



# Extreme SLX-OS YANG Reference Guide, 20.2.1a

Supporting ExtremeRouting and ExtremeSwitching  
SLX 9640, SLX 9540, SLX 9150, and SLX 9250

9036688-01 Rev AA  
August 2020



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# Preface

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This section describes the text conventions used in this document, where you can find additional information, and how you can provide feedback to us.




## Text Conventions

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Unless otherwise noted, information in this document applies to all supported environments for the products in question. Exceptions, like command keywords associated with a specific software version, are identified in the text.

When a feature, function, or operation pertains to a specific hardware product, the product name is used. When features, functions, and operations are the same across an entire product family, such as ExtremeSwitching switches or SLX routers, the product is referred to as *the switch* or *the router*.

**Table 1: Notes and warnings**

Icon	Notice type	Alerts you to...
	Tip	Helpful tips and notices for using the product.
	Note	Useful information or instructions.
	Important	Important features or instructions.

**Table 1: Notes and warnings (continued)**

Icon	Notice type	Alerts you to...
	Caution	Risk of personal injury, system damage, or loss of data.
	Warning	Risk of severe personal injury.

**Table 2: Text**

Convention	Description
screen displays	This typeface indicates command syntax, or represents information as it appears on the screen.
The words <i>enter</i> and <i>type</i>	When you see the word <i>enter</i> in this guide, you must type something, and then press the Return or Enter key. Do not press the Return or Enter key when an instruction simply says <i>type</i> .
<b>Key</b> names	Key names are written in boldface, for example <b>Ctrl</b> or <b>Esc</b> . If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press <b>Ctrl+Alt+Del</b>
Words in <i>italicized type</i>	Italics emphasize a point or denote new terms at the place where they are defined in the text. Italics are also used when referring to publication titles.
<b>NEW!</b>	New information. In a PDF, this is searchable text.

**Table 3: Command syntax**

Convention	Description
<b>bold text</b>	Bold text indicates command names, keywords, and command options.
<i>italic text</i>	Italic text indicates variable content.
[ ]	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.
{ <b>x</b>   <b>y</b>   <b>z</b> }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
<b>x</b>   <b>y</b>	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, such as passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, <i>member</i> [ <i>member</i> . . .].
\	In command examples, the backslash indicates a “soft” line break. When a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

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Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

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[Extreme Optics Compatibility](#)

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### Extreme Portal

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### Call GTAC

For immediate support: (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)

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

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3. Select the products for which you would like to receive notifications.

**Note**

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



# About This Document

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## What's New in This Document

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This guide accompanies the SLX-OS 20.2.1a software release. There are no changes to the guide from the previous release.

For more information about the release, see the *Extreme SLX-OS Release Notes*.

## Supported Hardware

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For instances in which a topic or part of a topic applies to some devices but not to others, the topic specifically identifies the devices.

SLX-OS 20.2.1a supports the following hardware platforms.

- Devices based on the Broadcom XGS<sup>®</sup> chipset family:
  - ExtremeSwitching SLX 9250
  - ExtremeSwitching SLX 9150
- Devices based on the Broadcom DNX<sup>®</sup> chipset family:
  - ExtremeRouting SLX 9640
  - ExtremeSwitching SLX 9540



### Note

Although many software and hardware configurations are tested and supported for this release, documenting all possible configurations and scenarios is beyond the scope of this document.

For information about other releases, see the documentation for those releases.



# Using YANG

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## YANG overview

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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

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The *Extreme SLX-OS YANG Reference Guide* is a reference for YANG modules supported by SLX-OS 20.11.

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 4: Field descriptions**

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



# YANG Modules

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## extreme-aaa

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

### Top-level container

```

module: extreme-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
```

## extreme-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
```

## extreme-acl-policy

---

Manages the access control list (ACL) policy configuration.

### Top-level container

```
module: extreme-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
```



## extreme-arp

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

### Top-level container

```

module: extreme-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
  
```

## extreme-beacon

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

### Top-level container

```
module: extreme-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
```

## extreme-bridge-domain

Provides a data module to manage the bridge domain.

### Top-level container

```

module: extreme-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?  lmqt-type
      | | | +--rw igmp-snooping:igmps-query-interval?  qi-type
      | | | +--rw igmp-snooping:igmps-query-max-response-time?  qmrt-type
      | | | +--rw igmp-snooping:igmps-enable?        empty
      | | | +--rw igmp-snooping:igmps-fast-leave?    empty
      | | | +--rw igmp-snooping:igmps-querier
      | | | | +--rw igmp-snooping:igmps-qenable?    empty
      | | | +--rw igmp-snooping:igmps_mrouter
      | | | | +--rw igmp-snooping:igmps-interface* [igmps-if-type igmps-value]
      | | | | | +--rw igmp-snooping:igmps-if-type  enumeration
      | | | | | +--rw igmp-snooping:igmps-value   string-type
      | | | +--rw igmp-snooping:igmps_static-group* [igmps-mcast-address igmps-
interface igmps-if-type igmps-value]
      | | | | +--rw igmp-snooping:igmps-mcast-address  inet:ipv4-address
      | | | | +--rw igmp-snooping:igmps-interface      enumeration
      | | | | +--rw igmp-snooping:igmps-if-type        enumeration
      | | | | +--rw igmp-snooping:igmps-value          string-type
    +--rw mac-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

```

## extreme-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: extreme-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: extreme-common-def
  +--rw no
  | +--rw certutil:certutil
  +--rw show
  | +--rw certutil:cert-util
  
```

## extreme-chassis

Provides a data model for enabling and disabling the chassis.

### Top-level container

```

module: extreme-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: extreme-chassis
  +--rw chassis
  +--ro enable

```

Disable the chassis:

```

module: extreme-chassis
  +--rw chassis
  +--ro disable

```

Enable the chassis beacon:

```

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

```

Disable the chassis beacon:

```

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

```

Set the airflow direction to port-side-intake:

```

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

```

Set the airflow direction to port-side-exhaust:

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

## extreme-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: extreme-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: extreme-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
```

## extreme-common-def

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

### Top-level container

```

module: extreme-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 extreme-license:license
| | +---x extreme-license:id
| | | +--ro extreme-license:output
| | | | +--ro extreme-license:licenseid-list*
| | | | +--ro extreme-license:license-id? string
| +--rw extreme-license:enh-show-license-keys
| | +---x extreme-license:license
| | | +---w extreme-license:input
| | | | +---w (single-or-all)?
| | | | | +---:(eula)
| | | | | +---w extreme-license:eula? empty
| | | +--ro extreme-license:output
| | | | +--ro extreme-license:license-list*
| | | | +--ro extreme-license:license-details*
| | | | +--ro extreme-license:license-data? string
| | | | +--ro extreme-license:license-expiry-date? string
| | | | +--ro extreme-license:license-feature-name? string
| | | | +--ro extreme-license:license-capacity? string
| | | | +--ro extreme-license:license-consumed? string
| | | | +--ro extreme-license:license-valid-state? string
| | | | +--ro extreme-license:license-vendor-info? string
| | | | +--ro extreme-license:license-eula-date? string
| | +---x extreme-license:dpod
| | | +--ro extreme-license:output
| | | | +--ro extreme-license:showdpod-list*
| | | | +--ro extreme-license:dpod-details*
| | | | +--ro extreme-license:dpod-ports? uint32
| | | | +--ro extreme-license:dpod-licenses-installed? uint32
| | | | +--ro extreme-license:num-ports-provisioned? uint32
| | | | +--ro extreme-license:num-ports-reserved? uint32
| | | | +--ro extreme-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:mminfor
| | +---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:wwn-type
| | | | +--ro name-server:nameserver-nodename? common-def:wwn-type
| | | | +--ro name-server:nameserver-scr? uint32
| | | | +--ro name-server:nameserver-fc4s? nameserver-fc4s-type
| | | | +--ro name-server:nameserver-portsymb? nameserver-symbolic-
name-type
| | | | +--ro name-server:nameserver-nodesymb? nameserver-symbolic-
name-type
| | | | +--ro name-server:nameserver-fabric-portname? common-def:wwn-type
| | | | +--ro name-server:nameserver-permanent-portname? common-def:wwn-type
| | | | +--ro name-server:nameserver-devicetype? nameserver-

```

devicetype-type		+--ro name-server:nameserver-index?	uint32
		+--ro name-server:nameserver-porttype?	nameserver-porttype-
type		+--ro name-server:nameserver-cos?	nameserver-cos-type
		+--ro name-server:nameserver-sharearea?	nameserver-sharearea-
type		+--ro name-server:nameserver-redirect?	nameserver-redirect-
type		+--ro name-server:nameserver-xlatedomain?	nameserver-
xlatedomain-type		+--ro name-server:nameserver-connected-via-ag?	nameserver-connected-
via-ag-type		+--ro name-server:nameserver-ag-base-device?	nameserver-ag-base-
device-type		+--ro name-server:nameserver-real?	nameserver-real-type
		+--ro name-server:nameserver-cascaded?	nameserver-cascaded-
type		++++x name-server:nodefind	
		+---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:extreme-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
| | +--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-peergroup
| | | | |   |   +--rw bgp:peer-group-name?                empty
| | | | |   |   +--rw bgp:remote-as?                      bgp-remote-as
| | | | |   +--rw bgp:update-source
| | | | |   |   +--rw (ch-update-source)?
| | | | |   |   |   +---:(ca-ipv4)
| | | | |   |   |   |   +--rw bgp:sip-ipv4-address?    sip-ipv4-address
| | | | |   |   |   |   +---:(ca-eth)
| | | | |   |   |   |   |   +--rw bgp:ethernet-interface
| | | | |   |   |   |   |   |   +--rw bgp:interface-type?  enumeration
| | | | |   |   |   |   |   |   +--rw bgp:interface-name?  update-source-ethernet-
type
| | | | |   |   |   |   |   |   +---:(ca-loopback)
| | | | |   |   |   |   |   |   |   +--rw bgp:loopback?    loopback-interface
| | | | |   |   |   |   |   |   |   +---:(ca-ve)
| | | | |   |   |   |   |   |   |   |   +--rw bgp:ve-interface?    interface:ve-type
| | | | |   +--rw bgp:description?    neighbor-description
| | | | +--rw bgp:local-as
| | | | |   +--rw bgp:local-as-value?    local-as-num
| | | | |   +--rw bgp:no-prepend?        empty
| | | | +--rw bgp:next-hop-self
| | | | |   +--rw (ch-next-hop-self-type)?
| | | | |   |   +---:(ca-next-hop-self-always)
| | | | |   |   |   +--rw bgp:next-hop-self-always?    empty
| | | | |   |   +---:(ca-next-hop-self-status)
| | | | |   |   |   +--rw bgp:next-hop-self-status?    empty
| | | | +--rw bgp:advertisement-interval
| | | | |   +--rw bgp:value?    adv-value

```

				+++rw bgp:ebgp-btsh?	empty
				+++rw bgp:ebgp-multihop	
				+++rw (ch-ebgp-multihop-type)?	
				+++:(ca-ebgp-multihop-flag)	
				+++rw bgp:ebgp-multihop-flag?	empty
				+++:(ca-ebgp-multihop-count)	
				+++rw bgp:ebgp-multihop-count?	uint32
				+++rw bgp:password?	bgp-password
				+++rw bgp:enforce-first-as	
				+++rw bgp:nei-enforce-first-as?	empty
				+++rw bgp:nei-enforce-first-as-disable?	empty
				+++rw bgp:timers	
				+++rw bgp:nei-keep-alive?	nei-keep-alive
				+++rw bgp:nei-hold-time?	nei-hold-time
				+++rw bgp:remove-private-as?	empty
				+++rw bgp:as-override?	empty
				+++rw bgp:soft-reconfiguration	
				+++rw bgp:inbound?	empty
				+++rw bgp:static-network-edge?	empty
				+++rw bgp:bfd	
				+++rw bgp:bfd-enable?	empty
				+++rw bgp:holdover-interval?	bfd:bfd-holdover-interval
				+++rw bgp:interval	
				+++rw bgp:min-tx?	bfd-tx-interval-type
				+++rw bgp:min-rx?	bfd-rx-interval-type
				+++rw bgp:multiplier?	bfd-multiplier-type
				+++rw bgp:maxas-limit	
				+++rw bgp:in	
				+++rw (ch-maxas-limit)?	
				+++:(ca-maxas-limit-enable)	
				+++rw bgp:num-as-in-as-path?	num-as-in-as-path
				+++:(ca-maxas-limit-disable)	
				+++rw bgp:maxas-limit-disable?	empty
				+++rw bgp:af-neighbor-capability	
				+++rw bgp:as4	
				+++rw bgp:neighbor-as4-enable?	empty
				+++rw bgp:neighbor-as4-disable?	empty
				+++rw bgp:shutdown	
				+++rw bgp:shutdown-status?	empty
				+++rw bgp:generate-rib-out?	empty
				+++rw bgp:neighbor-ipv6s	
				+++rw bgp:neighbor-ipv6-addr* [router-bgp-neighbor-ipv6-address]	
				+++rw bgp:router-bgp-neighbor-ipv6-address	inet:ipv6-address
				+++rw bgp:remote-as?	bgp-remote-as
				+++rw bgp:associate-peer-group?	bgp-peergroup
				+++rw bgp:update-source	
				+++rw (ch-update-source)?	
				+++:(ca-ipv6)	
				+++rw bgp:sip-ipv6-address?	sip-ipv6-address
				+++:(ca-eth)	
				+++rw bgp:ethernet-interface	
				+++rw bgp:interface-type?	enumeration
				+++rw bgp:interface-name?	update-source-ethernet-
type				+++:(ca-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: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:network-route-map? rmap-type
| | | | | +--rw bgp:neighbor
| | | | | | +--rw bgp:af-ipv4-neighbor-peergroup-holder
| | | | | | | +--rw bgp:af-ipv4-neighbor-peergroup* [af-ipv4-neighbor-
peergroup-name]
| | | | | | | +--rw bgp:af-ipv4-neighbor-peergroup-name bgp-
peergroup
| | | | | | | +--rw bgp:send-community
| | | | | | | | +--rw bgp:send-community-status? empty
| | | | | | | | +--rw bgp:both? empty
| | | | | | | | +--rw bgp:extended? empty
| | | | | | | | +--rw bgp:standard? empty
| | | | | | +--rw bgp:af-neighbor-capability
| | | | | | | +--rw bgp:orf

```





					+--rw bgp:maximum-paths	
					+--rw bgp:load-sharing-value?	uint32
					+--rw bgp:ebgp?	ebgp-paths
					+--rw bgp:ibgp?	ibgp-paths
					+--rw bgp:use-load-sharing?	empty
					+--rw bgp:multipath	
					+--rw bgp:multipath_ebgp?	empty
					+--rw bgp:multipath_ibgp?	empty
					+--rw bgp:multi-as?	empty
					+--rw bgp:always-propagate?	empty
					+--rw bgp:default-information-originate?	empty
					+--rw bgp:rib-route-limit?	rib-route-number
					+--rw bgp:client-to-client-reflection?	empty
					+--rw bgp:dampening	
					+--rw (ch-dampening-source)?	
					+--:(ca-dampening-flag)	
					+--rw bgp:dampening-flag?	empty
					+--:(ca-dampening-specify-values)	
					+--rw bgp:values	
					+--rw bgp:half-time?	htime
					+--rw bgp:reuse-value?	damp-reuse-value
					+--rw bgp:start-suppress-time?	damp-start-
					+--rw bgp:max-suppress-time?	damp-max-suppress-
					+--:(ca-dampening-route-map)	
					+--rw bgp:dampening-route-map?	rmap-type
					+--rw bgp:default-metric?	default-metric-
					+--rw bgp:next-hop-enable-default?	empty
					+--rw bgp:table-map	
					+--rw bgp:table-map-route-map?	rmap-type
					+--rw bgp:update-time?	update-time-type
					+--rw bgp:graceful-restart	
					+--rw bgp:graceful-restart-status?	empty
					+--rw bgp:restart-time?	rtime-type
					+--rw bgp:purge-time?	ptime-type
					+--rw bgp:stale-routes-time?	st-time-type
					+--rw bgp:next-hop-recursion?	empty
					+--rw bgp:next-hop-mppls!	
					+--rw (ch-compare-lsp-follow-igp)?	
					+--:(ca-compare-lsp-metric)	
					+--rw bgp:compare-lsp-metric?	empty
					+--:(ca-follow-igp)	
					+--rw bgp:follow-igp?	empty
					+--rw bgp:af-vrf* [af-vrf-name]	
					+--rw bgp:af-vrf-name	string
					+--rw bgp:local-as?	local-as-
					+--rw bgp:maxas-limit	
					+--rw bgp:in	
					+--rw bgp:num-as-in-path?	num-as-in-path
					+--rw bgp:next-hop-recursion?	empty
					+--rw bgp:graceful-restart-status?	empty
					+--rw bgp:af-ipv4-uc-and-vrf-cmds-call-point-holder	
					+--rw bgp:bgp- redistribute-internal?	empty
					+--rw bgp: redistribute	
					+--rw bgp: bgp	
					+--rw bgp: redistribute- bgp?	empty
					+--rw bgp: bgp- metric?	conn- metric
					+--rw bgp: bgp- route- map?	rmap- type
					+--rw bgp: connected	
					+--rw bgp: redistribute- connected?	empty
					+--rw bgp: unicast- metric?	conn- metric



```

| | | | | +---rw bgp:redistribute-route-map?  rmap-type
| | | | | +---rw bgp:ospf
| | | | | +---rw bgp:redistribute-ospf?  empty
| | | | | +---rw bgp:match
| | | | | | +---rw bgp:ospf-internal?  empty
| | | | | | +---rw bgp:ospf-external1?  empty
| | | | | | +---rw bgp:ospf-external2?  empty
| | | | | +---rw bgp:ospf-metric?  conn-metric
| | | | | +---rw bgp:ospf-route-map?  rmap-type
| | | | | +---rw bgp: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: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
filter-name					+--rw bgp:filter-list-direction-in-acl-name? ip-
empty					+--rw bgp:filter-list-name-direction-in?
					+--rw bgp:direction-out
filter-name					+--rw bgp:filter-list-direction-out-acl-name? ip-
empty					+--rw bgp:filter-list-name-direction-out?
					+--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
nei-prefix-list-filter					+--rw bgp:prefix-list-direction-in-prefix-name?
empty					+--rw bgp:prefix-list-direction-in?
					+--rw bgp:direction-out
nei-prefix-list-filter					+--rw bgp:prefix-list-direction-out-prefix-name?
empty					+--rw bgp:prefix-list-direction-out?
					+--rw bgp:neighbor-route-map
					+--rw bgp:neighbor-route-map-direction-in
common-def:name-string64					+--rw bgp:neighbor-route-map-name-direction-in?
					+--rw bgp:neighbor-route-map-direction-out
common-def:name-string64					+--rw bgp:neighbor-route-map-name-direction-out?
					+--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:adddpath-disable? empty
					+--rw bgp:adddpath-txrx
					+--rw bgp:adddpath-send? empty
					+--rw bgp:adddpath-receive? empty
					+--rw bgp:adddpath-advertise
					+--rw bgp:adddpath-adv-best? uint8
					+--rw bgp:adddpath-adv-groupbest? empty
					+--rw bgp:adddpath-adv-all? empty
					+--rw bgp:associate-peer-group? bgp-peergroup
description					+--rw bgp:description? neighbor-
					+--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)	
as-path					+++rw bgp:num-as-in-as-path?	num-as-in-
					+++:(ca-maxas-limit-disable)	
					+++rw bgp:maxas-limit-disable?	empty
					+++rw bgp:update-source	
					+++rw (ch-update-source)?	
					+++:(ca-ipv4)	
					+++rw bgp:sip-ipv4-address?	sip-ipv4-address
					+++:(ca-eth)	
					+++rw bgp:ethernet-interface	
					+++rw bgp:interface-type?	enumeration
					+++rw bgp:interface-name?	update-source-
ethernet-type					+++:(ca-loopback)	
					+++rw bgp:loopback?	loopback-
interface					+++:(ca-ve)	
					+++rw bgp:ve-interface?	interface:ve-
type					+++rw bgp:send-community	
					+++rw bgp:send-community-status?	empty
					+++rw bgp:both?	empty
					+++rw bgp:extended?	empty
					+++rw bgp:standard?	empty
					+++rw bgp:activate?	empty
					+++rw bgp:maximum-paths	
					+++rw bgp:load-sharing-value?	uint32
					+++rw bgp:ebgp?	ebgp-paths
					+++rw bgp:ibgp?	ibgp-paths
					+++rw bgp:use-load-sharing?	empty
					+++rw bgp:multipath	

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

```

```

| | | | | +--rw bgp:table-map-route-map? rmap-type
| | | | | +--rw bgp:update-time? update-time-type
| | | | | +--rw bgp:graceful-restart
| | | | | +--rw bgp:graceful-restart-status? empty
| | | | | +--rw bgp:restart-time? rtime-type
| | | | | +--rw bgp:purge-time? ptime-type
| | | | | +--rw bgp:stale-routes-time? st-time-type
| | | | | +--rw bgp:ipv6-ucast-next-hop-recursion? empty
+--rw bgp:af-ipv6-vrf* [af-ipv6-vrf-name]
| | | | | +--rw bgp:af-ipv6-vrf-name string
| | | | | +--rw bgp:next-hop-recursion? empty
| | | | | +--rw bgp:graceful-restart-status? empty
+--rw bgp:af-ipv6-uc-and-vrf-cmds-call-point-holder
| | | | | +--rw bgp:bgp- redistribute-internal? empty
| | | | | +--rw bgp: redistribute
| | | | | | +--rw bgp: bgp
| | | | | | | +--rw bgp: redistribute-bgp? empty
| | | | | | | +--rw bgp: bgp-metric? conn-metric
| | | | | | | +--rw bgp: bgp-route-map? rmap-type
| | | | | | +--rw bgp: connected
| | | | | | | +--rw bgp: redistribute-connected? empty
| | | | | | | +--rw bgp: unicast-metric? conn-metric
| | | | | | | +--rw bgp: redistribute-route-map? rmap-type
| | | | | | +--rw bgp: ospf
| | | | | | | +--rw bgp: redistribute-ospf? empty
| | | | | | | +--rw bgp: match
| | | | | | | | +--rw bgp: ospf-internal? empty
| | | | | | | | +--rw bgp: ospf-external1? empty
| | | | | | | | +--rw bgp: ospf-external2? empty
| | | | | | | +--rw bgp: ospf-metric? conn-metric
| | | | | | | +--rw bgp: ospf-route-map? rmap-type
| | | | | +--rw bgp: 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: aggregate-ipv6-address* [aggregate-ip-prefix]
| | | | | +--rw bgp: aggregate-ip-prefix inet:ipv6-prefix
| | | | | +--rw bgp: advertise-map? advertise-map
| | | | | +--rw bgp: as-set? empty
| | | | | +--rw bgp: attribute-map? attribute-map
| | | | | +--rw bgp: summary-only? empty
| | | | | +--rw bgp: suppress-map? suppress-map
+--rw bgp: network* [network-ipv6-address]
| | | | | +--rw bgp: network-ipv6-address inet:ipv6-prefix

```



				+--rw bgp:network-weight?	absolute-decimal-number
				+--rw bgp:backdoor?	empty
				+--rw bgp:network-route-map?	rmap-type
			+--rw bgp:neighbor		
				+--rw bgp:af-ipv6-vrf-neighbor-address-holder	
				+--rw bgp:af-ipv6-neighbor-addr* [af-ipv6-neighbor-address]	
				+--rw bgp:af-ipv6-neighbor-address	inet:ipv6-address
				+--rw bgp:remote-as?	bgp-remote-as
				+--rw bgp:shutdown	
				+--rw bgp:shutdown-status?	empty
				+--rw bgp:generate-rib-out?	empty
				+--rw bgp:af-vrf-neighbor-capability	
				+--rw bgp:as4	
				+--rw bgp:neighbor-as4-enable?	empty
				+--rw bgp:neighbor-as4-disable?	empty
				+--rw bgp:orf	
				+--rw bgp:prefixlist	
				+--rw bgp:prefixlist-status?	empty
				+--rw bgp:prefixlist-send?	empty
				+--rw bgp:prefixlist-receive?	empty
				+--rw bgp:allowas-in?	uint32
				+--rw bgp:filter-list	
				+--rw bgp:direction-in	
				+--rw bgp:filter-list-direction-in-acl-name?	ip-
filter-name				+--rw bgp:filter-list-name-direction-in?	
empty				+--rw bgp:direction-out	
				+--rw bgp:filter-list-direction-out-acl-name?	ip-
filter-name				+--rw bgp:filter-list-name-direction-out?	
empty				+--rw bgp:maximum-prefix	
				+--rw bgp:max-prefix-limit?	max-prefix-limit
				+--rw bgp:threshold-holder	
				+--rw bgp:threshold?	max-prefix-threshold
				+--rw bgp:teardown?	empty
				+--rw bgp:default-originate	
				+--rw bgp:default-originate-status?	empty
				+--rw bgp:prefix-list	
				+--rw bgp:direction-in	
				+--rw bgp:prefix-list-direction-in-prefix-name?	
nei-prefix-list-filter				+--rw bgp:prefix-list-direction-in?	
empty				+--rw bgp:direction-out	
				+--rw bgp:prefix-list-direction-out-prefix-name?	
nei-prefix-list-filter				+--rw bgp:prefix-list-direction-out?	
empty				+--rw bgp:neighbor-route-map	
				+--rw bgp:neighbor-route-map-direction-in	
				+--rw bgp:neighbor-route-map-name-direction-in?	
common-def:name-string64				+--rw bgp:neighbor-route-map-direction-out	
				+--rw bgp:neighbor-route-map-name-direction-out?	
common-def:name-string64				+--rw bgp:route-reflector-client?	empty
				+--rw bgp:unsuppress-map	
				+--rw bgp:map-name?	rmap-type
				+--rw bgp:af-nei-weight?	nei-weight
				+--rw bgp: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: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)	
interface						+++rw bgp:loopback?	loopback-
type						+++:(ca-ve)	
						+++rw bgp:ve-interface?	interface:ve-
						+++rw bgp:send-community	
						+++rw bgp:send-community-status?	empty
						+++rw bgp:both?	empty
						+++rw bgp:extended?	empty
						+++rw bgp:standard?	empty
						+++rw bgp:activate?	empty
						+++rw bgp:maximum-paths	
						+++rw bgp:load-sharing-value?	uint32
						+++rw bgp:ebgp?	ebgp-paths
						+++rw bgp:ibgp?	ibgp-paths
						+++rw bgp:use-load-sharing?	empty
						+++rw bgp:multipath	
						+++rw bgp:multipath_ebgp?	empty
						+++rw bgp:multipath_ibgp?	empty
						+++rw bgp:multi-as?	empty
						+++rw bgp:always-propagate?	empty
						+++rw bgp:default-information-originate?	empty
						+++rw bgp:rib-route-limit?	rib-route-
number						+++rw bgp:client-to-client-reflection?	empty
						+++rw bgp:dampening	
						+++rw (ch-dampening-source)?	
						+++:(ca-dampening-flag)	
						+++rw bgp:dampening-flag?	empty
						+++:(ca-dampening-specify-values)	
						+++rw bgp:values	
						+++rw bgp:half-time?	htime
						+++rw bgp:reuse-value?	damp-reuse-value
						+++rw bgp:start-suppress-time?	damp-start-suppress-
value						+++rw bgp:max-suppress-time?	damp-max-suppress-
value						+++:(ca-dampening-route-map)	
						+++rw bgp:dampening-route-map?	rmap-type
						+++rw bgp:default-metric?	default-
metric-number						+++rw bgp:next-hop-enable-default?	empty
						+++rw bgp:table-map	
						+++rw bgp:table-map-route-map?	rmap-type
						+++rw bgp:update-time?	update-
time-type						+++rw bgp:l2vpn	
						+++rw bgp:evpn!	
						+++rw bgp:suppress	
						+++rw bgp:ipv4	
						+++rw bgp:host-route?	empty
						+++rw bgp:client-to-client-reflection?	empty
						+++rw bgp:graceful-restart	
						+++rw bgp:graceful-restart-status?	empty
						+++rw bgp:restart-time?	rtime-type
						+++rw bgp:purge-time?	ptime-type
						+++rw bgp:stale-routes-time?	st-time-type
						+++rw bgp:retain	
						+++rw bgp:route-target	
						+++rw bgp:all?	empty
						+++rw bgp:vtep-discovery?	empty
						+++rw bgp:neighbor	

```

| | | | +--rw bgp:evpn-peer-group* [evpn-neighbor-peergroup-name]
| | | | | +--rw bgp:evpn-neighbor-peergroup-name    bgp-peergroup
| | | | | +--rw bgp:encapsulation?                  encapsulation-t
| | | | | +--rw bgp:maximum-prefix?                max-prefix-limit
| | | | | +--rw bgp:route-reflector-client?        empty
| | | | | +--rw bgp:allowas-in?                    uint32
| | | | | +--rw bgp:next-hop-unchanged?           empty
| | | | | +--rw bgp:enable-peer-as-check?         empty
| | | | | +--rw bgp:route-map
| | | | | | +--rw bgp:direction-in
| | | | | | | +--rw bgp:route-map-name-direction-in?  common-def:name-
string64
| | | | | | | +--rw bgp:direction-out
| | | | | | | +--rw bgp:route-map-name-direction-out?  common-
def:name-string64
| | | | | +--rw bgp:activate?                      empty
| | | | | +--rw bgp:send-community
| | | | | | +--rw bgp:send-community-status?        empty
| | | | | | +--rw bgp:both?                        empty
| | | | | | +--rw bgp:extended?                    empty
| | | | | | +--rw bgp:standard?                    empty
| | | | | +--rw bgp:evpn-neighbor-ipv4* [evpn-neighbor-ipv4-address]
| | | | | | +--rw bgp:evpn-neighbor-ipv4-address    inet:ipv4-address
| | | | | | +--rw bgp:encapsulation?              encapsulation-t
| | | | | | +--rw bgp:maximum-prefix?              max-prefix-limit
| | | | | | +--rw bgp:route-reflector-client?      empty
| | | | | | +--rw bgp:allowas-in?                  uint32
| | | | | | +--rw bgp:next-hop-unchanged?         empty
| | | | | | +--rw bgp:enable-peer-as-check?       empty
| | | | | | +--rw bgp:route-map
| | | | | | | +--rw bgp:direction-in
| | | | | | | | +--rw bgp:route-map-name-direction-in?  common-def:name-
string64
| | | | | | | | +--rw bgp:direction-out
| | | | | | | | +--rw bgp:route-map-name-direction-out?  common-
def:name-string64
| | | | | | +--rw bgp:activate?                    empty
| | | | | | +--rw bgp:send-community
| | | | | | | +--rw bgp:send-community-status?      empty
| | | | | | | +--rw bgp:both?                      empty
| | | | | | | +--rw bgp:extended?                  empty
| | | | | | | +--rw bgp:standard?                  empty
| | | | | +--rw bgp:evpn-neighbor-ipv6* [evpn-neighbor-ipv6-address]
| | | | | | +--rw bgp:evpn-neighbor-ipv6-address    inet:ipv6-address
| | | | | | +--rw bgp:encapsulation?              encapsulation-t
| | | | | | +--rw bgp:maximum-prefix?              max-prefix-limit
| | | | | | +--rw bgp:route-reflector-client?      empty
| | | | | | +--rw bgp:allowas-in?                  uint32
| | | | | | +--rw bgp:next-hop-unchanged?         empty
| | | | | | +--rw bgp:enable-peer-as-check?       empty
| | | | | | +--rw bgp:route-map
| | | | | | | +--rw bgp:direction-in
| | | | | | | | +--rw bgp:route-map-name-direction-in?  common-def:name-
string64
| | | | | | | | +--rw bgp:direction-out
| | | | | | | | +--rw bgp:route-map-name-direction-out?  common-
def:name-string64
| | | | | | +--rw bgp:activate?                    empty
| | | | | | +--rw bgp:send-community
| | | | | | | +--rw bgp:send-community-status?      empty
| | | | | | | +--rw bgp:both?                      empty
| | | | | | | +--rw bgp:extended?                  empty
| | | | | | | +--rw bgp:standard?                  empty
| | | | | +--rw bgp:vpnv4

```

```

| | | | +--rw bgp:vpn4-unicast!
| | | | +--rw bgp:rr-group? rr-group-type
| | | | +--rw bgp:export-vrf-leaked-routes? empty
| | | | +--rw bgp:af-vpn-neighbor-peer-group-holder
| | | | | +--rw bgp:af-vpn-neighbor-peer-group* [af-vpn-neighbor-peer-group-
address]
| | | | | +--rw bgp:af-vpn-neighbor-peer-group-address bgp-peer-group
| | | | | +--rw bgp:af-neighbor-capability
| | | | | | +--rw bgp:orf
| | | | | | +--rw bgp:prefix-list
| | | | | | | +--rw bgp:prefixlist-status? empty
| | | | | | | +--rw bgp:prefixlist-send? empty
| | | | | | | +--rw bgp:prefixlist-receive? empty
| | | | | | +--rw bgp:extended-community
| | | | | | | +--rw bgp:ext-community-receive? empty
| | | | | | | +--rw bgp:ext-community-send-vrf? empty
| | | | | +--rw bgp:send-community
| | | | | | +--rw bgp:send-community-status? empty
| | | | | | +--rw bgp:both? empty
| | | | | | +--rw bgp:extended? empty
| | | | | | +--rw bgp:standard? empty
| | | | | +--rw bgp:activate? empty
| | | | | +--rw bgp:weight? nei-weight
| | | | | +--rw bgp:route-reflector-client? 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: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: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:af-vpnv4-neighbor-address-holder
| | | | | | +--rw bgp:af-vpnv4-neighbor* [af-vpnv4-neighbor-address]
| | | | | | +--rw bgp:af-vpnv4-neighbor-address inet:ipv4-address
| | | | | | +--rw bgp:af-neighbor-capability
| | | | | | | +--rw bgp:orf
| | | | | | | +--rw bgp:prefix-list
| | | | | | | | +--rw bgp:prefixlist-status? empty
| | | | | | | | +--rw bgp:prefixlist-send? empty
| | | | | | | | +--rw bgp:prefixlist-receive? empty
| | | | | | | +--rw bgp:extended-community
| | | | | | | | +--rw bgp:ext-community-receive? empty
| | | | | | | | +--rw bgp:ext-community-send-vrf? empty
| | | | | +--rw bgp:send-community
| | | | | | +--rw bgp:send-community-status? empty
| | | | | | +--rw bgp:both? empty

```

```

| | | | +--rw bgp:extended? empty
| | | | +--rw bgp:standard? empty
| | | | +--rw bgp:activate? empty
| | | | +--rw bgp:weight? nei-weight
| | | | +--rw bgp:route-reflector-client? 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: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: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:vpnv6
| | | | | | +--rw bgp:vpnv6-unicast!
| | | | | | | +--rw bgp:rr-group? rr-group-type
| | | | | | | +--rw bgp:export-vrf-leaked-routes? empty
| | | | | | | +--rw bgp:af-vpn-neighbor-peergroup-holder
| | | | | | | | +--rw bgp:af-vpn-neighbor-peergroup* [af-vpn-neighbor-peergroup-
address]
| | | | | | | | +--rw bgp:af-vpn-neighbor-peergroup-address bgp-peergroup
| | | | | | | | +--rw bgp:af-neighbor-capability
| | | | | | | | | +--rw bgp:orf
| | | | | | | | | | +--rw bgp:prefix-list
| | | | | | | | | | | +--rw bgp:prefixlist-status? empty
| | | | | | | | | | | +--rw bgp:prefixlist-send? empty
| | | | | | | | | | | +--rw bgp:prefixlist-receive? empty
| | | | | | | | | | +--rw bgp:extended-community
| | | | | | | | | | | +--rw bgp:ext-community-receive? empty
| | | | | | | | | | | +--rw bgp:ext-community-send-vrf? empty
| | | | | | | | +--rw bgp:send-community
| | | | | | | | | +--rw bgp:send-community-status? empty
| | | | | | | | | +--rw bgp:both? empty
| | | | | | | | | +--rw bgp:extended? empty
| | | | | | | | | +--rw bgp:standard? empty
| | | | | | | | +--rw bgp:activate? empty
| | | | | | | | +--rw bgp:weight? nei-weight
| | | | | | | | +--rw bgp:route-reflector-client? 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: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: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:af-vpnv6-neighbor-address-holder
| | | | +--rw bgp:af-vpnv6-neighbor* [af-vpnv6-neighbor-address]
| | | | +--rw bgp:af-vpnv6-neighbor-address inet:ipv4-address
| | | | +--rw bgp:af-neighbor-capability
| | | | | +--rw bgp:orf
| | | | | +--rw bgp:prefix-list
| | | | | | +--rw bgp:prefixlist-status? empty
| | | | | | +--rw bgp:prefixlist-send? empty
| | | | | | +--rw bgp:prefixlist-receive? empty
| | | | | +--rw bgp:extended-community
| | | | | | +--rw bgp:ext-community-receive? empty
| | | | | | +--rw bgp:ext-community-send-vrf? empty
| | | | +--rw bgp:send-community
| | | | | +--rw bgp:send-community-status? empty
| | | | | +--rw bgp:both? empty
| | | | | +--rw bgp:extended? empty
| | | | | +--rw bgp:standard? empty
| | | | +--rw bgp:activate? empty
| | | | +--rw bgp:weight? nei-weight
| | | | +--rw bgp:route-reflector-client? 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: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: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 isis:isis!
| | | +--rw isis:router-isis-cmds-holder
| | | | +--rw isis:net* [net-cmd]

```

```

| | | +--rw isis:net-cmd net-type
| | +--rw isis:router-isis-attributes
| | | +--rw isis:auth-check
| | | | +--rw isis:auth-check-level1
| | | | | +--rw isis:auth-check-level1-disable? empty
| | | | | +--rw isis:auth-check-level2
| | | | | +--rw isis:auth-check-level2-disable? empty
| | | +--rw isis:auth-mode
| | | | +--rw isis:md5
| | | | | +--rw isis:auth-mode-md5-level1? empty
| | | | | +--rw isis:auth-mode-md5-level2? empty
| | | +--rw isis:auth-key
| | | | +--rw isis:auth-key-level1-str? string
| | | | +--rw isis:auth-key-level2-str? string
| | +--rw isis: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-ntp-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:isis!
				+++rw isis:isis-bgp-metric? conn-metric
				+++rw isis:isis-bgp-route-map? common-def:name-string63
				+++rw (ch-bgp-levels)?
				+++:(ca-bgp-level1)
				+++rw isis:isis-bgp-level1? empty
				+++:(ca-bgp-level2)
				+++rw isis:isis-bgp-level2? empty
				+++:(ca-bgp-level12)
				+++rw isis:isis-bgp-level12? empty
				+++rw isis:isis-bgp-metric-type? is-metric-type-t
				+++rw isis:isis
				+++rw isis:level-1
				+++rw isis:into
				+++rw isis:level1-into-level2
				+++rw (ch-prefix-list-level1-disable)?
				+++:(ca-prefix-list-level1)
				+++rw isis:prefix-list-
level1?		string		+++:(ca-level1-into-level2-disable)
				+++rw isis:level1-into-level2-
disable?	empty			+++rw isis:level-2
				+++rw isis:into
				+++rw isis:level2-into-level1!
				+++rw isis:prefix-list-level2? string
				+++rw isis:ipv6
				+++rw isis:af-ipv6-unicast!
				+++rw isis:af-ipv6-attributes
				+++rw isis:disable-adjacency-check? empty
				+++rw isis:summary-prefix* [summary-prefix-ipv6]
prefix				+++rw isis:summary-prefix-ipv6 common-def:ipv6-address-
				+++rw isis:summary-prefix-level1? empty
				+++rw isis:summary-prefix-level2? empty
				+++rw isis:ipv6-default-link-metric
				+++rw isis:ipv6-default-link-metric-level1? uint32
				+++rw isis:ipv6-default-link-metric-level2? uint32
				+++rw isis:multi-topology!
				+++rw isis:multi-topology-transition? empty
				+++rw isis:spf6-interval* [spf6-interval-level]
				+++rw isis:spf6-interval-level enumeration
				+++rw isis:spf6-interval-max-hold-time? uint32
				+++rw isis:spf6-interval-initial-delay? uint32
				+++rw isis:spf6-interval-hold-time? uint32
				+++rw isis:partial6-spf-interval
				+++rw isis:pspf6-max-hold-time? uint32
				+++rw isis:pspf6-init-delay? uint32
				+++rw isis:pspf6-hold-time? uint32
				+++rw isis:af-common-attributes
				+++rw isis:default-information-originate!
				+++rw isis:default-information-originate-route-map?
string				+++rw isis:default-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-
| | | | | | | | | | | +---:(ca-level1-into-level2-disable)
| | | | | | | | | | | +--rw isis:level1-into-level2-
| | | | | | | | +--rw isis:level-2
| | | | | | | | | +--rw isis:into
| | | | | | | | | | +--rw isis:level2-into-level1!
| | | | | | | | | | | +--rw isis:prefix-list-level2?  string
| | | | | +--rw ospf:ospf* [vrf]
| | | | | | +--rw ospf:vrf                    string
| | | | | | +--rw ospf:database-overflow-interval?  common-def:time-interval-sec
| | | | | | +--rw ospf:default-information-originate!
| | | | | | | +--rw ospf:always?                empty

```

```

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

```

```

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

```

```

| | | +--rw ospf:helper-disable?          empty
| | | +--rw ospf:restart-time?            common-def:time-interval-sec
| | +--rw ospf:nonstop-routing?          empty
| | +--rw ospf:maximum-paths?            uint8
| | +--rw 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        l3-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!
uint32 | | | | | +--rw ospfv3:area-default-information-originate-metric?
ospf:metric-type | | | | | +--rw ospfv3:area-default-information-originate-metric-type?
| | | | | +--rw ospfv3:no-redistribution? empty
| | | | | +--rw ospfv3:nssa-area-no-summary? empty
| | | | | +--rw ospfv3:translator-always? empty
interval-sec | | | | | +--rw ospfv3:translator-interval? common-def:time-
| | | | | +--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
string | | | | | | +--rw ospfv3:ah-key? ipsec-authentication-hexkey-
| | | | | +--:(ca-esp-algorithm)
| | | | | +--rw ospfv3:esp? algorithm-type-esp
| | | | | +--rw ospfv3:esp-auth? algorithm-type-ah
string | | | | | +--rw ospfv3:esp-auth-key? ipsec-authentication-hexkey-
| | | | | +--rw ospfv3:virtual-link* [virtual-link-neighbor]
| | | | | +--rw ospfv3:virtual-link-neighbor inet:ipv4-address
| | | | | +--rw ospfv3:link-properties
| | | | | +--rw ospfv3:link-interval-properties
sec | | | | | +--rw ospfv3:hello-interval? common-def:time-interval-
| | | | | +--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
interval-sec | | | | | +--rw ospfv3:database-overflow-interval? common-def:time-
| | | | | +--rw ospfv3:global-default-information-originate!
| | | | | +--rw ospfv3:global-default-information-originate-always? empty
| | | | | +--rw ospfv3:global-default-information-originate-metric? uint32
| | | | | +--rw ospfv3:global-default-information-originate-metric-type?
ospf:metric-type | | | | | +--rw ospfv3:default-metric? uint32
| | | | | +--rw ospfv3:default-passive-interface? empty
| | | | | +--rw ospfv3:distance* [route-type]
| | | | | | +--rw ospfv3:route-type ospf:route-type-enum
| | | | | | +--rw ospfv3:distance-value? uint32
| | | | | +--rw ospfv3:distribute-list
| | | | | | +--rw ospfv3:route-map
| | | | | | +--rw ospfv3:distribute-list-route-map-name? common-def:name-
string63 | | | | | | +--rw ospfv3:distribute-list-route-map-in? empty
| | | | | | +--rw ospfv3:prefix-list

```

```

| | | +--rw ospfv3:distribute-list-prefix-list-name? common-def:name-
string63
| | | +--rw ospfv3:distribute-list-prefix-list-in? empty
| | | +--rw ospfv3:external-lsdb-limit? uint32
| | | +--rw ospfv3:graceful-restart
| | | | +--rw ospfv3:helper
| | | | +--rw ospfv3:graceful-restart-helper-disable? empty
| | | | +--rw ospfv3:graceful-restart-helper-strict-lsa-checking? empty
| | | +--rw ospfv3:key-add-remove-interval? common-def:time-
interval-sec
| | | +--rw ospfv3:key-rollover-interval? common-def:time-
interval-sec
| | | +--rw ospfv3:log
| | | | +--rw ospfv3:log-adjacency!
| | | | | +--rw ospfv3:log-adjacency-dr-only? empty
| | | | | +--rw ospfv3:log-all? empty
| | | | | +--rw ospfv3:log-bad-packet!
| | | | | | +--rw ospfv3:log-bad-packet-checksum? empty
| | | | | +--rw ospfv3:log-database? empty
| | | | | +--rw ospfv3:log-retransmit? empty
| | | | +--rw ospfv3:global-metric-type? ospf:metric-type
| | | | +--rw ospfv3:redistribute
| | | | | +--rw ospfv3:redistribute-connected!
| | | | | | +--rw ospfv3:connected-route-map? common-def:name-
string63
| | | | | | +--rw ospfv3:redistribute-connected-metric? uint32
| | | | | | +--rw ospfv3:redistribute-connected-metric-type? ospf:metric-type
| | | | | +--rw ospfv3:redistribute-static!
| | | | | | +--rw ospfv3:static-route-map? common-def:name-
string63
| | | | | | +--rw ospfv3:redistribute-static-metric? uint32
| | | | | | +--rw ospfv3:redistribute-static-metric-type? ospf:metric-type
| | | | | +--rw ospfv3:redistribute-isis!
| | | | | | +--rw ospfv3:redistribute-isis-route-map? common-def:name-
string63
| | | | | | | +--rw (ch-isis-level)?
| | | | | | | | +--:(ca-level-1)
| | | | | | | | | +--rw ospfv3:level-1? empty
| | | | | | | | | +--:(ca-level-2)
| | | | | | | | | | +--rw ospfv3:level-2? empty
| | | | | | | | | | +--:(ca-level-1-2)
| | | | | | | | | | | +--rw ospfv3:level-1-2? empty
| | | | | | | +--rw ospfv3:redistribute-isis-metric? uint32
| | | | | | | +--rw ospfv3:redistribute-isis-metric-type? ospf:metric-type
| | | | | +--rw ospfv3:redistribute-bgp!
| | | | | | +--rw ospfv3:bgp-route-map? common-def:name-string63
| | | | | | +--rw ospfv3:redistribute-bgp-metric? uint32
| | | | | | +--rw ospfv3:redistribute-bgp-metric-type? ospf:metric-type
| | | | | +--rw ospfv3:redistribute-ospf!
| | | | | | +--rw ospfv3:ospf-route-map? common-def:name-
string63
| | | | | | +--rw ospfv3:redistribute-ospf-metric? uint32
| | | | | | +--rw ospfv3:redistribute-ospf-metric-type? ospf:metric-type
| | | | | +--rw ospfv3:summary-address* [summary-address-value]
| | | | | | +--rw ospfv3:summary-address-value common-def:ipv6-address-prefix
| | | | +--rw ospfv3:timers
| | | | | +--rw ospfv3:lsa-group-pacing? common-def:time-interval-sec
| | | | | +--rw ospfv3:spf
| | | | | | +--rw ospfv3:spf-delay? common-def:time-interval-sec
| | | | | | +--rw ospfv3:spf-hold-time? common-def:time-interval-sec
| | | | +--rw ospfv3:nonstop-routing? empty
| | | | +--rw ospfv3:maximum-paths? uint32
| | | | +--rw ospfv3:max-metric
| | | | | +--rw ospfv3:router-lsa!

```



```

| | | +--rw ospfv3:all-lsas? empty
| | | +--rw ospfv3:external-lsa!
| | | | +--rw ospfv3:external-lsa-value? uint32
| | | +--rw ospfv3:summary-lsa!
| | | | +--rw ospfv3:summary-lsa-value? uint32
| | | +--rw ospfv3:include-stub? empty
| | | +--rw ospfv3:on-startup
| | | | +--rw ospfv3:on-startup-time? uint32
| | | | +--rw ospfv3:wait-for-bgp? empty
| | +--rw 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 extreme-interface:protocol
| | +--rw vrrp:hide-vrrp-holder
| | | +--rw vrrp:vrrp? empty
| | | +--rw vrrp:vrrp-extended? empty
+--rw extreme-interface:interface
| | +--rw extreme-interface:ve* [name]
| | | +--rw extreme-interface:name ve-type
| | | +--rw extreme-interface:bfd
| | | | +--rw extreme-interface:interval
| | | | | +--rw extreme-interface:min-tx? bfd-tx-interval-type
| | | | | +--rw extreme-interface:min-rx? bfd-rx-interval-type
| | | | | +--rw extreme-interface:multipplier? bfd-multipplier-type
| | | | +--rw extreme-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 ipv6-nd-ra:expire? common-def:time-interval-sec
| | | | | | | | +--rw ipv6-nd-ra:prefix* [prefix-ipv6-address]
| | | | | | | | | +--rw ipv6-nd-ra:prefix-ipv6-address inet:ipv6-prefix
| | | | | | | | | +--rw ipv6-nd-ra:lifetime
| | | | | | | | | | +--rw (ch-valid-type)?
| | | | | | | | | | | +--:(ca-no-advertise)
| | | | | | | | | | | | +--rw ipv6-nd-ra:no-advertise? empty
| | | | | | | | | | | +--:(ca-valid-lifetime)
| | | | | | | | | | | | +--rw ipv6-nd-ra:valid-lifetime? common-def:time-
interval-sec

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```

| | |   +--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]

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| | | | +--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 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-precendence
| | +--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

```

## extreme-control-plane

---

Manages the control-plane level commands.

### Top-level container

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

## extreme-crypto

---

Configures Crypto services for HTTPS certificate management.

### Top-level container

```
module: extreme-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
```

## extreme-crypto-ext

Configures Crypto services for HTTPS certificate management.

### Top-level container

```

module: extreme-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
  
```

## extreme-dai

---

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

### Top-level container

```
module: extreme-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
```

## extreme-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 5](#).

**Table 5: 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: extreme-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
  | | | | | +--:(fibrenchannel)
  | | | | | | +---w fibrenchannel? 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

```

## extreme-dot1ag

Manages the connectivity fault management (CFM) Protocol.

### Top-level container

```

module: extreme-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? dotlag-interface-type
  +--rw mep-intf-name? dotlag-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

```

## extreme-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: extreme-dot1x
  +--rw dot1x
    +--rw enable?   empty
    +--rw test
      +--rw timeout?  dot1x-readinessstest-timeout-interval
```

### External augmentations

```
module: extreme-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
```

## extreme-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
```

## extreme-event-handler

Provides event handler-related information.

### Top-level container

```
module: extreme-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
```

## extreme-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 6: 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: extreme-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
```

## extreme-firmware-ext

Provides a data model with extensions to the extreme-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
```

## extreme-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: extreme-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

```

## extreme-hardware

Provides a data model for managing connectors.

### Top-level container

```

module: extreme-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
  
```



## extreme-http-config

Provides a data model for configuring the Hypertext Transfer Protocol (HTTP) server.

### Top-level container

```

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

Release version	History
16r1.00	This YANG module was introduced.

## extreme-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
16r1.00	This YANG module was introduced.

## extreme-igmp-snooping

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

### Top-level container

```

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

## extreme-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 7: Entities managed through extreme-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: extreme-interface
  +--rw interface
    | +--rw ethernet* [name]
    | | +--rw name                               interface-type
    | | +--rw long-distance-is1?                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:qmrt-type
| | | | | +--rw igmp:igmpl3-immediate-leave?            empty
| | | | | +--rw igmp:igmpl3-version?                      uint32
| | | | | +--rw igmp:igmpl3-static-group* [igmpl3-sg-addr]
| | | | | +--rw igmp:igmpl3-sg-addr      inet:ipv4-address
| | | +--rw isis:intf-router-isis
| | | | +--rw isis:int-router-isis
| | | | | +--rw isis:interface-ip-router-isis?  empty
| | | +--rw ospf:interface-eth-ospf-conf
| | | | +--rw ospf:ospfl
| | | | | +--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:ttl-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-iftype
| | | | | | | +--rw dhcpv6:interface-name?         dhcpv6-ifname
| | | +--rw icmp:icmpv6
| | | | +--rw icmp:rate-limiting?              uint32
| | | | +--rw icmp:redirect?                    empty
| | | +--rw ipv6-access-list:access-group* [ipv6-access-list ip-direction]
| | | | +--rw ipv6-access-list:ipv6-access-list  ipv6-l3-acl-policy-name
| | | | +--rw ipv6-access-list:ip-direction      enumeration
| | | | +--rw ipv6-access-list:traffic-type?     enumeration
| | | +--rw ip-policy:policy
| | | | +--rw ip-policy:route-map
| | | | | +--rw ip-policy:ipv6-route-map-name?    common-def:name-string63

```

```

| | | +--rw ipv6-nd-ra:ipv6-nd-ra
| | | | +--rw ipv6-nd-ra:ipv6-intf-cmds
| | | | +--rw ipv6-nd-ra:vrrp-suppress-interface-ra? empty
| | | | +--rw ipv6-nd-ra:nd
| | | | | +--rw ipv6-nd-ra:managed-config-flag? empty
| | | | | +--rw ipv6-nd-ra:other-config-flag? empty
| | | | | +--rw ipv6-nd-ra:broadcast-mac-trap? empty
| | | | | +--rw ipv6-nd-ra:ra-lifetime? common-def:time-interval-sec
| | | | | +--rw ipv6-nd-ra:reachable-time? common-def:time-interval-msec
| | | | | +--rw ipv6-nd-ra:mtu? uint32
| | | | | +--rw ipv6-nd-ra:retrans-timer? common-def:time-interval-msec
| | | | | +--rw ipv6-nd-ra:hoplimit? uint32
| | | | | +--rw ipv6-nd-ra:ns-interval? common-def:time-interval-sec
| | | | | +--rw ipv6-nd-ra:suppress-ra
| | | | | | +--rw ipv6-nd-ra:suppress-ra-flag? empty
| | | | | | +--rw ipv6-nd-ra:suppress-ra-mtu? empty
| | | | | | +--rw ipv6-nd-ra:suppress-ra-all? empty
| | | | | +--rw ipv6-nd-ra:ra-interval
| | | | | | +--rw ipv6-nd-ra:max-interval? common-def:time-interval-sec
| | | | | | +--rw ipv6-nd-ra:min? common-def:time-interval-sec
| | | | | +--rw ipv6-nd-ra:send-ra? empty
| | | | | +--rw ipv6-nd-ra:router-preference
| | | | | | +--rw ipv6-nd-ra:router-pref-high? empty
| | | | | | +--rw ipv6-nd-ra:router-pref-low? empty
| | | | | | +--rw ipv6-nd-ra:router-pref-medium? empty
| | | | | +--rw ipv6-nd-ra:ra-dns-server* [dns-server-prefix]
| | | | | | +--rw ipv6-nd-ra:dns-server-prefix inet:ipv6-
address
| | | | | | +--rw ipv6-nd-ra:dns-server-lifetime-multiplier? uint32
| | | | | | +--rw ipv6-nd-ra:ra-domain-name* [domain-name-string]
| | | | | | | +--rw ipv6-nd-ra:domain-name-string string
| | | | | | | +--rw ipv6-nd-ra:domain-name-lifetime-multiplier? uint32
| | | | | | +--rw ipv6-nd-ra:address
| | | | | | | +--rw ipv6-nd-ra:suppressing-address* [suppress-ipv6-address]
| | | | | | | | +--rw ipv6-nd-ra:suppress-ipv6-address 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 ipv6-nd-ra:expire? common-def:time-interval-sec
| | | | | | +--rw ipv6-nd-ra:prefix* [prefix-ipv6-address]
| | | | | | | +--rw ipv6-nd-ra:prefix-ipv6-address inet:ipv6-prefix
| | | | | | | +--rw ipv6-nd-ra:lifetime
| | | | | | | | +--rw (ch-valid-type)?
| | | | | | | | | +--:(ca-no-advertise)
| | | | | | | | | | +--rw ipv6-nd-ra:no-advertise? empty
| | | | | | | | | +--:(ca-valid-lifetime)
| | | | | | | | | | +--rw ipv6-nd-ra:valid-lifetime? common-def:time-
interval-sec
| | | | | | | | | | +--:(ca-valid-infinite)
| | | | | | | | | | | +--rw ipv6-nd-ra:valid-infinite? empty
| | | | | | | +--rw ipv6-nd-ra:preferred
| | | | | | | | +--rw (ch-preferred-type)?
| | | | | | | | | +--:(ca-preferred-lifetime)
| | | | | | | | | | +--rw ipv6-nd-ra:preferred-lifetime? common-
def:time-interval-sec
| | | | | | | | | | +--:(ca-preferred-infinite)
| | | | | | | | | | | +--rw ipv6-nd-ra:preferred-infinite? empty
| | | | | | | +--rw ipv6-nd-ra:prefix-flags
| | | | | | | | +--rw ipv6-nd-ra:no-autoconfig? empty
| | | | | | | +--rw ipv6-nd-ra:no-onlink? empty

```



```
| | | | | +--rw ipv6-nd-ra:off-link? empty
| | | | +--rw ipv6-nd-ra:neighbor* [ipv6-address]
| | | | | +--rw ipv6-nd-ra:ipv6-address neighbor-ipv6-address
| | | | | +--rw ipv6-nd-ra:hardware-address? macAddr
| | | | +--rw isis:intf-ipv6-router-isis
| | | | | +--rw isis:int-ipv6-router-isis
| | | | | +--rw isis:interface-ipv6-router-isis? empty
| | | | +--rw ospfv3:interface-ospfv3-conf
| | | | | +--rw ospfv3:interface-area? ospf:ospf-area-id
| | | | | +--rw ospfv3:active? empty
| | | | | +--rw ospfv3:passive? empty
| | | | | +--rw ospfv3: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 vrrpv3:vrrpv3-group* [vrid]
| | | | | +--rw vrrpv3:vrid vrid-type
| | | | | +--rw vrrpv3:use-v2-checksum? empty
| | | | | +--rw vrrpv3:virtual-ip* [virtual-ipaddr]
| | | | | | +--rw vrrpv3:virtual-ipaddr inet:ipv6-address
| | | | | +--rw vrrpv3:track
| | | | | | +--rw vrrpv3:interface* [interface-type interface-name]
| | | | | | | +--rw vrrpv3:interface-type track-iftype
| | | | | | | +--rw vrrpv3:interface-name track-ifname
| | | | | | | +--rw vrrpv3:track-priority? uint8
| | | | | +--rw vrrpv3:advertisement-interval? uint32
| | | | | +--rw vrrpv3:enable? empty
| | | | | +--rw vrrpv3:hold-time? uint32
| | | | | +--rw vrrpv3:preempt-mode? empty
| | | | | +--rw vrrpv3:priority? uint8
| | | | | +--rw vrrpv3:description? string
| | | | +--rw vrrpv3:vrrpv3e-group* [vrid]
| | | | | +--rw vrrpv3:vrid vrrpe-vrid-type
| | | | | +--rw vrrpv3:virtual-ip* [virtual-ipaddr]
| | | | | | +--rw vrrpv3:virtual-ipaddr inet:ipv6-address
| | | | | +--rw vrrpv3:track
| | | | | | +--rw vrrpv3:interface* [interface-type interface-name]
| | | | | | | +--rw vrrpv3:interface-type track-iftype
| | | | | | | +--rw vrrpv3:interface-name track-ifname
| | | | | | | +--rw vrrpv3:track-priority? uint8
| | | | | +--rw vrrpv3:enable? empty
| | | | | +--rw vrrpv3:hold-time? uint32
| | | | | +--rw vrrpv3:preempt-mode? empty
| | | | | +--rw vrrpv3:priority? uint8
| | | | | +--rw vrrpv3:description? string
| | | | | +--rw vrrpv3:advertise-backup? empty
| | | | | +--rw vrrpv3:nd-advertisement-timer? uint32
| | | | | +--rw vrrpv3:advertisement-interval-scale? uint32
| | | | | +--rw vrrpv3:backup-advertisement-interval? uint32
| | | | | +--rw vrrpv3:vrrpe-advertisement-interval? uint32
| | | | | +--rw vrrpv3:short-path-forwarding
| | | | | | +--rw vrrpv3:basic? empty
| | | | | | +--rw vrrpv3:revert-priority? uint8
| | | | +--rw 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
| | | +--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

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```

| | | | +--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
| | | +--rw lacp-pdu-forward:lacp-pdu-forward
| | | | +--rw lacp-pdu-forward:enable?  empty

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| | +--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: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 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
| | | | | +--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

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| | | +--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
| | | | +--rw xstp:edgeportbasic?  empty
| | | | +--rw xstp:bpdu-guard?    empty
| | | +--rw xstp:guard
| | | | +--rw xstp:root?          empty
| | | +--rw xstp:bpdu-mac?        enumeration
| | | +--rw xstp:link-type?       enumeration
| | | +--rw xstp:priority?        uint32
| | | +--rw xstp:restricted-role?  empty
| | | +--rw xstp:restricted-tcn?   empty
| | | +--rw xstp:shutdown?        empty
| | | +--rw xstp:vlan* [id]
| | | | +--rw xstp:id              uint32
| | | | +--rw xstp:cost?          uint32
| | | | +--rw xstp:priority?      uint32
| | | | +--rw xstp:guard
| | | | | +--rw xstp:root?        empty
| | | +--rw xstp:instance* [id]
| | | | +--rw xstp:id              mstp-instance-type
| | | | +--rw xstp:cost?          uint32
| | | | +--rw xstp:priority?      uint32
| | | | +--rw xstp:restricted-role?  empty
| | | | +--rw xstp:restricted-tcn?  empty
| | +--rw port-channel* [name]
| | | +--rw name                  portchannel-type
| | | +--rw vlag
| | | | +--rw ignore-split?      empty
| | | +--rw po-speed?           enumeration
| | | +--rw insight
| | | | +--rw insight-enable?    empty
| | | | +--rw insight-mmId?      uint8
| | | +--ro ifindex?            uint64
| | | +--rw description?        string
| | | +--rw shutdown?           empty
| | | +--rw minimum-links?      uint32
| | | +--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

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```

| | | +--rw access
| | | | +--rw accessvlan?   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
| | | | 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
| | |   +--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
| | | | | +--rw qos-mls:threshold-tx-off? flowcontrol-threshold-type
| | | | +--rw qos-mls:pfc-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
| | | | | +--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? lmqt-type
| | | | +--rw igmp-snooping:igmps-query-interval? qi-type
| | | | +--rw igmp-snooping:igmps-query-max-response-time? qmrt-type
| | | | +--rw igmp-snooping:igmps-enable? empty
| | | | +--rw igmp-snooping:igmps-fast-leave? empty
| | | | +--rw igmp-snooping:igmps-querier
| | | | | +--rw igmp-snooping:igmps-qenable? empty
| | | | +--rw igmp-snooping:igmps_mrrouter
| | | | | +--rw igmp-snooping:igmps-interface* [igmps-if-type igmps-value]
| | | | | | +--rw igmp-snooping:igmps-if-type enumeration
| | | | | | +--rw igmp-snooping:igmps-value string-type
| | | | +--rw igmp-snooping:igmps_static-group* [igmps-mcast-address igmps-
interface igmps-if-type igmps-value]
| | | | | +--rw igmp-snooping:igmps-mcast-address inet:ipv4-address

```

```

| | | +--rw igmp-snooping:igmps-interface enumeration
| | | +--rw igmp-snooping:igmps-if-type enumeration
| | | +--rw igmp-snooping:igmps-value string-type
| +--rw ipv6
| | +--rw mld-snooping: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? lmqt-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:multiplier? uint32
| | +--rw lldp:advertise
| | | +--rw lldp:dcbx-fcoe-app-tlv? empty
| | | +--rw lldp:dcbx-fcoe-logical-link-tlv? empty
| | | +--rw lldp:dot1-tlv? empty
| | | +--rw lldp:dot3-tlv? empty
| | | +--rw lldp:optional-tlv
| | | | +--rw lldp:management-address? empty
| | | | +--rw lldp:port-description? empty
| | | | +--rw lldp:system-capabilities? empty
| | | | +--rw lldp:adv-tlv-system-description? empty
| | | | +--rw lldp:adv-tlv-system-name? empty
| | +--rw lldp:system-name? string

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```

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

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```

|   | +--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

```

## extreme-interface-ext

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

### RPCs

```

module: extreme-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 gbc
|     +---ro vendor-name?        string
|     +---ro vendor-oui?         string
|     +---ro vendor-pn?          string
|     +---ro vendor-rev?         string
+---:(xfp)
|   +---ro xfp
|     +---ro vendor-name?        string
|     +---ro vendor-oui?         string
|     +---ro vendor-pn?          string
|     +---ro vendor-rev?         string
+---:(xff)
|   +---ro xff
|     +---ro vendor-name?        string
|     +---ro vendor-oui?         string
|     +---ro vendor-pn?          string
|     +---ro vendor-rev?         string
+---:(xfpe)
|   +---ro xfpe
|     +---ro vendor-name?        string
|     +---ro vendor-oui?         string
|     +---ro vendor-pn?          string
|     +---ro vendor-rev?         string
+---:(unknown)
|   +---ro unknown
|     +---ro vendor-name?        string
|     +---ro vendor-oui?         string
|     +---ro vendor-pn?          string
|     +---ro vendor-rev?         string
+---:(qsfp)
|   +---ro qsfp
|     +---ro speed?              line-speed
|     +---ro connector?          enumeration
|     +---ro encoding?           enumeration
|     +---ro vendor-name?        string
|     +---ro vendor-oui?         string
|     +---ro vendor-pn?          string
|     +---ro vendor-rev?         string

```

```

|     +---ro distance?           enumeration
|     +---ro media-form-factor?  enumeration
|     +---ro wavelength?        string
|     +---ro serial-no?         string
|     +---ro date-code?        string
|     +---ro temperature?       uint32
|     +---ro voltage?           decimal64
|     +---ro current?           decimal64
|     +---ro tx-power?          decimal64
|     +---ro rx-power?          decimal64
+---: (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
```

## extreme-intf-loopback

---

Provides a data model for managing the interface loopback feature.

### Top-level container

```
module: extreme-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
```

## extreme-ip-access-list

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

### Top-level container

```

module: extreme-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-type
dst-interface-name]
        +---rw src-interface-type enumeration
        +---rw src-interface-name mirror-ifname
        +---rw destination         enumeration
        +---rw dst-interface-type  enumeration
        +---rw dst-interface-name  mirror-ifname

```

## extreme-ip-administration

---

Provides a data model for configuring the domain name server.

### External augmentations

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

## extreme-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: extreme-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
```



## extreme-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: extreme-ip-policy
  +--rw hide-filter-change-update-delay-holder
    +--rw filter-change-update-delay* [filter-delay-value]
      +--rw filter-delay-value      uint32
```

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

```

```
    +--rw fin?                empty
    +--rw rst?                empty
    +--rw sync?              empty
    +--rw vlan?              interface:vlan-type
    +--rw count?            empty
    +--rw log?               empty
    +--rw mirror?           empty
    +--rw copy-sflow?       empty
```

## extreme-isis

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

### External augmentations

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

module: extreme-interface

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

## extreme-isis-operational

Provides a data model for the extreme-isis module.

### Top-level container

```

module: extreme-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

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| | +--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-redist-metric-type
| | | | +--ro redist-routemap-name? string
| | | +--ro redist-connected
| | | | +--ro redist-enabled? isis-status
| | | | +--ro redist-level? isis-level
| | | | +--ro redist-metric? uint32
| | | | +--ro redist-metric-type? is-redist-metric-type
| | | | +--ro redist-routemap-name? string
| | | +--ro redist-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

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| | | | +--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-redist-metric-type
| | | | | +--ro redist-routemap-name? string
| | | | +--ro redist-connected
| | | | | +--ro redist-enabled?     isis-status
| | | | | +--ro redist-level?     isis-level
| | | | | +--ro redist-metric?     uint32
| | | | | +--ro redist-metric-type? is-redist-metric-type
| | | | | +--ro redist-routemap-name? string
| | | | +--ro redist-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

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| |     +--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

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| | +--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-lsps?        uint32
| | | +--ro ctrl-out?        uint32
| | | +--ro ctrl-in?         uint32
| | +--ro mpls-info
| | | +--ro te-enabled?       isis-status
| | | +--ro admin-group?     uint32
| | | +--ro te-metric?       uint32
| | | +--ro max-link-bw?     uint32
| | | +--ro max-reserv-bw?   uint32
| | | +--ro unreserv-bw*    uint32
| | +--ro reverse-metric-info
| | | +--ro is-global-config? boolean
| | | +--ro reverse-metric-value? uint32
| | | +--ro rev-metric-whole-lan? isis-status
| | | +--ro rev-metric-te-def-metric? isis-status
| | +--ro ldp-sync-info
| | | +--ro ldp-sync-enabled? isis-status
| | | +--ro ldp-sync-hold-down? uint16
| | | +--ro ldp-in-sync?      boolean
| | | +--ro remain-hd-time?   uint32
| | | +--ro ldp-sync-hd-expired? boolean
| | +--ro circ-metrics* [level]
| | | +--ro level             isis-level
| | | +--ro auth-check?       isis-status
| | | +--ro auth-mode?        auth-mode
| | | +--ro auth-key?         string
| | | +--ro circ-metric?      uint32
| | | +--ro ip6-circ-metric?  uint32
| | | +--ro circ-priority?    uint8
| | | +--ro hello-int?        uint32
| | | +--ro hello-mult?       uint32
| | | +--ro dis?              string
| | | +--ro dis-ch?           uint32
| | | +--ro next-hello?       uint32
| | | +--ro active-adj?       uint32
| | +--ro ip-info* [ip-add]
| | | +--ro ip-add            inet:ipv4-address
| | | +--ro ip-prefix?        uint8
| | +--ro ip6-info* [ip6-add]
| | | +--ro ip6-add           inet:ipv6-address
| | | +--ro ip6-prefix?       uint8
| | | +--ro is-link-local?    boolean
| +--ro database* [level]
| | +--ro isis-operation?     boolean
| | +--ro level                uint32
| | +--ro lsp-level1-count?   uint32
| | +--ro lsp-level2-count?   uint32

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|   +---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
```

## extreme-l2sys-operational

---

Manages the L2SYS processor.

### Top-level container

```
module: extreme-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
```

## extreme-lacp

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

### Top-level container

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

### External augmentations

```
module: extreme-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
```

## extreme-lag

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

### Top-level container

```

module: extreme-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
```

## extreme-lfs

---

Manages link fault signal (LFS).

### Top-level container

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

### External augmentations

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

## extreme-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: extreme-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

```

## extreme-linecard-management

Provides a data model for managing line cards.

### Top-level container

```

module: extreme-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

```

## extreme-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: extreme-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*/

```

## extreme-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

```

## extreme-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: extreme-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
```

## extreme-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: extreme-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
```

## extreme-mc-hms-operational

Manages the multicast operational information.

### Top-level container

```

module: extreme-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
```

## extreme-mct

Manages the multi-chassis trunking (MCT) state.

### Top-level container

```

module: extreme-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

```



## extreme-mpls

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

### Top-level container

```

module: extreme-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
```



## extreme-mpls-operational

Manages the MPLS operational information.

### Top-level container

```

module: extreme-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 label-space?    uint32
| | | | +--ro label?          uint32
| | | +--ro downstream-sessions* [ip interface]
| | | | +--ro ip              inet:ipv4-address
| | | | +--ro interface       string
| | | | +--ro label-space?    uint32
| | | | +--ro label?          uint32
| | +--ro ldp-neighbors* [neighbor-ldpid label-space-id]
| | | +--ro neighbor-ldpid      inet:ipv4-address
| | | +--ro label-space-id      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 fecccb?               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 resvtear-errors?      uint64
| |      +--ro resvconf-errors?      uint64
| |      +--ro bundle-errors?        uint64
| |      +--ro ack-errors?           uint64
| |      +--ro sumrefresh-errors?    uint64
| |      +--ro hello-errors?        uint64
| |      +--ro nackobject-errors?    uint64
| |      +--ro path-errors-since-last-clear?    uint64
| |      +--ro resv-errors-since-last-clear?    uint64
| |      +--ro patherr-errors-since-last-clear? uint64
| |      +--ro resverr-errors-since-last-clear? uint64
| |      +--ro pathtear-errors-since-last-clear? uint64
| |      +--ro resvtear-errors-since-last-clear? uint64
| |      +--ro resvconf-errors-since-last-clear? uint64
| |      +--ro bundle-errors-since-last-clear?  uint64
| |      +--ro ack-errors-since-last-clear?    uint64
| |      +--ro sumrefresh-errors-since-last-clear? uint64
| |      +--ro hello-errors-since-last-clear?  uint64
| |      +--ro nackobject-errors-since-last-clear? uint64
| |    +--ro packet-counters
| |      +--ro path-tx?              uint64
| |      +--ro resv-tx?              uint64
| |      +--ro patherr-tx?          uint64
| |      +--ro resverr-tx?          uint64
| |      +--ro pathtear-tx?         uint64
| |      +--ro resvtear-tx?         uint64
| |      +--ro resvconf-tx?         uint64
| |      +--ro bundle-tx?           uint64

```

```

| | | +--ro ack-tx? uint64
| | | +--ro sumrefresh-tx? uint64
| | | +--ro hello-tx? uint64
| | | +--ro path-rx? uint64
| | | +--ro resv-rx? uint64
| | | +--ro patherr-rx? uint64
| | | +--ro resvrr-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 resvrr-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 resvrr-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 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 resvrr-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 resvrr-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 resvrr-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

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			+--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

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| | | +--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
| | | +--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-persistent?	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-prority-configured?	boolean
			+++ro	config-setup-prority?	uint8
			+++ro	config-holding-prority?	uint8
			+++ro	config-hop-limit-configured?	boolean
			+++ro	config-hop-limit?	uint8

			+++ro	config-traffic-eng-rate-configured?	boolean
			+++ro	config-traffic-eng-mean-rate?	uint32
			+++ro	config-traffic-eng-max-rate?	uint32
			+++ro	config-traffic-eng-max-burst?	uint32
			+++ro	config-abw-configured?	boolean
			+++ro	config-bfd-configured?	boolean
			+++ro	config-admin-group-configured?	boolean
			+++ro	config-cspf-computation-mode?	lsp-cspf-computation-mode
			+++ro	path-computed-by-cspf?	boolean
			+++ro	path-computed-by-interface-constraint?	boolean
			+++ro	cspf-computation-mode?	lsp-cspf-computation-mode
			+++ro	cspf-group-computation-mode-default?	boolean
			+++ro	cspf-group-computation-mode-add-penalty?	boolean
			+++ro	cspf-group-computation-mode-exclude-groups?	boolean
			+++ro	cspf-group-computation-mode-high-cost?	boolean
			+++ro	cspf-path-cost?	uint32
			+++ro	cspf-path-area?	uint32
			+++ro	cspf-computation-error?	uint32
			+++ro	cspf-exclude-hops-present?	boolean
			+++ro	rsvp-session-present?	boolean
			+++ro	rsvp-session-state-up?	boolean
			+++ro	rsvp-session-state?	uint8
			+++ro	rsvp-session-path-error-code?	uint32
			+++ro	rsvp-session-path-error-value?	uint32
			+++ro	rsvp-session-path-error-node-address?	inet:ipv4-address
			+++ro	rsvp-session-rro-hops-present?	boolean
			+++ro	config-exclude-interface-configured?	boolean
			+++ro	maximum-bandwidth?	uint32
			+++ro	unreserved-priority-0-bandwidth?	uint32
			+++ro	unreserved-priority-1-bandwidth?	uint32
			+++ro	unreserved-priority-2-bandwidth?	uint32
			+++ro	unreserved-priority-3-bandwidth?	uint32
			+++ro	unreserved-priority-4-bandwidth?	uint32
			+++ro	unreserved-priority-5-bandwidth?	uint32
			+++ro	unreserved-priority-6-bandwidth?	uint32
			+++ro	unreserved-priority-7-bandwidth?	uint32
			+++ro	config-frr-configured?	boolean
			+++ro	config-frr-one-to-one?	boolean
			+++ro	config-frr-one-to-many?	boolean
			+++ro	config-frr-priority-configured?	boolean
			+++ro	config-frr-setup-priority?	uint8
			+++ro	config-frr-holding-priority?	uint8
			+++ro	config-frr-hop-limit-configured?	boolean
			+++ro	config-frr-hop-limit?	uint8
			+++ro	config-frr-bandwidth-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
| | | | +--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]
| | +--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
```

## extreme-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

```

## extreme-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
```



## extreme-nsm-operational

This management module is an instrumentation to manage NSM.

### Top-level container

```

module: extreme-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

```

## extreme-ntp

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

### Top-level container

```

module: extreme-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

```

## extreme-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

```

## extreme-ospfv3

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

### External augmentations

```

module: extreme-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

```

## extreme-pim

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

### External augmentations

```

module: extreme-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: extreme-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: extreme-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

```



## extreme-pim-operational

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

### Top-level container

```

module: extreme-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
```

## extreme-pw-profile

---

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

### Top-level container

```
module: extreme-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
```

## extreme-pwm-operational

This management module is an instrumentation to manage PWM.

### Top-level container

```

module: extreme-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
```

## extreme-qos-cpu

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

### External augmentations

```

module: extreme-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*/

```

## extreme-qos-mls

Manages the Quality of Service (QoS).

### Top-level container

```

module: extreme-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:extreme-interop
+---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:extreme-interop
| | +---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

```

## extreme-qos-mpls

Manages the MPLS Quality of Service (QoS).

### Top-level container

```

module: extreme-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
```

## extreme-qos-mqc

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

### Top-level container

```

module: extreme-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
```

## extreme-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: extreme-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 ffdc?        empty
+--rw logtest
| +--rw raslog
| | +---x gmsg
| | | +--ro input
| | | +--ro messageID? string

```

```

+--rw auditlog
| +---x gmsg
| | +--ro input
| | | +--ro messageID?  string
+--rw resource-monitor
+---x memory
| +--ro input
| | +--ro (srm)?
| | | +--:(enable)
| | | | +--ro enable?  empty
| | | +--:(disable)
| | | | +--ro disable?  empty
+---x cpu
+--ro input
+--ro (srm)?
+--:(enable)
| +--ro enable?  empty
+--:(disable)
+--ro disable?  empty

```

## RPCs

```

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

```



## extreme-ras-ext

Provides a data model for managing RASLog-related information.

### Top-level container

```

module: extreme-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: extreme-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
  
```

## 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
```

## extreme-rbridge-lag

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

### Top-level container

```

module: extreme-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

```

## extreme-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: extreme-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
```

## extreme-rpf

---

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

### Top-level container

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

### External augmentations

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

## extreme-rtm

Provides a data model for IP routes.

### External augmentations

```

module: extreme-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

```



## extreme-sec-services

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

### Top-level container

```

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

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

```

```
| | +--rw brcd-sec-services:client
```

## extreme-sflow

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

### Top-level container

```

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

```

## extreme-snmp

Provides a data model for configuring the SNMP server.

### Top-level container

```

module: extreme-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
  
```

## extreme-span

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

### Top-level container

```

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

## extreme-ssm-operational

Manages the switch security module (SSM).

### Top-level container

```
module: extreme-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
```

## extreme-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: extreme-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 fqpp-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 tmcputatsslot* [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 tmcputatsslotallgrp* [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

```

## extreme-sysmgr

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

### External augmentations

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

## extreme-sysmgr-operational

Provides a data model to manage the system manager.

```

module: extreme-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-sfmcnt?   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
```

## extreme-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: extreme-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
```

## extreme-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
```

## extreme-system-capabilities

Displays system capabilities of the extreme device.

### Top-level container

```

module: extreme-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
  
```

## extreme-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: extreme-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

```

## extreme-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
```

## extreme-system-watermark

---

Defines the system-related information.

### Top-level container

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

## extreme-telemetry

Provides a data model to manage the telemetry configuration.

### Top-level container

```

module: extreme-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

```

## extreme-terminal

---

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

### Top-level container

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

## extreme-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: extreme-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
  
```

## extreme-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
```

## extreme-topology-group

---

Manages the topology group-related commands.

### Top-level container

```
module: extreme-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
```



## extreme-tpvm

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

### Top-level container

```

module: extreme-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
```

## extreme-tunnels

Provides a data model to manage tunnels configuration.

### Top-level container

```

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

## extreme-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
```

## extreme-udld

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

### External augmentations

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

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

## extreme-vcs

Provides a data model for managing the extreme 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: extreme-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-wwn?      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-wwn?         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

```

## extreme-vlan

---

Provides a data model for managing VLAN classifiers.

### Top-level container

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

## extreme-vrf

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

### Top-level container

```

module: extreme-vrf
  +--rw vrf* [vrf-name]
    +--rw vrf-name                common-def:vrf-name
    +--rw route-distinguisher?    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-target-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
| | | | +--rw rtm:static-route-oif* [static-route-dest static-route-oif-type
static-route-oif-name]
| | | | +--rw rtm:static-route-dest inet:ipv4-prefix
| | | | +--rw rtm:static-route-oif-type enumeration
| | | | +--rw rtm:static-route-oif-name string
| | | | +--rw rtm:route-attributes
| | | | +--rw rtm:metric? uint32
| | | | +--rw rtm:distance? uint32
| | | | +--rw rtm:tag? uint32
| | | | +--rw rtm:import
| | | | +--rw rtm:routes* [src-vrf route-map]
| | | | +--rw rtm:src-vrf common-def:vrf-name
| | | | +--rw rtm:route-map common-def:name-string63
+--rw ipv6
| +--rw unicast!
| +--rw max-route? uint32
| +--rw 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

```

## extreme-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: extreme-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

```

## extreme-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: extreme-vrrpv3
  +--rw vrrp-global
    +--rw vrrp-acceptmode-disable?  empty
```

### External augmentations

```
module: extreme-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
```

## extreme-vxlan-visibility

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

### Top-level container

```

module: extreme-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

```

## extreme-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
```



## Custom RPCs

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

**Table 8: Custom RPCs**

RPC name	Host module	Synopsis
activate-status	extreme-firmware	Returns firmware activation status.
bnacfg-cmd	extreme-ras	Copies configuration data to and from the system.
bnacfg-cmd-status	extreme-ras	Returns the status of the last configuration command.
clear-tm-voq-stat-ing-all-egr-all	brocade-tm-stats	Clears all voq statistics.
clear-tm-voq-stat-ing-all-egr-ifname	brocade-tm-stats	Clears per port voq statistics on all devices.
clear-tm-voq-stat-slot-id-egr-all	brocade-tm-stats	Clears all voq statistics for selected slot.
clear-tm-voq-slot-id-egress-port-name	brocade-tm-stats	Clears per port voq statistics for selected slots.
firmware-download	extreme-firmware	Returns the firmware information.
firmware-download-sanity	brocade-firmware	Validates the firmware download inputs.
firmware-commit	brocade-firmware	Commits firmware information.
firmware-restore	brocade-firmware	Restores firmware.
fwdl-status	extreme-firmware	Returns the status of the firmware download operation.
get-arp	extreme-arp	Returns ARP entries of the managed entity.
get-contained-in-ID	extreme-entity	Returns the slot or container name or ID, where the managed device is "contained in".



**Table 8: Custom RPCs (continued)**

RPC name	Host module	Synopsis
get-interface-detail	extreme-interface-ext	Returns operational details of all the possible interfaces of the managed entity. Use this RPC to discover basic characteristics of all the interfaces in the system. Each sublayer below the internetwork layer of a network interface is considered to be an interface.
get-interface-switchport	extreme-interface-ext	Returns switch-port or Layer 2 characteristics of all the interfaces in the managed device.
get-ip-interface	extreme-interface-ext	Returns brief details of all interfaces, loopback and VE interface details of particular managed entity. PHY interface details of particular managed entity cannot be given.
get-last-config-update-time	extreme-vcs	Returns the time stamp of the last configuration change done on the managed device.
get-last-config-update-time-for-xpaths	extreme-vcs	Returns the time stamp of the last configuration change done on the managed device for Xpaths.
get-lldp-neighbor-detail	extreme-lldp-ext	Returns the details of all the neighboring interfaces of the managed entity.
get-mac-acl-for-intf	extreme-mac-access-list	Returns information about the MAC ACL applied on the specified interfaces.
get-mac-address-table	extreme-mac-address-table	Returns the MAC address table for a given MAC address.
get-maint-mode-status	brocade-system-maintenance	Returns the maintenance mode status.
get-media-detail	extreme-interface-ext	Returns the media properties of all the interfaces of the managed entity.
get-netconf-client-capabilities	extreme-netconf-ext	Returns the vendor information for all NETCONF clients.
get-port-channel-detail	extreme-lag	Returns link aggregation control configuration parameters for all the port-channels in the system.

**Table 8: Custom RPCs (continued)**

RPC name	Host module	Synopsis
get-portchannel-info-by-intf	extreme-lag	Returns link aggregation control configuration parameters for a given aggregation port in the system.
get-stp-brief-info	extreme-xstp-ext	Returns Spanning Tree Protocol (STP) information.
get-stp-mst-detail	extreme-xstp-ext	Returns Multiple Spanning Tree Protocol (MSTP) details.
get-system-uptime	extreme-system	Returns the time since the managed entity was last reinitialized.
get-vlan-brief	extreme-interface-ext	Returns operational data for a given VLAN and enumeration of all the interfaces belonging to this VLAN.
get-tunnel-info	extreme-tunnels-extrpcs	Retrieves summary of one or more tunnels from the switch.
get-tunnel-statistics	extreme-tunnels-extrpcs	Retrieves tunnel statistics such as count of bytes and frames transmitted and received.
reload	extreme-ha	Reloads HA.
set-http-application-url	extreme-http-redirect	Sets the HTTP application URL.
show-clock	extreme-clock	Returns the date, time, and time zone.
show-firmware-version	extreme-firmware-ext	Returns firmware version information.
show-ntp	extreme-ntp	Returns the active NTP server for the extreme VCS fabric or specified switch.
show-raslog	extreme-ras-ext	Returns RASlog entries.
show-support-save-status	extreme-ras-ext	Returns information about the status of a recent supportSave request.
show-system-info	extreme-ras-ext	Returns the routing bridge ID and MAC address of the switch.
show-system-monitor	extreme-system-monitor-ext	Returns system status information.
user-session-info	extreme-aaa-ext	Returns user role information.



# Actions

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

**Table 9: Actions**

Action name	Host module	Node	Purpose
abort	extreme-event-handler	event-handler	Under Python event-management, aborts a specified event handler that is currently running.
action	extreme-event-handler	common-def:clear/event-handler	Specifies the Python script that will be triggered when an event occurs.
activate	extreme-fc-auth	secpolicy/action	Activates all the defined FC authorization policies.
activate	extreme-firmware	firmware	Activates the firmware download.
activations	extreme-event-handler	common-def:show	Activates an event handler on an RBridge and accesses event-handler activation mode.
add	extreme-license	common-def:show/license	Displays the license keys.
all	extreme-fabric-service	common-def:show/fabric	Returns fabric information.
auditlog	extreme-ras-ext	common-def:clear/logging	Clears the audit log.
auditlog	extreme-ras-ext	common-def:show/logging	Shows audit log information.
authenticate	extreme-crypto-ext	crypto/ca	Sets the authentication file from the host authentication server.
authenticate	extreme-crypto-ext	common-def:no	Sets the authentication file from the host authentication server.
bare-metal	extreme-preprovision	common-def:show/bare-metal/bare-metal	Indicates the bare-metal state on the system.

**Table 9: Actions (continued)**

Action name	Host module	Node	Purpose
brief	extreme-nameserver	common-def:show/:	Gets a list of devices, listed by FCID, that are stored in the Name Server database.
burninerrclear	extreme-diagnostics	diag	Clears the errors that are stored in the nonvolatile storage on the slot during the burn-in process.
burninerrshow	extreme-diagnostics	common-def:show	Checks the error log.
burninstatus	extreme-diagnostics	common-def:show	Displays the status of last run system verification test.
certificates	extreme-crypto-ext	common-def:show / crypto/ca	Displays certificate details.
chassis	extreme-beacon	beacon/disable	Disables the chassis beacon.
chassis	extreme-beacon	beacon/enable	Enables the chassis beacon.
chassis	extreme-ras-ext	common-def:show/infra	Returns system information.
chassisreboot	extreme-ha	ha	Reboots the chassis.
clearerror	extreme-diagnostics	diag	Clears the diagnostics failure status.
clock	extreme-clock	clock-set-datetime	Sets the date and time.
clock	extreme-clock	clock-set-timezone	Sets the local time zone.
commit	extreme-firmware	firmware/download	Commits a firmware upgrade after evaluation.
connector-group	extreme-hardware	common-def:show	Sets a connector group that FlexPort is allowed to access on the switch.
console	extreme-ras	ras/logging/raslog	Sets the severity levels for the RASLog console and allows users to temporarily stop showing RASLog messages on the console.
cpu	extreme-ras-ext	common-def:show/infra/process	Lists processes by CPU usage.
cpu	extreme-ras	resource monitor	Lists processes by CPU usage.

**Table 9: Actions (continued)**

Action name	Host module	Node	Purpose
dadstatus	extreme-firmware	common-def:show/ dhcp-auto-deployment	Displays the current status of firmware download.
description	extreme-ras-ext	rasman	Displays the details of the defined log modules.
detail	extreme-nameserver	common-def:show/:	Returns details about the configured name server.
dhchap	extreme-fc-auth	auth-secret	Configures authorization secret for DH-CHAP.
dhchap	extreme-fc-auth	common-def:no/fcsp/ auth-secret	Deletes the authorization secret for DH-CHAP.
dhchap	extreme-fc-auth	common-def:show/ fcsp/authsecret	Returns the device WWN for which a shared secret is configured.
dir	extreme-ras	system/usb	Displays the directory of a USB device.
directory	extreme-firmware	firmware:firmware/ download/tftp/input	Specifies the directory from where the firmware is downloaded.
disable	extreme-chassis	chassis	Disables the chassis.
disable	extreme-chassis	chassis/beacon	Disables the chassis beacon.
disable	extreme-firmware	firmware/auto-sync	Disables the firmware download.
disable	extreme-ha	ha	Disables high availability.
dpod	extreme-license	common-def:show/enh- show-license-keys	Displays dynamic POD license information.
dump	extreme-ha	ha	Displays high availability status information.
dvpgs	extreme-vswitch	common-def:show/ vnetwork	Shows discovered distributed virtual port-groups.
dvs	extreme-vswitch	common-def:show/ vnetwork	Shows discovered distributed virtual switches.
enable	extreme-chassis	chassis	Enables the chassis.
enable	extreme-chassis	chassis/beacon	Enables the chassis beacon.

**Table 9: Actions (continued)**

Action name	Host module	Node	Purpose
enable	extreme-firmware	firmware/auto-sync	Enables the firmware download.
enable	extreme-firmware	dhcp/auto-deployment	Enables auto-deployment of the firmware.
enable	extreme-ha	ha	Enables high availability.
enroll	extreme-crypto-ext	crypto/ca	Enrolls the trust point and generates the security certificate for HTTPS security.
erase	extreme-firmware	firmware/write	Returns switch to factory default state.
exec	extreme-diagnostics	fos	Runs native Fabric OS commands.
failover	extreme-ha	ha	Causes HA failover.
fan	extreme-ras-ext	common-def:show/ infra/environment	Shows fan information.
fastboot	extreme-firmware	reboot	Reboots the control processor (CP), bypassing the power-on self-test (POST).
firmware	extreme-firmware-ext	common-def:show/ firmware	Shows firmware auto-sync status.
firmwaredownloadhistory	extreme-firmware-ext	common-def:show/ firmware	Returns a history of firmware downloads.
firmwaredownloadstatus	extreme-firmware-ext	common-def:show/ firmware	Returns the firmware download status.
firmware-features	extreme-firmware-ext	common-def:show/ firmware	Shows firmware features.
ftp	extreme-firmware	firmware/download	Downloads firmware with FTP.
ftp	extreme-firmware	firmware/download/ default-config	Downloads firmware with FTP.
ftp	extreme-firmware	firmware/download/ logical-chassis	Downloads firmware with FTP for logical chassis.
ftp	extreme-firmware	firmware/download/ logical-chassis/default-config	Downloads firmware with FTP for logical chassis.
ftp	extreme-firmware	firmware/install	Installs firmware with FTP.
ftp	extreme-ras	copy/support	Uploads support data to an FTP server.

**Table 9: Actions (continued)**

Action name	Host module	Node	Purpose
gmsg	extreme-ras	auditlog	Generates an audit log message for an internal audit log test.
gmsg	extreme-ras	logtest/raslog	Generates a message for an internal RASlog test.
ha	extreme-ha	common-def:show/ha	Displays the HA state.
hardware-profile	extreme-hardware	common-def:show	Optimizes hardware resources.
history	extreme-ras-ext	common-def:show/infra	Shows history information.
hosts	extreme-vswitch	common-def:show/vnetwork	Displays discovered hosts.
id	extreme-license	common-def:show/license	Returns license IDs.
import	extreme-crypto-ext	crypto/ca	Imports the CA certificate for HTTPS security configuration.
import	extreme-crypto-ext	common-def:no	Imports the CA certificate for HTTPS security configuration.
info	extreme-ras-ext	common-def:show/infra/process	Shows system processes.
interactive	extreme-firmware	firmware/download	Downloads firmware interactively.
interface	extreme-beacon	beacon/disable	Disables the interface beacon.
interface	extreme-beacon	beacon/enable	Enables the interface beacon.
interface	extreme-threshold-monitor-ext	extreme-common-def:show/defaults/extreme-threshold-monitor-ext:threshold	Shows default threshold and alert values for interface.
inventory	extreme-ras-ext	infra-inventory	Displays the inventory details.
isl	extreme-fabric-service	common-def:show/fabric-service:fabric	Returns fabric ISL information.
islports	extreme-fabric-service	common-def:show/fabric-service:fabric	Returns fabric ISL port information.
l2traceroute	extreme-trilloam	trilloam	Traces a route between a source and destination MAC address.

**Table 9: Actions (continued)**

Action name	Host module	Node	Purpose
ldapca	extreme-certutil	certutil/import	Imports the LDAP CA certificate.
ldapca	extreme-certutil	common-def:no/certutil	Deletes the LDAP CA certificate.
ldapcert	extreme-certutil	common-def:show/certutil	Displays the LDAP CA certificate.
license	extreme-license	common-def:show/enh-show-license-keys	Displays license information.
linecard	extreme-linecard-management	common-def:show/linecardinfo	Configures a line card.
linecard	common-def:show	common-def:show/linecardinfo	Configures a line card.
linkinfo	extreme-fabric-service	common-def:show/fabric-service:fabric	Returns fabric ISL link information.
maps	extreme-maps-ext	common-def:show	
macaddr	extreme-vswitch	common-def:show/vnetwork/vmpolicy	Returns information about MAC address policies.
memory	extreme-ras-ext	common-def:show/infra/process	Lists processes by memory usage.
memory	extreme-ras	resource-monitor	Lists processes by memory usage.
message	extreme-ras-ext	rasman	Displays the details of the given RASlog message ID.
mm	extreme-linecard-management	common-def:show/mminfor	Management module.
module	extreme-ras-ext	rasman	Displays the details of the given RAS module name.
monitor	extreme-system-monitor-ext	common-def:show/system-monitor-extensions:system	Returns monitor switch status.
monitor	extreme-threshold-monitor-ext	common-def:show/threshold-monitor-extensions:system	Returns monitor switch error statistics on an interface.
multicast	extreme-fabric-service	fabric/route	Displays multicast routing information, including the multicast tree, its root, priority, and so on.
mypubkey	extreme-crypto-ext	common-def:show/crypto/key	Displays the crypto key.



**Table 9: Actions (continued)**

Action name	Host module	Node	Purpose
neighbor-state	extreme-fabric-state	fabric/route	Displays the FSPF link state information of a node. A full state indicates FSPF link state database exchange is complete and that the link can be used while making routing decisions.
nodefind	extreme-nameserver	common-def:show/:	Displays nodes matching a specified WWN or PID.
off	extreme-ras	system/usb	Disables the USB device.
on	extreme-ras	system/usb	Enables the USB device.
operation-info	extreme-zone	common-def:show/zoning	Returns zone database size information and the time stamp of the last change.
pathinfo	extreme-fabric-service	fabric/route	Displays routing information and states along a path covering multiple switches.
pgs	extreme-vswitch	common-def:show/vnetwork	Returns information about discovered standard port-groups.
portledtest	extreme-diagnostics	diag	Runs various action modes on the port LEDs and validates the functionality.
portloopbacktest	extreme-diagnostics	diag	Sends frames between various ASICs on the switch and validates the ASIC functionality.
port-group	extreme-hardware	common-def:show/hardware	Displays the port-group information for the device.
port-side-exhaust	extreme-chassis	fan/airflow-direction	Sets the airflow direction to exhaust-side intake.
port-side-intake	extreme-chassis	fan/airflow-direction	Sets the airflow direction to port-side intake.
power	extreme-ras-ext	common-def:show/infra/environment	Shows power information.
power-off	extreme-linecard-management	common-def:show/linecardservice	Deactivates a line card.

**Table 9: Actions (continued)**

Action name	Host module	Node	Purpose
power-on	extreme-linecard-management	linecardservice	Powers on a line card.
prbtest	extreme-diagnostics	diag	Performs pseudo-random binary-sequence tests.
raslog	extreme-ras-ext	common-def:clear/logging	Clears the RASlog.
raslog	extreme-ras-ext	common-def:show/logging	Shows RASlog information.
recover	extreme-firmware	firmware	Aborts the firmware operation that is ready to be activated and then commits the firmware.
redundancy	extreme-ha	common-def:show/redundancy	Shows high availability redundancy state.
reload	extreme-ha	common-def:show/system/reload	Reloads the system.
remove	extreme-license	license	Removes the license keys.
remove	extreme-ras	system/usb	Deletes a file from a USB device.
restore	extreme-firmware	firmware/download	Restores the original firmware after evaluation.
results	extreme-diagnostics	common-def:show/diag/post	Displays the post verification test result.
sanity-check	extreme-firmware	firmware/download	Conducts a sanity check on the firmware download.
scp	extreme-firmware	firmware/download	Downloads firmware with SCP.
scp	extreme-firmware	firmware/download/default-config	Downloads firmware with SCP.
scp	extreme-firmware	firmware/download/logical-chassis	Downloads firmware with SCP for logical chassis.
scp	extreme-firmware	firmware/download/logical-chassis/default-config	Downloads firmware with SCP for logical chassis.
scp	extreme-firmware	firmware/install	Installs firmware with SCP.
scp	extreme-ras	copy/support	Uploads support data to an SCP server.

**Table 9: Actions (continued)**

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

**Table 9: Actions (continued)**

Action name	Host module	Node	Purpose
status	extreme-sec-services	common-def:show/ssh/server	Displays the SSH server status.
status	extreme-sec-services	common-def:show/ssh/client	Displays the SSH client status.
status	extreme-sec-services	common-def:show/telnet/server	Displays the Telnet server status.
stop	extreme-ha	ha/sync	Syncs up the system.
support	extreme-ras-ext	common-def:clear/support	Clears support information.
support	extreme-ras-ext	common-def:show/support	Shows support information available for upload.
support-interactive	extreme-ras	copy	Enables interactive support data upload.
sync	extreme-firmware	firmware/download	Synchronizes the firmware with its peer.
syslogca	extreme-certutil	certutil/import	Imports the syslog server CA certificate.
syslogca	extreme-certutil	common-def:no/certutil	Deletes the syslog server CA certificate.
syslogcert	extreme-certutil	common-def:show/certutil	Displays the syslog server CA certificate.
systemverification	extreme-diagnostics	diag	Runs a combination of various hardware diagnostic tests.
temp	extreme-ras-ext	common-def:show/infra/environment	Shows temperature information.
timezone	extreme-clock	common-def:no/clock	Returns the time zone information.
tftp	extreme-firmware	firmware:firmware/download	Downloads firmware with TFTP.
tftp	extreme-firmware	firmware/download/default-config	Downloads firmware with TFTP.
tftp	extreme-firmware	firmware/download/logical-chassis	Downloads firmware with TFTP for logical chassis.
tftp	extreme-firmware	firmware/download/logical-chassis/default-config	Downloads firmware with TFTP for logical chassis.

**Table 9: Actions (continued)**

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