acl-interface
| | |   +--rw ip-access-list:ip
| | |   |   +--rw ip-access-list:access-group* [ip-access-list ip-direction]
| | |   |   |   +--rw ip-access-list:ip-access-list  l3-acl-policy-name
| | |   |   |   +--rw ip-access-list:ip-direction  enumeration
| | |   |   |   +--rw ip-access-list:traffic-type?  enumeration
| | +--rw lacp-pdu-forward:lacp-pdu-forward
| | |   +--rw lacp-pdu-forward:enable?  empty
| x--rw vrrp:hide-vrrp-holer
| |   +--rw vrrp:vrrp* [vrid version]
| | |   |   +--rw vrrp:vrid                    vrid-type
| | |   |   +--rw vrrp:version                  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 openflow:openflowPo
| | |   +--rw openflow:enablePoMode
| | |   |   +--rw openflow:modeTypePo?  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 red-dp-value]
| |   |   |   +--rw qos-mls:red-tc-value      traffic-class-id-type
| |   |   |   +--rw qos-mls:red-dp-value      drop-precedence-id-type
| |   |   |   +--rw qos-mls:red-profile-id?  red-profile-id-type
| |   +--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:threshold
| | |   +--rw qos-mls:threshold-tx-on?  flowcontrol-threshold-type

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| | | | +--rw qos-mls:threshold-tx-off? flowcontrol-threshold-type
| | | | +--rw qos-mls:pfc-threshold
| | | | | +--rw qos-mls:threshold
| | | | | | +--rw qos-mls:pfc* [pfc-threshold-cos]
| | | | | | | +--rw qos-mls:pfc-threshold-cos cos-id-type
| | | | | | | +--rw qos-mls:pfc-threshold-tx-on? flowcontrol-threshold-type
| | | | | | | +--rw qos-mls:pfc-threshold-tx-off? flowcontrol-threshold-type
| | +--rw qos-mqc:service-policy
| | | +--rw qos-mqc:in? map-name-type
| | | +--rw qos-mqc:out? map-name-type
| +--rw uda-access-list:uda
| | +--rw uda-access-list:access-group* [uda-access-list uda-direction]
| | | +--rw uda-access-list:uda-access-list uda-acl-name
| | | +--rw uda-access-list:uda-direction enumeration
+--rw uda-access-list:offsets? uda-profile-name
+--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 unreachable? empty
| | | | +--rw echo_reply? empty
| | | | +--rw rate_limiting? uint32
| | | +--rw address
| | | | +--rw dhcp? empty
| | | | +--rw ip-address? common-def:ipv4-address-prefix-type
| | | +--rw gateway
| | | | +--rw gateway-address? inet:ipv4-address
| | | +--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_unreachable? empty
| | | +--rw v6_echo_reply? empty
| | | +--rw v6_rate_limiting? uint32
| | +--rw ipv6-address-cont

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| | | | +--rw ipv6-global-cont
| | | | | +--rw ipv6-global-address?          common-def:ipv6-address-prefix
| | | | | +--rw ipv6-global-address-eui64?    empty
| | | | +--rw autoconfig?                    empty
| | | | +--rw dhcpv6?                        empty
| | | +--ro ipv6-address*                     string
| | | +--ro ipv6-gateways*                   string
| | | +--rw ipv6-access-list:access-group
| | | | +--rw ipv6-access-list:mgmt-ipv6-access-list?  ipv6-l3-acl-policy-name
| | | | +--rw ipv6-access-list:mgmt-ip-direction?    enumeration
| | +--rw vrf
| | | +--rw vrf-forwarding?    common-def:vrf-name
| | +--rw speed?              enumeration
| | +--rw line-speed
| | | +--ro actual?           string
| | | +--ro configured?     string
| | +--rw shutdown_management?    empty
| | +--ro shutdown_management_oper? string
+--rw gre-vxlan:tunnel* [identifier]
| +--rw gre-vxlan:identifier          uint32
| +--rw gre-vxlan:mode
| | +--rw gre-vxlan:gre
| | | +--rw gre-vxlan:ip?    empty
+--rw gre-vxlan:gre-source
| +--rw (source-cmd)?
| | +--:(ca-source-address)
| | | +--rw gre-vxlan:source-address?    inet:ipv4-address
| | +--:(ca-interface-loopback)
| | | +--rw gre-vxlan:interface-loopback? lo:intf-loopback-port-type
| | +--:(ca-interface-ethernet)
| | | +--rw gre-vxlan:interface-ethernet? interface:interface-type
| | +--:(ca-interface-ve)
| | | +--rw gre-vxlan:interface-ve?      uint32
+--rw gre-vxlan:tunnel-destination?    inet:ipv4-address
+--rw gre-vxlan:tunnel-shutdown?       empty
+--rw gre-vxlan:tunnel-router-interface
| +--rw gre-vxlan:router-ve?    uint32
+--rw gre-vxlan:gre-ttl?           uint32
+--rw gre-vxlan:gre-dscp?         uint32
+--rw gre-vxlan:tunnel-name?     string
+--rw gre-vxlan:dscp-ttl-mode?   enumeration
+--rw gre-vxlan:statistics?      empty
+--rw gre-vxlan:keepalive
| +--rw gre-vxlan:time-interval?    uint32
| +--rw gre-vxlan:retry-count?     uint32
+--rw interface-vlan
| +--rw interface
| +--rw vlan* [name]
| | +--rw name                vlan-type
| | +--rw statistics?        empty
| | +--rw loop-detection?    empty
| | +--rw loop-detection-shutdown-disable? empty
| | +--rw router-interface
| | | +--rw ve-config?    ve-type
| | +--ro ifindex?      uint64
| | +--rw description?  string
| | +--rw vlan-name?    string
| | +--rw ip
| | | +--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:igmpPIM
| | | | +--rw igmp-snooping:snooping
| | | | | +--rw igmp-snooping:vlan-pimv4-enable? empty
| | | +--rw igmp-snooping:igmpVlan
| | | | +--rw igmp-snooping:snooping
| | | | +--rw igmp-snooping:igmps-version?          igmps-version-type
| | | | +--rw igmp-snooping:igmps-last-member-query-interval? lmq-t-type

```

```

|         |         +--rw igmp-snooping:igmps-query-interval?          qi-type
|         |         +--rw igmp-snooping:igmps-query-max-response-time? qmrt-type
|         |         +--rw igmp-snooping:igmps-enable?                empty
|         |         +--rw igmp-snooping:igmps-fast-leave?          empty
|         |         +--rw igmp-snooping:igmps-querier
|         |         |         +--rw igmp-snooping:igmps-qenable?    empty
|         |         +--rw igmp-snooping:igmps_mrouter
|         |         |         +--rw igmp-snooping:igmps-interface* [igmps-if-type igmps-value]
|         |         |         +--rw igmp-snooping:igmps-if-type    enumeration
|         |         |         +--rw igmp-snooping:igmps-value      string-type
|         |         +--rw igmp-snooping:igmps_static-group* [igmps-mcast-address igmps-interface igmps-if-
type igmps-value]
|         |         +--rw igmp-snooping:igmps-mcast-address        inet:ipv4-address
|         |         +--rw igmp-snooping:igmps-interface            enumeration
|         |         +--rw igmp-snooping:igmps-if-type              enumeration
|         |         +--rw igmp-snooping:igmps-value                string-type
|         +--rw ipv6
|         |         +--rw mld-snooping:mldPIM
|         |         |         +--rw mld-snooping:snooping
|         |         |         |         +--rw mld-snooping:vlan-pimv6-enable?    empty
|         |         +--rw mld-snooping:mldVlan
|         |         |         +--rw mld-snooping:snooping
|         |         |         |         +--rw mld-snooping:last-member-query-interval?  lmqmrt-type
|         |         |         |         +--rw mld-snooping:query-max-response-time?    qmrt-type
|         |         |         |         +--rw mld-snooping:query-interval?            qi-type
|         |         |         |         +--rw mld-snooping:mldVersion?              version-type
|         |         |         |         +--rw mld-snooping:enable?                  empty
|         |         |         |         +--rw mld-snooping:fast-leave?              empty
|         |         |         |         +--rw mld-snooping:querier
|         |         |         |         |         +--rw mld-snooping:qenable?    empty
|         |         |         +--rw mld-snooping:mrouter
|         |         |         |         +--rw mld-snooping:interface* [if-type value]
|         |         |         |         |         +--rw mld-snooping:if-type    enumeration
|         |         |         |         |         +--rw mld-snooping:value      string-type
|         |         |         +--rw mld-snooping:static-group* [mcast-address interface if-type value]
|         |         |         |         +--rw mld-snooping:mcast-address        inet:ipv6-address
|         |         |         |         +--rw mld-snooping:interface            enumeration
|         |         |         |         +--rw mld-snooping:if-type              enumeration
|         |         |         |         +--rw mld-snooping:value                string-type
|         |         +--rw mac-access-list:mac
|         |         |         +--rw mac-access-list:access-group* [mac-access-list mac-direction]
|         |         |         |         +--rw mac-access-list:mac-access-list    mac-acl-name
|         |         |         |         +--rw mac-access-list:mac-direction      enumeration
|         |         |         |         +--rw mac-access-list:traffic-type?      enumeration
|         |         +--rw arp:suppress-arp
|         |         |         +--rw arp:suppress-arp-enable?    empty
|         |         +--rw ipv6-nd-ra:suppress-nd
|         |         |         +--rw ipv6-nd-ra:suppress-nd-enable?    empty
|         |         +--rw xstp:spanning-tree
|         |         |         +--rw xstp:stp-shutdown?    empty
+--rw protocol
|         +--rw dot3ah:link-oam!
|         |         +--rw dot3ah:shutdown?    empty
|         |         +--rw dot3ah:pdu-rate?    uint32
|         |         +--rw dot3ah:time-out?    uint32
|         +--rw eld:edge-loop-detection!
|         |         +--rw eld:pdu-rx-limit?    uint32
|         |         +--rw eld:hello-interval?  uint32
|         |         +--rw eld:shutdown-time?    uint32
|         |         +--rw eld:raslog-duration?  uint32
|         +--rw lldp:lldp!
|         |         +--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:dot1-tlv?                  empty
|         |         |         +--rw lldp:dot3-tlv?                  empty
|         |         |         +--rw lldp:optional-tlv
|         |         |         |         +--rw lldp:management-address?    empty

```

```

| | |   +--rw lldp:port-description?           empty
| | |   +--rw lldp:system-capabilities?       empty
| | |   +--rw lldp:adv-tlv-system-description? empty
| | |   +--rw lldp:adv-tlv-system-name?       empty
| | +--rw lldp:system-name?                   string
| | +--rw lldp:system-description?           string
| | +--rw lldp:disable?                       empty
| | +--rw lldp:profile* [profile-name]
| | |   +--rw lldp:profile-name               string
| | |   +--rw lldp:description?              string
| | |   +--rw lldp:hello?                     uint32
| | |   +--rw lldp:mode?                       enumeration
| | |   +--rw lldp:multipplier?                uint32
| | |   +--rw lldp:advertise
| | | |   +--rw lldp:dcbx-fcoe-app-tlv?       empty
| | | |   +--rw lldp:dcbx-fcoe-logical-link-tlv? empty
| | | |   +--rw lldp:dot1-tlv?                 empty
| | | |   +--rw lldp:dot3-tlv?                 empty
| | | |   +--rw lldp:optional-tlv
| | | | |   +--rw lldp:management-address?     empty
| | | | |   +--rw lldp:port-description?       empty
| | | | |   +--rw lldp:system-capabilities?     empty
| | | | |   +--rw lldp:adv-tlv-system-description? empty
| | | | |   +--rw lldp:adv-tlv-system-name?     empty
| | +--rw uddl:uddl!
| | |   +--rw uddl:hello?                       uint32
| | |   +--rw uddl:multipplier?                 uint32
| | |   +--rw uddl:shutdown?                   empty
| | +--rw xstp:spanning-tree
| | |   +--rw xstp:stp!
| | | |   +--rw xstp:timer-config
| | | | |   +--rw xstp:hello-time?              uint32
| | | | |   +--rw xstp:forward-delay?          uint32
| | | | |   +--rw xstp:max-age?                 uint32
| | | | |   +--rw xstp:description?             string
| | | | |   +--rw xstp:bridge-priority?        uint32
| | | | |   +--rw xstp:error-disable-timeout
| | | | | |   +--rw xstp:enable?                empty
| | | | | |   +--rw xstp:interval?             uint32
| | | | |   +--rw xstp:port-channel
| | | | | |   +--rw xstp:path-cost?             enumeration
| | | | |   +--rw xstp:shutdown?               empty
| | | | +--rw xstp:rstp!
| | | | |   +--rw xstp:timer-config
| | | | | |   +--rw xstp:hello-time?              uint32
| | | | | |   +--rw xstp:forward-delay?          uint32
| | | | | |   +--rw xstp:max-age?                 uint32
| | | | | |   +--rw xstp:description?             string
| | | | | |   +--rw xstp:bridge-priority?        uint32
| | | | | |   +--rw xstp:error-disable-timeout
| | | | | | |   +--rw xstp:enable?                empty
| | | | | | |   +--rw xstp:interval?             uint32
| | | | | |   +--rw xstp:port-channel
| | | | | | |   +--rw xstp:path-cost?             enumeration
| | | | | |   +--rw xstp:shutdown?               empty
| | | | |   +--rw xstp:transmit-holdcount?      uint32
| | | +--rw xstp:pvst!
| | | |   +--rw xstp:timer-config
| | | | |   +--rw xstp:hello-time?              uint32
| | | | |   +--rw xstp:forward-delay?          uint32
| | | | |   +--rw xstp:max-age?                 uint32
| | | | |   +--rw xstp:description?             string
| | | | |   +--rw xstp:bridge-priority?        uint32
| | | | |   +--rw xstp:error-disable-timeout
| | | | | |   +--rw xstp:enable?                empty
| | | | | |   +--rw xstp:interval?             uint32
| | | | |   +--rw xstp:port-channel
| | | | | |   +--rw xstp:path-cost?             enumeration
| | | | |   +--rw xstp:shutdown?               empty
| | | | +--rw xstp:vlan* [id]
| | | | |   +--rw xstp:id                       uint32
| | | | |   +--rw xstp:priority?                uint32

```



```

|         +---rw xstp:timer-config
|         |         +---rw xstp:hello-time?      uint32
|         |         +---rw xstp:forward-delay?   uint32
|         |         +---rw xstp:max-age?         uint32
+---rw xstp:rpvst!
| +---rw xstp:timer-config
| | +---rw xstp:hello-time?      uint32
| | +---rw xstp:forward-delay?   uint32
| | +---rw xstp:max-age?         uint32
| +---rw xstp:description?      string
| +---rw xstp:bridge-priority?   uint32
| +---rw xstp:error-disable-timeout
| | +---rw xstp:enable?         empty
| | +---rw xstp:interval?       uint32
| +---rw xstp:port-channel
| | +---rw xstp:path-cost?      enumeration
| +---rw xstp:shutdown?         empty
| +---rw xstp:vlan* [id]
| | +---rw xstp:id               uint32
| | +---rw xstp:priority?       uint32
| | +---rw xstp:timer-config
| | | +---rw xstp:hello-time?   uint32
| | | +---rw xstp:forward-delay? uint32
| | | +---rw xstp:max-age?      uint32
| | +---rw xstp:transmit-holdcount? uint32
+---rw xstp:mstp!
+---rw xstp:timer-config
| +---rw xstp:hello-time?      uint32
| +---rw xstp:forward-delay?   uint32
| +---rw xstp:max-age?         uint32
+---rw xstp:description?      string
+---rw xstp:bridge-priority?   uint32
+---rw xstp:error-disable-timeout
| +---rw xstp:enable?         empty
| +---rw xstp:interval?       uint32
+---rw xstp:port-channel
| +---rw xstp:path-cost?      enumeration
+---rw xstp:shutdown?         empty
+---rw xstp:cisco-interoperability? enumeration
+---rw xstp:instance* [id]
| +---rw xstp:id               mstp-instance-type
| +---rw xstp:vlan?            xstp-ui32-vlan-range
| +---rw xstp:priority?       uint32
+---rw xstp:region?           string
+---rw xstp:revision?         uint16
+---rw xstp:max-hops?         uint32
+---rw xstp:transmit-holdcount? uint32
+---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
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was updated to include container <i>bfd</i> , <i>dai</i> , <i>dot3ah</i> , <i>lACP-pdu-forward</i> , <i>route-only</i> , <i>rf</i> ,

# 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

```

module: brocade-interface-ext
rpcs:
  +---x get-vlan-brief
  | +---w input
  | | +---w (request-type)?
  | | | +---:(get-request)
  | | | | +---w vlan-id?          interface:vlan-type
  | | | +---:(get-next-request)
  | | | | +---w last-rcvd-vlan-id? interface:vlan-type
  | +--ro output
  | | +--ro configured-vlans-count?   uint32
  | | +--ro provisioned-vlans-count?  uint32
  | | +--ro unprovisioned-vlans-count? uint32
  | | +--ro vlan* [vlan-id]
  | | | +--ro vlan-id          interface:vlan-type
  | | | +--ro vlan-type?      enumeration
  | | | +--ro vlan-name?     string
  | | | +--ro vlan-state?    enumeration
  | | | +--ro interface* [interface-type interface-name]
  | | | | +--ro interface-type enumeration
  | | | | +--ro interface-name union
  | | | | +--ro tag?          enumeration
  | | | | +--ro classification* [classification-type classification-value]
  | | | | | +--ro classification-type enumeration
  | | | | | +--ro classification-value string
  | | | +--ro last-vlan-id?    interface:vlan-type
  | | | +--ro has-more?       boolean
  +---x get-interface-switchport
  | +--ro output
  | | +--ro switchport* [interface-type interface-name]
  | | | +--ro interface-type enumeration
  | | | +--ro interface-name union
  | | | +--ro mode?          interface:switchport-mode-type
  | | | +--ro fcoe-port-enabled? boolean
  | | | +--ro ingress-filter-enabled? boolean
  | | | +--ro acceptable-frame-type? enumeration
  | | | +--ro default-vlan?  interface:vlan-type
  | | | +--ro active-vlans
  | | | | +--ro vlanid* interface:vlan-type
  | | | +--ro inactive-vlans
  | | | | +--ro vlanid* interface:vlan-type
  +---x get-ip-interface
  | +---w input
  | | +---w (request-type)?
  | | | +---:(get-request)
  | | | | +---w interface-type? enumeration
  | | | | +---w 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
|   +---w input
|   | +---w (request-type)?
|   | | +---:(get-request)
|   | | | +---w interface-type?      enumeration
|   | | | +---w interface-name?     union
|   | | +---:(get-next-request)
|   | |   +---w last-rcvd-interface
|   | |     +---w interface-type?   enumeration
|   | |     +---w 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 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
|   +---w input
|   | +---w interface-type?    enumeration
|   | +---w 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
+---: (xftp)
|   +--ro xftp
|     +--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
16r.1.00	This YANG module was introduced.

# brocade-intf-loopback

Provides a data model for managing the interface loopback feature.

## Top-level container

```

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

```

## History

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

# brocade-ip-access-list

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

## Top-level container

```

module: brocade-ip-access-list
  +--rw ip-acl
  |   +--rw ip
  |   |   +--rw access-list
  |   |   |   +--rw standard* [name]
  |   |   |   |   +--rw name
  |   |   |   |   |   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 copy-sflow?
  |   |   |   |   |   |   |   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 dscp-force?
  |   |   |   |   |   |   |   dscprmrk-uint
  |   |   |   |   |   |   +--rw drop-precedence-force?
  |   |   |   |   |   |   |   drop-prec-uint
  |   |   |   |   |   |   +--rw urg?
  |   |   |   |   |   |   |   empty
  |   |   |   |   |   |   +--rw ack?
  |   |   |   |   |   |   |   empty
  |   |   |   |   |   |   +--rw push?
  |   |   |   |   |   |   |   empty
  |   |   |   |   |   |   +--rw fin?
  |   |   |   |   |   |   |   empty
  |   |   |   |   |   |   +--rw rst?
  |   |   |   |   |   |   |   empty
  |   |   |   |   |   |   +--rw sync?
  |   |   |   |   |   |   |   empty
  |   |   |   |   |   |   +--rw vlan?
  |   |   |   |   |   |   |   interface:vlan-type
  |   |   |   |   |   |   +--rw count?
  |   |   |   |   |   |   |   empty

```



```

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

```

## History

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

# brocade-ip-administration

Provides a data model for configuring the domain name server.

## External augmentations

```
module: brocade-ip-administration
  +--rw dhcpd
    +--ro restart
    +--ro input
    +--ro output
    +--ro mesg?  string
```

## History

Release version	History
7.0.0	This YANG module was introduced.

# brocade-ip-config

Provides a data model for managing Layer 3 interfaces.

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

## External augmentations

```

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

## History

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

# brocade-ip-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
```

## History

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

# brocade-ipv6-access-list

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

## Top-level container

```

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

```

```

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

## History

Release version	History
6.0.1	This YANG module was modified to include the following: <ul style="list-style-type: none"> <li>• Container <i>access-group</i> containing leaves <i>ipv6-access-list</i> and <i>ipv6-direction</i> were added in augment to brocade-rbridge -&gt; <i>receive</i> (container).</li> </ul>
7.1.0	This YANG module was modified to include the following: <ul style="list-style-type: none"> <li>• Added leaf <i>copy-sflow</i> under container <i>access-list</i>.</li> <li>• Added leaves: <i>dscp</i>, <i>drop-precedence-force</i>, <i>mirror</i> and <i>copy-sflow</i> under container <i>extended</i>.</li> </ul>

# brocade-isis

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

## External augmentations

```

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

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

## History

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

# brocade-isis-operational

Provides a data model for the brocade-isis module.

## Top-level container

```

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

```



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

```

| | +--ro bfd-hold-interval?          uint32
| | +--ro nsr-enabled?              boolean
| | +--ro nsr-state?                string
| | +--ro nsr-sync-state?          boolean
| | +--ro isis-is-mp?              boolean
| | +--ro ldp-sync?                boolean
| | +--ro ldp-sync-holddown-time?  uint32
+--ro router-isis-config
| | +--ro nsr-state?                isis-status
| | +--ro lsp-flood-count?          uint16
| | +--ro lsp-fast-flood-count?    uint16
| | +--ro fast-flood-wait-count?   uint16
| | +--ro hello-padding?           isis-status
| | +--ro hello-padding-ptp?       isis-status
| | +--ro csnp-interval?           uint16
| | +--ro lsp-gen-interval?        uint16
| | +--ro lsp-interval?            uint32
| | +--ro lsp-refresh-interval?    uint16
| | +--ro lsp-lifetime?            uint16
| | +--ro retransmit-interval?     uint16
| | +--ro pspf-enabled?            isis-status
| | +--ro ispf-enabled?            isis-status
| | +--ro istct-spf-enabled?       isis-status
| | +--ro overload-state?          isis-status
| | +--ro overload-startup-time?   uint32
| | +--ro overload-wait-on-bgp?    isis-status
| | +--ro overload-bgp-wait-time?  uint32
| | +--ro enable-code-assertions?  isis-status
| | +--ro graceful-restart-helper? isis-status
| | +--ro isis-hostname-enabled?   isis-status
| | +--ro bfd?                     boolean
| | +--ro bfd-holdover-interval?   uint8
+--ro isis-system-info
| | +--ro protocol-enabled?        isis-status
| | +--ro operation-mode?          isis-level
| | +--ro system-id?               string
| | +--ro nsap* [net-addr]
| | | +--ro length?                uint8
| | | +--ro net-addr               string
+--ro l1-auth-profile
| | +--ro auth-check?              isis-status
| | +--ro auth-mode?               auth-mode
| | +--ro auth-key?                string
+--ro l2-auth-profile
| | +--ro auth-check?              isis-status
| | +--ro auth-mode?               auth-mode
| | +--ro auth-key?                string
+--ro log-handler
| | +--ro log-adj-state-change?    isis-status
| | +--ro log-bad-lsp?             isis-status
+--ro l1-spf-timer
| | +--ro init-delay-time?         uint32
| | +--ro hold-down-time?          uint32
| | +--ro max-time?                uint32
+--ro l2-spf-timer
| | +--ro init-delay-time?         uint32
| | +--ro hold-down-time?          uint32
| | +--ro max-time?                uint32
+--ro l1-spf6-timer
| | +--ro init-delay-time?         uint32
| | +--ro hold-down-time?          uint32
| | +--ro max-time?                uint32
+--ro l2-spf6-timer
| | +--ro init-delay-time?         uint32
| | +--ro hold-down-time?          uint32
| | +--ro max-time?                uint32
+--ro pspf-timer
| | +--ro init-delay-time?         uint32
| | +--ro hold-down-time?          uint32
| | +--ro max-time?                uint32
+--ro pspf6-timer
| | +--ro init-delay-time?         uint32

```

```

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

```

```

| | | | +--ro redist-metric-type?      is-redist-metric-type
| | | | +--ro redist-routemap-name?   string
| | | | +--ro redist-bgp
| | | | | +--ro redist-enabled?        isis-status
| | | | | +--ro redist-level?         isis-level
| | | | | +--ro redist-metric?       uint32
| | | | | +--ro redist-metric-type?   is-redist-metric-type
| | | | | +--ro redist-routemap-name? string
| | | | +--ro redist-isis
| | | | | +--ro redist-is-l2-to-l1?    isis-status
| | | | | +--ro redist-is-l2-to-l1-prefix? string
| | | | | +--ro redist-is-l1-to-l2?    isis-status
| | | | | +--ro redist-is-l1-to-l2-prefix? string
| | | | +--ro redist-ospf
| | | | | +--ro redist-enabled?        isis-status
| | | | | +--ro redist-level?         isis-level
| | | | | +--ro redist-metric?       uint32
| | | | | +--ro redist-metric-type?   is-redist-metric-type
| | | | | +--ro redist-routemap-name? string
| | | | | +--ro ospf-internal-enabled? isis-status
| | | | | +--ro ospf-external1-enabled? isis-status
| | | | | +--ro ospf-external2-enabled? isis-status
| | | | | +--ro adjacency-check?       isis-status
| | | | | +--ro multi-topology?       isis-status
| | | | | +--ro mt-transition-state?   boolean
| | | | | +--ro summary-prefix-v6* [address]
| | | | | | +--ro address      string
| | | | | | +--ro level?      isis-level
| | | | +--ro reverse-metric
| | | | | +--ro reverse-metric-value?   uint32
| | | | | +--ro rev-metric-whole-lan?   isis-status
| | | | | +--ro rev-metric-te-def-metric? isis-status
| | | | | +--ro rev-metric-tlv-type?   uint32
| | | | +--ro debug-handler
| | | | | +--ro debug-nsr?      isis-status
+--ro host-table
| | | | +--ro hostname-enabled?    boolean
| | | | | +--ro isis-router-entry* [system-id]
| | | | | | +--ro system-id      string
| | | | | | +--ro host-name?    string
| | | | | | +--ro is-local?     boolean
+--ro ipv4-routes
| | | | +--ro total-routes-count?  uint32
| | | | | +--ro ipv4-route-entry* [ipv4-dest-addr ipv4-subnet-mask ipv4-prefix-len]
| | | | | | +--ro level?          uint8
| | | | | | +--ro cost?          uint32
| | | | | | +--ro tag?          uint32
| | | | | | +--ro flags?        uint16
| | | | | | +--ro is-l1-summarized? boolean
| | | | | | +--ro is-l2-summarized? boolean
| | | | | | +--ro is-summary?    boolean
| | | | | | +--ro ipv4-dest-addr  inet:ipv4-address
| | | | | | +--ro ipv4-subnet-mask inet:ipv4-address
| | | | | | +--ro ipv4-prefix-len int8
| | | | | | +--ro nh-info* [outgoing-intf-type outgoing-intf-number]
| | | | | | | +--ro ipv4-nh-addr?  inet:ipv4-address
| | | | | | | +--ro outgoing-intf-type isis-interface-type
| | | | | | | +--ro outgoing-intf-number string
+--ro ipv6-routes
| | | | +--ro level1-route-count?  uint32
| | | | +--ro level2-route-count?  uint32
| | | | +--ro ecmp-route-count?    uint32
| | | | +--ro total-routes-count?  uint32
| | | | | +--ro ipv6-route-entry* [ipv6-dest-addr ipv6-prefix-len]
| | | | | | +--ro level?          uint8
| | | | | | +--ro cost?          uint32
| | | | | | +--ro tag?          uint32
| | | | | | +--ro flags?        uint16
| | | | | | +--ro is-l1-summarized? boolean
| | | | | | +--ro is-l2-summarized? boolean
| | | | | | +--ro is-summary?    boolean
| | | | | | +--ro ipv6-dest-addr  string

```

```

| |     +--ro ipv6-prefix-len      uint8
| |     +--ro nh-info* [outgoing-intf-type outgoing-intf-number]
| |         +--ro ipv6-nh-addr?   string
| |         +--ro outgoing-intf-type  isis-interface-type
| |         +--ro outgoing-intf-number string
| +--ro interface-brief
| |   +--ro isis-intf-brief* [intf-type intf-number]
| |     +--ro intf-type           isis-interface-type
| |     +--ro intf-number         string
| |     +--ro circuit-type?       isis-circ-type
| |     +--ro is-circuit-passive?  isis-status
| |     +--ro circuit-mode?       isis-level
| |     +--ro circ-state?         boolean
| |     +--ro mtu-size?           uint16
| |     +--ro circ-adj-up?        uint16
| |     +--ro circ-changes?       uint32
| |     +--ro adj-changes?       uint32
| |     +--ro is-l1-dis?          boolean
| |     +--ro is-l2-dis?          boolean
| +--ro interface-detail
| |   +--ro isis-intf* [intf-type intf-number]
| |     +--ro intf-type           isis-interface-type
| |     +--ro intf-number         string
| |     +--ro v4circuit-enabled?  isis-status
| |     +--ro v6circuit-enabled?  isis-status
| |     +--ro circuit-id?         uint16
| |     +--ro circuit-ifid?       uint16
| |     +--ro circuit-state?      boolean
| |     +--ro circuit-ip-state?   boolean
| |     +--ro circuit-ipv6-state? boolean
| |     +--ro circuit-mode?       isis-level
| |     +--ro circuit-type?       isis-circ-type
| |     +--ro circuit-encap?      isis-circ-encap
| |     +--ro is-circuit-passive? isis-status
| |     +--ro mtu-size?           uint16
| |     +--ro padding-enabled?    isis-status
| |     +--ro bfd-enabled?        isis-status
| |     +--ro circ-chstats
| |       | +--ro circ-changes?  uint32
| |       | +--ro adj-changes?  uint32
| |       | +--ro adj-rej?      uint32
| |       | +--ro llauthfail?   uint32
| |       | +--ro l2authfail?   uint32
| |       | +--ro bad-lsp?     uint32
| |       | +--ro ctrl-out?    uint32
| |       | +--ro ctrl-in?     uint32
| |     +--ro mpls-info
| |       | +--ro te-enabled?    isis-status
| |       | +--ro admin-group?  uint32
| |       | +--ro te-metric?    uint32
| |       | +--ro max-link-bw?  uint32
| |       | +--ro max-reserv-bw? uint32
| |       | +--ro unreserv-bw*  uint32
| |     +--ro reverse-metric-info
| |       | +--ro is-global-config?  boolean
| |       | +--ro reverse-metric-value? uint32
| |       | +--ro rev-metric-whole-lan? isis-status
| |       | +--ro rev-metric-te-def-metric? isis-status
| |     +--ro ldp-sync-info
| |       | +--ro ldp-sync-enabled?  isis-status
| |       | +--ro ldp-sync-hold-down? uint16
| |       | +--ro ldp-in-sync?      boolean
| |       | +--ro remain-hd-time?    uint32
| |       | +--ro ldp-sync-hd-expired? boolean
| |     +--ro circ-metrics* [level]
| |       | +--ro level           isis-level
| |       | +--ro auth-check?     isis-status
| |       | +--ro auth-mode?      auth-mode
| |       | +--ro auth-key?       string
| |       | +--ro circ-metric?    uint32
| |       | +--ro ip6-circ-metric? uint32
| |       | +--ro circ-priority?  uint8

```

```

| | | +--ro hello-int?          uint32
| | | +--ro hello-mult?       uint32
| | | +--ro dis?              string
| | | +--ro dis-ch?           uint32
| | | +--ro next-hello?       uint32
| | | +--ro active-adj?       uint32
| | +--ro ip-info* [ip-add]
| | | +--ro ip-add            inet:ipv4-address
| | | +--ro ip-prefix?       uint8
| | +--ro ip6-info* [ip6-add]
| | | +--ro ip6-add           inet:ipv6-address
| | | +--ro ip6-prefix?      uint8
| | | +--ro is-link-local?    boolean
+--ro database* [level]
  +--ro isis-operation?      boolean
  +--ro level                 uint32
  +--ro lsp-level1-count?    uint32
  +--ro lsp-level2-count?    uint32
  +--ro lsp-level1-loading?   uint32
  +--ro lsp-level2-loading?   uint32
  +--ro lsp-level1-fragments? uint32
  +--ro lsp-level2-fragments? uint32
  +--ro lsp-level1-pseudo?   uint32
  +--ro lsp-level2-pseudo?   uint32
  +--ro lsp-level1-pseudo-fragments? uint32
  +--ro lsp-level2-pseudo-fragments? uint32
  +--ro lsp-level1-my-count?  uint32
  +--ro lsp-level2-my-count?  uint32
  +--ro lsp-level1-my-lsp-fragments? uint32
  +--ro lsp-level2-my-lsp-fragments? uint32
  +--ro lsp-level1-my-pseudo? uint32
  +--ro lsp-level2-my-pseudo? uint32
  +--ro lsp-level1-my-pseudo-fragments? uint32
  +--ro lsp-level2-my-pseudo-fragments? uint32
  +--ro lsp-level1-checksum?  uint32
  +--ro lsp-level2-checksum?  uint32
  +--ro lsp-entry* [lsp-level lsp-id]
  | +--ro lsp-level          uint32
  | +--ro lsp-id             string
  | +--ro lsp-seq-no?        uint32
  | +--ro lsp-checksum?      uint16
  | +--ro lsp-holdtime?      uint32
  | +--ro lsp-att?           uint32
  | +--ro lsp-p?             uint32
  | +--ro lsp-ol?            uint32
  | +--ro lsp-tlv-entry* [type]
  | | +--ro type             uint32
  | | +--ro length?         uint32
  | | +--ro value*          binary
+--ro traffic-state
  +--ro l1-hello-rx?         uint32
  +--ro l1-hello-tx?         uint32
  +--ro l2-hello-rx?         uint32
  +--ro l2-hello-tx?         uint32
  +--ro pp-hello-rx?         uint32
  +--ro pp-hello-tx?         uint32
  +--ro l1-lsp-rx?           uint32
  +--ro l1-lsp-tx?           uint32
  +--ro l2-lsp-rx?           uint32
  +--ro l2-lsp-tx?           uint32
  +--ro l1-csnp-rx?          uint32
  +--ro l1-csnp-tx?          uint32
  +--ro l2-csnp-rx?          uint32
  +--ro l2-csnp-tx?          uint32
  +--ro l1-psnp-rx?          uint32
  +--ro l1-psnp-tx?          uint32
  +--ro l2-psnp-rx?          uint32
  +--ro l2-psnp-tx?          uint32
+--ro spf-log-state* [spf-log-version]
  +--ro spf-log-version      isis-safi
  +--ro spf-log-levels* [level]
  | +--ro level              isis-level

```

```

+--ro log-counts?          uint16
+--ro spf-trigger-count?   uint16
+--ro node-count?         uint16
+--ro spf-log-events* [spf-log-index]
  +--ro spf-log-index      uint16
  +--ro isis-spf-log-reason? isis-spf-log-reason-code
  +--ro isis-lsp-name?     string
  +--ro brief-reason?     string
  +--ro event-count?      uint16
  +--ro node-count?      uint16
  +--ro time-stamp-ms?    uint32
  +--ro duration-ms?     uint32
  +--ro ipv4-routes?     uint32
  +--ro ipv6-routes?     uint32
  +--ro first-trigger-change? string
  +--ro first-trigger-time-stamp-ms? uint32
  +--ro first-trigger-detail-reason? string
  +--ro last-trigger-change? string
  +--ro last-trigger-time-stamp-ms? uint32
  +--ro last-trigger-detail-reason? string

```

## History

Release version	History
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was updated.

# brocade-l2sys-operational

Manages the L2SYS processor.

## Top-level container

```
module: brocade-l2sys-operational
  +--ro bd-mac-br-state
  | +--ro total-mac-count?   uint32
  | +--ro static-mac-count?  uint32
  | +--ro dyn-mac-count?     uint32
  +--ro bridge-domain-mac-state* [bd-id]
    +--ro bd-id              uint32
    +--ro no-of-mac?         uint32
    +--ro no-of-static-mac?  uint32
```

## History

Release version	History
17r.2.00	This YANG module was introduced.



# brocade-lacp

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

## Top-level container

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

## External augmentations

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

## History

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

# brocade-lag

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

## Top-level container

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

## RPCs

```
rpcs:
  +---x get-port-channel-detail
    | +---w input
    | | +---w (request-type)?
    | | | +---:(get-request)
    | | | | +---w aggregator-id?      interface:portchannel-type
    | | | +---:(get-next-request)
    | | | | +---w 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
    | +---w input
    | | +---w interface-type?  enumeration
    | | +---w interface-name?  union
    +---ro output
    | +---ro lacp
    | | +---ro interface-type?  enumeration
    | | +---ro interface-name?  union
    | | +---ro actor-port?      uint64
    | | +---ro admin-key?      lacp-key
    | | +---ro oper-key?       lacp-key
    | | +---ro actor-system-id? yang:mac-address
    | | +---ro partner-system-id? yang:mac-address
    | | +---ro system-priority? uint32
    | | +---ro partner-oper-priority? uint32
    | | +---ro actor-priority?  uint32
    | | +---ro receive-machine-state? enumeration
    | | +---ro periodic-transmission-machine-state? enumeration
```

```

+---ro mux-machine-state?          enumeration
+---ro admin-state?                lACP-state
+---ro oper-state?                 lACP-state
+---ro partner-oper-state?         lACP-state
+---ro partner-oper-port?          uint64
+---ro actor-chip-number?          uint32
+---ro actor-max-deskew?           uint32
+---ro partner-chip-number?        uint32
+---ro partner-max-deskew?         uint32
+---ro actor-brcd-state?           brcd-trunk-states
+---ro partner-brcd-state?         brcd-trunk-states

```

## History

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

# brocade-lfs

Manages link fault signal (LFS).

## Top-level container

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

## External augmentations

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

## History

Release version	History
16r.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
  | | +---w input
  | | | +---w (str-file)?
  | | | | +--:(licStr)
  | | | | | +---w licStr      string
  | | | | | +--:(FTP-URL)
  | | | | | | +---w FTP-URL   string
  | | | | | | +--:(SCP-URL)
  | | | | | | | +---w SCP-URL  string
  | | | | +---w slot?        uint32
  | | +---x remove
  | | | +---w input
  | | | | +---w licStr      common-def:feature-type
  | | | | +---w slot?        uint32
  | | +---x eula
  | | | +---w input
  | | | | +---w (accept-or-decline)?
  | | | | | +--:(accept)
  | | | | | | +---w accept?   eula_features
  | | | | | | +--:(decline)
  | | | | | | | +---w decline? eula_features
  +--rw dpod
  | +--rw port-id* [port-id]
  | | +--rw port-id      interface:interface-type
  | | +--rw operation?   license-dpod-operation-type

```

## History

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

# brocade-lfs

Manages link fault signal (LFS).

## Top-level container

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

## External augmentations

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

## History

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

# brocade-linecard-management

Provides a data model for managing line cards.

## Top-level container

```

module: brocade-linecard-management
  +--rw global-lc-holder
  |   +--rw linecard
  |   |   +--rw linecards* [linecardName]
  |   |   |   +--rw linecardName   linecardid
  |   |   |   +--rw linecardType?  enumeration
  |   +--rw linecardservice
  |   |   +---x power-off
  |   |   |   +---w input
  |   |   |   |   +---w (blade-type)?
  |   |   |   |   |   +--:(linecard)
  |   |   |   |   |   |   +---w linecard?  slotnum
  |   |   |   |   |   |   +--:(sfm)
  |   |   |   |   |   |   |   +---w sfm?    sfmnum
  |   |   |   |   |   |   |   +--:(psu)
  |   |   |   |   |   |   |   |   +---w psu?    psunum
  |   |   +---x power-on
  |   |   |   +---w input
  |   |   |   |   +---w (blade-type)?
  |   |   |   |   |   +--:(linecard)
  |   |   |   |   |   |   +---w linecard?  slotnum
  |   |   |   |   |   |   +--:(sfm)
  |   |   |   |   |   |   |   +---w sfm?    sfmnum
  |   |   |   |   |   |   |   +--:(psu)
  |   |   |   |   |   |   |   |   +---w psu?    psunum
  |   +--rw latch-detection-config
  |   |   +--rw disable-latch-detection
  |   |   |   +---x latch-detection-disable
  |   |   |   |   +---w input
  |   |   |   |   |   +---w (blade-type)?
  |   |   |   |   |   |   +--:(linecard)
  |   |   |   |   |   |   |   +---w linecard  fusion_slotnum
  |   |   +--rw enable-latch-detection
  |   |   |   +---x latch-detection-enable
  |   |   |   |   +---w input
  |   |   |   |   |   +---w (blade-type)?
  |   |   |   |   |   |   +--:(linecard)
  |   |   |   |   |   |   |   +---w linecard  fusion_slotnum

```

## History

Release version	History
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was updated to include the command <i>enable-latch-detection</i> .

# 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
16r.1.00	This Yang Module was introduced.

# brocade-lldp-ext

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

## RPCs

```

rpcs:
  +---x get-lldp-neighbor-detail
    +---w input
    | +---w (request-type)?
    |   +---:(get-request)
    |     | +---w interface-type?      enumeration
    |     | +---w interface-name?     union
    |     +---:(get-next-request)
    |     +---w 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
16r.1.00	This YANG module was introduced.

# brocade-mac-access-list

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

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

## Top-level container

```

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

## RPCs

Return the ingress and egress policies for an interface:

```

rpcs:
  +---x get-mac-acl-for-intf
    +---w input
      | +---w interface-type?  enumeration
      | +---w interface-name?  union
      | +---w direction?      enumeration
    +---ro output
      +---ro interface* [interface-type interface-name]
        +---ro interface-type  enumeration
  
```

```

+--ro interface-name    union
+--ro ingress-policy*
|  +--ro policy-name?   string
+--ro egress-policy*
   +--ro policy-name?   string

```

## History

Release version	History
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was modified to include to leaf <i>vlan-id</i> , <i>vlan-id-mask</i> , <i>vlan-tag-format</i> , <i>inner-vlan-id</i> , <i>inner-vlan-id-mask</i> , and <i>arp-guard</i> .

# brocade-mac-address-table

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

## Top-level container

```

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

```

## RPCs

```

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

```

## History

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

# brocade-mc-hms-operational

Manages the multicast operational information.

## Top-level container

```

module: brocade-mc-hms-operational
  +--ro igmp-snooping-state
  | +--ro multicast-ssm-mapping
  | | +--ro ssm-maps* [prefix-list-name]
  | | | +--ro prefix-list-name string
  | | | +--ro src-ip-addr? inet:ipv4-address
  | +--ro igmp-statistics
  | | +--ro igmp-statistics* [interface-name]
  | | | +--ro interface-name string
  | | | +--ro query-edge-recvd? uint32
  | | | +--ro query-edge-sent? uint32
  | | | +--ro query-edge-rx-errors? uint32
  | | | +--ro v1-report-edge-recvd? uint32
  | | | +--ro v1-report-edge-sent? uint32
  | | | +--ro v1-report-edge-rx-errors? uint32
  | | | +--ro v2-report-edge-recvd? uint32
  | | | +--ro v2-report-edge-sent? uint32
  | | | +--ro v2-report-edge-rx-errors? uint32
  | | | +--ro v3-report-edge-recvd? uint32
  | | | +--ro v3-report-edge-sent? uint32
  | | | +--ro v3-report-edge-rx-errors? uint32
  | | | +--ro grp-leave-edge-recvd? uint32
  | | | +--ro grp-leave-edge-sent? uint32
  | | | +--ro grp-leave-edge-rx-errors? uint32
  | | | +--ro pim-hello-edge-recvd? uint32
  | | | +--ro pim-hello-edge-sent? uint32
  | | | +--ro pim-hello-edge-rx-errors? uint32
  | | | +--ro error-unknown-types? uint32
  | | | +--ro error-bad-length? uint32
  | | | +--ro error-bad-checksum? uint32
  | +--ro debug-igmp
  | | +--ro enable-any? uint8
  | | +--ro error? uint8
  | | +--ro events? uint8
  | | +--ro group? uint8
  | | +--ro packets? uint8
  | | +--ro grp-addr? inet:ipv4-address
  | | +--ro protocol? uint8
  | | +--ro query? uint8
  | | +--ro v1-report? uint8
  | | +--ro direction? string
  | | +--ro phy-port-name? string
  | | +--ro io-port-name? string
  | +--ro igmp-snooping-vlans* [vlan-id]
  | | +--ro vlan-id uint32
  | | +--ro igmp-snooping-vlans* [vlan-id]
  | | | +--ro vlan-id uint32
  | | | +--ro multicast-router-ports? string
  | | | +--ro is-querier? uint8
  | | | +--ro igmp-operation-mode? uint32
  | | | +--ro fast-leave? uint8
  | | | +--ro qmrt? uint32
  | | | +--ro lmqi? uint32
  | | | +--ro qi? uint32
  | | | +--ro version? uint8
  | | | +--ro num-of-mcast-grps? uint32
  | | | +--ro vlan-groups* [grp-ip-addr]
  | | | | +--ro grp-ip-addr inet:ipv4-address
  | | | | +--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 igmp-querier]
| |     +---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      inet:ipv4-address
| |     +---ro is-igmp-querier-local? uint8
| |     +---ro igmp-version?     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        inet:ipv4-address
| |     +---ro interface-name    string
| |     +---ro uptime?          string
| |     +---ro expiry-time?     string
| |     +---ro last-reporter?    inet:ipv4-address
| |     +---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    inet:ipv4-address
| |     | +---ro excl-src-ip* [ipv4-addr]
| |     | +---ro ipv4-addr      inet:ipv4-address
+---ro igmp-mct-groups* [cluster-id client-id]
| |     +---ro cluster-id      uint32
| |     +---ro client-id      uint32
| |     +---ro igmp-entry* [grp-addr src-addr interface-name member-intf]
| |     +---ro grp-addr        string
| |     +---ro src-addr        string
| |     +---ro interface-name  string
| |     +---ro member-intf     string
| |     +---ro member-type?    string
| |     +---ro filter-mode?    string
| |     +---ro mcast-df?       string
| |     +---ro peer-addr?     string
+---ro pim-snp-groups* [vlan-id type]
| |     +---ro vlan-id        uint32
| |     +---ro type          string
| |     +---ro pim-snp-groups* [group-addr vlan-id]
| |     +---ro group-addr      inet:ipv4-address
| |     +---ro vlan-id        uint32
| |     +---ro uptime?        string
| |     +---ro expiry-time?   string
| |     +---ro last-reporter?  inet:ipv4-address
| |     +---ro pim-snp-sources* [src-addr]
| |     | +---ro src-addr        inet:ipv4-address
| |     | +---ro src-flags?     uint8
| |     | +---ro src-uptime?    string
| |     | +---ro pim-snp-sg-member-ports* [interface-name]
| |     | | +---ro interface-name string
| |     | | +---ro mbr-flags?    uint8
| |     | | +---ro flag-string?  string
| |     | | +---ro mbr-uptime?   string
| |     +---ro pim-snp-wg-member-ports* [interface-name]
| |     +---ro interface-name  string
| |     +---ro mbr-flags?     uint8
| |     +---ro flag-string?    string
| |     +---ro mbr-uptime?     string
+---ro igmp-multicast-snooping-vlans* [vlan-id]
| |     +---ro vlan-id        uint32
| |     +---ro igmp-multicast-snooping-vlans* [vlan-id]
| |     +---ro vlan-id        uint32

```



```

| |      +--ro pim-sn-status?      uint8
| |      +--ro igmp-sn-status?     uint8
| |      +--ro igmp-version?      uint8
+--ro igmp-interface-statistics
|   +--ro interface-name?         string
|   +--ro query-edge-recvd?       uint32
|   +--ro query-edge-sent?        uint32
|   +--ro query-edge-rx-errors?   uint32
|   +--ro v1-report-edge-recvd?   uint32
|   +--ro v1-report-edge-sent?    uint32
|   +--ro v1-report-edge-rx-errors? uint32
|   +--ro v2-report-edge-recvd?   uint32
|   +--ro v2-report-edge-sent?    uint32
|   +--ro v2-report-edge-rx-errors? uint32
|   +--ro v3-report-edge-recvd?   uint32
|   +--ro v3-report-edge-sent?    uint32
|   +--ro v3-report-edge-rx-errors? uint32
|   +--ro grp-leave-edge-recvd?   uint32
|   +--ro grp-leave-edge-sent?    uint32
|   +--ro grp-leave-edge-rx-errors? uint32
|   +--ro pim-hello-edge-recvd?   uint32
|   +--ro pim-hello-edge-sent?    uint32
|   +--ro pim-hello-edge-rx-errors? uint32
|   +--ro error-unknown-types?    uint32
|   +--ro error-bad-length?       uint32
|   +--ro error-bad-checksum?     uint32
+--ro igmp-multicast-snooping-bridge-domains-state* [bd-id]
|   +--ro bd-id                   uint32
|   +--ro igmp-multicast-snooping-bridge-domains* [bd-id]
|       +--ro bd-id               uint32
|       +--ro pim-sn-status?      uint8
|       +--ro igmp-sn-status?     uint8
|       +--ro igmp-version?      uint8
+--ro igmp-snooping-bridge-domain-mrouters-state* [bd-id]
|   +--ro bd-id                   uint32
|   +--ro igmp-snooping-bridge-domain-mrouters* [bd-id]
|       +--ro bd-id               uint32
|       +--ro interface-name?    string
|       +--ro expiry-time?       int32
+--ro igmp-snooping-bridge-domains-state* [bd-id]
|   +--ro bd-id                   uint32
|   +--ro igmp-snooping-bridge-domains* [bd-id]
|       +--ro bd-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 num-of-mcast-grps?  uint32
|       +--ro vlan-groups* [grp-ip-addr]
|           +--ro grp-ip-addr    inet:ipv4-address
|           +--ro member-ports? string

```

## History

Release version	History
16r.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 peer-interface
      | +--rw peer-if-type?     enumeration
      | +--rw peer-if-name?    peer-ifname
    +--rw peer* [peer-ip]
      | +--rw peer-ip          inet:ipv4-address
      | +--rw source
      |   +--rw interface
      |     | +--rw loopback?  loopback:intf-loopback-port-type
      |     | +--rw source_ip? inet:ipv4-address
    +--rw client-interfaces-shutdown? empty
    +--rw client-isolation
      | +--rw strict?         empty
      | +--rw loose?         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
    +--rw client-pw!
      +--rw client-pw-esi?    cluster-client-esi
      +--rw client-pw-deploy? empty
  
```

## History

Release version	History
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was modified to include container <i>bridge-domain</i> and <i>client-pw</i> .

# brocade-mpls

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

## Top-level container

```

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

```

```

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

```

```

| | +--rw rsvp-hello-disable?          empty
| | +--rw rsvp-te-metric?             uint32
| | +--rw rsvp-intf-flooding-threshold
| | | +--rw rsvp-intf-flooding-threshold-down*  uint32
| | | +--rw rsvp-intf-flooding-threshold-up*    uint32
| | +--rw interface-rsvp-admin-group*  string
| | +--rw interface-refresh-reduction
| | | +--rw summary-refresh?          empty
| | | +--rw bundle-message!
| | | | +--rw bundle-send-delay?      uint32
| | | +--rw rsvp-refresh-reduction-disable?  empty
| | +--rw interface-reliable-messaging!
| | | +--rw rapid-retrans-decay?      uint32
| | | +--rw rapid-retrans-interval?   uint32
| | | +--rw rapid-retry-limit?        uint32
| | | +--rw rsvp-reliable-messaging-disable? empty
+--rw interface-dynamic-bypass!
|   +--rw mpls-interface-dynamic-bypass-sub-cmds
|   | +--rw interface-dynamic-bypass-disable?          empty
|   | +--rw interface-dynamic-bypass-max-bypasses?    uint32
|   | +--rw interface-dynamic-bypass-max-bypasses-per-mp?  uint32
|   | +--rw interface-dynamic-bypass-reoptimize-timer?    uint32
|   | +--rw interface-dynamic-bypass-cos?                uint32
|   | +--rw interface-dynamic-bypass-from?              inet:ip-address
|   | +--rw interface-dynamic-bypass-adaptive?          enable-disable
|   | +--rw interface-dynamic-bypass-record-route?      enable-disable
|   | +--rw interface-dynamic-bypass-hop-limit?        uint8
|   | +--rw interface-dynamic-bypass-exclude-any*      string
|   | +--rw interface-dynamic-bypass-include-any*      string
|   | +--rw interface-dynamic-bypass-include-all*     string
|   | +--rw interface-dynamic-bypass-primary-path?    string
|   | +--rw interface-dynamic-bypass-name-prefix?     string
|   | +--rw interface-dynamic-bypass-tie-breaking?    tie-breaking
|   | +--rw interface-dynamic-bypass-cspf-computation-mode?  cspf-computation-mode
|   | +--rw priority
|   | | +--rw interface-dynamic-bypass-setup-priority?    uint32
|   | | +--rw interface-dynamic-bypass-holding-priority?  uint32
|   | +--rw traffic-eng
|   | | +--rw interface-dynamic-bypass-traffic-eng-max-burst?  uint32
|   | | +--rw interface-dynamic-bypass-traffic-eng-max-rate?  uint32
|   | | +--rw interface-dynamic-bypass-traffic-eng-mean-rate?  uint32
+--rw autobw-template* [autobw-template-name]
| +--rw autobw-template-name  string
| +--rw adjustment-interval?  uint32
| +--rw adjustment-threshold
| | +--rw (threshold-options)?
| | | +--:(threshold-case-percentage)
| | | | +--rw threshold-percentage?  uint32
| | | +--:(threshold-case-table)
| | | | +--rw use-threshold-table?  empty
| +--rw min-bandwidth?          uint32
| +--rw max-bandwidth?          uint32
| +--rw overflow-limit?         uint32
| +--rw underflow-limit?        uint32
| +--rw mode?                   autobw-mode
| +--rw sample-recording?       enable-disable
+--rw autobw-threshold-table!
| +--rw autobw-threshold-table-bandwidth* [bandwidth-value]
| | +--rw bandwidth-value          uint32
| | +--rw autobw-threshold-table-threshold?  uint32
+--rw max-bw-threshold
|   +--rw (max-bw-threshold-options)?
|   | +--:(max-bw-threshold-case-absolute)
|   | | +--rw max-bw-threshold-absolute?  uint32
|   | +--:(max-bw-threshold-case-percentage)
|   | | +--rw max-bw-threshold-percentage?  uint32
+--rw cspf-group* [cspf-group-name]
| +--rw cspf-group-name          string
| +--rw cspf-group-ip* [cspf-group-ip-address]
| | +--rw cspf-group-ip-address  inet:ipv4-address
| +--rw cspf-group-link* [cspf-group-link-from cspf-group-link-to]
| | +--rw cspf-group-link-from  inet:ipv4-address

```

```

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

```

```

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

```

```

+--rw lsp-select-path
| +--rw lsp-select-path-mode?          enumeration
| +--rw (choice-lsp-select-path-type)?
|   +--:(case-lsp-select-path-type-primary)
|     | +--rw lsp-select-path-primary?    empty
|     +--:(case-lsp-select-path-type-secondary)
|       +--rw lsp-select-path-secondary-name? string
+--rw lsp-enable?                      empty

```

## RPCs

```

rpcs:
+---x clear-mpls-lsp
| +---w input
|   +---w mpls-clear-lsp-name-in?  string
+---x mpls-reopt-lsp
| +---w input
|   +---w mpls-reoptimize-lsp-name-in?  string
+---x clear-mpls-rsvp-statistics
| +--ro output
|   +--ro clear-mpls-rsvp-statistics-out
|     +--ro clear-mpls-rsvp-statistics-ret-msg?  string
+---x clear-mpls-rsvp-statistics-neighbor
| +---w input
| | +---w clear-mpls-rsvp-statistics-neighbor-address?  mpls-ipv4-address
| | +---w clear-mpls-rsvp-statistics-neighbor-all?    boolean
| +--ro output
|   +--ro clear-mpls-rsvp-statistics-neighbor-out
|     +--ro clear-mpls-rsvp-statistics-neighbor-ret-msg?  string
+---x clear-mpls-ldp-statistics
| +--ro output
|   +--ro clear-mpls-ldp-statistics-out
|     +--ro clear-mpls-ldp-statistics-ret-msg?  string
+---x clear-mpls-statistics
| +---w input
| | +---w mpls-clear-statistics-type?  uint8
| | +---w protocol?                   string
| | +---w fec-prefix?                 mpls-ipv4-prefix
| | +---w prefix-address?             mpls-ipv4-address
| | +---w prefix-mask?               mpls-ipv4-subnet-mask
| | +---w label?                     uint8
| | +---w in-label?                  uint32
| | +---w tunnel-id-present?         uint8
| | +---w tunnel-id?                 uint32
| | +---w bypass?                    uint8
| | +---w tunnel-name?               string
| | +---w tunnel-dest?               mpls-ipv4-address
| +--ro output
|   +--ro mpls-clear-statistics-ret-msg?  string
+---x clear-mpls-statistics-ldp-tunnel
| +---w input
| | +---w clear-statistics-ldp-tunnel-id?  uint32
| +--ro output
|   +--ro clear-mpls-statistics-ldp-tunnel-out
|     +--ro clear-mpls-statistics-ldp-tunnel-ret-msg?  string
+---x clear-mpls-ldp-neighbor
| +---w input
| | +---w mpls-clear-all-ldp-sessions?  boolean
| | +---w mpls-clear-one-ldp-sessions?  inet:ipv4-address
| +--ro output
|   +--ro clear-mpls-ldp-neighbor-out
|     +--ro clear-mpls-ldp-neighbor-ret-msg?  string
+---x clear-mpls-statistics-ldp-transit
| +---w input
| | +---w clear-statistics-ldp-transit-fec-prefix?  mpls-ipv4-prefix
| | +---w clear-statistics-ldp-transit-fec-prefix-address?  mpls-ipv4-address
| | +---w clear-statistics-ldp-transit-fec-prefix-mask?  mpls-ipv4-subnet-mask
| +--ro output
|   +--ro clear-mpls-statistics-ldp-tunnel-out

```



```

|         +--ro clear-mpls-statistics-ldp-transit-ret-msg?  string
+---x clear-mpls-auto-bandwidth-statistics-lsp
| +---w input
| | +---w lsp-name?  string
| +--ro output
|         +--ro clear-mpls-auto-bandwidth-statistics-lsp-ret-msg?  string
+---x clear-mpls-auto-bandwidth-sample-history-lsp
| +---w input
| | +---w lsp-name?  string
| +--ro output
|         +--ro clear-mpls-auto-bandwidth-sample-history-lsp-ret-msg?  string
+---x mpls-adjust-bandwidth-lsp
+---w input
| +---w lsp-name?  string
+--ro output
+--ro adjust-bandwidth-lsp-ret-msg?  string

```

## History

Release version	History
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was modified to container <i>source-interface</i> and <i>leaf source-interface-name</i> , and <i>source-interface-value</i> were added..

# brocade-mpls-operational

Manages the MPLS operational information.

## Top-level container

```

module: brocade-mpls-operational
  +--ro mpls-state
  | +--ro paths-configured?          uint32
  | +--ro lsps-configured?          uint32
  | +--ro lsps-enabled?             uint32
  | +--ro lsps-operational?         uint32
  | +--ro detour-lsps-up?           uint32
  | +--ro backup-lsps-up?          uint32
  | +--ro bypass-lsps?             uint32
  | +--ro bypass-lsps-up?          uint32
  | +--ro bypass-lsps-enabled?      uint32
  | +--ro ldp-lsps-operational?     uint32
  | +--ro transit-lsps-configured?  uint32
  | +--ro transit-lsps-enabled?     uint32
  | +--ro transit-lsps-operational? uint32
  | +--ro cspf-groups-configured?   uint32
  | +--ro tunnels-supported?        uint32
  | +--ro tunnels-allocated?        uint32
  | +--ro cross-connects-supported? uint32
  | +--ro cross-connects-allocated? uint32
  | +--ro auto-bw-templates-supported? uint32
  | +--ro auto-bw-templates-configured? uint32
  | +--ro times-enabled?            uint32
  | +--ro ldp
  | | +--ro ldp-initialized?        boolean
  | | +--ro lsr-id?                 inet:ipv4-address
  | | +--ro lsr-id-configured?      boolean
  | | +--ro loopback?               uint8
  | | +--ro hello-interval-link?    uint32
  | | +--ro hello-interval-target?  uint32
  | | +--ro hold-time-sent-link?     uint32
  | | +--ro hold-time-sent-target?   uint32
  | | +--ro ka-interval?            uint32
  | | +--ro ka-multiple?            uint32
  | | +--ro ka-timeout?             uint32
  | | +--ro ka-timeout-default?     boolean
  | | +--ro load-sharing?           uint8
  | | +--ro advertise-fecs-for-prefix-list? string
  | | +--ro advertise-fecs-for-prefix-list-exists? boolean
  | | +--ro inbound-fecs-filtering-prefix-list? string
  | | +--ro inbound-fecs-filtering-prefix-list-exists? boolean
  | | +--ro outbound-fecs-filtering-prefix-list? string
  | | +--ro outbound-fecs-filtering-prefix-list-exists? boolean
  | | +--ro tunnel-metric?          uint16
  | | +--ro fec-128-used-for-auto-disc-current? boolean
  | | +--ro fec-128-used-for-auto-disc-configured? boolean
  | | +--ro end-of-lib?             boolean
  | | +--ro eol-notification-time?  uint32
  | | +--ro tx-silence-time?        uint32
  | | +--ro rx-silence-time?        uint32
  | | +--ro gr-enable?              boolean
  | | +--ro gr-helper?              boolean
  | | +--ro gr-reconnect-time?      uint32
  | | +--ro gr-max-peer-reconnect-time? uint32
  | | +--ro gr-recovery-time?       uint32
  | | +--ro gr-max-peer-recovery-time? uint32
  | | +--ro forwarding-state-timer-running? boolean
  | | +--ro forwarding-state-timer-remaining? uint32
  | | +--ro lwd-delay?              uint32
  | | +--ro lwd-default?            boolean
  | | +--ro ldp-session-summary
  | | | +--ro num-link-sessions?    uint32

```

```

| | | +--ro num-operational-link-sessions?      uint32
| | | +--ro num-targeted-sessions?            uint32
| | | +--ro num-operational-targeted-sessions? uint32
| | +--ro tunnels
| | | +--ro total-tunnel-count?      uint32
| | | +--ro ldp-tunnels* [tunnel-destination prefix-length]
| | | | +--ro tunnel-interface-index? uint32
| | | | +--ro tunnel-metric?          uint32
| | | | +--ro name?                   string
| | | | +--ro tunnel-vif?             uint32
| | | | +--ro protocol-type?         mpls-protocol-type
| | | | +--ro out-segments* [outgoing-interface]
| | | | | +--ro outgoing-interface   string
| | | | | +--ro next-hop-ipaddress?  inet:ipv4-address
| | | | +--ro tunnel-destination     inet:ipv4-address
| | | | +--ro prefix-length          uint32
| | +--ro statistics
| | | +--ro protocol-errors* [stats-group]
| | | | +--ro stats-group            mpls-ldp-stats-error-group
| | | | +--ro protocol-error* [error-type]
| | | | | +--ro error-type          uint32
| | | | | +--ro count?             uint32
| | | | +--ro protocol-stats* [stats-group]
| | | | | +--ro stats-group          mpls-ldp-stats-error-group
| | | | +--ro protocol-stat* [stat-type]
| | | | | +--ro stat-type           uint32
| | | | | +--ro rx-count?          uint32
| | | | | +--ro tx-count?          uint32
| | +--ro ldp-fec-statistics
| | | +--ro number-of-prefix-fec?      uint32
| | | +--ro number-of-prefix-fec-installed? uint32
| | | +--ro number-of-prefix-fec-filtered-in? uint32
| | | +--ro number-of-prefix-fec-filtered-out? uint32
| | | +--ro number-of-vc-fec-128?     uint32
| | | +--ro number-of-vc-fec-129?     uint32
| | | +--ro number-of-vc-fec-installed? uint32
| | | +--ro number-of-route-upd-proc-errors? uint32
| | | +--ro number-of-vc-fec-proc-errors? uint32
| | | +--ro number-of-prefix-fec-lwd?  uint32
| | | +--ro number-of-vc-fec?         uint32
| | +--ro interface* [interface-name]
| | | +--ro interface-index?          uint32
| | | +--ro interface-name           string
| | | +--ro label-space?             uint32
| | | +--ro neighbor-count?          uint32
| | | +--ro hello-interval?          uint32
| | | +--ro hello-timeout?           uint32
| | | +--ro hello-next?              uint32
| | +--ro ldp-database* [peer-ip own-ip]
| | | +--ro peer-ip                   inet:ipv4-address
| | | +--ro own-ip                     inet:ipv4-address
| | | +--ro upstream* [index]
| | | | +--ro label?                  uint32
| | | | +--ro prefix?                 inet:ipv4-address
| | | | +--ro prefix-length?          uint32
| | | | +--ro fec-type?               uint32
| | | | +--ro stale?                  boolean
| | | | +--ro index                   uint32
| | | +--ro downstream* [index]
| | | | +--ro label?                  uint32
| | | | +--ro prefix?                 inet:ipv4-address
| | | | +--ro prefix-length?          uint32
| | | | +--ro fec-type?               uint32
| | | | +--ro stale?                  boolean
| | | | +--ro index                   uint32
| | | | +--ro state?                  string
| | | | +--ro filtered?               boolean
| | | | +--ro lwd?                    boolean
| | +--ro targeted-peer* [mpls-ldp-targeted-peer-id]
| | | +--ro mpls-ldp-targeted-peer-id inet:ipv4-address
| | +--ro path* [path-key]
| | | +--ro path-key                  uint32

```

```

| | | +--ro destination-route?      inet:ipv4-prefix
| | | +--ro upstream-sessions* [ip]
| | | | +--ro ip                    inet:ipv4-address
| | | | +--ro labelspace?          uint32
| | | | +--ro label?                uint32
| | | +--ro downstream-sessions* [ip interface]
| | |   +--ro ip                    inet:ipv4-address
| | |   +--ro interface             string
| | |   +--ro labelspace?          uint32
| | |   +--ro label?                uint32
| | +--ro ldp-neighbors* [neighbor-ldpid labelspaceid]
| |   +--ro neighbor-ldpid          inet:ipv4-address
| |   +--ro labelspaceid           uint8
| |   +--ro neighbor-transport?    inet:ipv4-address
| |   +--ro interface-name?        string
| |   +--ro max-hold-time?          uint32
| |   +--ro time-left?              uint32
| |   +--ro up-time?                string
| |   +--ro configured-hold-time?   uint32
| |   +--ro neighbor-proposed-hold-time? uint32
| | +--ro ldp-session* [peer-ldp-id peer-label-space-id]
| |   +--ro peer-ldp-id             inet:ipv4-address
| |   +--ro peer-label-space-id     uint8
| |   +--ro state?                  string
| |   +--ro adjacency?              string
| |   +--ro role?                    string
| |   +--ro max-hold?                uint32
| |   +--ro time-left?              uint32
| |   +--ro session-status?         string
| |   +--ro local-ldp-id?           string
| |   +--ro local-lblspc-id?        string
| |   +--ro next-keepalive?         uint32
| |   +--ro entity-index?           uint32
| |   +--ro targeted-adj-added?     string
| |   +--ro is-retry?               boolean
| |   +--ro next-retry?             uint32
| |   +--ro keepalive-interval?     uint32
| |   +--ro local-keepalive-timeout? uint32
| |   +--ro peer-proposed-keepalive-timeout? uint32
| |   +--ro session-up-time?        string
| |   +--ro md5-auth-key?           string
| |   +--ro tcp-conn-local?         string
| |   +--ro tcp-conn-remote?        string
| |   +--ro tcp-state?              string
| |   +--ro num-fecs-received-from-peer? uint32
| |   +--ro num-fecs-installed-from-peer? uint32
| |   +--ro is-fecs-pending-uninstall? boolean
| |   +--ro num-fecs-filtered-out?   uint32
| |   +--ro num-fecs-filtered-in?    uint32
| |   +--ro filter-prefix-list-name? string
| |   +--ro filter-prefix-list-exists? boolean
| |   +--ro is-only-gr-valid?        boolean
| |   +--ro gr-enabled?              boolean
| |   +--ro peer-reconnect-time?     uint32
| |   +--ro peer-recovery-time?      uint32
| |   +--ro reconnect-time-in-use?   uint32
| |   +--ro reconnect-time-remaining? uint32
| |   +--ro recovery-time-in-use?    uint32
| |   +--ro recovery-time-remaining? uint32
| |   +--ro gr-state?                string
| |   +--ro local-eol-unrecognized-notification? boolean
| |   +--ro remote-eol-unrecognized-notification? boolean
| |   +--ro does-session-support-eol? boolean
| |   +--ro local-state?             boolean
| |   +--ro remote-state?            boolean
| |   +--ro eol-notification-time?   uint32
| |   +--ro eol-notification-time-remaining? uint32
| |   +--ro eol-tx-label-silence-time? uint32
| |   +--ro eol-tx-label-silence-time-remaining? uint32
| |   +--ro eol-rx-label-silence-time? uint32
| |   +--ro eol-rx-label-silence-time-remaining? uint32
| |   +--ro filtered?                session-filter-type

```

```

| | | +---ro interfaces*                               string
| | | +---ro addresses*                             string
| | | +---ro session-ldp-stats
| | | | +---ro protocol-errors* [stats-group]
| | | | | +---ro stats-group           mpls-ldp-stats-error-group
| | | | | +---ro protocol-error* [error-type]
| | | | | +---ro error-type            uint32
| | | | | +---ro count?                uint32
| | | | +---ro protocol-stats* [stats-group]
| | | | | +---ro stats-group           mpls-ldp-stats-error-group
| | | | | +---ro protocol-stat* [stat-type]
| | | | | +---ro stat-type             uint32
| | | | | +---ro rx-count?            uint32
| | | | | +---ro tx-count?            uint32
| | | +---ro filtered-fecs-in* [fec-addr fec-type]
| | | | +---ro fec-addr                inet:ipv4-prefix
| | | | +---ro fec-type                fec-type
| | | | +---ro label?                 uint32
| | | +---ro filtered-fecs-out* [fec-addr fec-type]
| | | | +---ro fec-addr                inet:ipv4-prefix
| | | | +---ro fec-type                fec-type
| | +---ro ldp-fec-prefix* [destination]
| | | +---ro destination                string
| | | +---ro state?                    string
| | | +---ro ingress?                  string
| | | +---ro egress?                   string
| | | +---ro filtered?                  string
| | | +---ro lwd?                       string
| | | +---ro filter-type?               fec-filter-type
| | | +---ro prefix-filtered?          string
| | | +---ro longer?                   boolean
| | | +---ro prefix-feccb?             uint32
| | | +---ro prefix-idx?               uint32
| | | +---ro prefix-type?              uint32
| | | +---ro prefix-pend-notif?        string
| | | +---ro prefix-um-dist-done?      string
| | | +---ro prefix-lwd-started?       string
| | | +---ro prefix-is-ldp-o-rsvp?     boolean
| | | +---ro prefix-excess-dms?        boolean
| | | +---ro nexthops* [nexthop]
| | | | +---ro nexthop                 string
| | | | +---ro out-intf?               string
| | | +---ro prefix-downstream* [mapping-index]
| | | | +---ro local-ldp-id?            inet:ipv4-address
| | | | +---ro local-ldp-lblspc?       uint32
| | | | +---ro peer-ldp-id?            inet:ipv4-address
| | | | +---ro peer-ldp-lblspc?       uint32
| | | | +---ro label?                  uint32
| | | | +---ro state?                  string
| | | | +---ro fec-filtered-state?     uint32
| | | | +---ro fec-stale?              uint32
| | | | +---ro feccb?                  uint32
| | | | +---ro fec-dm-state-dw?        uint32
| | | | +---ro mapping-index           uint32
| | | +---ro prefix-upstream* [mapping-index]
| | | | +---ro local-ldp-id?            inet:ipv4-address
| | | | +---ro local-ldp-lblspc?       uint32
| | | | +---ro peer-ldp-id?            inet:ipv4-address
| | | | +---ro peer-ldp-lblspc?       uint32
| | | | +---ro label?                  uint32
| | | | +---ro state?                  string
| | | | +---ro fec-filtered-state?     uint32
| | | | +---ro fec-stale?              uint32
| | | | +---ro feccb?                  uint32
| | | | +---ro fec-dm-state-dw?        uint32
| | | | +---ro mapping-index           uint32
| | +---ro ldp-fec-vc* [peer-id vc-id vc-fec-type vc-type]
| | | +---ro peer-id                    inet:ipv4-address
| | | +---ro vc-id                      uint32
| | | +---ro vc-fec-type                uint32
| | | +---ro vc-type                    uint32
| | | +---ro peer-lblspc?               uint32

```

```

| |     +---ro state?                               string
| |     +---ro peer-vc-type?                       uint32
| |     +---ro ingress?                           string
| |     +---ro egress?                            string
| |     +---ro vc-feccb?                          uint32
| |     +---ro vc-idx?                            uint32
| |     +---ro prefix-pend-notif?                 string
| |     +---ro prefix-um-dist-done?              string
| |     +---ro vc-grp-id?                        uint32
| |     +---ro vc-local-mtu?                     uint32
| |     +---ro vc-remote-mtu?                   uint32
| |     +---ro vc-mtu-enforcement?              uint32
| |     +---ro vc-agi?                           string
| |     +---ro vc-local-flow-label-tx?          uint32
| |     +---ro vc-local-flow-label-rx?          uint32
| |     +---ro vc-remote-flow-label-tx?         uint32
| |     +---ro vc-remote-flow-label-rx?         uint32
| |     +---ro vc-control-word-preferred?       uint32
| |     +---ro vc-control-word-in-use?          uint32
| |     +---ro vc-downstream* [mapping-index]
| |     | +---ro local-ldp-id?                    inet:ipv4-address
| |     | +---ro local-ldp-lblspc?               uint32
| |     | +---ro peer-ldp-id?                   inet:ipv4-address
| |     | +---ro peer-ldp-lblspc?               uint32
| |     | +---ro label?                         uint32
| |     | +---ro state?                         string
| |     | +---ro fec-filtered-state?            uint32
| |     | +---ro fec-stale?                    uint32
| |     | +---ro feccb?                         uint32
| |     | +---ro fec-dm-state-dw?               uint32
| |     | +---ro mapping-index                  uint32
| |     +---ro vc-upstream* [mapping-index]
| |     | +---ro local-ldp-id?                    inet:ipv4-address
| |     | +---ro local-ldp-lblspc?               uint32
| |     | +---ro peer-ldp-id?                   inet:ipv4-address
| |     | +---ro peer-ldp-lblspc?               uint32
| |     | +---ro label?                         uint32
| |     | +---ro state?                         string
| |     | +---ro fec-filtered-state?            uint32
| |     | +---ro fec-stale?                    uint32
| |     | +---ro feccb?                         uint32
| |     | +---ro fec-dm-state-dw?               uint32
| |     | +---ro mapping-index                  uint32
+---ro memory
| |     +---ro total-non-pool-memory?            uint32
| |     +---ro pools* [pool-index]
| |     | +---ro pool-index                      uint32
| |     | +---ro sub-pools* [sub-pool-index]
| |     | | +---ro sub-pool-index                uint32
| |     | | +---ro gen-size?                     uint32
| |     | | +---ro block-size?                  uint32
| |     | | +---ro gen-blocks?                  uint32
| |     | | +---ro current-gens?                uint32
| |     | | +---ro current-blocks?              uint32
| |     | | +---ro free-blocks?                 uint32
| |     +---ro stats* [mem-stats-index]
| |     | +---ro mem-stats-index                uint32
| |     | +---ro mem-type?                      string
| |     | +---ro num-alloc?                     uint32
| |     | +---ro total-bytes?                   uint32
| |     | +---ro total-allocs?                  uint32
| |     | +---ro total-frees?                   uint32
| |     | +---ro peak-alloc?                    uint32
| |     | +---ro alloc-fails?                   uint32
| |     | +---ro free-fails?                    uint32
+---ro policy
| |     +---ro cspf-intf?                       uint8
| |     +---ro cspf-group-computation-mode?     mpls-cspf-grp-comp-mode
| |     +---ro cspf-comp-mode?                  uint32
| |     +---ro cspf-comp-ignore-overload-bit?   uint8
| |     +---ro implicit-commit-value?           uint32
| |     +---ro qos-ttl-mode?                     qos-ttl-mode

```

```

| | +--ro rtm-route-filter-enabled?          boolean
| | +--ro rtm-route-filter-all-ibgp-enabled?  boolean
| | +--ro ingress-tnnl-actg?                uint8
| | +--ro transit-session-actg?            uint8
| | +--ro load-interval?                    uint16
| | +--ro te-policy-protocol?               te-protocol
| | +--ro te-policy-flags?                  uint16
| | +--ro te-policy-area?                   uint32
| | +--ro handle-isis-nbr-down?             uint8
| | +--ro handle-ospf-nbr-down?             uint8
| | +--ro max-lsp-retries?                  uint16
| | +--ro fast-retry-on?                    uint8
| | +--ro lsp-retry-interval?               uint16
| | +--ro frr-backup-retry-interval?        uint32
| | +--ro auto-bandwidth-enabled?           uint8
| | +--ro autobw-sample-interval?           uint32
| | +--ro autobw-num-sample-record?         uint32
| | +--ro soft-preempt-cleanup-timer?       uint16
| | +--ro rsvp-periodic-flooding-timer?     uint16
| | +--ro switchover-activation-delay?      uint32
| | +--ro switchover-hold-tear-delay?      uint32
| | +--ro admin-groups* [name]
| | | +--ro name                            string
| | | +--ro group-number?                   uint8
| | +--ro rsvp-flooding-thresholds* [threshold-type]
| | | +--ro threshold-type                  string
| | | +--ro flooding-thresholds*           uint32
+--ro rsvp
| | +--ro protocol-status?                  boolean
| | +--ro refresh-interval?                 uint16
| | +--ro refresh-multiple?                 uint16
| | +--ro transport-address?                inet:ipv4-address
| | +--ro delay-resv-sending?               boolean
| | +--ro backup-bandwidth-requirement?     boolean
| | +--ro msgid-epoch*                       uint32
| | +--ro statistics
| | | +--ro packet-error-counters
| | | | +--ro rx-pkt-bad-length?             uint64
| | | | +--ro rx-pkt-unknown-type?           uint64
| | | | +--ro rx-pkt-bad-version?           uint64
| | | | +--ro rx-pkt-bad-checksum?          uint64
| | | | +--ro mem-alloc-fail?                uint64
| | | | +--ro rx-md5-auth-error?            uint64
| | | | +--ro path-state-timeout?           uint64
| | | | +--ro resv-state-timeout?           uint64
| | | | +--ro pkt-with-msg-id-drop?         uint64
| | | | +--ro pkt-with-sref-drop?           uint64
| | | | +--ro rx-pkt-bad-length-since-last-clear?  uint64
| | | | +--ro rx-pkt-unknown-type-since-last-clear?  uint64
| | | | +--ro rx-pkt-bad-version-since-last-clear?  uint64
| | | | +--ro rx-pkt-bad-checksum-since-last-clear?  uint64
| | | | +--ro mem-alloc-fail-since-last-clear?      uint64
| | | | +--ro rx-md5-auth-error-since-last-clear?  uint64
| | | | +--ro path-state-timeout-since-last-clear?  uint64
| | | | +--ro resv-state-timeout-since-last-clear?  uint64
| | | | +--ro pkt-with-msg-id-drop-since-last-clear?  uint64
| | | | +--ro pkt-with-sref-drop-since-last-clear?  uint64
| | | | +--ro path-errors?                  uint64
| | | | +--ro resv-errors?                  uint64
| | | | +--ro patherr-errors?               uint64
| | | | +--ro resverr-errors?               uint64
| | | | +--ro pathtear-errors?              uint64
| | | | +--ro resvtgear-errors?             uint64
| | | | +--ro resvconf-errors?              uint64
| | | | +--ro bundle-errors?                uint64
| | | | +--ro ack-errors?                   uint64
| | | | +--ro sumrefresh-errors?            uint64
| | | | +--ro hello-errors?                 uint64
| | | | +--ro nackobject-errors?           uint64
| | | | +--ro path-errors-since-last-clear?  uint64
| | | | +--ro resv-errors-since-last-clear?  uint64
| | | | +--ro patherr-errors-since-last-clear?  uint64

```

```

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

```



```

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

```

```

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

```

```

| | | +--ro frr-facility? boolean
| | | +--ro frr-unknown-backup-mode-desired? boolean
| | | +--ro frr-unknown-flags? uint8
| | | +--ro frr-psb-setup-priority? uint8
| | | +--ro frr-psb-hold-priority? uint8
| | | +--ro frr-bandwidth? uint32
| | | +--ro frr-hoplimit? uint8
| | | +--ro frr-method? frr-method
| | | +--ro frr-nh-node-protection-available? boolean
| | | +--ro frr-nh-node-protection-in-use? boolean
| | | +--ro frr-nh-link-protection-available? boolean
| | | +--ro frr-nh-link-protection-in-use? boolean
| | | +--ro frr-bandwidth-protection-available? boolean
| | | +--ro frr-lsp-bringup-abandoned? boolean
| | | +--ro frr-updown-transitions? uint32
| | | +--ro frr-retries? uint32
| | | +--ro frr-session-protection-available? boolean
| | | +--ro frr-next-retry? uint32
| | | +--ro frr-cost? uint32
| | | +--ro frr-cspf-group-computation-mode? frr-cspf-group-computation-
mode
| | | +--ro frr-cspf-group-computation-mode-use-bypass-liberal? boolean
| | | +--ro is-downstream-backup-psb? boolean
| | | +--ro is-backup-psb? boolean
| | | +--ro is-upstream-psb? boolean
| | | +--ro is-ps-frr-detour-sent? boolean
| | | +--ro is-ps-frr-backup-sent? boolean
| | | +--ro is-ps-frr-detour-received? boolean
| | | +--ro is-ps-frr-backup-received? boolean
| | | +--ro path-received-from-ip? inet:ipv4-address
| | | +--ro path-received-interface? string
| | | +--ro path-received-auth-on? boolean
| | | +--ro path-received-message-id? uint32
| | | +--ro path-downstream-only? boolean
| | | +--ro path-sent-to-ip? inet:ipv4-address
| | | +--ro path-sent-interface? string
| | | +--ro path-sent-auth-on? boolean
| | | +--ro path-sent-message-id? uint32
| | | +--ro resv-received-from-ip? inet:ipv4-address
| | | +--ro resv-received-interface? string
| | | +--ro resv-received-auth-on? boolean
| | | +--ro resv-received-message-id? uint32
| | | +--ro session-riding-bypass-name? string
| | | +--ro session-style? session-reservation-style
| | | +--ro points-of-local-repair-detour-rcvd* inet:ipv4-address
| | | +--ro avoid-nodes-detour-rcvd* inet:ipv4-address
| | | +--ro points-of-local-repair-detour-sent* inet:ipv4-address
| | | +--ro avoid-nodes-detour-sent* inet:ipv4-address
| | | +--ro session-ero-hops* [ip-addr]
| | | | +--ro ip-addr inet:ipv4-address
| | | | +--ro ero-flag-is-strict-hop? boolean
| | | +--ro session-rro-hops* [ip-addr]
| | | | +--ro ip-addr inet:ipv4-address
| | | | +--ro rro-flag-is-local-protect-available? boolean
| | | | +--ro rro-flag-is-local-protect-in-use? boolean
| | | | +--ro rro-flag-rro-is-router-id? boolean
| | | | +--ro rro-flag-rro-node-protect? boolean
| | | | +--ro rro-flag-rro-bandwidth-protect? boolean
| | | +--ro neighbors* [neighbor-ip-addr]
| | | | +--ro neighbor-ip-addr inet:ipv4-address
| | | | +--ro neighbor-interface? string
| | | | +--ro neighbor-status? string
| | | | +--ro neighbor-last-status-change? string
| | | | +--ro rsvp-hello-tx? uint32
| | | | +--ro rsvp-hello-rx? uint32
| | | | +--ro refresh-reduction-support? boolean
| | | | +--ro msg-id-support? boolean
| | | | +--ro active-lsps? uint32
| | | | +--ro rsvp-hello-interval? uint32
| | | | +--ro rsvp-hello-tolerance? uint32
| | | | +--ro neighbor-remote-instance? uint32
| | | | +--ro neighbor-local-instance? uint32

```

```

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

```

```

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

```

```

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

```

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

```

```

| | | +--ro fwdg-state-detour-down?                boolean
| | | +--ro admin-group-configured?              boolean
| | | +--ro admin-group-lists* [list-type]
| | |   +--ro list-type          lsp-admin-group-list-type
| | |   +--ro admin-group* [admin-group-id]
| | |     +--ro admin-group-id    uint32
| | |     +--ro admin-group-name? string
| | |     +--ro exclude-any?     boolean
| | |     +--ro include-all?    boolean
| | |     +--ro include-any?     boolean
| | | +--ro backup
| | |   +--ro backup-present?          boolean
| | |   +--ro backup-count?           uint32
| | |   +--ro backup-ingress-count?   uint32
| | |   +--ro backup-ingress-active-count? uint32
| | |   +--ro backup-transit-count?   uint32
| | |   +--ro backup-transit-active-count? uint32
| | |   +--ro backup-ingress* [backup-from-address backup-to-address backup-name]
| | |     | +--ro backup-from-address  inet:ipv4-address
| | |     | +--ro backup-to-address    inet:ipv4-address
| | |     | +--ro backup-name          string
| | |     | +--ro backup-is-active?    boolean
| | |   +--ro backup-transit* [backup-from-address backup-to-address backup-name]
| | |     +--ro backup-from-address  inet:ipv4-address
| | |     +--ro backup-to-address    inet:ipv4-address
| | |     +--ro backup-name          string
| | |     +--ro backup-is-active?    boolean
| | | +--ro auto-bandwidth
| | |   +--ro adjustment-interval?     uint32
| | |   +--ro adjustment-threshold?    uint32
| | |   +--ro maximum-bandwidth?       uint32
| | |   +--ro minimum-bandwidth?       uint32
| | |   +--ro overflow-limit?          uint32
| | |   +--ro underflow-limit?         uint32
| | |   +--ro mode?                    autobw-mode
| | |   +--ro sample-recording?        boolean
| | |   +--ro is-adjustment-interval-inherited? boolean
| | |   +--ro is-adjustment-threshold-inherited? boolean
| | |   +--ro is-maximum-bandwidth-inherited? boolean
| | |   +--ro is-minimum-bandwidth-inherited? boolean
| | |   +--ro is-overflow-limit-inherited? boolean
| | |   +--ro is-underflow-limit-inherited? boolean
| | |   +--ro is-mode-inherited?       boolean
| | |   +--ro is-sample-recording-inherited? boolean
| | |   +--ro working-status?          uint8
| | |   +--ro num-samples-collected?   uint32
| | |   +--ro last-sample-traffic-rate? uint32
| | |   +--ro maximum-of-samples-collected? uint32
| | |   +--ro maximum-of-underflow-samples? uint32
| | |   +--ro overflow-count?          uint32
| | |   +--ro underflow-count?         uint32
| | |   +--ro time-to-adjustment?      uint32
| | |   +--ro adjustment-status?       uint8
| | |   +--ro previous-bandwidth?      uint32
| | |   +--ro new-bandwidth?           uint32
| | |   +--ro adjustment-reason?       uint8
| | |   +--ro time-of-last-adjustment?  string
| | | +--ro instances* [instance-id lsp-id]
| | |   +--ro instance-id              uint32
| | |   +--ro lsp-id                   uint32
| | |   +--ro current-instance?        boolean
| | |   +--ro new-instance?            boolean
| | |   +--ro old-instance?            boolean
| | |   +--ro is-primary?              boolean
| | |   +--ro is-current-secondary?    boolean
| | |   +--ro is-selected-secondary?   boolean
| | |   +--ro instance-admin-up?       boolean
| | |   +--ro instance-is-up?          boolean
| | |   +--ro instance-is-active?     boolean
| | |   +--ro is-adaptive?             boolean
| | |   +--ro is-bypass?               boolean
| | |   +--ro is-dynamic-bypass?      boolean

```



+++ro	config-admin-up?	boolean
+++ro	config-from-address-configured?	boolean
+++ro	config-from-address?	inet:ipv4-address
+++ro	config-to-address?	inet:ipv4-address
+++ro	config-type-bypass?	boolean
+++ro	config-type-dynamic?	boolean
+++ro	config-adaptive?	boolean
+++ro	config-ospf-area?	inet:ipv4-address
+++ro	config-isis-level?	uint32
+++ro	config-number-of-retries-configured?	boolean
+++ro	config-number-of-retries?	uint32
+++ro	config-path-select-mode?	lsp-path-selection-mode
+++ro	config-path-selected-path?	lsp-selected-path
+++ro	config-path-selected-secondary-name?	string
+++ro	config-revert-time-configured?	boolean
+++ro	config-revert-time?	uint32
+++ro	config-retry-count-configured?	boolean
+++ro	config-retry-count?	uint32
+++ro	config-enable-ldp-tunnelling?	boolean
+++ro	config-shortcut-ospf?	boolean
+++ro	config-shortcut-area-configured?	boolean
+++ro	config-shortcut-area?	uint32
+++ro	config-notify-ospf?	boolean
+++ro	config-shortcut-isis?	boolean
+++ro	config-isis-shortcut-level-configured?	boolean
+++ro	config-isis-shortcut-level?	uint32
+++ro	config-notify-isis?	boolean
+++ro	config-metric-configured?	boolean
+++ro	config-metric?	uint32
+++ro	config-ospf-ignore-metric?	boolean
+++ro	config-ospf-relative-metric?	uint32
+++ro	config-ospf-announce-metric?	boolean
+++ro	config-ospf-aaf?	uint32
+++ro	config-isis-ignore-metric?	boolean
+++ro	config-isis-relative-metric?	uint32
+++ro	config-isis-announce-configured?	boolean
+++ro	config-isis-announce-metric?	uint32
+++ro	config-path-configured?	boolean
+++ro	config-path?	string
+++ro	config-reoptimize-timer-configured?	boolean
+++ro	config-reoptimize-time?	uint32
+++ro	config-tspec-mtu-configured?	boolean
+++ro	config-tspec-mtu?	uint32
+++ro	config-cos-configured?	boolean
+++ro	config-cos?	uint8
+++ro	config-mtu-configured?	boolean
+++ro	config-mtu?	uint32
+++ro	config-tie-breaking-configured?	boolean
+++ro	config-tie-break-random?	boolean
+++ro	config-tie-break-least-fill?	boolean
+++ro	config-tie-break-most-fill?	boolean
+++ro	config-cspf-disabled?	boolean
+++ro	config-rro-disabled?	boolean
+++ro	config-hot-standby?	boolean
+++ro	config-pinned?	boolean
+++ro	config-persistenct?	boolean
+++ro	config-frr-global-revertive?	boolean
+++ro	config-frr-hold-time?	uint32
+++ro	config-soft-preempt?	boolean
+++ro	config-exclude-interface-change?	boolean
+++ro	config-priority-configured?	boolean
+++ro	config-setup-prority?	uint8
+++ro	config-holding-prority?	uint8
+++ro	config-hop-limit-configured?	boolean
+++ro	config-hop-limit?	uint8
+++ro	config-traffic-eng-rate-configured?	boolean
+++ro	config-traffic-eng-mean-rate?	uint32
+++ro	config-traffic-eng-max-rate?	uint32
+++ro	config-traffic-eng-max-burst?	uint32
+++ro	config-abw-configured?	boolean
+++ro	config-bfd-configured?	boolean
+++ro	config-admin-group-configured?	boolean

```

| | | +---ro config-cspf-computation-mode?          lsp-cspf-computation-mode
| | | +---ro path-computed-by-cspf?                boolean
| | | +---ro path-computed-by-interface-constraint? boolean
| | | +---ro cspf-computation-mode?              lsp-cspf-computation-mode
| | | +---ro cspf-group-computation-mode-default? boolean
| | | +---ro cspf-group-computation-mode-add-penalty? boolean
| | | +---ro cspf-group-computation-mode-exclude-groups? boolean
| | | +---ro cspf-group-computation-mode-high-cost? boolean
| | | +---ro cspf-path-cost?                     uint32
| | | +---ro cspf-path-area?                     uint32
| | | +---ro cspf-computation-error?             uint32
| | | +---ro cspf-exclude-hops-present?          boolean
| | | +---ro rsvp-session-present?              boolean
| | | +---ro rsvp-session-state-up?             boolean
| | | +---ro rsvp-session-state?               uint8
| | | +---ro rsvp-session-path-error-code?      uint32
| | | +---ro rsvp-session-path-error-value?     uint32
| | | +---ro rsvp-session-path-error-node-address? inet:ipv4-address
| | | +---ro rsvp-session-rro-hops-present?     boolean
| | | +---ro config-exclude-interface-configured? boolean
| | | +---ro maximum-bandwidth?                uint32
| | | +---ro unreserved-priority-0-bandwidth?   uint32
| | | +---ro unreserved-priority-1-bandwidth?   uint32
| | | +---ro unreserved-priority-2-bandwidth?   uint32
| | | +---ro unreserved-priority-3-bandwidth?   uint32
| | | +---ro unreserved-priority-4-bandwidth?   uint32
| | | +---ro unreserved-priority-5-bandwidth?   uint32
| | | +---ro unreserved-priority-6-bandwidth?   uint32
| | | +---ro unreserved-priority-7-bandwidth?   uint32
| | | +---ro config-frr-configured?             boolean
| | | +---ro config-frr-one-to-one?             boolean
| | | +---ro config-frr-one-to-many?            boolean
| | | +---ro config-frr-priority-configured?    boolean
| | | +---ro config-frr-setup-priority?         uint8
| | | +---ro config-frr-holding-priority?       uint8
| | | +---ro config-frr-hop-limit-configured?   boolean
| | | +---ro config-frr-hop-limit?              uint8
| | | +---ro config-frr-bandwidth-inherited?    boolean
| | | +---ro config-frr-bandwidth-configured?   boolean
| | | +---ro config-frr-bandwidth?              uint32
| | | +---ro config-frr-admin-group-configured? boolean
| | | +---ro reoptimize-ignore-count?           uint32
| | | +---ro reoptimize-time-count?             uint32
| | | +---ro instance-frr-configured?           uint32
| | | +---ro instance-frr-up?                  uint32
| | | +---ro instance-frr-active?              uint32
| | | +---ro instance-out-port-id?             uint32
| | | +---ro instance-out-port-name?           string
| | | +---ro instance-out-label?               uint32
| | | +---ro instance-revert-time?             uint32
| | | +---ro instance-retry-count?             uint32
| | | +---ro instance-up-down-count?           uint32
| | | +---ro instance-metric?                  uint8
| | | +---ro instance-down-reason?             string
| | | +---ro current-signaled-mean-rate?       uint32
| | | +---ro config-exclude-interfaces*        string
| | | +---ro lsp-hops* [hop-index hop-address]
| | | | +---ro hop-index                       uint32
| | | | +---ro hop-address                     inet:ipv4-address
| | | | +---ro lsp-hop-type?                   lsp-hop-type
| | | | +---ro is-strict-hop?                  boolean
| | | | +---ro hop-is-router-id?               boolean
| | | | +---ro protection?                     boolean
| | | | +---ro node-protection?                boolean
| | | | +---ro bandwidth-protection?           boolean
| | | | +---ro protection-in-use?              boolean
| | | +---ro auto-bandwidth
| | | | +---ro config-template?                 string
| | | | +---ro adjustment-interval?            uint32
| | | | +---ro adjustment-threshold?           uint32
| | | | +---ro maximum-bandwidth?              uint32
| | | | +---ro minimum-bandwidth?              uint32

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```

| | | | +--ro overflow-limit?          uint32
| | | | +--ro underflow-limit?        uint32
| | | | +--ro mode?                    autobw-mode
| | | | +--ro sample-recording?       boolean
| | | +--ro admin-group-lists* [list-type]
| | | | +--ro list-type                lsp-admin-group-list-type
| | | | +--ro admin-group* [admin-group-id]
| | | | | +--ro admin-group-id        uint32
| | | | | +--ro admin-group-name?     string
| | | | | +--ro exclude-any?         boolean
| | | | | +--ro include-all?        boolean
| | | | | +--ro include-any?         boolean
| | +--ro secondary-path* [path-name instance-id]
| | | +--ro path-name                  string
| | | +--ro instance-id                boolean
| | | +--ro path-up?                   boolean
| | | +--ro active?                    boolean
| | | +--ro committed?                 boolean
| | | +--ro is-new-instance?           boolean
| | | +--ro is-current-secondary?      boolean
| | | +--ro is-selected-secondary?    boolean
| | | +--ro config-adaptive?           boolean
| | | +--ro config-reoptimize-timer-configured? boolean
| | | +--ro config-reoptimize-timer?   uint32
| | | +--ro config-reoptimize-timer-count? uint32
| | | +--ro config-tspec-mtu-configured? boolean
| | | +--ro config-tspec-mtu?          uint32
| | | +--ro config-cos-configured?     boolean
| | | +--ro config-cos?                uint32
| | | +--ro config-mtu-configured?     boolean
| | | +--ro config-mtu?                uint32
| | | +--ro config-tie-breaking-configured? boolean
| | | +--ro config-tie-break-random?   boolean
| | | +--ro config-tie-break-least-fill? boolean
| | | +--ro config-tie-break-most-fill? boolean
| | | +--ro config-cspf-disabled?     boolean
| | | +--ro config-rro-disabled?      boolean
| | | +--ro config-hot-standby?        boolean
| | | +--ro config-pinned?             boolean
| | | +--ro config-persistent?         boolean
| | | +--ro config-soft-preempt?       boolean
| | | +--ro config-priority-configured? boolean
| | | +--ro config-setup-prority?      uint8
| | | +--ro config-holding-prority?    uint8
| | | +--ro config-hop-limit-configured? boolean
| | | +--ro config-hop-limit?          uint8
| | | +--ro config-traffic-eng-rate-configured? boolean
| | | +--ro config-traffic-eng-mean-rate? uint32
| | | +--ro config-traffic-eng-max-rate? uint32
| | | +--ro config-traffic-eng-max-burst? uint32
| | | +--ro config-abw-configured?     boolean
| | | +--ro config-cspf-computation-mode? lsp-cspf-computation-mode
| | | +--ro config-admin-group-configured? boolean
| | | +--ro admin-group-lists* [list-type]
| | | | +--ro list-type                lsp-admin-group-list-type
| | | | +--ro admin-group* [admin-group-id]
| | | | | +--ro admin-group-id        uint32
| | | | | +--ro admin-group-name?     string
| | | | | +--ro exclude-any?         boolean
| | | | | +--ro include-all?        boolean
| | | | | +--ro include-any?         boolean
| | +--ro auto-bandwidth
| | | +--ro config-template?           string
| | | +--ro adjustment-interval?       uint32
| | | +--ro adjustment-threshold?     uint32
| | | +--ro maximum-bandwidth?        uint32
| | | +--ro minimum-bandwidth?        uint32
| | | +--ro overflow-limit?            uint32
| | | +--ro underflow-limit?          uint32
| | | +--ro mode?                      autobw-mode
| | | +--ro sample-recording?          boolean
| +--ro forwarding-entry* [entry-index sync-index]

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| | +--ro entry-index          uint32
| | +--ro sync-index          uint32
| | +--ro dest-ip-prefix?     inet:ipv4-prefix
| | +--ro in-label?           uint32
| | +--ro out-label?          uint32
| | +--ro protocol?           mpls-protocol
| | +--ro out-interface-name? string
| | +--ro nexthop-ip-addr?    inet:ipv4-address
| | +--ro type?               mpls-forwarding-entry-type
+--ro route* [entry-index]
| | +--ro entry-index          uint32
| | +--ro outseg-index?        uint32
| | +--ro dest-ip-prefix?     inet:ipv4-prefix
| | +--ro gateway-ip-addr?    inet:ipv4-address
| | +--ro out-interface-name? string
| | +--ro out-label?          uint32
| | +--ro protocol?           mpls-protocol
| | +--ro vif-index?          uint32
| | +--ro metric?             uint32
| | +--ro use-count?          uint32
+--ro tunnel-traffic-statistics* [index]
| | +--ro number-of-packets?   uint64
| | +--ro number-of-packets-since-clear? uint64
| | +--ro number-of-bytes?     uint64
| | +--ro number-of-bytes-since-clear?   uint64
| | +--ro packets-per-second?  uint64
| | +--ro bytes-per-second?    uint64
| | +--ro averaging-interval-seconds?    uint32
| | +--ro index                uint32
| | +--ro protocol?           mpls-protocol
| | +--ro name?                string
| | +--ro is-bypass?           boolean
| | +--ro statistics-valid?    boolean
+--ro transit-traffic-statistics* [in-label]
| | +--ro number-of-packets?   uint64
| | +--ro number-of-packets-since-clear? uint64
| | +--ro number-of-bytes?     uint64
| | +--ro number-of-bytes-since-clear?   uint64
| | +--ro packets-per-second?  uint64
| | +--ro bytes-per-second?    uint64
| | +--ro averaging-interval-seconds?    uint32
| | +--ro in-label             uint32
| | +--ro protocol?           mpls-protocol
| | +--ro statistics-valid?    boolean
+--ro tunnel-status-state* [tunnel-destination]
| | +--ro tunnel-destination    uint32
| | +--ro oper-status?         boolean

```

## History

Release version	History
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was modified to include container <i>autobw-history</i> , <i>auto-bandwidth</i> , <i>delay-resv-send</i> , and <i>dynamic-bypass</i> .

# brocade-nameserver

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

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

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

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

## RPCs

```

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

```

## History

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

# brocade-netconf-ext

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

## Top-level container

```

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

```

## History

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

# brocade-nsm-operational

This management module is an instrumentation to manage NSM.

## Top-level container

```

module: brocade-nsm-operational
  +--ro bridge-domain-state
  | +--ro bridge-domain-counter
  | | +--ro no-of-bd?          uint32
  | | +--ro no-of-vpls-bd?    uint32
  | +--ro bridge-domain-list* [bd-id]
  |   +--ro bd-id              uint32
  |   +--ro vc-id?             uint32
  |   +--ro active-ac-lif-count? uint16
  |   +--ro config-ac-lif-count? uint16
  |   +--ro active-vfi-lif-count? uint16
  |   +--ro config-vfi-lif-count? uint16
  |   +--ro local-switching?    boolean
  |   +--ro block-bpdu?         boolean
  |   +--ro bd-type?           uint16
  |   +--ro ve-ifindex?        uint32
  |   +--ro ve-id?             uint32
  |   +--ro pw-profile?        string
  |   +--ro mac-limit?         uint16
  |   +--ro statistics?        boolean
  |   +--ro mac-addr-withdrawal? boolean
  |   +--ro mct-enabled?       boolean
  |   +--ro description?       string
  |   +--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 lif-main-intf-type? nsm-dcm-lif-main-intf-type
  |       | +--ro outer-vlan?   uint32
  |       | +--ro flags?        uint32
  |       | +--ro ivid?         uint32
  |       | +--ro encap-id?     uint32
  |       | +--ro ingress-stats-id? uint32
  |       | +--ro egress-stats-id? uint32
  |       | +--ro op-state?     boolean
  |       | +--ro service-instance? uint32
  |     +--ro tagged-ports-list* [lif-name]
  |       +--ro lif-name      string
  |       +--ro lif-ifindex?  uint32
  |       +--ro lif-main-intf-type? nsm-dcm-lif-main-intf-type
  |       +--ro outer-vlan?   uint32
  |       +--ro inner-vlan?   uint32
  |       +--ro flags?        uint32
  |       +--ro ivid?         uint32
  |       +--ro encap-id?     uint32
  |       +--ro ingress-stats-id? uint32
  |       +--ro egress-stats-id? uint32
  |       +--ro op-state?     boolean
  |       +--ro service-instance? uint32
  +--ro logical-interface-state
  | +--ro main-interface-physical* [interface-index intf-name]
  | | +--ro protocol-status?    boolean
  | | +--ro admin-status?      boolean
  | | +--ro counters* [implicit-lifs explicit-lifs]
  | | | +--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 interface-index        uint32
| | +--ro intf-type?             intf-type
| | +--ro intf-name              string
| | +--ro is-tagged?             boolean
| | +--ro port-mode?             string
| | +--ro logical-interface-physical* [logical-interface-name]
| | | +--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 logical-interface-name string
| | | +--ro outer-vlan-id?       uint32
| | | +--ro inner-vlan-id?       uint32
| | | +--ro intf-type?           intf-type
| | | +--ro is-tagged?           boolean
+--ro main-interface-pseudo-wire* [interface-index]
| | +--ro protocol-status?       boolean
| | +--ro admin-status?          boolean
| | +--ro counters* [implicit-lifs explicit-lifs]
| | | +--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 interface-index            uint32
+--ro logical-interface-pseudo-wire* [logical-interface-name]
| | +--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 logical-interface-name string
| | +--ro ip-address?            inet:ipv4-address
+--ro main-interface-tunnel* [interface-index]
| | +--ro protocol-status?       boolean
| | +--ro admin-status?          boolean
| | +--ro counters* [implicit-lifs explicit-lifs]
| | | +--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 interface-index            uint32
+--ro logical-interface-tunnel* [logical-interface-name]
| | +--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 logical-interface-name string
| | +--ro vni-tni?               uint32
+--ro mct-state
| | +--ro show-cluster* [cluster-id]
| | | +--ro cluster-id           uint32
| | | +--ro is-cluster-client-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 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 packet-encap-processing-state
|   +--ro packet-encap-info-list
|     +--ro port-name?   string
|     +--ro link-status? string
|     +--ro encap-type?  string
|     +--ro strip-status? string
+--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 vpn-statistics-state
|   +--ro vpn-vrf-statistics* [vrf-name]

```

```

|     +--ro vrf-name          string
|     +--ro tunnel-in-pkt?   uint32
|     +--ro tunnel-out-pkt?  uint32
+--ro mct-mem-bd-state* [cluster-id]
|   +--ro cluster-id         uint32
|   +--ro num-bds?           uint32
|   +--ro bd-label-info* [bd-id]
|     +--ro bd-id            uint32
|     +--ro unicast-label-remote?  uint32
|     +--ro mcast-label-remote?   uint32
|     +--ro fw-state?          boolean
+--ro mct-mem-vlan-state* [cluster-id]
|   +--ro cluster-id         uint32
|   +--ro num-vlans?         uint32
|   +--ro vlan-label-info* [vlan-id]
|     +--ro vlan-id          uint32
|     +--ro unicast-label-remote?  uint32
|     +--ro mcast-label-remote?   uint32
|     +--ro fw-state?          boolean

```

## History

Release version	History
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was modified to include leaf <i>mac-addr-withdrawal</i> and <i>mct-enabled</i> .

# 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]
      | +--rw ip          inet:ip-address
      | +--rw use-vrf?   common-def:vrf-name
      | +--rw key?       uint32
      | +--rw version?   uint32
      | +--rw minpoll?   uint32
      | +--rw maxpoll?   uint32
    +--rw authentication-key* [keyid]
      | +--rw keyid      uint32
      | +--rw md5?       string
    +--rw peer* [peer-ip]
      | +--rw peer-ip     inet:ip-address
      | +--rw peer-use-vrf? common-def:vrf-name
      | +--rw peer-key?   uint32
      | +--rw peer-version? uint32
      | +--rw peer-minpoll? uint32
      | +--rw peer-maxpoll? uint32
    +--rw source-ip?      srcip_type
    +--rw disable
      | +--rw all?        empty
      | +--rw serve?     empty
    +--rw authenticate?   empty
    +--rw trusted-key*    trust-key
    +--rw master?         uint32

```

## RPCs

Return address of the active NTP server:

```

rpcs:
  +---x show-ntp
    +--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
16r.1.00	This Yang Module was introduced.

# brocade-openflow

Provides a data model for OpenFlow.

## Top-level container

```

module: brocade-openflow
  +--rw openflow-global
    +--rw openflow
      +--rw enable
        | +--rw ofVerType? enumeration
      +--rw default-behavior
        | +--rw send-to-controller? empty
      +--rw mirror
        | +--rw destination
        |   +--rw mirror-interface* [interface-type interface-value]
        |     +--rw interface-type enumeration
        |     +--rw interface-value interface-value-type
      +--rw controller* [controller-name]
        | +--rw controller-name openflow-controller-name-type
        | +--rw passive
        |   | +--rw passive-connection-method? enumeration
        |   | +--rw passive-controller-address? inet:ip-address
        |   | +--rw passive-connection-port? uint32
        |   | +--rw passive-controller-vrf? common-def:vrf-name
        | +--rw active-controller
        |   +--rw controller-address? inet:ip-address
        |   +--rw connection-method? enumeration
        |   +--rw connection-port? uint32
        |   +--rw active-controller-vrf? common-def:vrf-name
      +--rw ingress-replication
        +--rw group-id-range
          +--rw min-group-id? min-group-id
          +--rw max-group-id? max-group-id
  
```

## External augmentations

```

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

## History

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

# brocade-openflow-operational

Provides a data model for managing the OpenFlow operational information.

## Top-level container

```

module: brocade-openflow-operational
  +--ro flow-generic-state
  |   +--ro hw-generic-flows?  uint32
  |   +--ro flow-info-list* [flow-id]
  |       +--ro flow-id                uint32
  |       +--ro priority?              uint32
  |       +--ro status?                flow-status
  |       +--ro in-port?               string
  |       +--ro in-vlan?               string
  |       +--ro source-mac?            string
  |       +--ro destination-mac?       string
  |       +--ro ether-type?            string
  |       +--ro ip-protocol?           uint32
  |       +--ro ip-protocol-source-port?  uint32
  |       +--ro ip-protocol-destination-port?  uint32
  |       +--ro source-ip?             string
  |       +--ro destination-ip?        string
  |       +--ro source-ipv6?           string
  |       +--ro destination-ipv6?      string
  |       +--ro instructions?          string
  |       +--ro action-data?           string
  |       +--ro meter-id?              uint32
  |       +--ro vlan-upbits?           uint32
  |       +--ro nw-tos?                uint32
  |       +--ro source-ip-mask?        string
  |       +--ro destination-ip-mask?   string
  |       +--ro total-packets?         uint64
  |       +--ro total-bytes?           uint64
  |       +--ro flow-action-list* [action-idx]
  |           +--ro action-idx          uint32
  |           +--ro group-id?           uint32
  |           +--ro queue-id?           uint32
  |           +--ro out-ports?          string
  |           +--ro vlan-id?           uint32
  |           +--ro action-vlan-upbits? uint32
  |           +--ro out-vlan-tag?       vlan-action
  |           +--ro out-vlan-etype?     string
  +--ro openflow-state
  |   +--ro detail
  |       +--ro admin-status?           boolean
  |       +--ro ssl-status?             boolean
  |       +--ro num-controllers?         uint32
  |       +--ro data-path?              string
  |       +--ro l2-match?               string
  |       +--ro l3-match?               string
  |       +--ro max-l2-flows?           uint32
  |       +--ro active-flows?           uint32
  |       +--ro enabled-ports?          string
  |       +--ro enabled-lags?           string
  |       +--ro mirror-ports?           string
  |       +--ro min-group-id?           uint32
  |       +--ro max-group-id?           uint32
  |       +--ro default-action?         default-packet-action
  |       +--ro controller-detail-list* [controller-idx]
  |           +--ro controller-idx      uint32
  |           +--ro controller-async-list* [async-type]
  |               +--ro async-type      async-type
  |               +--ro config-data?    string
  |           +--ro controller-info
  |               +--ro name?            string
  |               +--ro mode?            ctrlr-connection-mode
  |               +--ro type?            ctrlr-type

```

```

| | |   +---ro connection-type?  ctrlr-connection-type
| | |   +---ro ip-addr?          inet:ipv4-address
| | |   +---ro port?            uint32
| | |   +---ro vrf-name?        string
| | |   +---ro status?          ctrlr-connection-status
| | |   +---ro role?            ctrlr-role
| | |   +---ro hybrid-interfaces* [hybrid-interface]
| | |     +---ro hybrid-interface  string
| | |     +---ro protected-vlans?  string
+---ro flow
| | +---ro data-packets-sent?  uint64
| | +---ro data-bytes-sent?    uint64
| | +---ro port-based-flows?   uint32
| | +---ro hw-generic-flows?   uint32
| | +---ro l2-interfaces?      uint32
| | +---ro l3-interfaces?      uint32
| | +---ro l23-interfaces?     uint32
| | +---ro lag-interfaces?     uint32
| | +---ro flow-info-list* [flow-id]
| | |   +---ro flow-id          uint32
| | |   +---ro priority?       uint32
| | |   +---ro status?         flow-status
| | |   +---ro in-port?        string
| | |   +---ro in-vlan?        string
| | |   +---ro source-mac?     string
| | |   +---ro destination-mac? string
| | |   +---ro ether-type?     string
| | |   +---ro ip-protocol?    uint32
| | |   +---ro ip-protocol-source-port? uint32
| | |   +---ro ip-protocol-destination-port? uint32
| | |   +---ro source-ip?      string
| | |   +---ro destination-ip? string
| | |   +---ro source-ipv6?    string
| | |   +---ro destination-ipv6? string
| | |   +---ro instructions?   string
| | |   +---ro action-data?    string
| | |   +---ro meter-id?       uint32
| | |   +---ro vlan-upbits?    uint32
| | |   +---ro nw-tos?         uint32
| | |   +---ro source-ip-mask?  string
| | |   +---ro destination-ip-mask? string
| | |   +---ro total-packets?   uint64
| | |   +---ro total-bytes?     uint64
| | |   +---ro flow-action-list* [action-idx]
| | | |   +---ro action-idx    uint32
| | | |   +---ro group-id?     uint32
| | | |   +---ro queue-id?     uint32
| | | |   +---ro out-ports?    string
| | | |   +---ro vlan-id?      uint32
| | | |   +---ro action-vlan-upbits? uint32
| | | |   +---ro out-vlan-tag?  vlan-action
| | | |   +---ro out-vlan-etype? string
+---ro group
| | +---ro max-groups?         uint32
| | +---ro max-bkts-per-group? uint32
| | +---ro max-actions-per-bucket? uint32
| | +---ro total-groups-all?   uint32
| | +---ro total-groups-select? uint32
| | +---ro total-groups-indirect? uint32
| | +---ro total-groups-fast-failover? uint32
| | +---ro group-info-list* [group-id]
| | |   +---ro group-id        uint32
| | |   +---ro transaction-id? string
| | |   +---ro group-type?     group-type
| | |   +---ro packet-count?   uint64
| | |   +---ro byte-count?     uint64
| | |   +---ro flow-count?     uint32
| | |   +---ro num-of-bkts?    uint32
| | |   +---ro mcast-group-id? uint32
| | |   +---ro replication-type? string
| | |   +---ro group-bucket-list* [bucket-id]
| | | |   +---ro bucket-id      uint32

```

```

| |         +--ro weight?                uint32
| |         +--ro watch-port?            string
| |         +--ro group-action-list* [action-id]
| |           +--ro action-id            uint32
| |           +--ro out-port?            string
| |           +--ro vlan-id?             uint32
| |           +--ro out-vlan-tag?        vlan-action
| |           +--ro out-vlan-etype?     string
| +--ro meter
| |   +--ro num-of-meters?                uint32
| |   +--ro meter-info-list* [meter-id]
| |     +--ro meter-id                    uint32
| |     +--ro transaction-id?             string
| |     +--ro meterflags-type?            string
| |     +--ro flow-count?                  uint32
| |     +--ro num-of-bands?                uint32
| |     +--ro in-packet-count?             uint64
| |     +--ro in-byte-count?              uint64
| |     +--ro meterband-info-list* [band-type]
| |       +--ro band-type                  uint32
| |       +--ro rate?                      uint32
| |       +--ro burst-size?                uint32
| |       +--ro in-packet-band-count?     uint64
| |       +--ro in-byte-band-count?       uint64
| +--ro resources
| |   +--ro meter-max?                    uint32
| |   +--ro meter-used?                    uint32
| |   +--ro meter-free?                    uint32
| |   +--ro tcam-profile?                  string
| |   +--ro group-resouces-list* [group-type]
| |     | +--ro max?                        uint32
| |     | +--ro used?                       uint32
| |     | +--ro free?                       uint32
| |     | +--ro group-type                  group-type
| |   +--ro slot-resouces-list* [slot-id]
| |     +--ro slot-id                      uint32
| |     +--ro module?                      string
| |     +--ro slot-match-profile-list* [slot-match-profile-idx]
| |       +--ro slot-match-profile-idx     uint32
| |       +--ro max-flows?                  uint32
| |       +--ro used-flows?                 uint32
| |       +--ro free-flows?                 uint32
| |       +--ro slot-chip-resource-list* [slot-chip-idx]
| |         +--ro slot-chip-idx            uint32
| |         +--ro max-flows?                uint32
| |         +--ro used-flows?                uint32
| |         +--ro free-flows?                uint32
| +--ro interface* [interface-type interface-name]
| |   +--ro interface-type                openflow-interface-type
| |   +--ro interface-name                string
| |   +--ro link?                          boolean
| |   +--ro port-state?                    port-state
| |   +--ro speed?                          string
| |   +--ro mac?                            string
| |   +--ro port-id?                        uint32
| |   +--ro mode?                           port-mode
| +--ro flow-interface* [interface-type interface-value]
| |   +--ro interface-type                uint32
| |   +--ro interface-value                string
| |   +--ro flow-info-list* [flow-id]
| |     +--ro flow-id                      uint32
| |     +--ro priority?                    uint32
| |     +--ro status?                       flow-status
| |     +--ro in-port?                      string
| |     +--ro in-vlan?                      string
| |     +--ro source-mac?                   string
| |     +--ro destination-mac?              string
| |     +--ro ether-type?                   string
| |     +--ro ip-protocol?                  uint32
| |     +--ro ip-protocol-source-port?     uint32
| |     +--ro ip-protocol-destination-port? uint32
| |     +--ro source-ip?                    string

```

```

| |     +---ro destination-ip?           string
| |     +---ro source-ipv6?             string
| |     +---ro destination-ipv6?        string
| |     +---ro instructions?            string
| |     +---ro action-data?             string
| |     +---ro meter-id?                uint32
| |     +---ro vlan-upbits?             uint32
| |     +---ro nw-tos?                  uint32
| |     +---ro source-ip-mask?          string
| |     +---ro destination-ip-mask?     string
| |     +---ro total-packets?           uint64
| |     +---ro total-bytes?             uint64
| |     +---ro flow-action-list* [action-idx]
| |         +---ro action-idx           uint32
| |         +---ro group-id?            uint32
| |         +---ro queue-id?            uint32
| |         +---ro out-ports?           string
| |         +---ro vlan-id?             uint32
| |         +---ro action-vlan-upbits?  uint32
| |         +---ro out-vlan-tag?        vlan-action
| |         +---ro out-vlan-etype?     string
+---ro controller* [name]
| |     +---ro name                      string
| |     +---ro mode?                     ctrlr-connection-mode
| |     +---ro type?                     ctrlr-type
| |     +---ro connection-type?         ctrlr-connection-type
| |     +---ro ip-addr?                  inet:ipv4-address
| |     +---ro port?                     uint32
| |     +---ro vrf-name?                 string
| |     +---ro status?                  ctrlr-connection-status
| |     +---ro role?                     ctrlr-role
+---ro flow-id
| |     +---ro flow-id?                  uint32
| |     +---ro priority?                 uint32
| |     +---ro status?                   flow-status
| |     +---ro in-port?                  string
| |     +---ro in-vlan?                  string
| |     +---ro source-mac?               string
| |     +---ro destination-mac?         string
| |     +---ro ether-type?               string
| |     +---ro ip-protocol?              uint32
| |     +---ro ip-protocol-source-port?  uint32
| |     +---ro ip-protocol-destination-port?  uint32
| |     +---ro source-ip?                string
| |     +---ro destination-ip?           string
| |     +---ro source-ipv6?              string
| |     +---ro destination-ipv6?         string
| |     +---ro instructions?             string
| |     +---ro action-data?             string
| |     +---ro meter-id?                 uint32
| |     +---ro vlan-upbits?              uint32
| |     +---ro nw-tos?                   uint32
| |     +---ro source-ip-mask?           string
| |     +---ro destination-ip-mask?     string
| |     +---ro total-packets?            uint64
| |     +---ro total-bytes?              uint64
| |     +---ro flow-action-list* [action-idx]
| |         +---ro action-idx           uint32
| |         +---ro group-id?            uint32
| |         +---ro queue-id?            uint32
| |         +---ro out-ports?           string
| |         +---ro vlan-id?             uint32
| |         +---ro action-vlan-upbits?  uint32
| |         +---ro out-vlan-tag?        vlan-action
| |         +---ro out-vlan-etype?     string
+---ro group-id
| |     +---ro group-id?                  uint32
| |     +---ro transaction-id?           string
| |     +---ro group-type?               group-type
| |     +---ro packet-count?             uint64
| |     +---ro byte-count?               uint64
| |     +---ro flow-count?               uint32

```



```

| | +--ro num-of-bkts?          uint32
| | +--ro mcast-group-id?      uint32
| | +--ro replication-type?    string
| | +--ro group-bucket-list* [bucket-id]
| |   +--ro bucket-id          uint32
| |   +--ro weight?            uint32
| |   +--ro watch-port?        string
| |   +--ro group-action-list* [action-id]
| |     +--ro action-id        uint32
| |     +--ro out-port?        string
| |     +--ro vlan-id?         uint32
| |     +--ro out-vlan-tag?     vlan-action
| |     +--ro out-vlan-etype?  string
+--ro meter-id
| | +--ro meter-id?            uint32
| | +--ro transaction-id?      string
| | +--ro meterflags-type?     string
| | +--ro flow-count?          uint32
| | +--ro num-of-bands?        uint32
| | +--ro in-packet-count?     uint64
| | +--ro in-byte-count?       uint64
| | +--ro meterband-info-list* [band-type]
| |   +--ro band-type          uint32
| |   +--ro rate?              uint32
| |   +--ro burst-size?        uint32
| |   +--ro in-packet-band-count? uint64
| |   +--ro in-byte-band-count? uint64
+--ro queues-interface
| | +--ro interface-value?     string
| | +--ro queue-info-list* [interface num]
| |   +--ro interface          string
| |   +--ro num                 uint32
| |   +--ro tx-packets?        uint64
| |   +--ro tx-bytes?          uint64
+--ro queues-state
| | +--ro queue-interface-list* [interface-value]
| |   +--ro interface-value     string
| |   +--ro queue-info-list* [interface num]
| |     +--ro interface          string
| |     +--ro num                 uint32
| |     +--ro tx-packets?        uint64
| |     +--ro tx-bytes?          uint64
+--ro statistics-protocol-state* [connection-name]
| | +--ro connection-name      string
| | +--ro hello-rx-total?      uint64
| | +--ro hello-tx-total?      uint64
| | +--ro hello-rx-last?       uint64
| | +--ro hello-tx-last?       uint64
| | +--ro echo-req-total?      uint64
| | +--ro echo-reply-total?    uint64
| | +--ro echo-req-last?       uint64
| | +--ro echo-reply-last?     uint64
| | +--ro experiment-total?    uint64
| | +--ro experiment-last?     uint64
| | +--ro feature-req-total?    uint64
| | +--ro feature-reply-total?  uint64
| | +--ro feature-req-last?     uint64
| | +--ro feature-reply-last?   uint64
| | +--ro get-config-req-total? uint64
| | +--ro get-config-reply-total? uint64
| | +--ro get-config-req-last?  uint64
| | +--ro get-config-reply-last? uint64
| | +--ro set-config-total?     uint64
| | +--ro set-config-last?      uint64
| | +--ro packet-in-total?      uint64
| | +--ro packet-in-last?       uint64
| | +--ro flow-removed-total?   uint64
| | +--ro flow-removed-last?    uint64
| | +--ro port-status-total?    uint64
| | +--ro port-status-last?     uint64
| | +--ro error-total?          uint64
| | +--ro error-last?           uint64

```

```

+--ro multipart-req-total?      uint64
+--ro multipart-reply-total?    uint64
+--ro multipart-req-last?       uint64
+--ro multipart-reply-last?     uint64
+--ro packet-out-total?         uint64
+--ro packet-out-last?         uint64
+--ro flow-mod-total?           uint64
+--ro flow-mod-last?           uint64
+--ro group-mod-total?          uint64
+--ro group-mod-last?          uint64
+--ro meter-mod-total?          uint64
+--ro meter-mod-last?          uint64
+--ro barrier-req-total?        uint64
+--ro barrier-reply-total?      uint64
+--ro barrier-req-last?         uint64
+--ro barrier-reply-last?       uint64
+--ro role-req-total?           uint64
+--ro role-reply-total?         uint64
+--ro role-req-last?           uint64
+--ro role-reply-last?         uint64
+--ro get-async-req-total?      uint64
+--ro get-async-reply-total?    uint64
+--ro get-async-req-last?       uint64
+--ro get-async-reply-last?     uint64
+--ro set-async-reply-total?    uint64
+--ro set-async-req-last?       uint64
+--ro total-rx-total?           uint64
+--ro total-tx-total?           uint64
+--ro total-rx-last?            uint64
+--ro total-tx-last?            uint64
+--ro unknown-rx-total?         uint64
+--ro unknown-rx-last?         uint64

```

## History

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

# brocade-ospf

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

## External augmentations

```

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

```

## History

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

# brocade-ospfv3

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

## External augmentations

```

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

```

## History

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

# brocade-pim

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

## External augmentations

```

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

```

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

```

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

## History

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

# brocade-pim-operational

Provides a data model for managing the Protocol-Independent Multicast (PIM) operational information.

## Top-level container

```

module: brocade-pim-operational
  +--ro pim-anycast-state* [vrf-name anycast-rp]
  | +--ro vrf-name      string
  | +--ro anycast-rp   inet:ipv4-address
  | +--ro prefix-name? string
  | +--ro peer-list* [ipv4-addr]
  |   +--ro ipv4-addr  inet:ipv4-address
  +--ro pim-ecmp-state* [vrf-name addr-filter]
  | +--ro vrf-name      string
  | +--ro addr-filter   inet:ipv4-address
  | +--ro pim-ecmp* [vrf-name src-ip rp-addr]
  |   +--ro vrf-name    string
  |   +--ro src-ip      inet:ipv4-address
  |   +--ro rp-addr     inet:ipv4-address
  |   +--ro upstream-nbr? inet:ipv4-address
  |   +--ro interface-name? string
  |   +--ro interface-count? uint32
  +--ro pim-global-state* [vrf-name]
  | +--ro vrf-name      string
  | +--ro enable-status? boolean
  | +--ro max-mcache?   uint32
  | +--ro current-count? uint32
  | +--ro hello-interval? uint16
  | +--ro nbr-timeout?  uint16
  | +--ro jp-interval?  uint32
  | +--ro inact-interval? uint16
  | +--ro hw-drop-status? boolean
  | +--ro prune-wait-interval? uint8
  | +--ro reg-suppress-time? uint16
  | +--ro reg-probe-time?  uint16
  | +--ro reg-stop-delay?  uint16
  | +--ro reg-suppress-interval? uint16
  | +--ro ssm-status?     boolean
  | +--ro spt-threshold?  uint32
  | +--ro ssm-default-prefix? string
  | +--ro ssm-prefix-name? string
  | +--ro route-precedence? string
  | +--ro interfaces* [vrf-name]
  |   +--ro vrf-name      string
  |   +--ro pim-interface-data* [vrf-name interface-name interface-type]
  |     +--ro vrf-name      string
  |     +--ro interface-name string
  |     +--ro interface-type string
  |     +--ro enable-status? boolean
  |     +--ro local-ip-addr? inet:ipv4-address
  |     +--ro pim-version?  uint8
  |     +--ro mode?         string
  |     +--ro dr-info?      string
  |     +--ro ttl-threshold? uint8
  |     +--ro multicast-boundry? string
  |     +--ro dr-priority?  uint32
  +--ro pim-mcache-state* [vrf-name src-addr grp-addr]
  | +--ro vrf-name      string
  | +--ro tot-entry-count? uint32
  | +--ro src-addr      inet:ipv4-address
  | +--ro grp-addr      inet:ipv4-address
  | +--ro incoming-if?  string
  | +--ro rp-addr?      inet:ipv4-address
  | +--ro uptime?       string
  | +--ro flag-bmp?     uint32
  | +--ro is-w-g?       uint8
  | +--ro spt?          uint8

```

```

+--ro rpt?                uint8
+--ro reg?                uint8
+--ro regsupp?           uint8
+--ro regprobe?          uint8
+--ro lsrc?              uint8
+--ro lrcv?              uint8
+--ro sp-mode?           uint8
+--ro ssm-mode?          uint8
+--ro need-rte?          uint8
+--ro rpf-info?          string
+--ro age-mask?          uint32
+--ro kat?                uint32
+--ro join-desired?      boolean
+--ro pim-oif* [oif-name]
  +--ro oif-name          string
  +--ro age?              string
  +--ro expiry-time?     uint32
  +--ro oif-flags?       string

```

## History

Release version	History
17r.2.00	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]
    +--rw pw-profile-name    common-def:name-string64
    +--rw mtu-value?         uint32
    +--rw mtu-enforce?      boolean
    +--rw vc-mode?          enumeration
    +--rw flow-label?       empty
    +--rw control-word?     empty

```

## History

Release version	History
16r.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-lsp-name?      string
  |   |   |   +--ro vc-peer-lsp-cos-enabled? boolean
  |   |   |   +--ro vc-peer-lsp-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-local-pw-status?   string
  |   +--ro vc-remote-pw-status?  string
  |   +--ro vc-local-flow-label-tx? boolean
  |   +--ro vc-local-flow-label-rx? boolean
  |   +--ro vc-remote-flow-label-tx? boolean
  |   +--ro vc-remote-flow-label-rx? boolean
  |   +--ro vc-local-control-word? boolean
  |   +--ro vc-remote-control-word? boolean
  |   +--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-lsp-name?      string
  |   |   +--ro vc-peer-lsp-cos-enabled? boolean
  |   |   +--ro vc-peer-lsp-cos-value? uint8
  +--ro vc-assigned-lsp* [vc-lsp-name]
  |   +--ro vc-lsp-name      string

```

## History

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

# brocade-qos-cpu

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

## External augmentations

```

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

```

## History

Release version	History
16r.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 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 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? port-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

```

## 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
16r.1.00	This YANG module was introduced.

# brocade-qos-mpls

Manages the MPLS Quality of Service (QoS).

## Top-level container

```

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

```

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

```

## History

Release version	History
16r.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 class-map* [name]
  |   +--rw name          map-name-type
  |   +--rw match
  |       +--rw access-group
  |           | +--rw access-group-name?  mac-ip-acl-name
  |           +--rw vlan
  |               | +--rw vlan-range?     interface:ui32-vlan-20k-range
  |           +--rw bridge-domain
  |               | +--rw bridge-domain-range?  bd:ui32-bridge-domain-range
  +--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 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
16r.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-ras
| +--rw usb
| | +---x on
| | | | +--ro input
| | | +---x off
| | | | +--ro input
| | | +---x dir
| | | | +--ro input
| | | +---x remove
| | | | +--ro input
| | | | | +--ro directory   string
| | | | | +--ro file        string
+---rw switch-attributes
| +--rw chassis-name?  string
| +--rw host-name?    string
+--rw support
| +--rw autoupload-param
| | +--rw hostip       inet:ip-address
| | +--rw username     string
| | +--rw directory    string
| | +--rw protocol     string
| | +--rw password?   string
+--rw support-param
| | +--rw hostip       inet:ip-address
| | +--rw username     string
| | +--rw directory    string
| | +--rw protocol     string
| | +--rw password?   string
+--rw autoupload
| | +--rw enable?     empty
+--rw ffcd?          empty
+--rw logtest
| +--rw raslog
| | +---x gmsg
| | | +--ro input
| | | | +--ro messageID?  string
+--rw auditlog
| +---x gmsg
| | +--ro input
| | | +--ro messageID?  string
+--rw resource-monitor
+---x memory
| | +--ro input
| | | +--ro (srm)?
| | | | +--:(enable)
| | | | | +--ro enable?   empty
| | | | +--:(disable)
| | | | | +--ro disable?  empty
+---x cpu

```

```

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

```

## 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
16r.1.00	This YANG module was introduced.

# brocade-ras-ext

Provides a data model for managing RASLog-related information.

## Top-level container

```

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

## External augmentations

```

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

## RPCs

```

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

## History

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

# brocade-RAS-operational

Provides a data model for managing RAS.

## Top-level container

```

module: brocade-RAS-operational
  +--ro cpu-state
  | +--ro summary
  | | +--ro summary-cpu-load-average-one-min?      decimal64
  | | +--ro summary-cpu-load-average-five-min?    decimal64
  | | +--ro summary-cpu-load-average-fifteen-min? decimal64
  | | +--ro summary-cpu-util-current?             decimal64
  | | +--ro summary-cpu-util-current-user?       decimal64
  | | +--ro summary-cpu-util-current-kernel?     decimal64
  | | +--ro summary-cpu-util-current-iowait?     decimal64
  | +--ro history
  | | +--ro cpu-load-average-one-min?             decimal64
  | | +--ro cpu-load-average-five-min?           decimal64
  | | +--ro cpu-load-average-fifteen-min?       decimal64
  | | +--ro cpu-util-current?                   decimal64
  | | +--ro cpu-util-current-user?              decimal64
  | | +--ro cpu-util-current-kernel?            decimal64
  | | +--ro cpu-util-current-iowait?            decimal64
  | | +--ro cpu-util-1min?                      decimal64
  | | +--ro cpu-util-1min-user?                 decimal64
  | | +--ro cpu-util-1min-kernel?               decimal64
  | | +--ro cpu-util-1min-iowait?               decimal64
  | | +--ro cpu-util-5min?                      decimal64
  | | +--ro cpu-util-5min-user?                 decimal64
  | | +--ro cpu-util-5min-kernel?               decimal64
  | | +--ro cpu-util-5min-iowait?               decimal64
  | | +--ro cpu-util-15min?                    decimal64
  | | +--ro cpu-util-15min-user?                decimal64
  | | +--ro cpu-util-15min-kernel?              decimal64
  | | +--ro cpu-util-15min-iowait?              decimal64
  | | +--ro cpu-util-1hour?                    decimal64
  | | +--ro cpu-util-1hour-user?                decimal64
  | | +--ro cpu-util-1hour-kernel?              decimal64
  | | +--ro cpu-util-1hour-iowait?              decimal64
  | | +--ro cpu-util-5hour?                    decimal64
  | | +--ro cpu-util-5hour-user?                decimal64
  | | +--ro cpu-util-5hour-kernel?              decimal64
  | | +--ro cpu-util-5hour-iowait?              decimal64
  | | +--ro cpu-util-24hour?                   decimal64
  | | +--ro cpu-util-24hour-user?                decimal64
  | | +--ro cpu-util-24hour-kernel?              decimal64
  | | +--ro cpu-util-24hour-iowait?              decimal64
  | | +--ro cpu-util-72hour?                   decimal64
  | | +--ro cpu-util-72hour-user?                decimal64
  | | +--ro cpu-util-72hour-kernel?              decimal64
  | | +--ro cpu-util-72hour-iowait?              decimal64
  | | +--ro cpu-util-process-history [cpu-process-id]
  | | | +--ro cpu-process-id      uint32
  | | | +--ro cpu-process-name?   string
  | | | +--ro cpu-util-current?   decimal64
  | | | +--ro cpu-util-1m?        decimal64
  | | | +--ro cpu-util-5m?        decimal64
  | | | +--ro cpu-util-15m?       decimal64
  | | | +--ro cpu-util-1h?        decimal64
  | | | +--ro cpu-util-5h?        decimal64
  | | | +--ro cpu-util-24h?       decimal64
  | | | +--ro cpu-util-72h?       decimal64
  | +--ro top
  | | +--ro cpu-curr-time?         string
  | | +--ro cpu-system-uptime?    string
  | | +--ro cpu-no-of-users?      uint32
  | | +--ro cpu-load-average-one-min? decimal64

```



```

| | +--ro cpu-load-average-five-min?      decimal64
| | +--ro cpu-load-average-fifteen-min?   decimal64
| | +--ro cpu-total-task?                 uint32
| | +--ro cpu-running-task?              uint32
| | +--ro cpu-sleeping-task?             uint32
| | +--ro cpu-stopped-task?              uint32
| | +--ro cpu-zombie-task?               uint32
| | +--ro cpu-util-user?                  decimal64
| | +--ro cpu-util-kernel?                decimal64
| | +--ro cpu-util-nice?                  decimal64
| | +--ro cpu-util-idle?                  decimal64
| | +--ro cpu-util-iowait?                decimal64
| | +--ro cpu-util-hi?                    decimal64
| | +--ro cpu-util-si?                    decimal64
| | +--ro cpu-util-st?                    decimal64
| | +--ro cpu-total-mem?                  string
| | +--ro cpu-used-mem?                   string
| | +--ro cpu-free-mem?                   string
| | +--ro cpu-buffer-mem?                 string
| | +--ro cpu-total-mem-swap?             string
| | +--ro cpu-used-mem-swap?              string
| | +--ro cpu-free-mem-swap?              string
| | +--ro cpu-cache-mem-swap?             string
| | +--ro cpu-top-process-information [cpu-process-id]
| |   +--ro cpu-process-id                uint32
| |   +--ro cpu-process-user?              string
| |   +--ro cpu-process-priority?          string
| |   +--ro cpu-process-ni?                string
| |   +--ro cpu-process-virtual-mem?       string
| |   +--ro cpu-process-resident-mem?      string
| |   +--ro cpu-process-shared-mem?        string
| |   +--ro cpu-process-state?             string
| |   +--ro cpu-process-cpuutil?           decimal64
| |   +--ro cpu-process-memutil?           decimal64
| |   +--ro cpu-process-running-time?      string
| |   +--ro cpu-process-cmd?               string
+--ro all-partition
| | +--ro cpu-allpart-load [cpu-blade-name]
| | | +--ro cpu-blade-name                  string
| | | +--ro cpu-load-average-1min?          decimal64
| | | +--ro cpu-load-average-5min?          decimal64
| | | +--ro cpu-load-average-15min?         decimal64
| | +--ro cpu-allpart-util [cpu-blade-name]
| | | +--ro cpu-blade-name                  string
| | | +--ro cpu-util-current?               decimal64
| | | +--ro cpu-util-user?                  decimal64
| | | +--ro cpu-util-kernel?                decimal64
| | | +--ro cpu-util-iowait?                decimal64
+--ro process-list
| | +--ro list-cpu-load-average-one-min?     decimal64
| | +--ro list-cpu-load-average-five-min?    decimal64
| | +--ro list-cpu-load-average-fifteen-min? decimal64
| | +--ro list-cpu-util-current?             decimal64
| | +--ro list-cpu-util-current-user?         decimal64
| | +--ro list-cpu-util-current-kernel?       decimal64
| | +--ro list-cpu-util-current-iowait?       decimal64
| | +--ro cpu-process-list [cpu-process-id]
| | | +--ro cpu-process-id                uint32
| | | +--ro cpu-process-name?              string
| | | +--ro cpu-process-util?               decimal64
| | | +--ro cpu-process-state?              string
| | | +--ro cpu-process-start-time?         string
+--ro mem-state
+--ro summary
| | +--ro memory-used-percentage?            decimal64
| | +--ro memory-total?                      uint32
| | +--ro memory-total-used?                 uint32
| | +--ro memory-total-free?                 uint32
| | +--ro memory-low-free?                   uint32
| | +--ro memory-high-free?                  uint32
| | +--ro memory-cached?                     uint32
+--ro mem-list

```

```

+--ro memory-used-percentage?  decimal64
+--ro memory-total?            uint32
+--ro memory-total-used?       uint32
+--ro memory-total-free?       uint32
+--ro memory-low-free?         uint32
+--ro memory-high-free?        uint32
+--ro memory-cached?           uint32
+--ro memory-per-process [memory-process-id]
  +--ro memory-process-id      uint32
  +--ro memory-process-name?   string
  +--ro memory-utilized?       decimal64
  +--ro memory-utilized-vsize? uint32
  +--ro memory-utilized-rss?   uint32
  +--ro memory-utilized-pss?   uint32

```

## History

Release version	History
17r.1.01	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 mpls
  |   |   |   +--rw label1?    empty
  |   |   |   +--rw label2?    empty
  |   |   |   +--rw label3?    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
  |   |   +--rw speculate-mpls
  |   |   |   +--rw enable-eth-ip? enumeration

```

## History

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

# brocade-rmon

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

## Top-level container

```

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

## History

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

# brocade-rpf

Describes the data model for the Reverse Path Forwarding (RPF) protocol.

## Top-level container

```
module: brocade-rpf
+--rw rpf_config /*drop-node-name*/
  +--rw urpf-exclude-default? empty
```

## External augmentations

```
module: brocade-interface
  | | +--rw rpf:rpf
  | | | +--rw rpf:log? empty
  | | +--rw rpf:rpf-mode
  | | | +--rw rpf:mode? enumeration
```

## History

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

# brocade-rtm

Provides a data model for IP routes.

## External augmentations

```

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

```

## History

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

# brocade-sec-services

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

## Top-level container

```

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

```

## External augmentations

```

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

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

```

## History

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



# brocade-sflow

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

## Top-level container

```

module: brocade-sflow
  +--rw sflow
  |   +--rw enable?                empty
  |   +--rw null0-sampling?        empty
  |   +--rw collector-vrf?         common-def:vrf-name
  |   +--rw agent-address
  |   |   +--rw agent-addr-type?   ip-addr-type
  |   |   +--rw agent-interface-type? source-interface-type
  |   |   +--rw agent-interface-name? union
  |   +--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
16r.1.00	This YANG module was introduced.

# brocade-snmp

Provides a data model for configuring the SNMP server.

## Top-level container

```

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

## History

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

# brocade-span

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

## Top-level container

```

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

```

## External augmentations

```

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

```

## History

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

# brocade-ssm-operational

Manages the switch security module (SSM).

## Top-level container

```

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

```

## History

Release version	History
17r.2.00	This YANG module was introduced.

# brocade-sysdiag-operational

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

## Top-level container

```

module: brocade-sysdiag-operational
  +--ro hw-state
  |   +--ro hw-route-info* [slot tower]
  |   |   +--ro slot          uint16
  |   |   +--ro tower        uint16
  |   |   +--ro lpm-percent?  decimal64
  |   |   +--ro lem-percent?  decimal64
  |   |   +--ro lpm-ipv4*     uint32
  |   |   +--ro lpm-ipv6*     uint32
  |   |   +--ro lpm-other*    uint32
  |   |   +--ro lem-ipv4*     uint32
  |   |   +--ro lem-ipv6*     uint32
  |   |   +--ro lem-other*    uint32
  |   |   +--ro lpm-total*    uint32
  |   |   +--ro lem-total*    uint32
  |   +--ro tm-state
  |   |   +--ro cngn-mon-dev
  |   |   |   +--ro discard-pkt-threshold?  uint32
  |   |   |   +--ro discard-log-interval?  uint16
  |   |   |   +--ro cngn-mon-voq
  |   |   |   |   +--ro discard-voq-pkt-threshold?  uint32
  |   |   |   |   +--ro discard-voq-log-interval?  uint16
  |   |   |   +--ro cngn-mon-del-pkt
  |   |   |   |   +--ro delete-pkt-threshold?  uint32
  |   |   |   |   +--ro delete-log-interval?  uint16
  |   |   |   +--ro tmdevicestataggr* [slot tower]
  |   |   |   |   +--ro slot          uint16
  |   |   |   |   +--ro tower        uint16
  |   |   |   |   +--ro ingress-total-pkt-cnt-aggr?  uint64
  |   |   |   |   +--ro cpu-pkt-cnt-aggr?          uint64
  |   |   |   |   +--ro nif-pkt-cnt-aggr?          uint64
  |   |   |   |   +--ro oamp-pkt-cnt-aggr?         uint64
  |   |   |   |   +--ro olp-pkt-cnt-aggr?         uint64
  |   |   |   |   +--ro rcy-pkt-cnt-aggr?         uint64
  |   |   |   |   +--ro mmu-pkt-cnt-aggr?         uint64
  |   |   |   |   +--ro 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 ipt-fdt-pkt-cnt-aggr?     uint64
  |   |   |   |   +--ro ipt-crc-err-pkt-cnt-aggr?  uint64
  |   |   |   |   +--ro uni-pkt-cnt-aggr?         uint64
  |   |   |   |   +--ro fqp-pkt-cnt-aggr?         uint64
  |   |   |   |   +--ro uni-discard-pkt-cnt-aggr?  uint64
  |   |   |   |   +--ro mcast-discard-pkt-cnt-aggr? uint64
  |   |   |   |   +--ro mcast-pkt-cnt-aggr?       uint64
  |   |   |   |   +--ro ehp-discard-cnt-aggr?     uint64
  |   |   |   |   +--ro prp-uc-discard-cnt-aggr?   uint64
  |   |   |   |   +--ro prp-mc-discard-cnt-aggr?   uint64
  |   |   |   |   +--ro prp-sop-uc-discard-cnt-aggr? uint64
  |   |   |   |   +--ro prp-sop-mc-discard-cnt-aggr? uint64
  |   |   |   |   +--ro ehp-mc-high-discard-cnt-aggr? uint64
  |   |   |   |   +--ro ehp-mc-low-discard-cnt-aggr? uint64
  |   |   |   |   +--ro erpp-lag-pruning-discard-cnt-aggr? uint64
  |   |   |   |   +--ro erpp-pmf-discard-cnt-aggr? uint64
  |   |   |   |   +--ro erpp-vlan-membership-discard-cnt-aggr? uint64
  |   |   |   |   +--ro epe-discard-cnt-aggr?     uint64
  |   |   |   |   +--ro epe-cnt-aggr?            uint64
  |   |   |   |   +--ro tot-egr-pkt-cnt-aggr?     uint64

```

```

| +--ro non-empty-voq* [slot tower]
| | +--ro slot          uint16
| | +--ro tower        uint16
| | +--ro voq-id*      uint32
| | +--ro voq-size*    uint32
| +--ro buf-pool-stats* [slot tower]
| | +--ro slot          uint16
| | +--ro tower        uint16
| | +--ro dram-size?   uint16
| | +--ro bd-occ-core0? uint64
| | +--ro buf-occ-bytes-core0? uint64
| | +--ro bd-occ-core1? uint64
| | +--ro buf-occ-bytes-core1? uint64
| +--ro tmpustatsslot* [slot-id cpugroup-id priority]
| | +--ro slot-id      uint16
| | +--ro cpugroup-id  uint16
| | +--ro priority     uint16
| | +--ro enqueuepkt?  uint64
| | +--ro enqueuebytes? uint64
| | +--ro discardpkt?  uint64
| | +--ro discardbytes? uint64
| | +--ro currdepth?   uint64
| | +--ro maxdepth?    uint64
| +--ro tmpustatsslotallgrp* [slot-id priority]
| | +--ro slot-id      uint16
| | +--ro priority     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 stats
    +--ro gos-link-status? string
    +--ro gos-tx-pkts-cnt? uint64
    +--ro gos-tx-bytes-cnt? uint64

```

```

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

```

## History

Release version	History
16r.1.00	This YANG module was introduced.
17r.1.00	This YANG module was modified.



# 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
16r.1.00	This YANG module was introduced.

# brocade-sysmgr-operational

Provides a data model to manage the system manager.

```

module: brocade-sysmgr-operational
  +--ro sfm-state
    +--ro mcast* [mcastid]
      | +--ro mcastid          uint32
      | +--ro mcast-count?    uint32
      | +--ro mcast-sfmid?    uint32
      | +--ro mcast-feid?     uint32
      | +--ro mcast-sfmcoun?  uint32
      | +--ro mcast-out*      uint32
    +--ro statistics* [statistics-sfmid]
      | +--ro statistics-sfmid          uint32
      | +--ro statistics-feid?         uint32
      | +--ro statistics-pipe?         uint32
      | +--ro statistics-dch-total-in?  uint32
      | +--ro statistics-dch-total-out? uint32
      | +--ro statistics-dch-fifo-discard? uint32
      | +--ro statistics-dch-reorder-discard? uint32
      | +--ro statistics-dch-unreach-discard? uint32
      | +--ro statistics-dch-max-q-size?  uint32
      | +--ro statistics-dcm-tot?        uint32
      | +--ro statistics-dcm-drop?       uint32
      | +--ro statistics-dcm-max?        uint32
      | +--ro statistics-dcl-tot-in?     uint32
      | +--ro statistics-dcl-tot-out?    uint32
      | +--ro statistics-dcl-dropped?    uint32
      | +--ro statistics-dcl-max?        uint32
    +--ro links* [links-sfmid]
      | +--ro links-count?          uint32
      | +--ro links-sfmid           uint32
      | +--ro links-feid?          uint32
      | +--ro links-crc*           uint32
      | +--ro links-size*          uint32
      | +--ro links-codegroup*     uint32
      | +--ro links-misalign*      uint32
      | +--ro links-lock*          uint32
      | +--ro links-accept*        uint32
      | +--ro links-error*         uint32
      | +--ro links-errorcount*    uint32
    +--ro queue* [queue-sfmid]
      | +--ro queue-sfmid          uint32
      | +--ro queue-feid?         uint32
      | +--ro queue-pipe?         uint32
      | +--ro queue-dch-count?    uint32
      | +--ro queue-dcm-count?    uint32
      | +--ro queue-dcl-count?    uint32
      | +--ro queue-dch-value*    uint32
      | +--ro queue-dch-linkno*   uint32
      | +--ro queue-dcm-value*    uint32
      | +--ro queue-dcm-linkno*   uint32
      | +--ro queue-dcl-value*    uint32
      | +--ro queue-dcl-linkno*   uint32
    +--ro thresholds* [thresholds-sfmid]
      | +--ro thresholds-sfmid    uint32
      | +--ro thresholds-feid?    uint32
      | +--ro thresholds-port?    uint32
      | +--ro thresholds-pipe*    uint32
      | +--ro thresholds-rxthreshold* uint32
      | +--ro thresholds-txthreshold* uint32
      | +--ro thresholds-midthreshold* uint32
    +--ro connectivity* [connectivity-sfmid]
      | +--ro connectivity-count?  uint32
      | +--ro connectivity-sfmid   uint32
      | +--ro connectivity-feid?   uint32
      | +--ro connectivity-type?   string
      | +--ro connectivity-linkid* uint32
      | +--ro connectivity-moduleid* uint32

```

```
| +--ro connectivity-port*      uint32
+--ro serdesmode* [serdesmode-sfmid]
  +--ro serdesmode?            uint32
  +--ro serdesmode-sfmid      uint32
  +--ro serdesmode-feid?     uint32
```

## History

Release version	History
17r.2.00	This YANG module was introduced.

# brocade-sysmon

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

Use this module to manage TM and SFM error monitoring.

## Top-level container

```

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

```

## History

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

# brocade-system

Provides a data model for system-related information.

## 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
        +--ro cmd-error?  string
  
```

## History

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

# brocade-system-capabilities

Displays system capabilities of the Brocade device.

## Top-level container

```

module: brocade-system-capabilities
  +--ro capabilities
    +--ro power
      | +--ro lc_sfm?          boolean
      | +--ro psu_on_off?    boolean
    +--ro temperature
      | +--ro tmpr_detail?   boolean
    +--ro qos
      | +--ro mls
      | | +--ro qos-intf-default-cos?          boolean
      | | +--ro qos-intf-default-traffic-class?  boolean
      | | +--ro flowcontrol
      | |   +--ro clear-qos-flowcontrol-statistics?  boolean
      | +--ro mqc
      |   +--ro span?          boolean
      |   +--ro vlan-based-actions?  boolean
      |   +--ro bd-based-actions?  boolean
    +--ro l3
      | +--ro rpf?  boolean
    +--ro l2
      | +--ro port_profile?          boolean
      | +--ro overlap_vlan?         boolean
      | +--ro rspan?                boolean
      | +--ro mac_move?              boolean
      | +--ro consistency_check?    boolean
      | +--ro learning_mode?        boolean
      | +--ro priority_tag?         boolean
      | +--ro internal_nsm?         boolean
    +--ro ipv6
      | +--ro ipv6Raguard?  boolean
    +--ro ssm
      | +--ro aclTrafficType?  boolean
    +--ro lag
      | +--ro PortchannelRedundancy?  boolean
    +--ro license
      | +--ro eula_display?  boolean
      | +--ro dpod_display?  boolean
      | +--ro slot_display?  boolean
    +--ro tm?  boolean
    +--ro overlay
      | +--ro gre?  boolean
      | +--ro vxlan
      | | +--ro hardware-vtep?          boolean
      | | +--ro vtep-ip-ve?           boolean
      | | +--ro vxlan-tunnel-bfd?     boolean
      | | +--ro vxlan-tunnel-mac-learn-protocol-bgp?  boolean
    +--ro openflow
      | +--ro ingress?  boolean
    +--ro vlan
      | +--ro vlan-ipv6?  boolean

```

## History

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

## brocade-system-monitor

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

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

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

### Top-level container

```

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

```

```

| +--rw SFM
| | +--rw threshold
| | | +--rw marginal-threshold? uint32
| | | +--rw down-threshold?    uint32
| +--rw port!
| | +--rw crc
| | | +--rw port-crc-mon-action?   enumeration
| | | +--rw port-crc-mon-interval? uint16
| | | +--rw port-crc-mon-threshold? uint8
| | | +--rw port-crc-mon-disable?  empty
| +--rw tm!
| | +--rw discard-packet
| | | +--rw tm-discard-packet-action? enumeration
| | | +--rw tm-discard-packet-threshold? uint32
| | | +--rw tm-discard-packet-interval? uint16
| | +--rw discard-voq-packet
| | | +--rw tm-discard-voq-packet-action? enumeration
| | | +--rw tm-discard-voq-packet-threshold? uint32
| | | +--rw tm-discard-voq-packet-interval? uint16
| | +--rw delete-packet
| | | +--rw tm-delete-packet-action? enumeration
| | | +--rw tm-delete-packet-threshold? uint32
| | | +--rw tm-delete-packet-interval? uint16
+--rw system-monitor-mail
+--rw fru
| +--rw enable? empty
| +--rw email-list* [email]
| +--rw email string
+--rw sfp
| +--rw enable? empty
| +--rw email-list* [email]
| +--rw email string
+--rw security
| +--rw enable? empty
| +--rw email-list* [email]
| +--rw email string
+--rw interface
| +--rw enable? empty
| +--rw email-list* [email]
| +--rw email string
+--rw relay* [host-ip]
+--rw host-ip inet:host
+--rw domain-name? string

```

## History

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



# brocade-system-monitor-ext

Provides a data model for returning system monitor data.

## RPCs

```

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
16r.1.00	This YANG module was introduced.

# brocade-system-watermark

Defines the system-related information.

## Top-level container

```
module: brocade-system-watermark
  +--rw system-config
    +--rw interface
      +--rw utilization-watermark?  empty
```

## History

Release version	History
17r.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-encoding?     collector-encoding-type
      | +--rw collector-activate?     empty
    +--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
      +--rw enhanced-voq-discard-pkts* [name]
        | +--rw name      enhanced-voq-discard-pkts-profile-name-type
        | +--rw interval? voq-profile-interval-type
        | +--rw interface-range?  phy-interface-range-cli-pattern
        | +--rw add* [object]
        | | +--rw object  enhanced-voq-discard-pkts-profile-object-type
      +--rw enhanced-voq-max-queue-depth* [name]
        | +--rw name      enhanced-voq-max-queue-depth-profile-name-type
        | +--rw interval? voq-profile-interval-type
        | +--rw interface-range?  phy-interface-range-cli-pattern
        | +--rw add* [object]
        | | +--rw object  enhanced-voq-max-queue-depth-profile-object-type
      +--rw tm-voq* [name]
        +--rw name      tm-voq-profile-name-type
        +--rw interval? voq-profile-interval-type
        +--rw add* [object]
        | +--rw object  tm-voq-profile-object-type

```

## History

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

# brocade-terminal

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

## Top-level container

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

## History

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

# brocade-threshold-monitor

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

The following components are monitored:

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

## Top-level container

```

module: brocade-threshold-monitor
  +---rw threshold-monitor-hidden
    +---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
16r.1.00	This YANG module was introduced.

# brocade-tm-stats

Manages the traffic manager statistics.

## RPCs

```

rpcs:
  +---x clear-tm-voq-stat-ing-all-egr-all
  | +---w input
  |   +---w clear-tm-voq-ing-all-egress-port-all?  boolean
  +---x clear-tm-voq-stat-ing-all-egr-ifname
  | +---w input
  |   +---w clear-tm-voq-ing-all-egress-port-name?  string
  +---x clear-tm-voq-stat-slot-id-egr-all
  | +---w input
  |   +---w slot-id                                common-def:lc-number-type
  |   +---w clear-tm-voq-slot-egress-port-all?    boolean
  +---x clear-tm-voq-slot-id-egress-port-name
  | +---w input
  |   +---w slot-id                                common-def:lc-number-type
  |   +---w clear-tm-voq-slot-egress-port-name    string

```

## History

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

# brocade-topology-group

Manages the topology group-related commands.

## Top-level container

```

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

## History

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

# brocade-tpvm

Provide the Third Party Virtual Machine (TPVM) administration commands.

## Top-level container

```

module: brocade-tpvm
+--rw tpvm
+---x install
| +---w input
| | +---w blade? bladeType
| | +---w debug? boolean
| +--ro output
|   +--ro tpvm-install-msg? string
+---x uninstall
| +---w input
| | +---w force? empty
| | +---w blade? bladeType
| | +---w debug? boolean
| +--ro output
|   +--ro tpvm-uninstall-msg? string
+---x password
| +---w input
| | +---w blade? bladeType
| | +---w debug? boolean
| +--ro output
|   +--ro tpvm-update-password-msg? string
+---x start
| +---w input
| | +---w blade? bladeType
| | +---w debug? boolean
| +--ro output
|   +--ro tpvm-start-msg? string
+---x stop
| +---w input
| | +---w blade? bladeType
| | +---w debug? boolean
| +--ro output
|   +--ro tpvm-stop-msg? string
+--rw auto-boot
| +---x enable
| | +---w input
| | | +---w blade? bladeType
| | | +---w debug? boolean
| | +--ro output
| |   +--ro tpvm-enable-on-boot-msg? string
| +---x disable
| | +---w input
| | | +---w blade? bladeType
| | | +---w debug? boolean
| | +--ro output
| |   +--ro tpvm-disable-on-boot-msg? string
+--rw service-port
| +---x enable
| | +---w input
| | | +---w blade? bladeType
| | | +---w debug? boolean
| | +--ro output
| |   +--ro tpvm-sp-enable-msg? string
+--rw disk
+---x add
| +---w input
| | +---w name union
| | +---w size diskSize
| | +---w blade? bladeType
| | +---w debug? boolean
| +--ro output
|   +--ro tpvm-add-disk-msg? string

```



```
+---x remove
+---w input
| +---w name      union
| +---w blade?   bladeType
| +---w debug?   boolean
+--ro output
   +--ro tpvm-remove-disk-msg?  string
```

## History

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

# brocade-tunnels

Provides a data model to manage tunnels configuration.

## Top-level container

```

module: brocade-tunnels
  +--rw nsx-controller* [name]
  |   +--rw name                nvp-controller-name-type
  |   +--rw connection-addr
  |   |   +--rw address?       inet:ip-address
  |   |   +--rw port?         uint32
  |   |   +--rw method?       enumeration
  |   +--rw reconnect-interval? uint32
  |   +--rw activate?         empty
  +--rw overlay-gateway* [name]
  |   +--rw name                overlay-gw-name-type
  |   +--rw gw-type?           overlay-gw-type
  |   +--rw ip
  |   |   +--rw interface
  |   |   |   +--rw ve
  |   |   |   |   +--rw ve-id?                intf:ve-type
  |   |   |   |   +--rw vrrp-extended-group? vrrp:vrid-type
  |   |   |   |   +--rw fabric-virtual-gateway!
  |   |   +--rw loopback
  |   |   |   +--rw loopback-id?   lo:intf-loopback-port-type
  |   +--rw map
  |   |   +--rw vlan-vni-mapping* [vid]
  |   |   |   +--rw vid           vlan-type
  |   |   |   +--rw vni?         vni-type
  |   |   +--rw bd-vni-mapping* [bdid]
  |   |   |   +--rw bdid        bridge-domain-id-type
  |   |   |   +--rw vni?       vni-type
  |   |   +--rw vlan-and-bd
  |   |   |   +--rw vni
  |   |   |   |   +--rw auto?     empty
  |   +--rw qos-ttl-mode?       qos-mode-type
  +--rw access-lists
  |   +--rw overlay-acl-in
  |   |   +--rw in-name?       overlay-acl-name
  |   |   +--rw in-dir?       empty
  +--rw site* [name]
  |   +--rw name                site-id-type
  |   +--rw description?       string
  |   +--rw tunnel-dst* [address]
  |   |   +--rw address        inet:ip-address
  |   +--rw static* [mac-address vni-num]
  |   |   +--rw mac-address    mac-access-list:mac-address-type
  |   |   +--rw vni-num        vni-num-type
  |   +--rw extend
  |   |   +--rw vlan
  |   |   |   +--rw add?       vlan-range-type
  |   |   |   +--rw remove?   vlan-range-type
  |   |   +--rw bridge-domain
  |   |   |   +--rw bd-add?    bridge-domain-id-range-type
  |   |   |   +--rw bd-remove? bridge-domain-id-range-type
  |   +--rw mac-learning
  |   |   +--rw protocol?     mac-learning-proto-type
  |   +--rw bfd-enable?       empty
  |   +--rw bfd
  |   |   +--rw params
  |   |   |   +--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 shutdown?         empty
  +--rw activate?             empty

```

```
+--rw ovldb-server* [name]
| +--rw name          ovldb-server-name-type
| +--rw port?         ovldb-server-port-type
| +--rw activate?    empty
+--rw tunnel-settings
  +--rw system
    +--rw tunnel
      +--rw suppress-debounce?  empty
      +--rw replicator
        +--rw load-balance?  empty
```

## History

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

# brocade-tunnels-ext

Provides a data model to manage IP tunnel configuration.

## RPCs

```

rpcs:
  +---x get-tunnel-info
  | +---w input
  | | +---w page-cursor?  string
  | | +---w node-id*      uint32
  | | +---w (filter-type)?
  | | | +---:(filter-by-id)
  | | | | +---w id?          tnl:tunnel-id-type
  | | | +---:(filter-by-mode)
  | | | | +---w mode?        tnl:tunnel-mode-type
  | | | +---:(filter-by-gateway)
  | | | | +---w gw-name?     tnl:overlay-gw-name-type
  | | | +---:(filter-by-sip)
  | | | | +---w src-ip?      inet:ipv4-address
  | | | +---:(filter-by-dip)
  | | | | +---w dest-ip?     inet:ipv4-address
  | | | +---:(filter-by-cfg-src)
  | | | | +---w config-src?  config-src-type
  | | | +---:(filter-by-site)
  | | | | +---w site-name?   tnl:site-id-type
  | | | +---:(filter-by-adm-state)
  | | | | +---w admin-state? proto-state-type
  | | | +---:(filter-by-opr-state)
  | | | | +---w oper-state?  proto-state-type
  | | | +---:(filter-by-bfd-state)
  | | | | +---w bfd-state?   proto-state-type
  | +---ro output
  | | +---ro tunnel*
  | | | +---ro id?          tnl:tunnel-id-type
  | | | +---ro mode?        tnl:tunnel-mode-type
  | | | +---ro src-ip?      inet:ip-address
  | | | +---ro dest-ip?     inet:ip-address
  | | | +---ro vrf?         comn:vrf-name
  | | | +---ro config-src?  config-src-type
  | | | +---ro admin-state? proto-state-type
  | | | +---ro oper-state?  proto-state-type
  | | | +---ro bfd-state?   proto-state-type
  | | | +---ro nodes
  | | | | +---ro node-id*   uint32
  | | | +---ro has-conflicts? empty
  | | | +---ro next-page-cursor? string
  +---x get-tunnel-statistics
  | +---w input
  | | +---w page-cursor?  string
  | | +---w node-id*      uint32
  | | +---w (filter-type)?
  | | | +---:(filter-by-id)
  | | | | +---w id?          tnl:tunnel-id-type
  | | | +---:(filter-by-mode)
  | | | | +---w mode?        tnl:tunnel-mode-type
  | | | +---:(filter-by-gateway)
  | | | | +---w gw-name?     tnl:overlay-gw-name-type
  +---ro output
  | +---ro tunnel-stat*
  | | +---ro id?          tnl:tunnel-id-type
  | | +---ro tx-frames?   uint64
  | | +---ro tx-bytes?    uint64
  | | +---ro rx-frames?   uint64
  | | +---ro rx-bytes?    uint64
  | +---ro next-page-cursor? string

```

## History

Release version	History
17r.1.01	This YANG module was introduced.

# brocade-udld

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

## External augmentations

```

module: brocade-interface
  +--rw protocol
  |   +--rw udld:udld?
  |   |   +--rw udld:hello?      uint32
  |   |   +--rw udld:multiplier? uint32
  |   |   +--rw udld:shutdown?  empty
  |
module: brocade-interface
  +--rw interface
  |   +--rw ethernet [name]
  |   |   +--rw udld:udld
  |   |   |   +--rw udld:udld-enable?  empty /*alt-name:"enable"*/

```

## History

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

# brocade-vcs

Provides a data model for managing the Brocade VCS fabric.

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

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

## Top-level container

```

module: brocade-vcs
  +--ro vcsmode
  | +--ro vcs-mode          boolean
  | +--ro vcs-cluster-mode  boolean
  +--ro local-node
  | +--ro swbd-number      uint32
  +--rw vcs
  | +--rw virtual
  | | +--rw ip
  | | | +--rw address* [address]
  | | |   +--rw address      common-def:ipv4-address-prefix-type
  | | |   +--rw inband
  | | |   +--rw interface
  | | |   +--rw ve?         ve-type
  | | +--rw ipv6
  | | | +--rw address* [ipv6address]
  | | |   +--rw ipv6address  common-def:ipv6-address-prefix
  +--rw virtual-fabric
  | +--rw vfab-enable?     empty

```

## RPCs

```

+---x get-last-config-update-time
  | +--ro output
  | | +--ro last-config-update-time?  uint64
+---x show-vcs
  | +--ro output
  | | +--ro principal-switch-wnn?      string
  | | +--ro co-ordinator-wnn?         string
  | | +--ro vcs-cluster-type-info?    vcs-cluster-type
  | | +--ro vcs-guid?                 string
  | | +--ro virtual-ip-address?       string
  | | +--ro virtual-ipv6-address?     string
  | | +--ro total-nodes-in-cluster?   uint16
  | | +--ro nodes-disconnected-from-cluster?  uint16
  | | +--ro cluster-generic-status?   string
  | | +--ro cluster-specific-status?  string
  | | +--ro vcs-nodes
  | | | +--ro vcs-node-info*
  | | | | +--ro node-num?              uint16
  | | | | +--ro node-serial-num?      string
  | | | | +--ro node-condition?       string
  | | | | +--ro node-status?          string
  | | | | +--ro node-hw-sync-state?   node-hw-sync-state-type
  | | | | +--ro node-vcs-mode?        string
  | | | | +--ro node-vcs-id?          uint16
  | | | | +--ro node-rbridge-id?     uint16
  | | | | +--ro node-is-principal?    boolean
  | | | | +--ro co-ordinator?         boolean
  | | | | +--ro node-switch-mac?     yang:mac-address
  | | | | +--ro node-switch-wnn?     string

```

```

|         +--ro switch-fcf-mac?          yang:mac-address
|         +--ro node-internal-ip-address?  inet:ipv4-address
|         +--ro node-public-ip-addresses*
|         |   +--ro node-public-ip-address?  inet:ipv4-address
|         +--ro node-public-ipv6-addresses*
|         |   +--ro node-public-ipv6-address?  inet:ipv6-address
|         +--ro firmware-version?         string
|         +--ro node-swbd-number?         int32
|         +--ro node-switchname?          string
|         +--ro node-switchtype?          string
|         +--ro node-switch-subtype?      uint16
|         +--ro node-switch-description?   string
|         +--ro manufacturer-name?        string
|         +--ro node-state?               node-state-type
|         +--ro node-fabric-state?        string
+---x get-vcs-details
|   +--ro output
|     +--ro vcs-details
|       +--ro principal-switch-wwn?      string
|       +--ro co-ordinator-wwn?         string
|       +--ro local-switch-wwn?         string
|       +--ro node-vcs-mode?             boolean
|       +--ro node-vcs-type?             vcs-cluster-type
|       +--ro node-vcs-id?               uint32
+---x vcs-rbridge-config
|   +---w input
|     +---w vcs-id?      uint16
|     +---w rbridge-id? uint16
+---x vcs-rbridge-context
|   +---w input
|     +---w rbridge-id? uint16
+---x no-vcs-rbridge-context
+---x get-last-config-update-time-for-xpaths
|   +---w input
|     | +---w xpath-strings* [xpath-string]
|     | +---w xpath-string  string
|     +---ro output
|       +--ro last-config-update-time-for-xpaths* [xpath-string]
|       +--ro xpath-string                        string
|       +--ro last-config-update-time?           uint64

```

## History

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



# brocade-vlan

Provides a data model for managing VLAN classifiers.

## Top-level container

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

## History

Release version	History
16r.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-distiguisher? rd-type
    +--rw vpn-statistics?    empty
    +--rw evpn
      | +--rw irb
      |   +--rw ve?          interface:ve-type
      |   +--rw cluster-gateway? empty
    +--rw route-target* [action target-community]
      | +--rw action          enumeration
      | +--rw target-community rt-type
    +--rw address-family
      | +--rw ip
      | | +--rw unicast!
      | |   +--rw max-route?          uint32
      | |   +--rw route-taret-container
      | |     | +--rw route-target-evpn* [action target-community]
      | |     |   +--rw action          enumeration
      | |     |   +--rw target-community rt-type
      | |     |   +--rw evpn?          empty
      | |     +--rw route-target-container-ipv4
      | |       | +--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 bgp
      | |       | +--rw next-hop
      | |       |   +--rw loopback?   intf-loopback:intf-loopback-port-type
      | |     +--rw arp:arp-entry* [arp-ip-address]
      | |       | +--rw arp:arp-ip-address   inet:ipv4-address
      | |       | +--rw arp:mac-address-value? mac-access-list:mac-address-type
      | |       | +--rw arp:interfacename?   enumeration
      | |       |   +--rw (interfacetype)?
      | |       |     +--: (Ethernet)
      | |       |     | +--rw arp:Ethernet?   interface:interface-type
      | |       |     +--: (Ve)
      | |       |     | +--rw arp:Ve?         interface:vlan-type
      | |     +--rw rtm:ip
      | |       +--rw rtm:route
      | |         | +--rw rtm:static-route-nh* [static-route-dest static-route-next-hop]
      | |         | | +--rw rtm:static-route-dest   inet:ipv4-prefix
      | |         | | +--rw rtm:static-route-next-hop inet:ipv4-address
      | |         | | +--rw rtm:route-attributes
      | |         | |   +--rw rtm:metric?          uint32
      | |         | |   +--rw rtm:distance?        uint32
      | |         | |   +--rw rtm:tag?             uint32
      | |         | +--rw rtm:static-route-nh-vrf* [static-route-next-vrf-dest next-hop-vrf static-
route-next-hop]
      | |         | | +--rw rtm:static-route-next-vrf-dest   inet:ipv4-prefix
      | |         | | +--rw rtm:next-hop-vrf                 common-def:vrf-name
      | |         | | +--rw rtm:static-route-next-hop       inet:ipv4-address
      | |         | +--rw rtm:static-route-oif-vrf* [static-route-next-vrf-dest next-hop-vrf static-
route-oif-type static-route-oif-name]
      | |         | | +--rw rtm:static-route-next-vrf-dest   inet:ipv4-prefix
      | |         | | +--rw rtm:next-hop-vrf                 common-def:vrf-name

```

```

| | | | +--rw rtm:static-route-oif-type          enumeration
| | | | +--rw rtm:static-route-oif-name          string
oif-name] | | | +--rw rtm:static-route-oif* [static-route-dest static-route-oif-type static-route-
| | | | +--rw rtm:static-route-dest            inet:ipv4-prefix
| | | | +--rw rtm:static-route-oif-type          enumeration
| | | | +--rw rtm:static-route-oif-name          string
| | | | +--rw rtm:route-attributes
| | | | | +--rw rtm:metric?      uint32
| | | | | +--rw rtm:distance?    uint32
| | | | | +--rw rtm:tag?         uint32
| | | | +--rw rtm:import
| | | | | +--rw rtm:routes* [src-vrf route-map]
| | | | | +--rw rtm:src-vrf      common-def:vrf-name
| | | | | +--rw rtm:route-map    common-def:name-string63
+--rw ipv6
| | +--rw unicast!
| | | +--rw max-route?          uint32
| | | +--rw route-target-container-ipv6
| | | | +--rw route-target-evpn* [action target-community]
| | | | | +--rw action            enumeration
| | | | | +--rw target-community  rt-type
| | | | | +--rw evpn?            empty
| | | | +--rw route-taret-container-ipv6
| | | | | +--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 bgp
| | | | | +--rw next-hop
| | | | | | +--rw loopback?    intf-loopback:intf-loopback-port-type
+--rw ipv6-route:ipv6
| | +--rw ipv6-route:route
| | | +--rw ipv6-route:static-route-nh* [static-route-dest static-route-next-hop]
| | | | +--rw ipv6-route:static-route-dest    inet:ipv6-prefix
| | | | +--rw ipv6-route:static-route-next-hop inet:ipv6-address
| | | | +--rw ipv6-route:route-attributes
| | | | | +--rw ipv6-route:metric?    uint32
| | | | | +--rw ipv6-route:distance?  uint32
| | | | | +--rw ipv6-route:tag?       uint32
| | | | +--rw ipv6-route:static-route-oif* [static-route-dest static-route-oif-type static-
route-oif-name]
| | | | | +--rw ipv6-route:static-route-dest    inet:ipv6-prefix
| | | | | +--rw ipv6-route:static-route-oif-type  enumeration
| | | | | +--rw ipv6-route:static-route-oif-name  string
| | | | | +--rw ipv6-route:route-attributes
| | | | | | +--rw ipv6-route:metric?    uint32
| | | | | | +--rw ipv6-route:distance?  uint32
| | | | | | +--rw ipv6-route:tag?       uint32
| | | | | +--rw ipv6-route:link-local-static-route-nh* [link-local-static-route-dest link-
local-nexthop link-local-route-oif-type link-local-route-oif-name]
| | | | | | +--rw ipv6-route:link-local-static-route-dest    inet:ipv6-prefix
| | | | | | +--rw ipv6-route:link-local-nexthop              inet:ipv6-address
| | | | | | +--rw ipv6-route:link-local-route-oif-type        enumeration
| | | | | | +--rw ipv6-route:link-local-route-oif-name        string
| | | | | | +--rw ipv6-route:route-attributes
| | | | | | | +--rw ipv6-route:metric?    uint32
| | | | | | | +--rw ipv6-route:distance?  uint32
| | | | | | | +--rw ipv6-route:tag?       uint32
| | | | | +--rw ipv6-route:static-route-nh-vrf* [static-route-next-vrf-dest next-hop-vrf
static-route-next-hop]
| | | | | | +--rw ipv6-route:static-route-next-vrf-dest    inet:ipv6-prefix
| | | | | | +--rw ipv6-route:next-hop-vrf                  common-def:vrf-name
| | | | | | +--rw ipv6-route:static-route-next-hop          inet:ipv6-address
| | | | | | +--rw ipv6-route:link-local-static-route-nh-vrf* [static-route-next-vrf-dest next-
hop-vrf link-local-next-hop link-local-route-oif-type link-local-route-oif-name]

```

```

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

```

## History

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

## brocade-vrrp

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

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

### External augmentations

```

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

```

### History

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

# brocade-vrrpv3

Provides a data model for configuring the Virtual Router Redundancy Protocol IPv6 (VRRPV3).

Use this module to enable VRRPV3 globally, and to configure and enable VRRPV3 on specific interfaces to share workload and provide router redundancy.

## Top-level container

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

## External augmentations

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

## History

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

# brocade-vxlan-visibility

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

## Top-level container

```

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

```

```

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

```

## History

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



# brocade-xstp-ext

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

## RPCs

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

## History

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



# Custom RPCs

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

**TABLE 7** Custom RPCs

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

**TABLE 7** Custom RPCs (continued)

RPC name	Host module	Synopsis
get-nameserver-detail	brocade-nameserver	Displays detailed information of the devices stored in the Name Server database.
get-netconf-client-capabilities	brocade-netconf-ext	Returns the vendor information for all NETCONF clients.
get-port-channel-detail	brocade-lag	Returns link aggregation control configuration parameters for all the port-channels in the system.
get-portchannel-info-by-intf	brocade-lag	Returns link aggregation control configuration parameters for a given aggregation port in the system.
get-port-profile-for-intf	brocade-port-profile-ext	Returns the port-profiles applied on ports and port-channels.
get-port-profile-status	brocade-port-profile-ext	Returns the status of a port-profile.
get-stp-brief-info	brocade-xstp-ext	Returns Spanning Tree Protocol (STP) information.
get-stp-mst-detail	brocade-xstp-ext	Returns Multiple Spanning Tree Protocol (MSTP) details.
get-system-uptime	brocade-system	Returns the time since the managed entity was last reinitialized.
get-vcs-details	brocade-vcs	Retains detailed VCS fabric information.
get-vlan-brief	brocade-interface-ext	Returns operational data for a given VLAN and enumeration of all the interfaces belonging to this VLAN.
get-vmppolicy-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.



**TABLE 7** Custom RPCs (continued)

RPC name	Host module	Synopsis
		Data center name added in output.
get-vnetwork-vswitches	brocade-vswitch	Takes vCenter name as mandatory input, data center name as optional input.  All is not supported input anymore.  Data center name added in output. Returns discovered virtual switches.
get-vmpolicy-macaddr	brocade-vswitch	Returns the associations among Virtual Network Interface Cards (VNICs) or Virtual Machine Kernet Network Interface Cards (VMKNICs), port-groups, and port-profiles.
get-tunnel-info	brocade-tunnels-extrpcs	Retrieves summary of one or more 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.

**TABLE 7** Custom RPCs (continued)

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

# Actions

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

**TABLE 8** Actions

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

**TABLE 8** Actions (continued)

Action name	Host module	Node	Purpose
connector-group	brocade-hardware	common-def:show	Sets a connector group that FlexPort is allowed to access on the switch.
console	brocade-ras	ras/logging/raslog	Sets the severity levels for the RASLog console and allows users to temporarily stop showing RASLog messages on the console.
cpu	brocade-ras-ext	common-def:show/infra/process	Lists processes by CPU usage.
cpu	brocade-ras	resource monitor	Lists processes by CPU usage.
dadstatus	brocade-firmware	common-def:show/dhcp-auto-deployment	Displays the current status of firmware download.
description	brocade-ras-ext	rasman	Displays the details of the defined log modules.
detail	brocade-nameserver	common-def:show/:	Returns details about the configured name server.
dhchap	brocade-fc-auth	auth-secret	Configures authorization secret for DH-CHAP.
dhchap	brocade-fc-auth	common-def:no/fcsp/auth-secret	Deletes the authorization secret for DH-CHAP.
dhchap	brocade-fc-auth	common-def:show/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.

**TABLE 8** Actions (continued)

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

**TABLE 8** Actions (continued)

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

**TABLE 8** Actions (continued)

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

**TABLE 8** Actions (continued)

Action name	Host module	Node	Purpose
sensor	brocade-ras-ext	common-def:show/infra/ environment	Returns sensor information.
sessions	brocade-aaa	common-def:clear/login	Unlocks a user account.
setcycle	brocade-diagnostics	diag	Configures all the parameters required for the system verification test.
setdbg	brocade-diagnostics	diag	Changes the debug level.
sfm	brocade-linecard-management	common-def:show/sfminfo	Switch fabric module.
sfp	brocade-threshold-monitor-ext	common-def:show/defaults/ threshold-monitor- extensions:threshold	Displays default threshold and alert values for SFP.
sftp	brocade-firmware	firmware/download	Downloads firmware with SFTP.
sftp	brocade-firmware	firmware/download/default-config	Downloads firmware with SFTP.
sftp	brocade-firmware	firmware/download/logical-chassis	Downloads firmware with SFTP for logical-chassis.
sftp	brocade-firmware	firmware/download/logical-chassis/ default-config	Downloads firmware with SFTP for logical-chassis.
slots	brocade-linecard-management	common-def:show/slotsinfor	Modules present in the chassis.
sshkey	brocade-certutil	certutil/import	SSH public key import operation.
sshkey	brocade-certutil	common-def:no/cert-util	Displays username length error message.
sshkey	brocade-certutil	common-def:show/certutil:cert-util	Displays user name length error message.
start	brocade-ha	ha/sync	Syncs up the system.
status	brocade-diagnostics	common-def:show	Displays 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.



**TABLE 8** Actions (continued)

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