

# Extreme SLX-OS YANG Reference Guide, 20.2.2a

Supporting ExtremeRouting and ExtremeSwitching  
SLX 9740, SLX 9640, SLX 9540, SLX 9250 and SLX  
9150

9036878-00 Rev AA  
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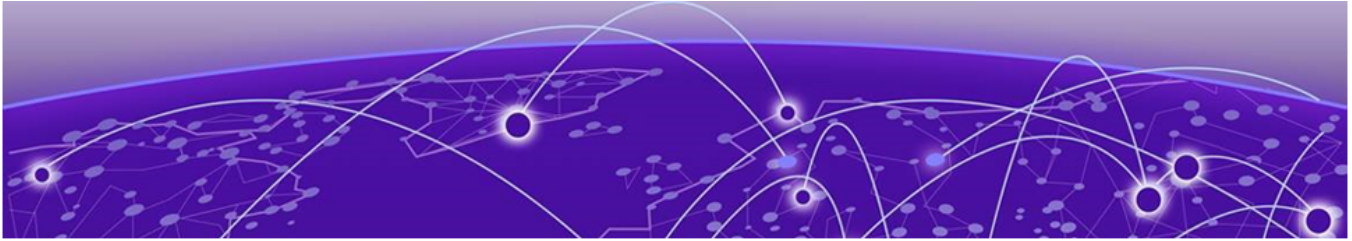
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# Preface

---

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 italicized type               | 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</b> text                   | Bold text indicates command names, keywords, and command options.                                                                                                                        |
| <i>italic</i> text                 | 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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## Documentation and Training

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Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

[Hardware and software compatibility](#) for Extreme Networks products

[Extreme Optics Compatibility](#)

[Other resources](#) such as white papers, data sheets, and case studies

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## Getting Help

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

### Extreme Portal

Search the GTAC (Global Technical Assistance Center) knowledge base; manage support cases and service contracts; download software; and obtain product licensing, training, and certifications.

### The Hub

A forum for Extreme Networks customers to connect with one another, answer questions, and share ideas and feedback. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.

### 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)

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

- 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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1. Go to [www.extremenetworks.com/support/service-notification-form](http://www.extremenetworks.com/support/service-notification-form).
2. Complete the form (all fields are required).

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

**Note**

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

4. Select **Submit**.

## Providing Feedback

---

The Information Development team at Extreme Networks has made every effort to ensure the accuracy and completeness of this document. We are always striving to improve our documentation and help you work better, so we want to hear from you. We welcome all feedback, but we especially want to know about:

- Content errors, or confusing or conflicting information.
- Improvements that would help you find relevant information in the document.
- Broken links or usability issues.

If you would like to provide feedback, you can do so in three ways:

- In a web browser, select the feedback icon and complete the online feedback form.
- Access the feedback form at <https://www.extremenetworks.com/documentation-feedback/>.
- Email us at [documentation@extremenetworks.com](mailto:documentation@extremenetworks.com).

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



# About This Document

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## What's New in This Document

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This guide accompanies the SLX-OS 20.2.2a 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 20.2.2a supports the following hardware platforms.

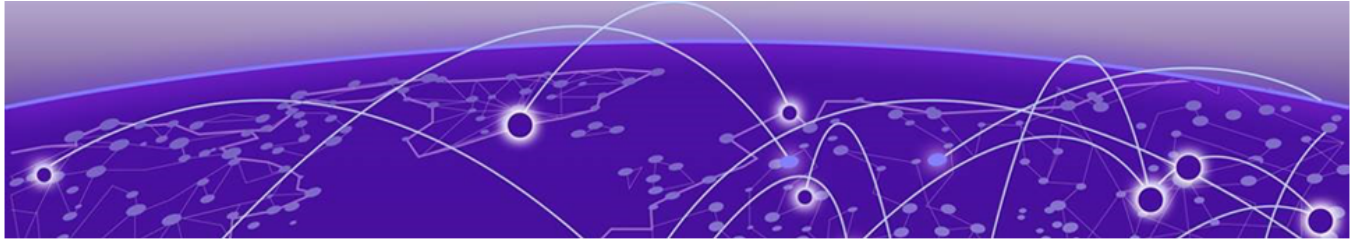
- Devices based on the Broadcom XGS® chipset family:
  - ExtremeSwitching SLX 9250
  - ExtremeSwitching SLX 9150
- Devices based on the Broadcom DNX® chipset family:
  - ExtremeRouting SLX 9740
  - ExtremeRouting SLX 9640
  - ExtremeSwitching SLX 9540



### Note

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

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

---

The *Extreme SLX-OS YANG Reference Guide* is a reference for YANG modules supported by SLX-OS 20.2.2a.

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.

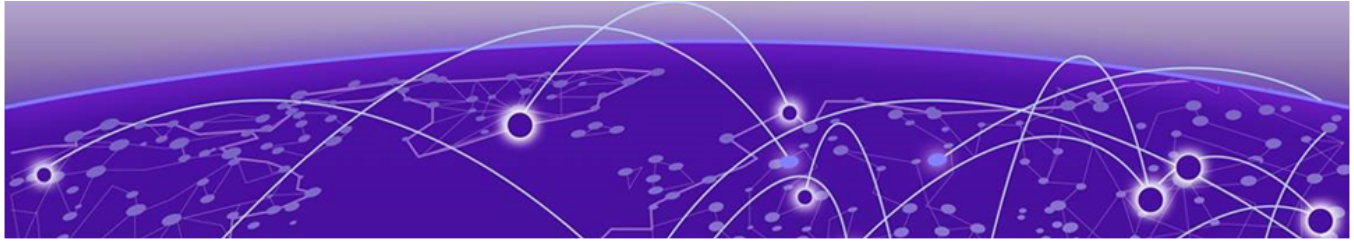
```
module:
  +--rw interface
  |   +--rw fc-port [name]
  |       +--rw name                               interface-type
  |       +--rw fc-speed-cfg?                       fc-speed-cfg-type
  |       +--rw fill-word?                          fc-fillword-cfg-type
  |       +--rw vc-link-init?                       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:<br>+ Current<br>x Deprecated<br>o Obsolete                                                                                                                            |
| status | Type of information can be one of the following values:<br>rw Read-write (The node contains configuration data)<br>-ro Read-only (The node contains operational data)<br>-x RPC statement<br>-n Notification (not supported) |
| flags  | The name of the node can be further modified by one of the following values:<br>(name) Choice node<br>:(name) Case node<br>prefix:name Augmented from external module                                                        |
| name   | The following optional values can be used:<br>? Optional leaf or presence container<br>* 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-ifttype
  |   |   |   +--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_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 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:mmminfor
|   |   +---x linecard-management:mm
|   +--rw linecard-management:slotsinfor
|   |   +---x linecard-management:slots
|   +--rw linecard-management:latch-detection-info
|   |   +---x linecard-management:show-latch-detection
|   |   |   +---w linecard-management:input
|   |   |   |   +---w linecard-management:linecard?    fusion_slotnum
|   +--rw name-server:name-server
|   |   +---x name-server:brief
|   |   +---x name-server:detail
|   |   |   +--ro name-server:output
|   |   |   |   +--ro name-server:show-nameserver* [nameserver-portid]
|   |   |   |   |   +--ro name-server:nameserver-portid        nameserver-portid-
type
|   |   |   |   |   +--ro name-server:nameserver-portname?     common-def: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: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)?                                   |                           |
|      |  |  |  |  | +++rw (ca-ebgp-multihop-flag)                                    |                           |
|      |  |  |  |  | +++rw bgp:ebgp-multihop-flag?                                    | empty                     |
|      |  |  |  |  | +++rw (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)?                                          |                           |
|      |  |  |  |  | +++rw (ca-maxas-limit-enable)                                    |                           |
|      |  |  |  |  | +++rw bgp:num-as-in-as-path?                                     | num-as-in-as-path         |
|      |  |  |  |  | +++rw (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)?                                        |                           |
|      |  |  |  |  | +++rw (ca-ipv6)                                                  |                           |
|      |  |  |  |  | +++rw bgp:sip-ipv6-address?                                      | sip-ipv6-address          |
|      |  |  |  |  | +++rw (ca-eth)                                                   |                           |
|      |  |  |  |  | +++rw bgp:ethernet-interface                                     |                           |
|      |  |  |  |  | +++rw bgp:interface-type?                                        | enumeration               |
|      |  |  |  |  | +++rw bgp:interface-name?                                        | update-source-ethernet-   |
| type |  |  |  |  | +++rw (ca-loopback)                                              |                           |
|      |  |  |  |  | +++rw bgp:loopback?                                              | loopback-interface        |
|      |  |  |  |  | +++rw (ca-ve)                                                    |                           |
|      |  |  |  |  | +++rw bgp:ve-interface?                                          | interface:ve-type         |
|      |  |  |  |  | +++rw bgp:description?                                           | neighbor-description      |
|      |  |  |  |  | +++rw bgp:local-as                                               |                           |
|      |  |  |  |  | +++rw bgp:local-as-value?                                        | local-as-num              |
|      |  |  |  |  | +++rw bgp:no-prepend?                                            | empty                     |
|      |  |  |  |  | +++rw bgp:next-hop-self                                          |                           |
|      |  |  |  |  | +++rw (ch-next-hop-self-type)?                                   |                           |

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

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|                |  |  |  |  |  |                                                     |                    |
|----------------|--|--|--|--|--|-----------------------------------------------------|--------------------|
|                |  |  |  |  |  | +--rw bgp:maximum-paths                             |                    |
|                |  |  |  |  |  | +--rw bgp:load-sharing-value?                       | uint32             |
|                |  |  |  |  |  | +--rw bgp:ebgp?                                     | ebgp-paths         |
|                |  |  |  |  |  | +--rw bgp:ibgp?                                     | ibgp-paths         |
|                |  |  |  |  |  | +--rw bgp:use-load-sharing?                         | empty              |
|                |  |  |  |  |  | +--rw bgp:multipath                                 |                    |
|                |  |  |  |  |  | +--rw bgp:multipath_ebgp?                           | empty              |
|                |  |  |  |  |  | +--rw bgp:multipath_ibgp?                           | empty              |
|                |  |  |  |  |  | +--rw bgp:multi-as?                                 | empty              |
|                |  |  |  |  |  | +--rw bgp:always-propagate?                         | empty              |
|                |  |  |  |  |  | +--rw bgp:default-information-originate?            | empty              |
|                |  |  |  |  |  | +--rw bgp:rib-route-limit?                          | rib-route-number   |
|                |  |  |  |  |  | +--rw bgp:client-to-client-reflection?              | empty              |
|                |  |  |  |  |  | +--rw bgp:dampening                                 |                    |
|                |  |  |  |  |  | +--rw (ch-dampening-source)?                        |                    |
|                |  |  |  |  |  | +--:(ca-dampening-flag)                             |                    |
|                |  |  |  |  |  | +--rw bgp:dampening-flag?                           | empty              |
|                |  |  |  |  |  | +--:(ca-dampening-specify-values)                   |                    |
|                |  |  |  |  |  | +--rw bgp:values                                    |                    |
|                |  |  |  |  |  | +--rw bgp:half-time?                                | htime              |
|                |  |  |  |  |  | +--rw bgp:reuse-value?                              | damp-reuse-value   |
|                |  |  |  |  |  | +--rw bgp:start-suppress-time?                      | damp-start-        |
| suppress-value |  |  |  |  |  | +--rw bgp:max-suppress-time?                        | damp-max-suppress- |
| value          |  |  |  |  |  | +--:(ca-dampening-route-map)                        |                    |
|                |  |  |  |  |  | +--rw bgp:dampening-route-map?                      | rmap-type          |
|                |  |  |  |  |  | +--rw bgp:default-metric?                           | default-metric-    |
| number         |  |  |  |  |  | +--rw bgp:next-hop-enable-default?                  | empty              |
|                |  |  |  |  |  | +--rw bgp:table-map                                 |                    |
|                |  |  |  |  |  | +--rw bgp:table-map-route-map?                      | rmap-type          |
|                |  |  |  |  |  | +--rw bgp:update-time?                              | update-time-type   |
|                |  |  |  |  |  | +--rw bgp:graceful-restart                          |                    |
|                |  |  |  |  |  | +--rw bgp:graceful-restart-status?                  | empty              |
|                |  |  |  |  |  | +--rw bgp:restart-time?                             | rtime-type         |
|                |  |  |  |  |  | +--rw bgp:purge-time?                               | ptime-type         |
|                |  |  |  |  |  | +--rw bgp:stale-routes-time?                        | st-time-type       |
|                |  |  |  |  |  | +--rw bgp:next-hop-recursion?                       | empty              |
|                |  |  |  |  |  | +--rw bgp:next-hop-mps!                             |                    |
|                |  |  |  |  |  | +--rw (ch-compare-lsp-follow-igp)?                  |                    |
|                |  |  |  |  |  | +--:(ca-compares-lsp-metric)                        |                    |
|                |  |  |  |  |  | +--rw bgp:compare-lsp-metric?                       | empty              |
|                |  |  |  |  |  | +--:(ca-follow-igp)                                 |                    |
|                |  |  |  |  |  | +--rw bgp:follow-igp?                               | empty              |
|                |  |  |  |  |  | +--rw bgp:af-vrf* [af-vrf-name]                     |                    |
|                |  |  |  |  |  | +--rw bgp:af-vrf-name                               | string             |
|                |  |  |  |  |  | +--rw bgp:local-as?                                 | local-as-          |
| type           |  |  |  |  |  | +--rw bgp:masas-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        |

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| | | | | +---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

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|               |  |  |  |  |                                         |                      |
|---------------|--|--|--|--|-----------------------------------------|----------------------|
|               |  |  |  |  | +++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                     |                      |

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| | | | | +--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

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|               |  |  |  |  |  |                                          |                      |
|---------------|--|--|--|--|--|------------------------------------------|----------------------|
| 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:vpn4

```

```

| | | | +--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-ptp-disable?    empty
| | | | | +---rw isis:hello-padding-disable?    empty
| | +---rw isis:hostname
| | | +---rw isis:hostname-disable?    empty
| | +---rw isis:is-type?    enumeration
| | +---rw isis:log
| | | +---rw isis:adjacency?    empty
| | | +---rw isis:invalid-lsp-packets?    empty
| | +---rw isis:lsp-gen-interval?    uint32
| | +---rw isis:lsp-interval?    uint32
| | +---rw isis:lsp-refresh-interval?    uint32
| | +---rw isis:max-lsp-lifetime?    uint32
| | +---rw isis:nonstop-routing?    empty
| | +---rw isis:partial-spf-interval
| | | +---rw isis:pspf-max-hold-time?    uint32
| | | +---rw isis:pspf-init-delay?    uint32
| | | +---rw isis:pspf-hold-time?    uint32
| | +---rw isis:retransmit-interval?    uint32
| | +---rw isis:set-debug
| | | +---rw isis:nsr?    empty
| | +---rw isis:set-overload-bit!
| | | +---rw isis:on-startup
| | | | +---rw (ch-on-startup)?
| | | | | +--- (ca-on-startup)
| | | | | | +---rw isis:on-startup-overloadtime?    uint32
| | | | | | +--- (ca-on-startup-wfbgp)
| | | | | | +---rw isis:wait-for-bgp!
| | | | | | +---rw isis:wait-for-bgp-value?    uint32
| | +---rw isis:spf-interval* [spf-interval-level]
| | | +---rw isis:spf-interval-level    enumeration
| | | | +---rw isis:spf-interval-max-hold-time?    uint32
| | | | +---rw isis:spf-interval-initial-delay?    uint32
| | | | +---rw isis:spf-interval-hold-time?    uint32
| | +---rw isis:reverse-metric!
| | | +---rw isis:reverse_metric_tlv
| | | | +---rw isis:rev-metric-tlv-type?    uint16

```

```

| | | | | +--rw isis:rev-metric-common-attributes
| | | | | +--rw isis:rev-metric-val? uint32
| | | | | +--rw isis:rev-metric-whole-lan? empty
| | | | | +--rw isis:rev-metric-te-def-metric? empty
| | | +--rw isis:address-family
| | | | +--rw isis:ipv4
| | | | | +--rw isis:af-ipv4-unicast!
| | | | | +--rw isis:af-ipv4-attributes
| | | | | | +--rw isis:metric-style
| | | | | | | +--rw isis:wide
| | | | | | | | +--rw isis:metric-style-wide-level1? empty
| | | | | | | | +--rw isis:metric-style-wide-level2? empty
| | | | | +--rw isis:summary-address* [summary-ip summary-ip-mask]
| | | | | | +--rw isis:summary-ip inet:ipv4-address
| | | | | | +--rw isis:summary-ip-mask inet:ipv4-address
| | | | | | +--rw isis:summary-ip-level1? empty
| | | | | | +--rw isis:summary-ip-level2? empty
| | | | | +--rw isis:ldp-sync!
| | | | | | +--rw isis:ldp-sync-hold-down? uint32
| | | | | +--rw isis:default-link-metric
| | | | | | +--rw isis:default-link-metric-level1? uint32
| | | | | | +--rw isis:default-link-metric-level2? uint32
| | | | +--rw isis:af-common-attributes
| | | | | +--rw isis:default-information-originate!
| | | | | | +--rw isis:default-information-originate-route-map?
string | | | | | +--rw isis:default-metric? uint32
| | | | | +--rw isis:distance? uint32
| | | | | +--rw isis:maximum-paths? uint32
| | | | | +--rw isis:redistribute
| | | | | | +--rw isis:connected!
| | | | | | | +--rw isis:connected-metric? conn-metric
| | | | | | | +--rw isis:connected-route-map? rmap-type
| | | | | | | +--rw (ch-connected-levels)?
| | | | | | | | +--:(ca-connected-level1)
| | | | | | | | | +--rw isis:connected-level1? empty
| | | | | | | | +--:(ca-connected-level2)
| | | | | | | | | +--rw isis:connected-level2? empty
| | | | | | | | +--:(ca-connected-level12)
| | | | | | | | | +--rw isis:connected-level12? empty
| | | | | | | +--rw isis:connected-metric-type? is-metric-type-t
| | | | | +--rw isis:ospf!
| | | | | | +--rw isis:match
| | | | | | | +--rw isis:ospf-internal? empty
| | | | | | | +--rw isis:ospf-external1? empty
| | | | | | | +--rw isis:ospf-external2? empty
| | | | | | | +--rw isis:ospf-metric? conn-metric
| | | | | | | +--rw isis:ospf-route-map? rmap-type
| | | | | | | +--rw (ch-ospf-levels)?
| | | | | | | | +--:(ca-ospf-level1)
| | | | | | | | | +--rw isis:ospf-level1? empty
| | | | | | | | +--:(ca-ospf-level2)
| | | | | | | | | +--rw isis:ospf-level2? empty
| | | | | | | | +--:(ca-ospf-level12)
| | | | | | | | | +--rw isis:ospf-level12? empty
| | | | | | | +--rw isis:ospf-metric-type? is-metric-type-t
| | | | | +--rw isis:static!
| | | | | | +--rw isis:static-metric? conn-metric
| | | | | | +--rw isis:static-route-map? rmap-type
| | | | | | +--rw (ch-static-levels)?
| | | | | | | +--:(ca-static-level1)
| | | | | | | | +--rw isis:static-level1? empty
| | | | | | | +--:(ca-static-level2)
| | | | | | | | +--rw isis:static-level2? empty

```

|          |  |       |  |  |                                                      |                          |
|----------|--|-------|--|--|------------------------------------------------------|--------------------------|
|          |  |       |  |  | +--:(ca-static-levell2)                              |                          |
|          |  |       |  |  | +---rw isis:static-levell2?                          | 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-bgpp-levels)?                             |                          |
|          |  |       |  |  | +---:(ca-bgpp-levell1)                               |                          |
|          |  |       |  |  | +---rw isis:bgpp-levell1?                            | empty                    |
|          |  |       |  |  | +---:(ca-bgpp-levell2)                               |                          |
|          |  |       |  |  | +---rw isis:bgpp-levell2?                            | empty                    |
|          |  |       |  |  | +---:(ca-bgpp-levell12)                              |                          |
|          |  |       |  |  | +---rw isis:bgpp-levell12?                           | empty                    |
|          |  |       |  |  | +---rw isis:bgpp-metric-type?                        | is-metric-type-t         |
|          |  |       |  |  | +--rw isis:isis                                      |                          |
|          |  |       |  |  | +---rw isis:level-1                                  |                          |
|          |  |       |  |  | +---rw isis:into                                     |                          |
|          |  |       |  |  | +---rw isis:levell1-into-level2                      |                          |
|          |  |       |  |  | +---rw (ch-prefix-list-levell1-disable)?             |                          |
|          |  |       |  |  | +---:(ca-prefix-list-levell1)                        |                          |
|          |  |       |  |  | +---rw isis:prefix-list-                             |                          |
| levell1? |  |       |  |  | +---:(ca-levell1-into-level2-disable)                |                          |
|          |  |       |  |  | +---rw isis:levell1-into-level2-                     |                          |
| disable? |  | empty |  |  |                                                      |                          |
|          |  |       |  |  | +---rw isis:level-2                                  |                          |
|          |  |       |  |  | +---rw isis:into                                     |                          |
|          |  |       |  |  | +---rw isis:level2-into-levell1!                     |                          |
|          |  |       |  |  | +---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:ipvp-address- |
|          |  |       |  |  | +---rw isis:summary-prefix-levell1?                  | empty                    |
|          |  |       |  |  | +---rw isis:summary-prefix-level2?                   | empty                    |
|          |  |       |  |  | +--rw isis:ipvp-default-link-metric                  |                          |
|          |  |       |  |  | +---rw isis:ipvp-default-link-metric-levell1?        | uint32                   |
|          |  |       |  |  | +---rw isis:ipvp-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!           |                          |
| string   |  |       |  |  | +---rw isis:default-information-originate-route-map? |                          |
|          |  |       |  |  | +---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!
| | | | | +--rw ospfv3:area-default-information-originate-metric?
uint32
| | | | | +--rw ospfv3:area-default-information-originate-metric-type?
ospf:metric-type
| | | | | +--rw ospfv3:no-redistribution? empty
| | | | | +--rw ospfv3:nssa-area-no-summary? empty
| | | | | +--rw ospfv3:translator-always? empty
| | | | | +--rw ospfv3:translator-interval? common-def:time-
interval-sec
| | | | | +--rw ospfv3:stub
| | | | | +--rw ospfv3:stub-area-no-summary? empty
| | | | | +--rw ospfv3:stub-area-metric? uint32
| | | | | +--rw ospfv3:authentication
| | | | | +--rw ospfv3:ipsec-auth-key-config
| | | | | +--rw ospfv3:spi? spi-value-type
| | | | | +--rw (ch-algorithm)?
| | | | | +--:(ca-ah-algorithm)
| | | | | | +--rw ospfv3:ah? algorithm-type-ah
| | | | | | +--rw ospfv3:ah-key? ipsec-authentication-hexkey-
string
| | | | | +--:(ca-esp-algorithm)
| | | | | +--rw ospfv3:esp? algorithm-type-esp
| | | | | +--rw ospfv3:esp-auth? algorithm-type-ah
| | | | | +--rw ospfv3:esp-auth-key? ipsec-authentication-hexkey-
string
| | | | | +--rw ospfv3:virtual-link* [virtual-link-neighbor]
| | | | | +--rw ospfv3:virtual-link-neighbor inet:ipv4-address
| | | | | +--rw ospfv3:link-properties
| | | | | +--rw ospfv3:link-interval-properties
| | | | | +--rw ospfv3:hello-interval? common-def:time-interval-
sec
| | | | | +--rw ospfv3:dead-interval? common-def:time-interval-
sec
| | | | | +--rw ospfv3:hello-jitter? uint32
| | | | | +--rw ospfv3:retransmit-interval? common-def:time-interval-
sec
| | | | | +--rw ospfv3:transmit-delay? common-def:time-interval-
sec
| | | | | +--rw ospfv3:area-range* [range-address]
| | | | | +--rw ospfv3:range-address inet:ipv6-prefix
| | | | | +--rw ospfv3:range-effect? enumeration
| | | | | +--rw ospfv3:range-cost? ospf:range-metric
| | | | | +--rw ospfv3:auto-cost
| | | | | +--rw ospfv3:reference-bandwidth? ospf:band-width
| | | | | +--rw ospfv3:database-overflow-interval? common-def:time-
interval-sec
| | | | | +--rw ospfv3:global-default-information-originate!
| | | | | +--rw ospfv3:global-default-information-originate-always? empty
| | | | | +--rw ospfv3:global-default-information-originate-metric? uint32
| | | | | +--rw ospfv3:global-default-information-originate-metric-type?
ospf:metric-type
| | | | | +--rw ospfv3:default-metric? uint32
| | | | | +--rw ospfv3:default-passive-interface? empty
| | | | | +--rw ospfv3:distance* [route-type]
| | | | | | +--rw ospfv3:route-type ospf:route-type-enum
| | | | | | +--rw ospfv3:distance-value? uint32
| | | | | +--rw ospfv3:distribute-list
| | | | | +--rw ospfv3:route-map
| | | | | | +--rw ospfv3:distribute-list-route-map-name? common-def:name-
string63
| | | | | +--rw ospfv3:distribute-list-route-map-in? empty
| | | | | +--rw ospfv3:prefix-list

```

```

| | | +--rw ospfv3:distribute-list-prefix-list-name? common-def:name-
string63
| | | +--rw ospfv3:distribute-list-prefix-list-in? empty
| | | +--rw ospfv3:external-lsdb-limit? uint32
| | | +--rw ospfv3:graceful-restart
| | | | +--rw ospfv3:helper
| | | | +--rw ospfv3:graceful-restart-helper-disable? empty
| | | | +--rw ospfv3:graceful-restart-helper-strict-lsa-checking? empty
| | | +--rw ospfv3:key-add-remove-interval? common-def:time-
interval-sec
| | | +--rw ospfv3:key-rollover-interval? common-def:time-
interval-sec
| | | +--rw ospfv3:log
| | | | +--rw ospfv3:log-adjacency!
| | | | | +--rw ospfv3:log-adjacency-dr-only? empty
| | | | | +--rw ospfv3:log-all? empty
| | | | | +--rw ospfv3:log-bad-packet!
| | | | | +--rw ospfv3:log-bad-packet-checksum? empty
| | | | +--rw ospfv3:log-database? empty
| | | | +--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!

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| | | +--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)?                                               |  |
|              |  |  |  |  | +++rw (ca-no-advertise)                                              |  |
|              |  |  |  |  | +++rw ipv6-nd-ra:no-advertise? empty                                 |  |
|              |  |  |  |  | +++rw (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 vrrp:ipv6-anycast-address* [ipv6-address]
| | | | | | | +--rw vrrp:ipv6-address union
| | | | | | +--rw vrrp:ipv6-vrrp-extended
| | | | | | | +--rw vrrp:auth-type
| | | | | | | | +--rw vrrp:md5-auth
| | | | | | | | | +--rw vrrp:auth-data? string
| | | | | | +--rw 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* [vrid]
| | | | | | | +--rw vrrpv3:vrid vrid-type
| | | | | | | +--rw vrrpv3:use-v2-checksum? empty
| | | | | | | +--rw vrrpv3:virtual-ip* [virtual-ipaddr]
| | | | | | | | +--rw vrrpv3:virtual-ipaddr inet:ipv6-address
| | | | | | | +--rw vrrpv3:track
| | | | | | | | +--rw vrrpv3:interface* [interface-type interface-name]
| | | | | | | | | +--rw vrrpv3:interface-type track-iftype
| | | | | | | | | +--rw vrrpv3:interface-name track-ifname
| | | | | | | | | +--rw vrrpv3:track-priority? uint8
| | | | | | | +--rw vrrpv3:advertisement-interval? uint32
| | | | | | | +--rw vrrpv3:enable? empty
| | | | | | | +--rw vrrpv3:hold-time? uint32
| | | | | | | +--rw vrrpv3:preempt-mode? empty
| | | | | | | +--rw vrrpv3:priority? uint8
| | | | | | | +--rw vrrpv3:description? string
| | | | | | +--rw vrrpv3:vrrpv3e* [vrid]
| | | | | | | +--rw vrrpv3:vrid vrpe-vrid-type
| | | | | | | +--rw vrrpv3:virtual-mac? enumeration
| | | | | | | +--rw vrrpv3:virtual-ip* [virtual-ipaddr]
| | | | | | | | +--rw vrrpv3:virtual-ipaddr inet:ipv6-address

```

```

| | | +--rw vrrpv3:track
| | | | +--rw vrrpv3:network* [network-address]
| | | | | +--rw vrrpv3:network-address common-def:ipv6-address-prefix
| | | | | +--rw vrrpv3:network-priority? uint8
| | | | +--rw vrrpv3:interface* [interface-type interface-name]
| | | | | +--rw vrrpv3:interface-type track-iftype
| | | | | +--rw vrrpv3:interface-name track-ifname
| | | | +--rw vrrpv3:track-priority? uint8
| | | +--rw vrrpv3:enable? empty
| | | +--rw vrrpv3:hold-time? uint32
| | | +--rw vrrpv3:preempt-mode? empty
| | | +--rw vrrpv3:priority? uint8
| | | +--rw vrrpv3:description? string
| | | +--rw vrrpv3:advertise-backup? empty
| | | +--rw vrrpv3:nd-advertisement-timer? uint32
| | | +--rw vrrpv3:advertisement-interval-scale? uint32
| | | +--rw vrrpv3:backup-advertisement-interval? uint32
| | | +--rw vrrpv3:vrrpe-advertisement-interval? uint32
| | | +--rw vrrpv3:short-path-forwarding
| | | | +--rw vrrpv3:basic? empty
| | | | +--rw vrrpv3:revert-priority? uint8
| | +--rw ip-access-list:ip-acl-interface
| | | +--rw ip-access-list:ip
| | | | +--rw ip-access-list:access-group* [ip-access-list ip-direction]
| | | | | +--rw ip-access-list:ip-access-list l3-acl-policy-name
| | | | | +--rw ip-access-list:ip-direction enumeration
| | | | | +--rw ip-access-list:traffic-type? enumeration
| | +--rw ip-policy:ip-pbr-interface
| | | +--rw ip-policy:ip
| | | | +--rw ip-policy:policy
| | | | | +--rw ip-policy:route-map
| | | | | +--rw ip-policy:route-map-name? common-def:name-string63
| | +--rw isis:intf-isis!
| | | +--rw isis:interface-isis
| | | | +--rw isis:auth-check
| | | | | +--rw isis:auth-check-level1
| | | | | | +--rw isis:interface-auth-check-level1-disable? empty
| | | | | +--rw isis:auth-check-level2
| | | | | | +--rw isis:interface-auth-check-level2-disable? empty
| | | | +--rw isis:interface-reverse-metric!
| | | | | +--rw isis:rev-metric-common-attributes
| | | | | | +--rw isis:rev-metric-val? uint32
| | | | | | +--rw isis:rev-metric-whole-lan? empty
| | | | | | +--rw isis:rev-metric-te-def-metric? empty
| | | | +--rw isis:interface-auth-mode
| | | | | +--rw isis:interface-md5
| | | | | | +--rw isis:interface-auth-mode-md5-level1? empty
| | | | | | +--rw isis:interface-auth-mode-md5-level2? empty
| | | | +--rw isis:interface-auth-key* [interface-auth-key-level]
| | | | | +--rw isis:interface-auth-key-level enumeration
| | | | | +--rw isis:interface-auth-key-str? string
| | | +--rw isis:interface-hello
| | | | +--rw isis:interface-hello-padding
| | | | | +--rw isis:interface-hello-padding-disable? empty
| | | +--rw isis:interface-hello-interval* [interface-hello-interval-level]
| | | | +--rw isis:interface-hello-interval-level enumeration
| | | | +--rw isis:interface-hello-interval-val? uint32
| | | +--rw isis:interface-hello-multiplier* [interface-hello-multiplier-
level]
| | | | +--rw isis:interface-hello-multiplier-level enumeration
| | | | +--rw isis:interface-hello-multiplier-val? uint32
| | | +--rw isis:circuit-type? enumeration
| | | +--rw isis:interface-ipv6
| | | | +--rw isis:interface-ipv6-metric* [interface-ipv6-metric-level]

```

```

| | | | +--rw isis:interface-ipv6-metric-level enumeration
| | | | +--rw isis:interface-ipv6-metric-val? uint32
| | | | +--rw isis:interface-metric* [interface-metric-level]
| | | | | +--rw isis:interface-metric-level enumeration
| | | | | +--rw isis:interface-metric-val? uint32
| | | | +--rw isis:interface-point-to-point? empty
| | | | +--rw isis:interface-passive? empty
| | | | +--rw isis:interface-priority
| | | | | +--rw isis:interface-priority-level1? uint32
| | | | | +--rw isis:interface-priority-level2? uint32
| | | | +--rw isis:interface-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

```

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| | | +--rw qos-mls:dscp-mutation?      map-name-type
| | | +--rw qos-mls:dscp-traffic-class?  map-name-type
| | +--rw rpf:rpf
| |   +--rw rpf:mode?  enumeration
+--rw intf-loopback:loopback* [id]
|   +--rw intf-loopback:id          intf-loopback-port-type
|   +--rw intf-loopback:vrf
|   | +--rw intf-loopback:forwarding?  common-def:vrf-name
+--rw intf-loopback:shutdown?  empty
+--rw ip-config:ip
|   +--rw ip-config:ip-config
|   |   +--rw ip-config:address* [address]
|   |   |   +--rw ip-config:address  union
|   |   +--rw isis:intf-router-isis
|   |   |   +--rw isis:int-router-isis
|   |   |   |   +--rw isis:interface-ip-router-isis?  empty
+--rw ospf:interface-loopback-ospf-conf
|   |   +--rw ospf:ospf1
|   |   |   +--rw ospf:area?          ospf-area-id
|   |   |   +--rw ospf:auth-change-wait-time?  common-def:time-interval-sec
|   |   |   +--rw ospf:authentication-key
|   |   |   |   +--rw ospf:no-encrypt-auth-key-table
|   |   |   |   |   +--rw ospf:no-encrypt-auth-key?  ospf-auth-psswd-string
|   |   |   |   +--rw ospf:hello-interval?          common-def:time-interval-sec
|   |   |   |   +--rw ospf:dead-interval?           common-def:time-interval-sec
|   |   |   |   +--rw ospf:retransmit-interval?      common-def:time-interval-sec
|   |   |   |   +--rw ospf:transmit-delay?           common-def:time-interval-sec
|   |   |   +--rw ospf:md5-authentication
|   |   |   |   +--rw ospf:key-activation-wait-time?  common-def:time-interval-
sec
|   |   |   |   |   +--rw ospf:key-table
|   |   |   |   |   |   +--rw ospf:key-id?          uint32
|   |   |   |   |   |   +--rw ospf:md5-authentication-key?  ospf-auth-psswd-string
|   |   |   |   |   +--rw ospf:cost?          uint32
|   |   |   |   +--rw ospf:network?          enumeration
|   |   |   +--rw ospf:intf-ldp-sync?          enumeration
|   |   +--rw ospf:database-filter
|   |   |   +--rw ospf:all-out?          empty
|   |   |   +--rw ospf:all-external?      database-filter-options
|   |   |   |   +--rw ospf:all-summary-external?  database-filter-options
|   |   +--rw ospf:mtu-ignore?          empty
|   |   +--rw ospf:active?              empty
|   |   +--rw ospf:passive?             empty
|   |   +--rw ospf:priority?            uint32
|   |   +--rw ospf:bfd
|   |   |   +--rw ospf:intf-bfd-enable?  empty
+--rw pim:pim-intf-loopback-cont
|   +--rw pim:pim-int-cmd
|   |   +--rw pim:pim-sparse?  empty
|   +--rw pim:pim
|   |   +--rw pim:dr-priority?  uint32
|   |   +--rw pim:ttl-threshold?  uint32
+--rw ipv6-config:ipv6
|   +--rw ipv6-config:ipv6-config
|   |   +--rw ipv6-config:address
|   |   |   +--rw ipv6-config:use-link-local-only?  empty
|   |   |   +--rw ipv6-config:link-local-config
|   |   |   |   +--rw ipv6-config:link-local-address?  inet:ipv6-address
|   |   |   |   |   +--rw ipv6-config:link-local?      empty
|   |   |   +--rw ipv6-config:ipv6-address* [address]
|   |   |   |   +--rw ipv6-config:address  union
|   |   |   |   +--rw ipv6-config:eui64?  empty
|   |   |   +--rw ipv6-config:anycast?  empty
|   +--rw isis:intf-ipv6-router-isis

```

```

| | | +--rw isis:int-ipv6-router-isis
| | | | +--rw isis:interface-ipv6-router-isis? empty
| | +--rw ospfv3:interface-ospfv3-conf
| | | +--rw ospfv3:interface-area? ospf:ospf-area-id
| | | +--rw ospfv3:active? empty
| | | +--rw ospfv3:passive? empty
| | | +--rw ospfv3:bfd
| | | | +--rw ospfv3:bfd-enable? empty
| | | +--rw ospfv3:cost? uint32
| | | +--rw ospfv3:instance? uint32
| | | +--rw ospfv3:mtu-ignore? empty
| | | +--rw ospfv3:network? enumeration
| | | +--rw ospfv3:priority? uint32
| | | +--rw ospfv3:suppress-linklsa? empty
| | | +--rw ospfv3:link-interval-properties
| | | | +--rw ospfv3:hello-interval? common-def:time-interval-sec
| | | | +--rw ospfv3:dead-interval? common-def:time-interval-sec
| | | | +--rw ospfv3:hello-jitter? uint32
| | | | +--rw ospfv3:retransmit-interval? common-def:time-interval-sec
| | | | +--rw ospfv3:transmit-delay? common-def:time-interval-sec
| +--rw isis:intf-isis!
| | +--rw isis:interface-isis
| | | +--rw isis:auth-check
| | | | +--rw isis:auth-check-level1
| | | | | +--rw isis:interface-auth-check-level1-disable? empty
| | | | +--rw isis:auth-check-level2
| | | | | +--rw isis:interface-auth-check-level2-disable? empty
| | | +--rw isis:interface-reverse-metric!
| | | | +--rw isis:rev-metric-common-attributes
| | | | | +--rw isis:rev-metric-val? uint32
| | | | | +--rw isis:rev-metric-whole-lan? empty
| | | | | +--rw isis:rev-metric-te-def-metric? empty
| | | +--rw isis:interface-auth-mode
| | | | +--rw isis:interface-md5
| | | | | +--rw isis:interface-auth-mode-md5-level1? empty
| | | | | +--rw isis:interface-auth-mode-md5-level2? empty
| | | +--rw isis:interface-auth-key* [interface-auth-key-level]
| | | | +--rw isis:interface-auth-key-level enumeration
| | | | +--rw isis:interface-auth-key-str? string
| | | +--rw isis:interface-hello
| | | | +--rw isis:interface-hello-padding
| | | | | +--rw isis:interface-hello-padding-disable? empty
| | | +--rw isis:interface-hello-interval* [interface-hello-interval-level]
| | | | +--rw isis:interface-hello-interval-level enumeration
| | | | +--rw isis:interface-hello-interval-val? uint32
| | | +--rw isis:interface-hello-multiplier* [interface-hello-multiplier-
level]
| | | | +--rw isis:interface-hello-multiplier-level enumeration
| | | | +--rw isis:interface-hello-multiplier-val? uint32
| | | +--rw isis:circuit-type? enumeration
| | | +--rw isis:interface-ipv6
| | | | +--rw isis:interface-ipv6-metric* [interface-ipv6-metric-level]
| | | | | +--rw isis:interface-ipv6-metric-level enumeration
| | | | | +--rw isis:interface-ipv6-metric-val? uint32
| | | +--rw isis:interface-metric* [interface-metric-level]
| | | | +--rw isis:interface-metric-level enumeration
| | | | +--rw isis:interface-metric-val? uint32
| | | +--rw isis:interface-point-to-point? empty
| | | +--rw isis:interface-passive? empty
| | | +--rw isis:interface-priority
| | | | +--rw isis:interface-priority-level1? uint32
| | | | +--rw isis:interface-priority-level2? uint32
| | | +--rw isis:interface-bfd
| | | | +--rw isis:interface-bfd-enable? empty

```

```

|         +---rw isis:interface-ldp-sync?          enumeration
+---rw bgp:evpn-config
|   +---rw bgp:evpn
|     +---rw bgp:evpn-instance* [instance-name]
|       +---rw bgp:instance-name          evpn-type
|       +---rw bgp:route-target
|         | +---rw bgp:both* [target-community]
|         | | +---rw bgp:target-community    rt-type
|         | | +---rw bgp:ignore-as?         empty
|         | +---rw bgp:export* [target-community]
|         | | +---rw bgp:target-community    rt-type
|         | +---rw bgp:import* [target-community]
|         |   +---rw bgp:target-community    rt-type
|         |   +---rw bgp:ignore-as?         empty
|       +---rw bgp:route-distinguisher
|         +---rw (ch-rd-type)?
|           +---: (ca-rd-auto)
|             +---rw bgp:auto?      empty
|       +---rw bgp:duplicate-mac-timer
|         +---rw bgp:duplicate-mac-timer-value?  dup-mac-timer
|         +---rw bgp:max-count?                max-count
|       +---rw bgp:bridge-domain
|         +---rw bgp:bd-add
|           | +---rw bgp:bd-range-add?          bridge-domain:ui32-bridge-domain-range
|           | +---rw bgp:bd-range-remove?       bridge-domain:ui32-bridge-domain-range
|         +---rw bgp:evpn-bd* [bd-number]
|           +---rw bgp:bd-number                bridge-domain:bridge-domain-id-type
|           +---rw bgp:rd?                      rd-type
|           +---rw bgp:route-target
|             +---rw bgp:import* [target-community]
|             | +---rw bgp:target-community    rd-rt-type
|             +---rw bgp:export* [target-community]
|             | +---rw bgp:target-community    rd-rt-type
|             +---rw bgp:both* [target-community]
|             +---rw bgp:target-community    rd-rt-type
|       +---rw bgp:vlan
|         +---rw bgp:vlan-add
|           | +---rw bgp:add?          interface:ui32-vlan-range
|           | +---rw bgp:remove?       interface:ui32-vlan-range
|         +---rw bgp:evpn-vlan* [vlan-number]
|           +---rw bgp:vlan-number      interface:vlan-type
|           +---rw bgp:rd?              rd-type
|           +---rw bgp:route-target
|             +---rw bgp:import* [target-community]
|             | +---rw bgp:target-community    rd-rt-type
|             +---rw bgp:export* [target-community]
|             | +---rw bgp:target-community    rd-rt-type
|             +---rw bgp:both* [target-community]
|             +---rw bgp:target-community    rd-rt-type
+---rw ip-policy:route-map* [name action-rm instance]
+---rw ip-policy:name          common-def:name-string63
+---rw ip-policy:action-rm      action-t
+---rw ip-policy:instance       instance-id-t
+---rw ip-policy:content
+---rw ip-policy:match
|   +---rw ip-policy:vrf?          common-def:vrf-name
|   +---rw ip-policy:additional-paths
|     | +---rw ip-policy:advertise-set
|     | | +---rw ip-policy:all?      empty
|     | | +---rw ip-policy:best?     uint32
|     | | +---rw ip-policy:best-range
|     | | | +---rw ip-policy:range-start?  uint32
|     | | | +---rw ip-policy:range-end?    uint32
|     | | +---rw ip-policy:group-best?     empty

```

```

| +--rw ip-policy:interface
| | +--rw ip-policy:ethernet-rmm*   interface:interface-type
| | +--rw ip-policy:loopback*      loopback-intf:intf-loopback-port-type
| | +--rw ip-policy:ve*            interface:ve-type
| +--rw ip-policy:ipv6
| | +--rw ip-policy:address
| | | +--rw ip-policy:ipv6-prefix-list-rmm?   ipv6-prefix-name-t
| | | +--rw ip-policy:ipv6-acl-rmm?           ipv6-access-list:ipv6-l3-acl-
policy-name
| | +--rw ip-policy:next-hop
| | | +--rw ip-policy:ipv6-prefix-list-rmm-n?   ipv6-prefix-name-t
| | +--rw ip-policy:route-source
| | | +--rw ip-policy:ipv6-prefix-list-rmrs?    string
| +--rw ip-policy:ip
| | +--rw ip-policy:address
| | | +--rw ip-policy:prefix-list-rmm?   ip-prefix-name-t
| | | +--rw ip-policy:acl-rmm?           ip-access-list:l3-acl-policy-name
| | +--rw ip-policy:next-hop
| | | +--rw ip-policy:prefix-list-rmm-n?   ip-prefix-name-t
| | +--rw ip-policy:route-source
| | | +--rw ip-policy:prefix-list-rmrs?    string
| +--rw ip-policy:extcommunity
| | +--rw ip-policy:extcommunity-name?   ip-extcommunity-list-name-t
| +--rw ip-policy:metric
| | +--rw ip-policy:metric-rmm?   metric-t
| +--rw ip-policy:route-type
| | +--rw ip-policy:route-type-rmm?   match-route-type-t
| +--rw ip-policy:tag
| | +--rw ip-policy:tag-rmm*   tag-t
| +--rw ip-policy:as-path
| | +--rw ip-policy:as-path-access-list-name?   ip-as-path-name-t
| +--rw ip-policy:community
| | +--rw ip-policy:community-access-list-name?   match-community-list-name-
t

| +--rw ip-policy:protocol
| | +--rw ip-policy:protocol-static-container
| | | +--rw ip-policy:static?   empty
| | +--rw ip-policy:bgp-protocol-container
| | | +--rw ip-policy:protocol-bgp?   empty
| | | +--rw ip-policy:bgp-route-type?   enumeration
| | +--rw ip-policy:isis-protocol-container
| | | +--rw ip-policy:protocol-isis?   empty
| | | +--rw ip-policy:match-isis-level?   enumeration
| | +--rw ip-policy:ospf-protocol-container
| | | +--rw ip-policy:protocol-ospf?   empty
| | | +--rw ip-policy:ospf-route-type?   enumeration
+--rw ip-policy:set
| +--rw ip-policy:level
| | +--rw ip-policy:set-isis-level?   enumeration
| +--rw ip-policy:ip
| | +--rw ip-policy:dscp
| | | +--rw ip-policy:dscp-rms?   dscp-precedence
| | +--rw ip-policy:interface
| | | +--rw ip-policy:null0?   empty
| | +--rw ip-policy:next-hop
| | | +--rw ip-policy:peer-address?   empty
| | | +--rw ip-policy:next-hop-list* [next-hop-addr]
| | | +--rw ip-policy:next-hop-addr   inet:ipv4-address
| | +--rw ip-policy:global
| | | +--rw ip-policy:next-global-hop* [next-hop]
| | | +--rw ip-policy:next-hop   inet:ipv4-address
| | +--rw ip-policy:next-vrf
| | | +--rw ip-policy:next-vrf-list* [vrf next-hop]
| | +--rw ip-policy:vrf   string

```

```

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

```

## 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.                                                                         |
| prbtest            | 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
| | | | +--:(fibrenchannel)
| | | | +---w fibrenchannel?  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-readiness-test-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:qmr-t-type
    | | | |   +--rw igmp:igmpl3-immediate-leave?  empty
    | | | |   +--rw igmp:igmpl3-version?  uint32
    | | | |   +--rw igmp:igmpl3-static-group [igmpl3-sg-addr]
    | | | |     +--rw igmp:igmpl3-sg-addr  inet:ipv4-address
```

## 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
  |   |   +--rw long-distance-is1?
  |   |   +--rw loopback?
  |   |   +--rw speed?
  |   |   +--rw fec
  |   |   |   +--rw fec-mode?    fec-mode-type
  |   |   +--ro ifindex?
  |   |   +--rw description?
  |   |   +--rw shutdown?
  |   |   +--rw channel-group
  |   |   |   +--rw port-int?    portchannel-type
  |   |   |   +--rw mode?        po-mode
  |   |   |   +--rw type?        po-type
  |   |   +--rw mtu?
  |   |   +--rw route-only?
  |   |   +--rw tag-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:ospf1
| | | | | +--rw ospf:area?                    ospf-area-id
| | | | | +--rw ospf:auth-change-wait-time?    common-def:time-interval-sec
| | | | | +--rw ospf:authentication-key
| | | | | | +--rw ospf:no-encrypt-auth-key-table
| | | | | | +--rw ospf:no-encrypt-auth-key?    ospf-auth-psswd-string
| | | | | +--rw ospf:hello-interval?          common-def:time-interval-sec

```

```

| | | | +--rw ospf:dead-interval?          common-def:time-interval-sec
| | | | +--rw ospf:retransmit-interval?     common-def:time-interval-sec
| | | | +--rw ospf:transmit-delay?          common-def:time-interval-sec
| | | | +--rw ospf:md5-authentication
| | | | | +--rw ospf:key-activation-wait-time? common-def:time-interval-sec
| | | | | +--rw ospf:key-table
| | | | | | +--rw ospf:key-id?              uint32
| | | | | | +--rw ospf:md5-authentication-key? ospf-auth-psswd-string
| | | | +--rw ospf:cost?                    uint32
| | | | +--rw ospf:network?                 enumeration
| | | | +--rw ospf:intf-ldp-sync?           enumeration
| | | | +--rw ospf:database-filter
| | | | | +--rw ospf:all-out?                empty
| | | | | +--rw ospf:all-external?           database-filter-options
| | | | | +--rw ospf:all-summary-external?   database-filter-options
| | | | +--rw ospf:mtu-ignore?              empty
| | | | +--rw ospf:active?                  empty
| | | | +--rw ospf:passive?                 empty
| | | | +--rw ospf:priority?                uint32
| | | | +--rw ospf:bfd
| | | | | +--rw ospf:intf-bfd-enable?        empty
| | | +--rw pim:pim-intf-phy-cont
| | | | +--rw pim:pim-int-cmd
| | | | | +--rw pim:pim-sparse?             empty
| | | | +--rw pim:pim
| | | | | +--rw pim:dr-priority?             uint32
| | | | | +--rw pim: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

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| | | +--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

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| | | | | +---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-reg?            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-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

```

```

| | | +--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

```

```

| | | +--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: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_mrouter
| | | | +--rw igmp-snooping:igmps-interface* [igmps-if-type igmps-value]
| | | | | +--rw igmp-snooping:igmps-if-type enumeration
| | | | | +--rw igmp-snooping:igmps-value string-type
| | | +--rw igmp-snooping:igmps_static-group* [igmps-mcast-address igmps-
interface igmps-if-type igmps-value]
| | | | +--rw igmp-snooping:igmps-mcast-address inet:ipv4-address

```

```

| | | +--rw igmp-snooping:igmps-interface enumeration
| | | +--rw igmp-snooping:igmps-if-type enumeration
| | | +--rw igmp-snooping:igmps-value string-type
| +--rw ipv6
| | +--rw mld-snooping:mldPIM
| | | +--rw mld-snooping:snooping
| | | | +--rw mld-snooping:vlan-pimv6-enable? empty
| | +--rw mld-snooping:mldVlan
| | | +--rw mld-snooping:snooping
| | | | +--rw mld-snooping:last-member-query-interval? 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

```

```

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

```

```

| | +--rw xstp:vlan* [id]
| | | +--rw xstp:id          uint32
| | | +--rw xstp:priority?   uint32
| | | +--rw xstp:timer-config
| | | | +--rw xstp:hello-time?   uint32
| | | | +--rw xstp:forward-delay? uint32
| | | | +--rw xstp:max-age?      uint32
| | +--rw xstp:rpvst!
| | | +--rw xstp:timer-config
| | | | +--rw xstp:hello-time?   uint32
| | | | +--rw xstp:forward-delay? uint32
| | | | +--rw xstp:max-age?      uint32
| | | +--rw xstp:description?   string
| | | +--rw xstp:bridge-priority? uint32
| | | +--rw xstp:error-disable-timeout
| | | | +--rw xstp:enable?      empty
| | | | +--rw xstp:interval?    uint32
| | | +--rw xstp:port-channel
| | | | +--rw xstp:path-cost?    enumeration
| | | +--rw xstp:shutdown?      empty
| | +--rw xstp:vlan* [id]
| | | +--rw xstp:id          uint32
| | | +--rw xstp:priority?   uint32
| | | +--rw xstp:timer-config
| | | | +--rw xstp:hello-time?   uint32
| | | | +--rw xstp:forward-delay? uint32
| | | | +--rw xstp:max-age?      uint32
| | | +--rw xstp:transmit-holdcount? uint32
| +--rw xstp:mstp!
| | +--rw xstp:timer-config
| | | +--rw xstp:hello-time?   uint32
| | | +--rw xstp:forward-delay? uint32
| | | +--rw xstp:max-age?      uint32
| | +--rw xstp:description?   string
| | +--rw xstp:bridge-priority? uint32
| | +--rw xstp:error-disable-timeout
| | | +--rw xstp:enable?      empty
| | | +--rw xstp:interval?    uint32
| | +--rw xstp:port-channel
| | | +--rw xstp:path-cost?    enumeration
| | +--rw xstp:shutdown?      empty
| | +--rw xstp:cisco-interoperability? enumeration
| +--rw xstp:instance* [id]
| | +--rw xstp:id          mstp-instance-type
| | +--rw xstp:vlan?       xstp-ui32-vlan-range
| | +--rw xstp:priority?   uint32
| | +--rw xstp:region?     string
| | +--rw xstp:revision?   uint16
| | +--rw xstp:max-hops?   uint32
| | +--rw xstp:transmit-holdcount? uint32
+--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 spsf-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-ntp?          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-ntp?          isis-status
| | +--ro snp-csnp-interval?          uint16
| | +--ro lsp-gen-interval?            uint16
| | +--ro lsp-interval?                uint32
| | +--ro lsp-refresh-interval?        uint16
| | +--ro lsp-lifetime?                uint16
| | +--ro retransmit-interval?         uint16
| | +--ro pspf-enabled?                isis-status
| | +--ro ispf-enabled?                isis-status
| | +--ro istct-spf-enabled?           isis-status
| | +--ro overload-state?              isis-status
| | +--ro overload-startup-time?       uint32
| | +--ro overload-wait-on-bgp?        isis-status
| | +--ro overload-bgp-wait-time?      uint32
| | +--ro enable-code-assertions?      isis-status
| | +--ro graceful-restart-helper?     isis-status
| | +--ro isis-hostname-enabled?       isis-status
| | +--ro bfd?                        boolean
| | +--ro bfd-holdover-interval?       uint8
| | +--ro isis-system-info
| | | +--ro protocol-enabled?          isis-status
| | | +--ro operation-mode?            isis-level
| | | +--ro system-id?                 string
| | | +--ro nsap* [net-addr]
| | | | +--ro length?                  uint8
| | | | +--ro net-addr                 string
| | +--ro l1-auth-profile
| | | +--ro auth-check?                isis-status
| | | +--ro auth-mode?                 auth-mode
| | | +--ro auth-key?                  string
| | +--ro l2-auth-profile
| | | +--ro auth-check?                isis-status
| | | +--ro auth-mode?                 auth-mode
| | | +--ro auth-key?                  string
| | +--ro log-handler
| | | +--ro log-adj-state-change?       isis-status
| | | +--ro log-bad-lsp?               isis-status

```

```

| | +--ro ll-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 ll-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 ll-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-external11-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-external11-enabled? isis-status
| | | | +--ro ospf-external2-enabled? isis-status
| | | +--ro adjacency-check? isis-status
| | | +--ro multi-topology? isis-status
| | | +--ro mt-transition-state? boolean
| | | +--ro summary-prefix-v6* [address]
| | | | +--ro address string
| | | | +--ro level? isis-level
| | +--ro reverse-metric
| | | +--ro reverse-metric-value? uint32
| | | +--ro rev-metric-whole-lan? isis-status
| | | +--ro rev-metric-te-def-metric? isis-status
| | | +--ro rev-metric-tlv-type? uint32
| | +--ro debug-handler

```

```

| | +--ro debug-nsr?   isis-status
| +--ro host-table
| | +--ro hostname-enabled?   boolean
| | +--ro isis-router-entry* [system-id]
| |   +--ro system-id   string
| |   +--ro host-name?   string
| |   +--ro is-local?    boolean
| +--ro ipv4-routes
| | +--ro total-routes-count?   uint32
| | +--ro ipv4-route-entry* [ipv4-dest-addr ipv4-subnet-mask ipv4-prefix-len]
| |   +--ro level?              uint8
| |   +--ro cost?               uint32
| |   +--ro tag?                uint32
| |   +--ro flags?              uint16
| |   +--ro is-l1-summarized?   boolean
| |   +--ro is-l2-summarized?   boolean
| |   +--ro is-summary?         boolean
| |   +--ro ipv4-dest-addr      inet:ipv4-address
| |   +--ro ipv4-subnet-mask    inet:ipv4-address
| |   +--ro ipv4-prefix-len     int8
| |   +--ro nh-info* [outgoing-intf-type outgoing-intf-number]
| |     +--ro ipv4-nh-addr?      inet:ipv4-address
| |     +--ro outgoing-intf-type  isis-interface-type
| |     +--ro outgoing-intf-number string
| +--ro ipv6-routes
| | +--ro level1-route-count?   uint32
| | +--ro level2-route-count?   uint32
| | +--ro ecmp-route-count?     uint32
| | +--ro total-routes-count?   uint32
| | +--ro ipv6-route-entry* [ipv6-dest-addr ipv6-prefix-len]
| |   +--ro level?              uint8
| |   +--ro cost?               uint32
| |   +--ro tag?                uint32
| |   +--ro flags?              uint16
| |   +--ro is-l1-summarized?   boolean
| |   +--ro is-l2-summarized?   boolean
| |   +--ro is-summary?         boolean
| |   +--ro ipv6-dest-addr      string
| |   +--ro ipv6-prefix-len     uint8
| |   +--ro nh-info* [outgoing-intf-type outgoing-intf-number]
| |     +--ro ipv6-nh-addr?      string
| |     +--ro outgoing-intf-type  isis-interface-type
| |     +--ro outgoing-intf-number string
| +--ro interface-brief
| | +--ro isis-intf-brief* [intf-type intf-number]
| |   +--ro intf-type           isis-interface-type
| |   +--ro intf-number         string
| |   +--ro circuit-type?       isis-circ-type
| |   +--ro is-circuit-passive?  isis-status
| |   +--ro circuit-mode?       isis-level
| |   +--ro circ-state?         boolean
| |   +--ro mtu-size?           uint16
| |   +--ro circ-adj-up?        uint16
| |   +--ro circ-changes?       uint32
| |   +--ro adj-changes?       uint32
| |   +--ro is-l1-dis?          boolean
| |   +--ro is-l2-dis?          boolean
| +--ro interface-detail
| | +--ro isis-intf* [intf-type intf-number]
| |   +--ro intf-type           isis-interface-type
| |   +--ro intf-number         string
| |   +--ro v4circuit-enabled?   isis-status
| |   +--ro v6circuit-enabled?   isis-status
| |   +--ro circuit-id?          uint16

```

```

| | +--ro circuit-ifid?          uint16
| | +--ro circuit-state?       boolean
| | +--ro circuit-ip-state?    boolean
| | +--ro circuit-ipv6-state?  boolean
| | +--ro circuit-mode?        isis-level
| | +--ro circuit-type?        isis-circ-type
| | +--ro circuit-encap?       isis-circ-encap
| | +--ro is-circuit-passive?   isis-status
| | +--ro mtu-size?            uint16
| | +--ro padding-enabled?     isis-status
| | +--ro bfd-enabled?         isis-status
| | +--ro circ-chstats
| | | +--ro circ-changes?      uint32
| | | +--ro adj-changes?      uint32
| | | +--ro adj-rej?          uint32
| | | +--ro llauthfail?       uint32
| | | +--ro l2authfail?       uint32
| | | +--ro bad-lsps?         uint32
| | | +--ro ctrl-out?         uint32
| | | +--ro ctrl-in?          uint32
| | +--ro mpls-info
| | | +--ro te-enabled?        isis-status
| | | +--ro admin-group?      uint32
| | | +--ro te-metric?        uint32
| | | +--ro max-link-bw?      uint32
| | | +--ro max-reserv-bw?    uint32
| | | +--ro unreserv-bw*      uint32
| | +--ro reverse-metric-info
| | | +--ro is-global-config?  boolean
| | | +--ro reverse-metric-value? uint32
| | | +--ro rev-metric-whole-lan? isis-status
| | | +--ro rev-metric-te-def-metric? isis-status
| | +--ro ldp-sync-info
| | | +--ro ldp-sync-enabled?   isis-status
| | | +--ro ldp-sync-hold-down? uint16
| | | +--ro ldp-in-sync?       boolean
| | | +--ro remain-hd-time?     uint32
| | | +--ro ldp-sync-hd-expired? boolean
| | +--ro circ-metrics* [level]
| | | +--ro level              isis-level
| | | +--ro auth-check?        isis-status
| | | +--ro auth-mode?         auth-mode
| | | +--ro auth-key?          string
| | | +--ro circ-metric?       uint32
| | | +--ro ip6-circ-metric?    uint32
| | | +--ro circ-priority?     uint8
| | | +--ro hello-int?         uint32
| | | +--ro hello-mult?        uint32
| | | +--ro dis?               string
| | | +--ro dis-ch?            uint32
| | | +--ro next-hello?        uint32
| | | +--ro active-adj?        uint32
| | +--ro ip-info* [ip-add]
| | | +--ro ip-add             inet:ipv4-address
| | | +--ro ip-prefix?         uint8
| | +--ro ip6-info* [ip6-add]
| | | +--ro ip6-add            inet:ipv6-address
| | | +--ro ip6-prefix?        uint8
| | | +--ro is-link-local?     boolean
| +--ro database* [level]
| | +--ro isis-operation?      boolean
| | +--ro level                uint32
| | +--ro lsp-level1-count?    uint32
| | +--ro lsp-level2-count?    uint32

```

```

|      +---ro lsp-level1-loading?          uint32
|      +---ro lsp-level2-loading?          uint32
|      +---ro lsp-level1-fragments?        uint32
|      +---ro lsp-level2-fragments?        uint32
|      +---ro lsp-level1-pseudo?           uint32
|      +---ro lsp-level2-pseudo?           uint32
|      +---ro lsp-level1-pseudo-fragments? uint32
|      +---ro lsp-level2-pseudo-fragments? uint32
|      +---ro lsp-level1-my-count?         uint32
|      +---ro lsp-level2-my-count?         uint32
|      +---ro lsp-level1-my-lsp-fragments? uint32
|      +---ro lsp-level2-my-lsp-fragments? uint32
|      +---ro lsp-level1-my-pseudo?        uint32
|      +---ro lsp-level2-my-pseudo?        uint32
|      +---ro lsp-level1-my-pseudo-fragments? uint32
|      +---ro lsp-level2-my-pseudo-fragments? uint32
|      +---ro lsp-level1-checksum?         uint32
|      +---ro lsp-level2-checksum?         uint32
|      +---ro lsp-entry* [lsp-level lsp-id]
|          +---ro lsp-level          uint32
|          +---ro lsp-id              string
|          +---ro lsp-seq-no?         uint32
|          +---ro lsp-checksum?       uint16
|          +---ro lsp-holdtime?       uint32
|          +---ro lsp-att?            uint32
|          +---ro lsp-p?              uint32
|          +---ro lsp-ol?             uint32
|          +---ro lsp-tlv-entry* [type]
|              +---ro type          uint32
|              +---ro length?       uint32
|              +---ro value*        binary
+---ro 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: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*/

```

```

| | +--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 labelspace?    uint32
| | | |   +--ro label?         uint32
| | |   +--ro downstream-sessions* [ip interface]
| | | |   +--ro ip              inet:ipv4-address
| | | |   +--ro interface      string
| | | |   +--ro labelspace?    uint32
| | | |   +--ro label?         uint32
| | +--ro ldp-neighbors* [neighbor-ldpid labelspaceid]
| | |   +--ro neighbor-ldpid    inet:ipv4-address
| | |   +--ro labelspaceid      uint8
| | |   +--ro neighbor-transport?  inet:ipv4-address
| | |   +--ro interface-name?   string
| | |   +--ro max-hold-time?     uint32
| | |   +--ro time-left?        uint32
| | |   +--ro up-time?          string
| | |   +--ro configured-hold-time?  uint32
| | |   +--ro neighbor-proposed-hold-time?  uint32
| | +--ro ldp-session* [peer-ldp-id peer-label-space-id]
| | |   +--ro peer-ldp-id       inet:ipv4-address
| | |   +--ro peer-label-space-id  uint8
| | |   +--ro state?            string
| | |   +--ro adjacency?        string
| | |   +--ro role?              string
| | |   +--ro max-hold?          uint32
| | |   +--ro time-left?        uint32
| | |   +--ro session-status?    string
| | |   +--ro local-ldp-id?      string
| | |   +--ro local-lblspc-id?   string
| | |   +--ro next-keepalive?    uint32
| | |   +--ro entity-index?      uint32
| | |   +--ro targeted-adj-added?  string
| | |   +--ro is-retry?          boolean
| | |   +--ro next-retry?        uint32
| | |   +--ro keepalive-interval?  uint32
| | |   +--ro local-keepalive-timeout?  uint32
| | |   +--ro peer-proposed-keepalive-timeout?  uint32
| | |   +--ro session-up-time?    string
| | |   +--ro md5-auth-key?      string
| | |   +--ro tcp-conn-local?    string
| | |   +--ro tcp-conn-remote?   string
| | |   +--ro tcp-state?         string
| | |   +--ro num-fecs-received-from-peer?  uint32
| | |   +--ro num-fecs-installed-from-peer?  uint32
| | |   +--ro is-fecs-pending-uninstall?  boolean
| | |   +--ro num-fecs-filtered-out?  uint32
| | |   +--ro num-fecs-filtered-in?  uint32
| | |   +--ro filter-prefix-list-name?  string

```

```

| | | +--ro filter-prefix-list-exists?          boolean
| | | +--ro is-only-gr-valid?                  boolean
| | | +--ro gr-enabled?                        boolean
| | | +--ro peer-reconnect-time?              uint32
| | | +--ro peer-recovery-time?               uint32
| | | +--ro reconnect-time-in-use?            uint32
| | | +--ro reconnect-time-remaining?         uint32
| | | +--ro recovery-time-in-use?             uint32
| | | +--ro recovery-time-remaining?          uint32
| | | +--ro gr-state?                         string
| | | +--ro local-eol-unrecognized-notification? boolean
| | | +--ro remote-eol-unrecognized-notification? boolean
| | | +--ro does-session-support-eol?         boolean
| | | +--ro local-state?                      boolean
| | | +--ro remote-state?                     boolean
| | | +--ro eol-notification-time?            uint32
| | | +--ro eol-notification-time-remaining?  uint32
| | | +--ro eol-tx-label-silence-time?        uint32
| | | +--ro eol-tx-label-silence-time-remaining? uint32
| | | +--ro eol-rx-label-silence-time?        uint32
| | | +--ro eol-rx-label-silence-time-remaining? uint32
| | | +--ro filtered?                         session-filter-type
| | | +--ro interfaces*                       string
| | | +--ro addresses*                        string
| | | +--ro session-ldp-stats
| | | | +--ro protocol-errors* [stats-group]
| | | | | +--ro stats-group          mpls-ldp-stats-error-group
| | | | | +--ro protocol-error* [error-type]
| | | | | | +--ro error-type        uint32
| | | | | | +--ro count?            uint32
| | | | | +--ro protocol-stats* [stats-group]
| | | | | +--ro stats-group          mpls-ldp-stats-error-group
| | | | | +--ro protocol-stat* [stat-type]
| | | | | +--ro stat-type            uint32
| | | | | +--ro rx-count?            uint32
| | | | | +--ro tx-count?            uint32
| | | +--ro filtered-fecs-in* [fec-addr fec-type]
| | | | +--ro fec-addr      inet:ipv4-prefix
| | | | +--ro fec-type      fec-type
| | | | +--ro label?        uint32
| | | +--ro filtered-fecs-out* [fec-addr fec-type]
| | | | +--ro fec-addr      inet:ipv4-prefix
| | | | +--ro fec-type      fec-type
| | | +--ro ldp-fec-prefix* [destination]
| | | | +--ro destination    string
| | | | +--ro state?          string
| | | | +--ro ingress?        string
| | | | +--ro egress?          string
| | | | +--ro filtered?        string
| | | | +--ro lwd?             string
| | | | +--ro filter-type?     fec-filter-type
| | | | +--ro prefix-filtered? string
| | | | +--ro longer?          boolean
| | | | +--ro prefix-feccb?     uint32
| | | | +--ro prefix-idx?       uint32
| | | | +--ro prefix-type?      uint32
| | | | +--ro prefix-pend-notif? string
| | | | +--ro prefix-um-dist-done? string
| | | | +--ro prefix-lwd-started? string
| | | | +--ro prefix-is-ldp-o-rsvp? boolean
| | | | +--ro prefix-excess-dms? boolean
| | | +--ro nexthops* [nexthop]
| | | | +--ro nexthop        string
| | | | +--ro out-intf?      string

```

```

| | | +--ro prefix-downstream* [mapping-index]
| | | | +--ro local-ldp-id?          inet:ipv4-address
| | | | +--ro local-ldp-lblspc?      uint32
| | | | +--ro peer-ldp-id?          inet:ipv4-address
| | | | +--ro peer-ldp-lblspc?      uint32
| | | | +--ro label?                uint32
| | | | +--ro state?                string
| | | | +--ro fec-filtered-state?    uint32
| | | | +--ro fec-stale?            uint32
| | | | +--ro feccb?                uint32
| | | | +--ro fec-dm-state-dw?      uint32
| | | | +--ro mapping-index         uint32
| | | +--ro prefix-upstream* [mapping-index]
| | | | +--ro local-ldp-id?          inet:ipv4-address
| | | | +--ro local-ldp-lblspc?      uint32
| | | | +--ro peer-ldp-id?          inet:ipv4-address
| | | | +--ro peer-ldp-lblspc?      uint32
| | | | +--ro label?                uint32
| | | | +--ro state?                string
| | | | +--ro fec-filtered-state?    uint32
| | | | +--ro fec-stale?            uint32
| | | | +--ro feccb?                uint32
| | | | +--ro fec-dm-state-dw?      uint32
| | | | +--ro mapping-index         uint32
| | +--ro ldp-fec-vc* [peer-id vc-id vc-fec-type vc-type]
| | | +--ro peer-id                  inet:ipv4-address
| | | +--ro vc-id                    uint32
| | | +--ro vc-fec-type              uint32
| | | +--ro vc-type                  uint32
| | | +--ro peer-lblspc?             uint32
| | | +--ro state?                  string
| | | +--ro peer-vc-type?            uint32
| | | +--ro ingress?                string
| | | +--ro egress?                 string
| | | +--ro vc-feccb?               uint32
| | | +--ro vc-idx?                 uint32
| | | +--ro prefix-pend-notif?       string
| | | +--ro prefix-um-dist-done?     string
| | | +--ro vc-grp-id?               uint32
| | | +--ro vc-local-mtu?            uint32
| | | +--ro vc-remote-mtu?           uint32
| | | +--ro vc-mtu-enforcement?      uint32
| | | +--ro vc-agi?                  string
| | | +--ro vc-local-flow-label-tx?  uint32
| | | +--ro vc-local-flow-label-rx?  uint32
| | | +--ro vc-remote-flow-label-tx? uint32
| | | +--ro vc-remote-flow-label-rx? uint32
| | | +--ro vc-control-word-preferred? uint32
| | | +--ro vc-control-word-in-use?  uint32
| | | +--ro vc-downstream* [mapping-index]
| | | | +--ro local-ldp-id?          inet:ipv4-address
| | | | +--ro local-ldp-lblspc?      uint32
| | | | +--ro peer-ldp-id?          inet:ipv4-address
| | | | +--ro peer-ldp-lblspc?      uint32
| | | | +--ro label?                uint32
| | | | +--ro state?                string
| | | | +--ro fec-filtered-state?    uint32
| | | | +--ro fec-stale?            uint32
| | | | +--ro feccb?                uint32
| | | | +--ro fec-dm-state-dw?      uint32
| | | | +--ro mapping-index         uint32
| | | +--ro vc-upstream* [mapping-index]
| | | | +--ro local-ldp-id?          inet:ipv4-address
| | | | +--ro local-ldp-lblspc?      uint32

```

```

| | +--ro peer-ldp-id?          inet:ipv4-address
| | +--ro peer-ldp-lblspc?      uint32
| | +--ro label?                uint32
| | +--ro state?                string
| | +--ro fec-filtered-state?    uint32
| | +--ro fec-stale?            uint32
| | +--ro 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 bandwith-resv-outsegs? uint32
| |   +--ro active-backup-outsegs? uint32
| |   +--ro inactive-backup-outsegs? uint32
| |   +--ro interface-preempts? uint32
| |   +--ro interface-resv-soft-preempts? uint32
| |   +--ro interface-flooding-up-threshold? feature-config-source
| |   +--ro interface-flooding-down-threshold? feature-config-source
| |   +--ro duplicate-preempts-dropped? uint32
| |   +--ro bypass-interface? boolean
| |   +--ro interface-tunnel-name? string
| |   +--ro bypass-tunnel-interface-name? string
| |   +--ro interface-te-up-thresholds* uint32
| |   +--ro interface-te-down-thresholds* uint32
| |   +--ro error-counters
| |     +--ro 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

```

|                   |  |  |                                                           |                 |
|-------------------|--|--|-----------------------------------------------------------|-----------------|
|                   |  |  | +--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

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| | | | +--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-priority-configured?            | boolean                 |
|  |  |  | +++ro | config-setup-priority?                 | uint8                   |
|  |  |  | +++ro | config-holding-priority?               | 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 ivald?        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 ivald?        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-interafce
+--rw qos-mls:storm-control
  | | | +--rw qos-mls:ingress [protocol-type]
  | | |   +--rw qos-mls:protocol-type  enumeration
  | | |   +--rw qos-mls:rate-format?    enumeration
  | | |   +--rw qos-mls:rate-bps?       rate-limit-bps-type
  | | |   +--rw qos-mls:rate-percent?   rate-limit-percentage-type
  | | |   +--rw qos-mls:bum-action?     enumeration

module:extreme-interafce
| | +--rw qos-mls:qos
| | | +--rw qos-mls:default-cos?      cos-id-type
| | | +--rw qos-mls:default-tc?      traffic-class-id-type
| | | +--rw qos-mls:trust
| | | | +--rw qos-mls:trust-cos?      empty
| | | | +--rw qos-mls:trust-dscp?     empty
| | | | +--rw qos-mls:cos-mutation?   map-name-type
| | | | +--rw qos-mls:traffic-class-cos? map-name-type
| | | | +--rw qos-mls:cos-traffic-class? map-name-type
| | | | +--rw qos-mls:dscp-mutation?   map-name-type
| | | | +--rw qos-mls:dscp-traffic-class? map-name-type
| | | | +--rw qos-mls:dscp-cos?        map-name-type
| | | +--rw qos-mls:random-detect
| | | | +--rw qos-mls:traffic-class [red-tc-value]
| | | | | +--rw qos-mls:red-tc-value  traffic-class-id-type
| | | | | +--rw qos-mls:red-profile-id? uint32
| | | +--rw qos-mls:drop-monitor
| | | | +--rw qos-mls:drop-monitor-enable? empty
| | | +--rw qos-mls:flowcontrol

```

```

| | | | +--rw qos-mls:link-level-flowcontrol
| | | | | +--rw qos-mls:flowcontrol-tx? enumeration
| | | | | +--rw qos-mls:flowcontrol-rx? enumeration
| | | | +--rw qos-mls:pfc [pfc-cos]
| | | | | +--rw qos-mls:pfc-cos cos-id-type
| | | | | +--rw qos-mls:pfc-flowcontrol-tx enumeration
| | | | | +--rw qos-mls:pfc-flowcontrol-rx enumeration
| | | +--rw qos-mls:rx-queue
| | | | +--rw qos-mls:cos-threshold
| | | | | +--rw qos-mls:cos0-threshold? uint32
| | | | | +--rw qos-mls:cos1-threshold? uint32
| | | | | +--rw qos-mls:cos2-threshold? uint32
| | | | | +--rw qos-mls:cos3-threshold? uint32
| | | | | +--rw qos-mls:cos4-threshold? uint32
| | | | | +--rw qos-mls:cos5-threshold? uint32
| | | | | +--rw qos-mls:cos6-threshold? uint32
| | | | | +--rw qos-mls:cos7-threshold? uint32
| | | +--rw qos-mls:unicast
| | | | +--rw qos-mls:queue-size [traffic-class]
| | | | | +--rw qos-mls:traffic-class traffic-class-id-type
| | | | | +--rw qos-mls:min-queue-size? min-queue-size-type
| | | | | +--rw qos-mls:max-queue-size? max-queue-size-type
| | | +--rw qos-mls:multicast
| | | | +--rw qos-mls:guarantee-rate? guarantee-rate-type
| | | | +--rw qos-mls:best-effort-rate? best-effort-rate-type
| | | | +--rw qos-mls:queue-size [traffic-class]
| | | | | +--rw qos-mls:traffic-class traffic-class-id-type
| | | | | +--rw qos-mls:min-queue-size? min-queue-size-type
| | | | | +--rw qos-mls:max-queue-size? max-queue-size-type

```

## 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:multipplier?   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 fqp-pkt-cnt-aggr?            uint64
  |   |   |   |   +--ro uni-discard-pkt-cnt-aggr?    uint64
  |   |   |   |   +--ro mcast-discard-pkt-cnt-aggr?  uint64
  |   |   |   |   +--ro mcast-pkt-cnt-aggr?          uint64
  |   |   |   |   +--ro ehp-discard-cnt-aggr?        uint64
  |   |   |   |   +--ro prp-uc-discard-cnt-aggr?     uint64
  |   |   |   |   +--ro prp-mc-discard-cnt-aggr?     uint64
  |   |   |   |   +--ro prp-sop-uc-discard-cnt-aggr? uint64
  |   |   |   |   +--ro prp-sop-mc-discard-cnt-aggr? uint64
  |   |   |   |   +--ro ehp-mc-high-discard-cnt-aggr? uint64
  |   |   |   |   +--ro ehp-mc-low-discard-cnt-aggr? uint64
  |   |   |   |   +--ro erpp-lag-pruning-discard-cnt-aggr? uint64

```

```

| | +--ro erpp-pmf-discard-cnt-aggr?      uint64
| | +--ro erpp-vlan-membership-discard-cnt-aggr?  uint64
| | +--ro epe-discard-cnt-aggr?          uint64
| | +--ro epe-cnt-aggr?                  uint64
| | +--ro tot-egr-pkt-cnt-aggr?          uint64
| +--ro non-empty-voq* [slot tower]
| | +--ro slot      uint16
| | +--ro tower     uint16
| | +--ro voq-id*   uint32
| | +--ro voq-size* uint32
| +--ro buf-pool-stats* [slot tower]
| | +--ro slot      uint16
| | +--ro tower     uint16
| | +--ro dram-size? uint16
| | +--ro bd-occ-core0? uint64
| | +--ro buf-occ-bytes-core0? uint64
| | +--ro bd-occ-core1? uint64
| | +--ro buf-occ-bytes-core1? uint64
| +--ro tmcputatssslot* [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 tmcputatssslotallgrp* [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-sfmcoun?  uint32
      | +---ro mcast-out*      uint32
    +---ro statistics* [statistics-sfmid]
      | +---ro statistics-sfmid          uint32
      | +---ro statistics-feid?          uint32
      | +---ro statistics-pipe?          uint32
      | +---ro statistics-dch-total-in?  uint32
      | +---ro statistics-dch-total-out? uint32
      | +---ro statistics-dch-fifo-discard? uint32
      | +---ro statistics-dch-reorder-discard? uint32
      | +---ro statistics-dch-unreach-discard? uint32
      | +---ro statistics-dch-max-q-size?  uint32
      | +---ro statistics-dcm-tot?         uint32
      | +---ro statistics-dcm-drop?        uint32
      | +---ro statistics-dcm-max?         uint32
      | +---ro statistics-dcl-tot-in?      uint32
      | +---ro statistics-dcl-tot-out?     uint32
      | +---ro statistics-dcl-dropped?     uint32
      | +---ro statistics-dcl-max?         uint32
    +---ro links* [links-sfmid]
      | +---ro links-count?      uint32
      | +---ro links-sfmid       uint32
      | +---ro links-feid?       uint32
      | +---ro links-crc*        uint32
      | +---ro links-size*       uint32
      | +---ro links-codegroup*  uint32
      | +---ro links-misalign*   uint32
      | +---ro links-lock*       uint32
      | +---ro links-accept*     uint32
      | +---ro links-error*      uint32
      | +---ro links-errorcount* uint32
    +---ro queue* [queue-sfmid]
      | +---ro queue-sfmid       uint32
      | +---ro queue-feid?       uint32
      | +---ro queue-pipe?       uint32
      | +---ro queue-dch-count?  uint32
      | +---ro queue-dcm-count?  uint32
      | +---ro queue-dcl-count?  uint32
      | +---ro queue-dch-value*  uint32
      | +---ro queue-dch-linkno* uint32
      | +---ro queue-dcm-value*  uint32
      | +---ro queue-dcm-linkno* uint32
      | +---ro queue-dcl-value*  uint32
      | +---ro queue-dcl-linkno* uint32
    +---ro thresholds* [thresholds-sfmid]
      | +---ro thresholds-sfmid    uint32
      | +---ro thresholds-feid?    uint32
      | +---ro thresholds-port?    uint32
      | +---ro thresholds-pipe*    uint32
      | +---ro thresholds-rxthreshold* uint32
      | +---ro thresholds-txthreshold* uint32
      | +---ro thresholds-midthreshold* uint32
    +---ro connectivity* [connectivity-sfmid]

```

```
| +--ro connectivity-count?      uint32
| +--ro connectivity-sfmid      uint32
| +--ro connectivity-feid?      uint32
| +--ro connectivity-type?      string
| +--ro connectivity-linkid*    uint32
| +--ro connectivity-moduleid*  uint32
| +--ro connectivity-port*      uint32
+--ro serdesmode* [serdesmode-sfmid]
  +--ro serdesmode?              uint32
  +--ro serdesmode-sfmid        uint32
  +--ro serdesmode-feid?        uint32
```

## 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:multipplier? 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-wnn?      string
|   |   +--ro co-ordinator-wnn?          string
|   |   +--ro vcs-cluster-type-info?     vcs-cluster-type
|   |   +--ro vcs-guid?                  string
|   |   +--ro virtual-ip-address?        string
|   |   +--ro virtual-ipv6-address?      string
|   |   +--ro total-nodes-in-cluster?    uint16
|   |   +--ro nodes-disconnected-from-cluster?  uint16
|   |   +--ro cluster-generic-status?    string
|   |   +--ro cluster-specific-status?    string
|   |   +--ro vcs-nodes
|   |   |   +--ro vcs-node-info*
|   |   |   |   +--ro node-num?          uint16
|   |   |   |   +--ro node-serial-num?   string
|   |   |   |   +--ro node-condition?    string
|   |   |   |   +--ro node-status?       string
|   |   |   |   +--ro node-hw-sync-state? node-hw-sync-state-type
|   |   |   |   +--ro node-vcs-mode?     string
|   |   |   |   +--ro node-vcs-id?      uint16

```

```

|         +--ro node-rbridge-id?          uint16
|         +--ro node-is-principal?        boolean
|         +--ro co-ordinator?             boolean
|         +--ro node-switch-mac?          yang:mac-address
|         +--ro node-switch-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-switchctype?         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

```

```

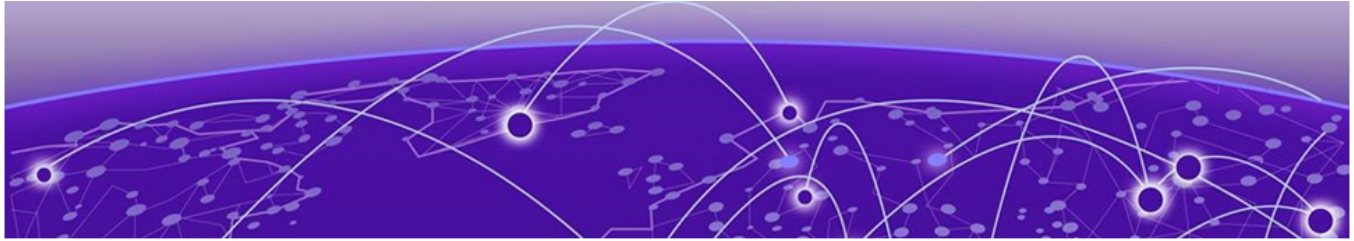
|          +---w instance-id?   uint32
+--ro output
  +--ro cist
    | +--ro cist-root-id?       bridge-id-type
    | +--ro cist-bridge-id?     bridge-id-type
    | +--ro cist-reg-root-id?   bridge-id-type
    | +--ro root-forward-delay? uint32
    | +--ro hello-time?        uint32
    | +--ro max-age?            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**

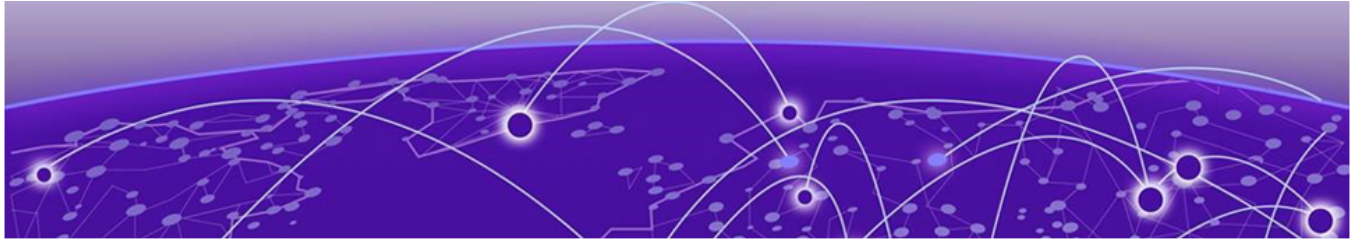
| RPC name                              | Host module      | Synopsis                                                                              |
|---------------------------------------|------------------|---------------------------------------------------------------------------------------|
| activate-status                       | extreme-firmware | Returns firmware activation status.                                                   |
| bnacfgcmd                             | extreme-ras      | Copies configuration data to and from the system.                                     |
| bnacfgcmdstatus                       | 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/<br>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/<br>auth-secret        | Deletes the authorization secret for DH-CHAP.                   |
| dhchap      | extreme-fc-auth    | common-def:show/<br>fscp/authsecret       | Returns the device WWN for which a shared secret is configured. |
| dir         | extreme-ras        | system/usb                                | Displays the directory of a USB device.                         |
| directory   | extreme-firmware   | firmware:firmware/<br>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-<br>show-license-keys | Displays dynamic POD license information.                       |
| dump        | extreme-ha         | ha                                        | Displays high availability status information.                  |
| dvpgs       | extreme-vswitch    | common-def:show/<br>vnetwork              | Shows discovered distributed virtual port-groups.               |
| dvs         | extreme-vswitch    | common-def:show/<br>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/<br>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/<br>firmware                         | Shows firmware auto-sync status.                                                   |
| firmwaredownloadhistory | extreme-firmware-ext | common-def:show/<br>firmware                         | Returns a history of firmware downloads.                                           |
| firmwaredownloadstatus  | extreme-firmware-ext | common-def:show/<br>firmware                         | Returns the firmware download status.                                              |
| firmware-features       | extreme-firmware-ext | common-def:show/<br>firmware                         | Shows firmware features.                                                           |
| ftp                     | extreme-firmware     | firmware/download                                    | Downloads firmware with FTP.                                                       |
| ftp                     | extreme-firmware     | firmware/download/<br>default-config                 | Downloads firmware with FTP.                                                       |
| ftp                     | extreme-firmware     | firmware/download/<br>logical-chassis                | Downloads firmware with FTP for logical chassis.                                   |
| ftp                     | extreme-firmware     | firmware/download/<br>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.                                                                     |
| ldapcacer   | extreme-certutil              | common-def:show/cert-util                           | Displays the LDAP CA certificate.                                                                    |
| license     | extreme-license               | common-def:show/enh-show-license-keys               | Displays license information.                                                                        |
| linecard    | extreme-linecard-management   | common-def:show/linecardinfo                        | Configures a line card.                                                                              |
| linecard    | common-def:show               | common-def:show/linecardinfo                        | Configures a line card.                                                                              |
| linkinfo    | extreme-fabric-service        | common-def:show/fabric-service:fabric               | Returns fabric ISL link information.                                                                 |
| maps        | extreme-maps-ext              | common-def:show                                     |                                                                                                      |
| 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/mm                                  | 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/cert-util                        | Displays the syslog server CA certificate.               |
| systemverification  | extreme-diagnostics  | diag                                             | Runs a combination of various hardware diagnostic tests. |
| temp                | extreme-ras-ext      | common-def:show/infra/environment                | Shows temperature information.                           |
| timezone            | extreme-clock        | common-def:no/clock                              | Returns the time zone information.                       |
| 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.                                                                                                                                                     |