

Extreme SLX-OS YANG Reference Guide, 20.1.1

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

9036298-00 Rev AA
February 2020



Copyright © 2020 Extreme Networks, Inc. All rights reserved.

Legal Notice

Extreme Networks, Inc. reserves the right to make changes in specifications and other information contained in this document and its website without prior notice. The reader should in all cases consult representatives of Extreme Networks to determine whether any such changes have been made.

The hardware, firmware, software or any specifications described or referred to in this document are subject to change without notice.

Trademarks

Extreme Networks and the Extreme Networks logo are trademarks or registered trademarks of Extreme Networks, Inc. in the United States and/or other countries.

All other names (including any product names) mentioned in this document are the property of their respective owners and may be trademarks or registered trademarks of their respective companies/owners.

For additional information on Extreme Networks trademarks, please see:

www.extremenetworks.com/company/legal/trademarks

Open Source Declarations

Some software files have been licensed under certain open source or third-party licenses. End-user license agreements and open source declarations can be found at:

www.extremenetworks.com/support/policies/software-licensing

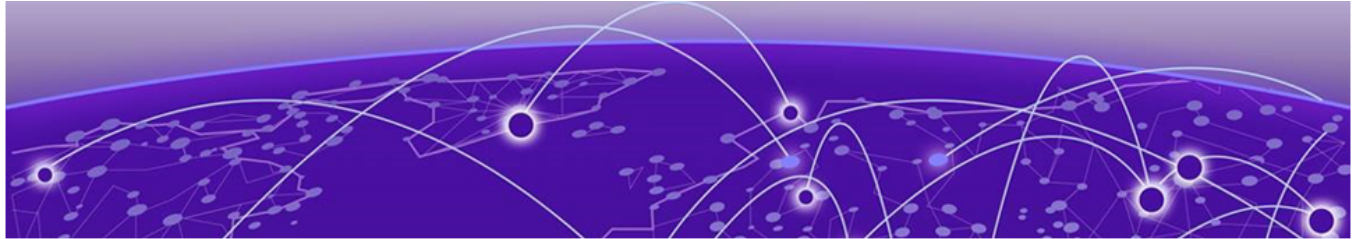


Table of Contents

Preface.....	9
Text Conventions.....	9
Documentation and Training.....	11
Getting Help.....	11
Subscribe to Service Notifications.....	11
Providing Feedback.....	12
About This Document.....	13
Supported Hardware.....	13
Using YANG.....	14
YANG overview.....	14
Using the SLX-OS YANG Reference Guide.....	14
YANG Modules.....	16
extreme-aaa.....	19
Top-level container	19
extreme-aaa-ext.....	23
RPCs.....	23
extreme-acl-policy.....	24
Top-level container.....	24
extreme-arp.....	25
Top-level container.....	25
RPCs.....	25
extreme-beacon.....	26
Top-level container.....	26
extreme-bridge-domain.....	27
Top-level container.....	27
extreme-certutil.....	28
Top-level container.....	28
External augmentations.....	28
extreme-chassis.....	29
Top-level container.....	29
Actions.....	29
extreme-clock.....	31
Top-level container.....	31
External augmentations.....	31
RPCs.....	31
extreme-common-def.....	32
Top-level container.....	32
extreme-control-plane.....	84
Top-level container.....	84
extreme-crypto.....	85

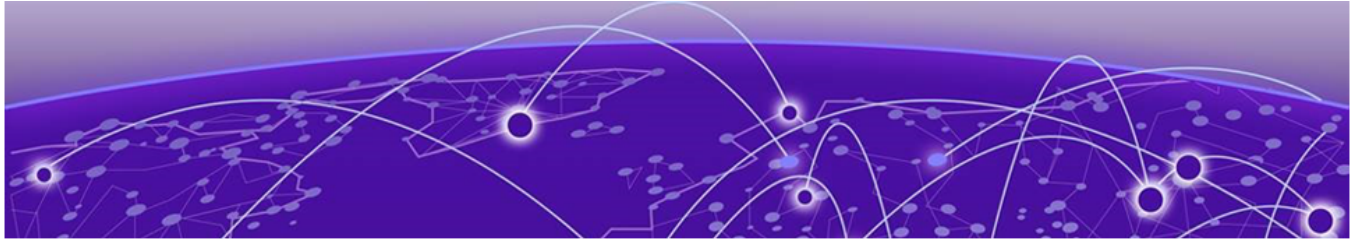
Top-level container.....	85
extreme-crypto-ext.....	86
Top-level container.....	86
extreme-dai.....	87
Top-level container.....	87
extreme-diagnostics.....	88
Top-level container.....	88
extreme-dot1ag.....	90
Top-level container.....	90
extreme-dot1x.....	92
Top-level container.....	92
External augmentations.....	92
extreme-entity.....	93
RPCs.....	93
extreme-event-handler.....	94
Top-level container.....	94
extreme-firmware.....	95
Top-level container.....	95
RPCs.....	100
extreme-firmware-ext.....	102
RPCs.....	102
extreme-ha.....	103
Top-level container.....	103
RPCs.....	103
extreme-hardware.....	104
Top-level container.....	104
extreme-http-config.....	105
Top-level container.....	105
External augmentations.....	105
extreme-http-redirect.....	106
RPCs.....	106
extreme-igmp-snooping.....	107
Top-level container.....	107
External augmentations.....	107
extreme-interface.....	108
Top-level container.....	108
extreme-interface-ext.....	127
RPCs.....	127
extreme-intf-loopback.....	132
Top-level container.....	132
extreme-ip-access-list.....	133
Top-level container.....	133
extreme-ip-administration.....	135
External augmentations.....	135
extreme-ip-config.....	136
External augmentations.....	136
extreme-ip-policy.....	137
Top-level container.....	137
extreme-ipv6-access-list.....	138

Top-level container.....	138
extreme-isis.....	140
External augmentations.....	140
extreme-isis-operational.....	141
Top-level container.....	141
extreme-l2sys-operational.....	150
Top-level container.....	150
extreme-lacp.....	151
Top-level container.....	151
External augmentations.....	151
extreme-lag.....	152
Top-level container.....	152
RPCs.....	152
extreme-lfs.....	154
Top-level container.....	154
External augmentations.....	154
extreme-license.....	155
Top-level container.....	155
extreme-linecard-management.....	156
Top-level container.....	156
extreme-lldp.....	157
External augmentations.....	157
extreme-lldp-ext.....	159
RPCs.....	159
extreme-mac-access-list.....	160
Top-level container.....	160
RPCs.....	160
extreme-mac-address-table.....	162
Top-level container.....	162
RPCs.....	162
extreme-mc-hms-operational.....	164
Top-level container.....	164
extreme-mct.....	168
Top-level container.....	168
extreme-mpls.....	169
Top-level container.....	169
RPCs.....	174
extreme-mpls-operational.....	177
Top-level container.....	177
extreme-nameserver.....	199
RPCs.....	199
extreme-netconf-ext.....	200
Top-level container.....	200
extreme-nsm-operational.....	201
Top-level container.....	201
extreme-ntp.....	205
Top-level container.....	205
RPCs.....	205
extreme-ospf.....	206

External augmentations.....	206
extreme-ospfv3.....	207
External augmentations.....	207
extreme-pim.....	208
External augmentations.....	208
extreme-pim-operational.....	209
Top-level container.....	209
extreme-pw-profile.....	211
Top-level container.....	211
extreme-pwm-operational.....	212
Top-level container.....	212
extreme-qos-cpu.....	214
External augmentations.....	214
extreme-qos-mls.....	215
Top-level container.....	215
External augmentations.....	216
extreme-qos-mpls.....	218
Top-level container.....	218
extreme-qos-mqc.....	220
Top-level container.....	220
extreme-ras.....	222
Top-level container.....	222
RPCs.....	224
extreme-ras-ext.....	225
Top-level container.....	225
External augmentations.....	225
RPCs.....	225
brocade-RAS-operational.....	226
Top-level container.....	226
extreme-rbridge-lag.....	229
Top-level container.....	229
extreme-rmon.....	230
Top-level container.....	230
extreme-rpf.....	231
Top-level container.....	231
External augmentations.....	231
extreme-rtm.....	232
External augmentations.....	232
extreme-sec-services.....	233
Top-level container.....	233
External augmentations.....	233
extreme-sflow.....	235
Top-level container.....	235
External augmentations.....	235
extreme-snmp.....	236
Top-level container.....	236
extreme-span.....	237
Top-level container.....	237
External augmentations.....	237

extreme-ssm-operational.....	238
Top-level container.....	238
extreme-sysdiag-operational.....	239
Top-level container.....	239
extreme-sysmgr.....	242
External augmentations.....	242
extreme-sysmgr-operational.....	243
extreme-sysmon.....	245
Top-level container.....	245
extreme-system.....	246
RPCs.....	246
extreme-system-capabilities.....	247
Top-level container.....	247
extreme-system-monitor.....	248
Top-level container.....	248
extreme-system-monitor-ext.....	250
RPCs.....	250
extreme-system-watermark.....	251
Top-level container.....	251
extreme-telemetry.....	252
Top-level container.....	252
extreme-terminal.....	253
Top-level container.....	253
extreme-threshold-monitor.....	254
Top-level container.....	254
extreme-tm-stats.....	255
RPCs.....	255
extreme-topology-group.....	256
Top-level container.....	256
extreme-tpvm.....	257
Top-level container.....	257
extreme-tunnels.....	259
Top-level container.....	259
extreme-tunnels-ext.....	261
RPCs.....	261
extreme-udld.....	263
External augmentations.....	263
extreme-vcs.....	264
Top-level container.....	264
RPCs.....	264
extreme-vlan.....	266
Top-level container.....	266
extreme-vrf.....	267
Top-level container.....	267
extreme-vrrp.....	270
External augmentations.....	270
extreme-vrrpv3.....	271
Top-level container.....	271
External augmentations.....	271

extreme-vxlan-visibility.....	272
Top-level container.....	272
extreme-xstp-ext.....	274
RPCs.....	274
Custom RPCs.....	280
Actions.....	283



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

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
<code>screen displays</code>	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> .
Key names	Key names are written in boldface, for example Ctrl or Esc . If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press Ctrl+Alt+Del
<i>Words in italicized type</i>	Italics emphasize a point or denote new terms at the place where they are defined in the text. Italics are also used when referring to publication titles.
NEW!	This symbol identifies new content. In a PDF, this is searchable text.

Table 3: Command syntax

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

Documentation and Training

Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

[Hardware/software compatibility matrices](#) for Campus and Edge products

[Supported transceivers and cables](#) for Data Center products

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

Extreme Networks offers product training courses, both online and in person, as well as specialized certifications. For details, visit www.extremenetworks.com/education/.

Getting Help

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

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

Subscribe to Service Notifications

You can subscribe to email notifications for product and software release announcements, Vulnerability Notices, and Service Notifications.

1. Go to 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

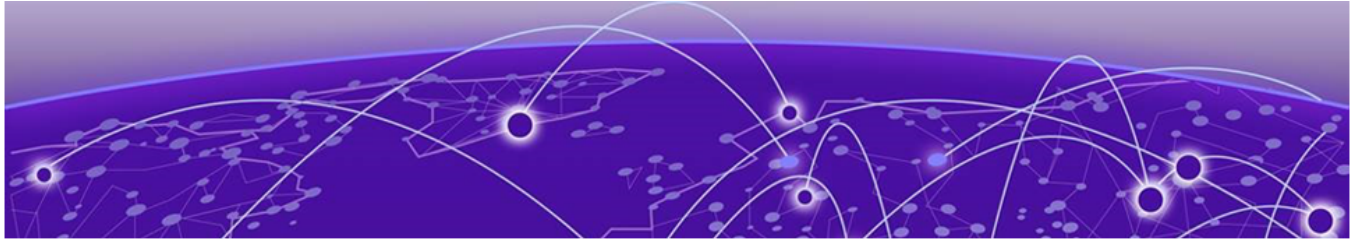
The Information Development team at Extreme Networks has made every effort to ensure the accuracy and completeness of this document. We are always striving to improve our documentation and help you work better, so we want to hear from you. We welcome all feedback, but we especially want to know about:

- 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.

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

[Supported Hardware](#) on page 13

Supported Hardware

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 20.1.1 supports the following hardware platforms.

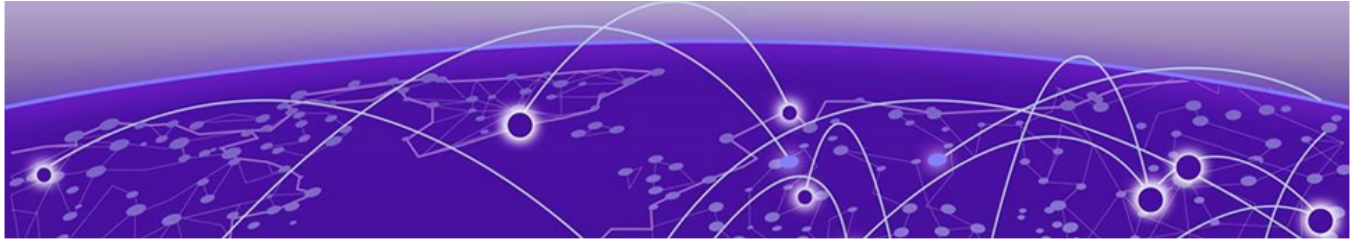
- Devices based on the Broadcom XGS® chipset family:
 - ExtremeSwitching SLX 9250
 - ExtremeSwitching SLX 9150
- Devices based on the Broadcom DNX® chipset family:
 - ExtremeRouting SLX 9640
 - ExtremeSwitching SLX 9540



Note

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

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



Using YANG

[YANG overview](#) on page 14

[Using the SLX-OS YANG Reference Guide](#) on page 14

YANG overview

YANG is a data modeling language used for modeling configuration and state data for manipulation by using remote procedure calls (RPCs).

Refer to RFC 6020, YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF), for full details of how to use YANG, and for a reference of all the features of the YANG language.

Using the SLX-OS YANG Reference Guide

The *Extreme SLX-OS YANG Reference Guide* is a reference for YANG modules supported by SLX-OS 20.1.1.

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

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

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

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

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

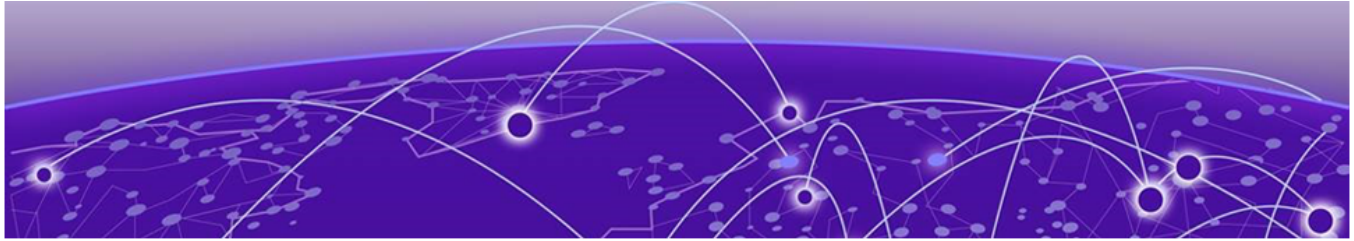
```
module:
  +--rw interface
  |   +--rw fc-port [name]
  |       +--rw name                interface-type
  |       +--rw fc-speed-cfg?       fc-speed-cfg-type
  |       +--rw fill-word?          fc-fillword-cfg-type
  |       +--rw vc-link-init?       fc-vc-link-init-cfg-type
```

```
|    +---rw isl-r_rdy-mode?    empty
|    +---rw trunk-enable?     empty
|    +---rw shutdown?        empty
```

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

Table 4: Field descriptions

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



YANG Modules

[extreme-aaa](#) on page 19
[extreme-aaa-ext](#) on page 23
[extreme-acl-policy](#) on page 24
[extreme-arp](#) on page 25
[extreme-beacon](#) on page 26
[extreme-bridge-domain](#) on page 27
[extreme-certutil](#) on page 28
[extreme-chassis](#) on page 29
[extreme-clock](#) on page 31
[extreme-common-def](#) on page 32
[extreme-control-plane](#) on page 84
[extreme-crypto](#) on page 85
[extreme-crypto-ext](#) on page 86
[extreme-dai](#) on page 87
[extreme-diagnostics](#) on page 88
[extreme-dot1ag](#) on page 90
[extreme-dot1x](#) on page 92
[extreme-entity](#) on page 93
[extreme-event-handler](#) on page 94
[extreme-firmware](#) on page 95
[extreme-firmware-ext](#) on page 102
[extreme-ha](#) on page 103
[extreme-hardware](#) on page 104
[extreme-http-config](#) on page 105
[extreme-http-redirect](#) on page 106
[extreme-igmp-snooping](#) on page 107
[extreme-interface](#) on page 108
[extreme-interface-ext](#) on page 127
[extreme-intf-loopback](#) on page 132
[extreme-ip-access-list](#) on page 133
[extreme-ip-administration](#) on page 135
[extreme-ip-config](#) on page 136
[extreme-ip-policy](#) on page 137
[extreme-ipv6-access-list](#) on page 138

[extreme-isis](#) on page 140
[extreme-isis-operational](#) on page 141
[extreme-l2sys-operational](#) on page 150
[extreme-lacp](#) on page 151
[extreme-lag](#) on page 152
[extreme-lfs](#) on page 154
[extreme-license](#) on page 155
[extreme-linecard-management](#) on page 156
[extreme-lldp](#) on page 157
[extreme-lldp-ext](#) on page 159
[extreme-mac-access-list](#) on page 160
[extreme-mac-address-table](#) on page 162
[extreme-mc-hms-operational](#) on page 164
[extreme-mct](#) on page 168
[extreme-mpls](#) on page 169
[extreme-mpls-operational](#) on page 177
[extreme-nameserver](#) on page 199
[extreme-netconf-ext](#) on page 200
[extreme-nsm-operational](#) on page 201
[extreme-ntp](#) on page 205
[extreme-ospf](#) on page 206
[extreme-ospfv3](#) on page 207
[extreme-pim](#) on page 208
[extreme-pim-operational](#) on page 209
[extreme-pw-profile](#) on page 211
[extreme-pwm-operational](#) on page 212
[extreme-qos-cpu](#) on page 214
[extreme-qos-mls](#) on page 215
[extreme-qos-mpls](#) on page 218
[extreme-qos-mqc](#) on page 220
[extreme-ras](#) on page 222
[extreme-ras-ext](#) on page 225
[brocade-RAS-operational](#) on page 226
[extreme-rbridge-lag](#) on page 229
[extreme-rmon](#) on page 230
[extreme-rpf](#) on page 231
[extreme-rtm](#) on page 232
[extreme-sec-services](#) on page 233
[extreme-sflow](#) on page 235
[extreme-snmp](#) on page 236
[extreme-span](#) on page 237
[extreme-ssm-operational](#) on page 238

[extreme-sysdiag-operational](#) on page 239
[extreme-sysmgr](#) on page 242
[extreme-sysmgr-operational](#) on page 243
[extreme-sysmon](#) on page 245
[extreme-system](#) on page 246
[extreme-system-capabilities](#) on page 247
[extreme-system-monitor](#) on page 248
[extreme-system-monitor-ext](#) on page 250
[extreme-system-watermark](#) on page 251
[extreme-telemetry](#) on page 252
[extreme-terminal](#) on page 253
[extreme-threshold-monitor](#) on page 254
[extreme-tm-stats](#) on page 255
[extreme-topology-group](#) on page 256
[extreme-tpvm](#) on page 257
[extreme-tunnels](#) on page 259
[extreme-tunnels-ext](#) on page 261
[extreme-udld](#) on page 263
[extreme-vcs](#) on page 264
[extreme-vlan](#) on page 266
[extreme-vrf](#) on page 267
[extreme-vrrp](#) on page 270
[extreme-vrrpv3](#) on page 271
[extreme-vxlan-visibility](#) on page 272
[extreme-xstp-ext](#) on page 274

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-iftyp
  |   |   |   +--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:mminfor
|   |   +---x linecard-management:mm
|   +--rw linecard-management:slotsinfor
|   |   +---x linecard-management:slots
|   +--rw linecard-management:latch-detection-info
|   |   +---x linecard-management:show-latch-detection
|   |   |   +---w linecard-management:input
|   |   |   |   +---w linecard-management:linecard?    fusion_slotnum
|   +--rw name-server:name-server
|   |   +---x name-server:brief
|   |   +---x name-server:detail
|   |   |   +--ro name-server:output
|   |   |   |   +--ro name-server:show-nameserver* [nameserver-portid]
|   |   |   |   |   +--ro name-server:nameserver-portid    nameserver-portid-
type
|   |   |   |   |   +--ro name-server:nameserver-portname?    common-def:wwn-type
|   |   |   |   |   +--ro name-server:nameserver-nodename?    common-def:wwn-type
|   |   |   |   |   +--ro name-server:nameserver-scr?    uint32
|   |   |   |   |   +--ro name-server:nameserver-fc4s?    nameserver-fc4s-type
|   |   |   |   |   +--ro name-server:nameserver-portsymb?    nameserver-symbolic-
name-type
|   |   |   |   |   +--ro name-server:nameserver-nodesymb?    nameserver-symbolic-
name-type
|   |   |   |   |   +--ro name-server:nameserver-fabric-portname?    common-def:wwn-type
|   |   |   |   |   +--ro name-server:nameserver-permanent-portname?    common-def:wwn-type
|   |   |   |   |   +--ro name-server:nameserver-devicetype?    nameserver-

```

devicetype-type				+++ro name-server:nameserver-index?	uint32
				+++ro name-server:nameserver-porttype?	nameserver-porttype-
type				+++ro name-server:nameserver-cos?	nameserver-cos-type
				+++ro name-server:nameserver-sharearea?	nameserver-sharearea-
type				+++ro name-server:nameserver-redirect?	nameserver-redirect-
type				+++ro name-server:nameserver-xlatedomain?	nameserver-
xlatedomain-type				+++ro name-server:nameserver-connected-via-ag?	nameserver-connected-
via-ag-type				+++ro name-server:nameserver-ag-base-device?	nameserver-ag-base-
device-type				+++ro name-server:nameserver-real?	nameserver-real-type
				+++ro name-server:nameserver-cascaded?	nameserver-cascaded-
type				+++x name-server:nodefind	
				+++w name-server:input	
				+++w (pid-or-wwn)?	
				++:(wwn)	
				+++w name-server:wwn	common-def:wwn-type
				++:(pid)	
				+++w name-server:pid	nameserver-fcid-hexstring-type
				+++x name-server:zonemember	
				+++w name-server:input	
				+++w (pid-or-wwn)?	
				++:(wwn)	
				+++w name-server:wwn	common-def:wwn-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-next-hop link-local-route-oif-type link-local-route-oif-name]
| | | +--rw ipv6-route:link-local-static-route-dest inet:ipv6-prefix
| | | +--rw ipv6-route:link-local-next-hop inet:ipv6-address
| | | +--rw ipv6-route:link-local-route-oif-type enumeration
| | | +--rw ipv6-route:link-local-route-oif-name string
| | | +--rw ipv6-route:route-attributes
| | | +--rw ipv6-route:metric? uint32
| | | +--rw ipv6-route:distance? uint32
| | | +--rw ipv6-route:tag? uint32
| | +--rw ipv6-route:static-route-nh-vrf* [static-route-next-vrf-dest next-hop-vrf
static-route-next-hop]
| | | +--rw ipv6-route:static-route-next-vrf-dest inet:ipv6-prefix
| | | +--rw ipv6-route:next-hop-vrf common-def:vrf-name
| | | +--rw ipv6-route:static-route-next-hop inet:ipv6-address
| | | +--rw ipv6-route:link-local-static-route-nh-vrf* [static-route-next-vrf-dest
next-hop-vrf link-local-next-hop link-local-route-oif-type link-local-route-oif-name]
| | | +--rw ipv6-route:static-route-next-vrf-dest inet:ipv6-prefix
| | | +--rw ipv6-route:next-hop-vrf common-def:vrf-name
| | | +--rw ipv6-route:link-local-next-hop inet:ipv6-address
| | | +--rw ipv6-route:link-local-route-oif-type enumeration
| | | +--rw ipv6-route:link-local-route-oif-name string
| | +--rw ipv6-route:ipv6-static-route-oif-vrf* [static-route-next-vrf-dest next-hop-
vrf static-route-oif-type static-route-oif-name]
| | | +--rw ipv6-route:static-route-next-vrf-dest inet:ipv6-prefix
| | | +--rw ipv6-route:next-hop-vrf common-def:vrf-name
| | | +--rw ipv6-route:static-route-oif-type enumeration
| | | +--rw ipv6-route:static-route-oif-name string
| +--rw ipv6-route:import
| | +--rw ipv6-route:routes* [src-vrf route-map]
| | | +--rw ipv6-route:src-vrf common-def:vrf-name
| | | +--rw ipv6-route:route-map common-def:name-string63
| +--rw vrrpv3:proto-vrrpv3
| | +--rw vrrpv3:vrrp? empty
| | | +--rw vrrpv3:vrrp-extended? empty
+--rw router
+--rw routing-system
+--rw router
| +--rw bgp:router-bgp!
| | +--rw bgp:router-bgp-attributes
| | | +--rw bgp:local-as? local-as-type
| | | +--rw bgp:always-compare-med? empty
| | | +--rw bgp:compare-med-empty-aspath? empty
| | | +--rw bgp:med-missing-as-worst? empty
| | | +--rw bgp:as-path-ignore? empty
| | | +--rw bgp:compare-routerid? empty

```



```

| | | +--rw bgp:install-igp-cost?          empty
| | | +--rw bgp:cluster-id
| | | | +--rw (ch-cluster-id)?
| | | |   +--:(ca-cluster-id)
| | | | |   +--rw bgp:cluster-id-value?      decimal-number
| | | | |   +--:(ca-cluster-id-ipv4-address)
| | | | |   +--rw bgp:cluster-id-ipv4-address?  inet:ipv4-address
| | | +--rw bgp:default-local-preference?    local-preference-number
| | | +--rw bgp:distance
| | | | +--rw bgp:ext-route-distance?    ext-route-distance
| | | | +--rw bgp:int-route-distance?    int-route-distance
| | | | +--rw bgp:lcl-route-distance?    lcl-route-distance
| | | +--rw bgp:capability
| | | | +--rw bgp:as4-enable?    empty
| | | +--rw bgp:maxas-limit
| | | | +--rw bgp:in
| | | | |   +--rw bgp:num-as-in-path?    num-as-in-path
| | | +--rw bgp:enforce-first-as?        empty
| | | +--rw bgp:fast-external-fallover?    empty
| | | +--rw bgp:timers
| | | | +--rw bgp:keep-alive?    nei-keep-alive
| | | | +--rw bgp:hold-time?    nei-hold-time
| | | +--rw bgp:log-dampening-debug?        empty
| | | +--rw bgp:confederation
| | | | +--rw bgp:identifier?    cidentifier
| | | | +--rw bgp:peers*        cidentifier
| | | +--rw bgp:bfd
| | | | +--rw bgp:holdover-interval?    bfd:bfd-holdover-interval
| | | | +--rw bgp:interval
| | | | |   +--rw bgp:min-tx?        bfd-tx-interval-type
| | | | |   +--rw bgp:min-rx?        bfd-rx-interval-type
| | | | |   +--rw bgp:multiplier?    bfd-multiplier-type
| | | +--rw bgp:auto-shutdown-new-neighbors?    empty
| | | +--rw bgp:neighbor
| | | | +--rw bgp:peer-grps
| | | | |   +--rw bgp:neighbor-peer-grp* [router-bgp-neighbor-peer-grp]
| | | | |   |   +--rw bgp:router-bgp-neighbor-peer-grp    bgp-peergroup
| | | | |   |   +--rw bgp:peer-group-name?                empty
| | | | |   |   +--rw bgp:remote-as?                    bgp-remote-as
| | | | |   +--rw bgp:update-source
| | | | |   |   +--rw (ch-update-source)?
| | | | |   |   |   +--:(ca-ipv4)
| | | | |   |   |   |   +--rw bgp:sip-ipv4-address?    sip-ipv4-address
| | | | |   |   |   |   +--:(ca-eth)
| | | | |   |   |   |   +--rw bgp:ethernet-interface
| | | | |   |   |   |   |   +--rw bgp:interface-type?    enumeration
| | | | |   |   |   |   |   +--rw bgp:interface-name?    update-source-ethernet-
type
| | | | |   |   |   |   |   |   +--:(ca-loopback)
| | | | |   |   |   |   |   |   |   +--rw bgp:loopback?    loopback-interface
| | | | |   |   |   |   |   |   |   +--:(ca-ve)
| | | | |   |   |   |   |   |   |   |   +--rw bgp:ve-interface?    interface:ve-type
| | | | |   |   |   |   |   |   |   |   +--rw bgp:description?    neighbor-description
| | | | |   |   |   |   |   |   |   +--rw bgp:local-as
| | | | |   |   |   |   |   |   |   |   +--rw bgp:local-as-value?    local-as-num
| | | | |   |   |   |   |   |   |   |   +--rw bgp:no-prepend?    empty
| | | | |   |   |   |   |   |   |   +--rw bgp:next-hop-self
| | | | |   |   |   |   |   |   |   |   +--rw (ch-next-hop-self-type)?
| | | | |   |   |   |   |   |   |   |   |   +--:(ca-next-hop-self-always)
| | | | |   |   |   |   |   |   |   |   |   |   +--rw bgp:next-hop-self-always?    empty
| | | | |   |   |   |   |   |   |   |   |   |   +--:(ca-next-hop-self-status)
| | | | |   |   |   |   |   |   |   |   |   |   |   +--rw bgp:next-hop-self-status?    empty
| | | | |   |   |   |   |   |   |   +--rw bgp:advertisement-interval
| | | | |   |   |   |   |   |   |   |   +--rw bgp:value?    adv-value

```

					+++rw bgp:ebgp-btsh?	empty
					+++rw bgp:ebgp-multihop	
					+++rw (ch-ebgp-multihop-type)?	
					+++:(ca-ebgp-multihop-flag)	
					+++rw bgp:ebgp-multihop-flag?	empty
					+++:(ca-ebgp-multihop-count)	
					+++rw bgp:ebgp-multihop-count?	uint32
					+++rw bgp:password?	bgp-password
					+++rw bgp:enforce-first-as	
					+++rw bgp:nei-enforce-first-as?	empty
					+++rw bgp:nei-enforce-first-as-disable?	empty
					+++rw bgp:timers	
					+++rw bgp:nei-keep-alive?	nei-keep-alive
					+++rw bgp:nei-hold-time?	nei-hold-time
					+++rw bgp:remove-private-as?	empty
					+++rw bgp:as-override?	empty
					+++rw bgp:soft-reconfiguration	
					+++rw bgp:inbound?	empty
					+++rw bgp:static-network-edge?	empty
					+++rw bgp:bfd	
					+++rw bgp:bfd-enable?	empty
					+++rw bgp:holdover-interval?	bfd:bfd-holdover-interval
					+++rw bgp:interval	
					+++rw bgp:min-tx?	bfd-tx-interval-type
					+++rw bgp:min-rx?	bfd-rx-interval-type
					+++rw bgp:multiplier?	bfd-multiplier-type
					+++rw bgp:maxas-limit	
					+++rw bgp:in	
					+++rw (ch-maxas-limit)?	
					+++:(ca-maxas-limit-enable)	
					+++rw bgp:num-as-in-as-path?	num-as-in-as-path
					+++:(ca-maxas-limit-disable)	
					+++rw bgp:maxas-limit-disable?	empty
					+++rw bgp:af-neighbor-capability	
					+++rw bgp:as4	
					+++rw bgp:neighbor-as4-enable?	empty
					+++rw bgp:neighbor-as4-disable?	empty
					+++rw bgp:shutdown	
					+++rw bgp:shutdown-status?	empty
					+++rw bgp:generate-rib-out?	empty
					+++rw bgp:neighbor-ipv6s	
					+++rw bgp:neighbor-ipv6-addr* [router-bgp-neighbor-ipv6-address]	
					+++rw bgp:router-bgp-neighbor-ipv6-address	inet:ipv6-address
					+++rw bgp:remote-as?	bgp-remote-as
					+++rw bgp:associate-peer-group?	bgp-peergroup
					+++rw bgp:update-source	
					+++rw (ch-update-source)?	
					+++:(ca-ipv6)	
					+++rw bgp:sip-ipv6-address?	sip-ipv6-address
					+++:(ca-eth)	
					+++rw bgp:ethernet-interface	
					+++rw bgp:interface-type?	enumeration
					+++rw bgp:interface-name?	update-source-ethernet-
type					+++:(ca-loopback)	
					+++rw bgp:loopback?	loopback-interface
					+++:(ca-ve)	
					+++rw bgp:ve-interface?	interface:ve-type
					+++rw bgp:description?	neighbor-description
					+++rw bgp:local-as	
					+++rw bgp:local-as-value?	local-as-num
					+++rw bgp:no-prepend?	empty
					+++rw bgp:next-hop-self	
					+++rw (ch-next-hop-self-type)?	

```

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

```

									+--rw bgp:prefixlist		
									+---rw bgp:prefixlist-status?	empty	
									+---rw bgp:prefixlist-send?	empty	
									+---rw bgp:prefixlist-receive?	empty	
									+--rw bgp:activate?	empty	
									+--rw bgp:allowas-in?	uint32	
									+--rw bgp:filter-list		
									+---rw bgp:direction-in		
filter-name									+---rw bgp:filter-list-direction-in-acl-name?	ip-	
									+---rw bgp:filter-list-name-direction-in?		
empty									+---rw bgp:direction-out		
									+---rw bgp:filter-list-direction-out-acl-name?	ip-	
filter-name									+---rw bgp:filter-list-name-direction-out?		
empty									+--rw bgp:maximum-prefix		
									+---rw bgp:max-prefix-limit?	max-prefix-limit	
									+---rw bgp:threshold-holder		
									+---rw bgp:threshold?	max-prefix-threshold	
									+---rw bgp:teardown?	empty	
									+--rw bgp:default-originate		
									+---rw bgp:default-originate-status?	empty	
									+--rw bgp:prefix-list		
									+---rw bgp:direction-in		
									+---rw bgp:prefix-list-direction-in-prefix-name?		
nei-prefix-list-filter									+---rw bgp:prefix-list-direction-in?		
empty									+---rw bgp:direction-out		
									+---rw bgp:prefix-list-direction-out-prefix-name?		
nei-prefix-list-filter									+---rw bgp:prefix-list-direction-out?		
empty									+--rw bgp:neighbor-route-map		
									+---rw bgp:neighbor-route-map-direction-in		
									+---rw bgp:neighbor-route-map-name-direction-in?		
common-def:name-string64									+---rw bgp:neighbor-route-map-direction-out		
									+---rw bgp:neighbor-route-map-name-direction-out?		
common-def:name-string64									+--rw bgp:route-reflector-client?	empty	
									+--rw bgp:unsuppress-map		
									+---rw bgp:map-name?	rmap-type	
									+--rw bgp:af-nei-weight?	nei-weight	
									+--rw bgp:enable-peer-as-check?	empty	
									+--rw bgp:additional-paths		
									+---rw bgp:addpath-disable?	empty	
									+--rw bgp:addpath-txrx		
									+---rw bgp:addpath-send?	empty	
									+---rw bgp:addpath-receive?	empty	
									+--rw bgp:addpath-advertise		
									+---rw bgp:addpath-adv-best?	uint8	
									+---rw bgp:addpath-adv-groupbest?	empty	
									+---rw bgp:addpath-adv-all?	empty	
									+--rw bgp:af-ipv4-neighbor-address-holder		
address]									+--rw bgp:af-ipv4-neighbor-address*	[af-ipv4-neighbor-	
									+--rw bgp:af-ipv4-neighbor-address	inet:ipv4-address	
									+--rw bgp:send-community		
									+---rw bgp:send-community-status?	empty	
									+--rw bgp:both?	empty	
									+--rw bgp:extended?	empty	

								+--rw bgp:standard?	empty
								+--rw bgp:af-neighbor-capability	
								+--rw bgp:orf	
								+--rw bgp:prefixlist	
								+--rw bgp:prefixlist-status?	empty
								+--rw bgp:prefixlist-send?	empty
								+--rw bgp:prefixlist-receive?	empty
								+--rw bgp:activate?	empty
								+--rw bgp:allowas-in?	uint32
								+--rw bgp:filter-list	
								+--rw bgp:direction-in	
filter-name								+--rw bgp:filter-list-direction-in-acl-name?	ip-
								+--rw bgp:filter-list-name-direction-in?	
empty								+--rw bgp:direction-out	
								+--rw bgp:filter-list-direction-out-acl-name?	ip-
filter-name								+--rw bgp:filter-list-name-direction-out?	
empty								+--rw bgp:maximum-prefix	
								+--rw bgp:max-prefix-limit?	max-prefix-limit
								+--rw bgp:threshold-holder	
								+--rw bgp:threshold?	max-prefix-threshold
								+--rw bgp:teardown?	empty
								+--rw bgp:default-originate	
								+--rw bgp:default-originate-status?	empty
								+--rw bgp:prefix-list	
								+--rw bgp:direction-in	
								+--rw bgp:prefix-list-direction-in-prefix-name?	
nei-prefix-list-filter								+--rw bgp:prefix-list-direction-in?	
empty								+--rw bgp:direction-out	
								+--rw bgp:prefix-list-direction-out-prefix-name?	
nei-prefix-list-filter								+--rw bgp:prefix-list-direction-out?	
empty								+--rw bgp:neighbor-route-map	
								+--rw bgp:neighbor-route-map-direction-in	
								+--rw bgp:neighbor-route-map-name-direction-in?	
common-def:name-string64								+--rw bgp:neighbor-route-map-direction-out	
								+--rw bgp:neighbor-route-map-name-direction-out?	
common-def:name-string64								+--rw bgp:route-reflector-client?	empty
								+--rw bgp:unsuppress-map	
								+--rw bgp:map-name?	rmap-type
								+--rw bgp:af-nei-weight?	nei-weight
								+--rw bgp:enable-peer-as-check?	empty
								+--rw bgp:additional-paths	
								+--rw bgp:addpath-disable?	empty
								+--rw bgp:addpath-txrx	
								+--rw bgp:addpath-send?	empty
								+--rw bgp:addpath-receive?	empty
								+--rw bgp:addpath-advertise	
								+--rw bgp:addpath-adv-best?	uint8
								+--rw bgp:addpath-adv-groupbest?	empty
								+--rw bgp:addpath-adv-all?	empty
								+--rw bgp:af-ipv4u-ipv6-attr-holder	
								+--rw bgp:af-ipv4u-ipv6-neighbor*	[ipv6-address]
								+--rw bgp:ipv6-address	inet:ipv6-address
								+--rw bgp:activate?	empty
								+--rw bgp:af-common-cmds-holder	

48 Extreme SLX-OS YANG Reference Guide, 20.1.1


```

| | | | | +---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

```

50 Extreme SLX-OS
YANG Reference Guide, 20.1.1

					+++rw bgp:advertisement-interval	
					+++rw bgp:value? adv-value	
					+++rw bgp:ebgp-btsh?	empty
					+++rw bgp:ebgp-multihop	
					+++rw (ch-ebgp-multihop-type)?	
					+++:(ca-ebgp-multihop-flag)	
					+++rw bgp:ebgp-multihop-flag?	empty
					+++:(ca-ebgp-multihop-count)	
					+++rw bgp:ebgp-multihop-count?	uint32
					+++rw bgp:password?	bgp-password
					+++rw bgp:enforce-first-as	
					+++rw bgp:nei-enforce-first-as?	empty
					+++rw bgp:nei-enforce-first-as-disable?	empty
					+++rw bgp:timers	
					+++rw bgp:nei-keep-alive?	nei-keep-alive
					+++rw bgp:nei-hold-time?	nei-hold-time
					+++rw bgp:remove-private-as?	empty
					+++rw bgp:as-override?	empty
					+++rw bgp:soft-reconfiguration	
					+++rw bgp:inbound?	empty
					+++rw bgp:static-network-edge?	empty
					+++rw bgp:bfd	
					+++rw bgp:bfd-enable?	empty
					+++rw bgp:holdover-interval?	bfd:bfd-holdover-
interval						
					+++rw bgp:interval	
					+++rw bgp:min-tx?	bfd-tx-interval-type
					+++rw bgp:min-rx?	bfd-rx-interval-type
					+++rw bgp:multiplier?	bfd-multiplier-type
					+++rw bgp:maxas-limit	
					+++rw bgp:in	
					+++rw (ch-maxas-limit)?	
					+++:(ca-maxas-limit-enable)	
as-path					+++rw bgp:num-as-in-as-path?	num-as-in-
					+++:(ca-maxas-limit-disable)	
					+++rw bgp:maxas-limit-disable?	empty
					+++rw bgp:update-source	
					+++rw (ch-update-source)?	
					+++:(ca-ipv4)	
					+++rw bgp:sip-ipv4-address?	sip-ipv4-address
					+++:(ca-eth)	
					+++rw bgp:ethernet-interface	
					+++rw bgp:interface-type?	enumeration
					+++rw bgp:interface-name?	update-source-
ethernet-type						
					+++:(ca-loopback)	
					+++rw bgp:loopback?	loopback-
interface						
					+++:(ca-ve)	
					+++rw bgp:ve-interface?	interface:ve-
type						
					+++rw bgp:send-community	
					+++rw bgp:send-community-status?	empty
					+++rw bgp:both?	empty
					+++rw bgp:extended?	empty
					+++rw bgp:standard?	empty
					+++rw bgp:activate?	empty
					+++rw bgp:maximum-paths	
					+++rw bgp:load-sharing-value?	uint32
					+++rw bgp:ebgp?	ebgp-paths
					+++rw bgp:ibgp?	ibgp-paths
					+++rw bgp:use-load-sharing?	empty
					+++rw bgp:multipath	

				+--rw bgp:multipath_ibgp?	empty	
				+--rw bgp:multipath_ibgp?	empty	
				+--rw bgp:multi-as?	empty	
				+--rw bgp:always-propagate?		empty
				+--rw bgp:default-information-originate?		empty
				+--rw bgp:rib-route-limit?		rib-route-
number				+--rw bgp:client-to-client-reflection?		empty
				+--rw bgp:dampening		
				+--rw (ch-dampening-source)?		
				---:(ca-dampening-flag)		
				+--rw bgp:dampening-flag?	empty	
				---:(ca-dampening-specify-values)		
				+--rw bgp:values		
				+--rw bgp:half-time?	htime	
				+--rw bgp:reuse-value?	damp-reuse-value	
				+--rw bgp:start-suppress-time?	damp-start-suppress-	
value				+--rw bgp:max-suppress-time?	damp-max-suppress-	
value				---:(ca-dampening-route-map)		
				+--rw bgp:dampening-route-map?	rmap-type	
				+--rw bgp:default-metric?		default-
metric-number				+--rw bgp:next-hop-enable-default?		empty
				+--rw bgp:table-map		
				+--rw bgp:table-map-route-map?	rmap-type	
				+--rw bgp:update-time?		update-
time-type				+--rw bgp:ipv6		
				+--rw bgp:ipv6-unicast		
				+--rw bgp:default-vrf		
				+--rw bgp:default-vrf-selected?		empty
				+--rw bgp:af-ipv6-uc-and-vrfcmds-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	
				static		

Extreme SLX-OS
YANG Reference Guide, 20.1.1 **53**

54 Extreme SLX-OS
YANG Reference Guide, 20.1.1

						+--rw bgp:prefix-list	
						+--rw bgp:direction-in	
						+--rw bgp:prefix-list-direction-in-prefix-name?	
nei-prefix-list-filter							
empty						+--rw bgp:prefix-list-direction-in?	
						+--rw bgp:direction-out	
						+--rw bgp:prefix-list-direction-out-prefix-name?	
nei-prefix-list-filter							
empty						+--rw bgp:prefix-list-direction-out?	
						+--rw bgp:neighbor-route-map	
						+--rw bgp:neighbor-route-map-direction-in	
						+--rw bgp:neighbor-route-map-name-direction-in?	
common-def:name-string64							
						+--rw bgp:neighbor-route-map-direction-out	
						+--rw bgp:neighbor-route-map-name-direction-out?	
common-def:name-string64							
						+--rw bgp:route-reflector-client?	empty
						+--rw bgp:unsuppress-map	
						+--rw bgp:map-name?	rmap-type
						+--rw bgp:af-nei-weight?	nei-weight
						+--rw bgp:enable-peer-as-check?	empty
						+--rw bgp:additional-paths	
						+--rw bgp:addpath-disable?	empty
						+--rw bgp:addpath-txrx	
						+--rw bgp:addpath-send?	empty
						+--rw bgp:addpath-receive?	empty
						+--rw bgp:addpath-advertise	
						+--rw bgp:addpath-adv-best?	uint8
						+--rw bgp:addpath-adv-groupbest?	empty
						+--rw bgp:addpath-adv-all?	empty
						+--rw bgp:af-common-cmds-holder	
						+--rw bgp:maximum-paths	
						+--rw bgp:load-sharing-value?	uint32
						+--rw bgp:ebgp?	ebgp-paths
						+--rw bgp:ibgp?	ibgp-paths
						+--rw bgp:use-load-sharing?	empty
						+--rw bgp:multipath	
						+--rw bgp:multipath_ebgp?	empty
						+--rw bgp:multipath_ibgp?	empty
						+--rw bgp:multi-as?	empty
						+--rw bgp:always-propagate?	empty
						+--rw bgp:default-information-originate?	empty
						+--rw bgp:rib-route-limit?	rib-route-number
						+--rw bgp:client-to-client-reflection?	empty
						+--rw bgp:dampening	
						+--rw (ch-dampening-source)?	
						+--:(ca-dampening-flag)	
						+--rw bgp:dampening-flag?	empty
						+--:(ca-dampening-specify-values)	
						+--rw bgp:values	
						+--rw bgp:half-time?	htime
						+--rw bgp:reuse-value?	damp-reuse-value
						+--rw bgp:start-suppress-time?	damp-start-
suppress-value							
						+--rw bgp:max-suppess-time?	damp-max-suppress-
value							
						+--:(ca-dampening-route-map)	
						+--rw bgp:dampening-route-map?	rmap-type
						+--rw bgp:default-metric?	default-metric-
number							
						+--rw bgp:next-hop-enable-default?	empty
						+--rw bgp:table-map	

```

| | | | | +--rw bgp:table-map-route-map? rmap-type
| | | | | +--rw bgp:update-time? update-time-type
| | | | | +--rw bgp:graceful-restart
| | | | | | +--rw bgp:graceful-restart-status? empty
| | | | | | +--rw bgp:restart-time? rtime-type
| | | | | | +--rw bgp:purge-time? ptime-type
| | | | | | +--rw bgp:stale-routes-time? st-time-type
| | | | | +--rw bgp:ipv6-ucast-next-hop-recursion? empty
+--rw bgp:af-ipv6-vrf* [af-ipv6-vrf-name]
| | +--rw bgp:af-ipv6-vrf-name string
| | +--rw bgp:next-hop-recursion? empty
| | +--rw bgp:graceful-restart-status? empty
+--rw bgp:af-ipv6-uc-and-vrf-cmds-call-point-holder
| | +--rw bgp:bgp- redistribute-internal? empty
| | +--rw bgp: redistribute
| | | +--rw bgp: bgp
| | | | +--rw bgp: redistribute-bgp? empty
| | | | | +--rw bgp: bgp-metric? conn-metric
| | | | | +--rw bgp: bgp-route-map? rmap-type
| | | +--rw bgp: connected
| | | | +--rw bgp: redistribute-connected? empty
| | | | +--rw bgp: unicast-metric? conn-metric
| | | | +--rw bgp: redistribute-route-map? rmap-type
| | | +--rw bgp: ospf
| | | | +--rw bgp: redistribute-ospf? empty
| | | | +--rw bgp: match
| | | | | +--rw bgp: ospf-internal? empty
| | | | | +--rw bgp: ospf-external1? empty
| | | | | +--rw bgp: ospf-external2? empty
| | | | | +--rw bgp: ospf-metric? conn-metric
| | | | | +--rw bgp: ospf-route-map? rmap-type
| | | +--rw bgp: redistribute-isis!
| | | | +--rw bgp: redistribute-isis-route-map? common-def:name-
string63
| | | | +--rw (ch-isis-level)?
| | | | | +--:(ca-level-1)
| | | | | | +--rw bgp: level-1? empty
| | | | | | +--:(ca-level-2)
| | | | | | +--rw bgp: level-2? empty
| | | | | | +--:(ca-level-1-2)
| | | | | | +--rw bgp: level-1-2? empty
| | | | | +--rw bgp: redistribute-isis-metric? conn-metric
| | | +--rw bgp: static
| | | | +--rw bgp: redistribute-static? empty
| | | | +--rw bgp: unicast-static-metric? conn-metric
| | | | +--rw bgp: static-route-map? rmap-type
| | +--rw bgp: af-additional-paths
| | | +--rw bgp: addpath-txrx
| | | | +--rw bgp: addpath-send? empty
| | | | +--rw bgp: addpath-receive? empty
| | | +--rw bgp: addpath-select
| | | | +--rw bgp: addpath-sel-best? uint8
| | | | +--rw bgp: addpath-sel-groupbest? empty
| | | | +--rw bgp: addpath-sel-all? empty
| | | +--rw bgp: advertise-best-external? empty
+--rw bgp: aggregate-ipv6-address* [aggregate-ip-prefix]
| | +--rw bgp: aggregate-ip-prefix inet:ipv6-prefix
| | +--rw bgp: advertise-map? advertise-map
| | +--rw bgp: as-set? empty
| | +--rw bgp: attribute-map? attribute-map
| | +--rw bgp: summary-only? empty
| | +--rw bgp: suppress-map? suppress-map
+--rw bgp: network* [network-ipv6-address]
| | +--rw bgp: network-ipv6-address inet:ipv6-prefix

```


					+++rw bgp:network-weight?	absolute-decimal-number
					+++rw bgp:backdoor?	empty
					+++rw bgp:network-route-map?	rmap-type
				+++rw bgp:neighbor		
					+++rw bgp:af-ipv6-vrf-neighbor-address-holder	
					+++rw bgp:af-ipv6-neighbor-addr* [af-ipv6-neighbor-address]	
					+++rw bgp:af-ipv6-neighbor-address	inet:ipv6-address
					+++rw bgp:remote-as?	bgp-remote-as
					+++rw bgp:shutdown	
					+++rw bgp:shutdown-status?	empty
					+++rw bgp:generate-rib-out?	empty
					+++rw bgp:af-vrf-neighbor-capability	
					+++rw bgp:as4	
					+++rw bgp:neighbor-as4-enable?	empty
					+++rw bgp:neighbor-as4-disable?	empty
					+++rw bgp:orf	
					+++rw bgp:prefixlist	
					+++rw bgp:prefixlist-status?	empty
					+++rw bgp:prefixlist-send?	empty
					+++rw bgp:prefixlist-receive?	empty
					+++rw bgp:allowas-in?	uint32
					+++rw bgp:filter-list	
					+++rw bgp:direction-in	
					+++rw bgp:filter-list-direction-in-acl-name?	ip-
filter-name					+++rw bgp:filter-list-name-direction-in?	
empty					+++rw bgp:direction-out	
					+++rw bgp:filter-list-direction-out-acl-name?	ip-
filter-name					+++rw bgp:filter-list-name-direction-out?	
empty					+++rw bgp:maximum-prefix	
					+++rw bgp:max-prefix-limit?	max-prefix-limit
					+++rw bgp:threshold-holder	
					+++rw bgp:threshold?	max-prefix-threshold
					+++rw bgp:teardown?	empty
					+++rw bgp:default-originate	
					+++rw bgp:default-originate-status?	empty
					+++rw bgp:prefix-list	
					+++rw bgp:direction-in	
					+++rw bgp:prefix-list-direction-in-prefix-name?	
nei-prefix-list-filter					+++rw bgp:prefix-list-direction-in?	
empty					+++rw bgp:direction-out	
					+++rw bgp:prefix-list-direction-out-prefix-name?	
nei-prefix-list-filter					+++rw bgp:prefix-list-direction-out?	
empty					+++rw bgp:neighbor-route-map	
					+++rw bgp:neighbor-route-map-direction-in	
					+++rw bgp:neighbor-route-map-name-direction-in?	
common-def:name-string64					+++rw bgp:neighbor-route-map-direction-out	
					+++rw bgp:neighbor-route-map-name-direction-out?	
common-def:name-string64					+++rw bgp:route-reflector-client?	empty
					+++rw bgp:unsuppress-map	
					+++rw bgp:map-name?	rmap-type
					+++rw bgp:af-nei-weight?	nei-weight
					+++rw bgp:enable-peer-as-check?	empty
					+++rw bgp:additional-paths	
					+++rw bgp:adddpath-disable?	empty

					+--rw bgp:addpath-txrx	
					+--rw bgp:addpath-send?	empty
					+--rw bgp:addpath-receive?	empty
					+--rw bgp:addpath-advertise	
					+--rw bgp:addpath-adv-best?	uint8
					+--rw bgp:addpath-adv-groupbest?	empty
					+--rw bgp:addpath-adv-all?	empty
				+--rw	bgp:associate-peer-group?	bgp-peergroup
				+--rw	bgp:maxas-limit	
					+--rw bgp:in	
					+--rw (ch-maxas-limit)?	
					+---:(ca-maxas-limit-enable)	
					+--rw bgp:num-as-in-as-path?	num-as-in-
as-path					+---:(ca-maxas-limit-disable)	
					+--rw bgp:maxas-limit-disable?	empty
				+--rw	bgp:description?	neighbor-
description						
					+--rw bgp:local-as	
					+--rw bgp:local-as-value?	local-as-num
					+--rw bgp:no-prepend?	empty
				+--rw	bgp:next-hop-self	
					+--rw (ch-next-hop-self-type)?	
					+---:(ca-next-hop-self-always)	
					+--rw bgp:next-hop-self-always?	empty
					+---:(ca-next-hop-self-status)	
					+--rw bgp:next-hop-self-status?	empty
				+--rw	bgp:advertisement-interval	
					+--rw bgp:value?	adv-value
				+--rw	bgp:ebgp-btsh?	empty
				+--rw	bgp:ebgp-multihop	
					+--rw (ch-ebgp-multihop-type)?	
					+---:(ca-ebgp-multihop-flag)	
					+--rw bgp:ebgp-multihop-flag?	empty
					+---:(ca-ebgp-multihop-count)	
					+--rw bgp:ebgp-multihop-count?	uint32
				+--rw	bgp:password?	bgp-password
				+--rw	bgp:enforce-first-as	
					+--rw bgp:nei-enforce-first-as?	empty
					+--rw bgp:nei-enforce-first-as-disable?	empty
				+--rw	bgp:timers	
					+--rw bgp:nei-keep-alive?	nei-keep-alive
					+--rw bgp:nei-hold-time?	nei-hold-time
				+--rw	bgp:remove-private-as?	empty
				+--rw	bgp:as-override?	empty
				+--rw	bgp:soft-reconfiguration	
					+--rw bgp:inbound?	empty
				+--rw	bgp:static-network-edge?	empty
				+--rw	bgp:bfd	
					+--rw bgp:bfd-enable?	empty
					+--rw bgp:holdover-interval?	bfd:bfd-holdover-
interval						
					+--rw bgp:interval	
					+--rw bgp:min-tx?	bfd-tx-interval-type
					+--rw bgp:min-rx?	bfd-rx-interval-type
					+--rw bgp:multipplier?	bfd-multipplier-type
				+--rw	bgp:update-source	
					+--rw (ch-update-source)?	
					+---:(ca-ip6v6)	
					+--rw bgp:sip-ip6v6-address?	sip-ip6v6-address
					+---:(ca-eth)	
					+--rw bgp:ethernet-interface	
					+--rw bgp:interface-type?	enumeration
					+--rw bgp:interface-name?	update-source-

ethernet-type						+++:(ca-loopback)	
						+--rw bgp:loopback?	loopback-
interface						+++:(ca-ve)	
						+--rw bgp:ve-interface?	interface:ve-
type						+--rw bgp:send-community	
						+--rw bgp:send-community-status?	empty
						+--rw bgp:both?	empty
						+--rw bgp:extended?	empty
						+--rw bgp:standard?	empty
						+--rw bgp:activate?	empty
						+--rw bgp:maximum-paths	
						+--rw bgp:load-sharing-value?	uint32
						+--rw bgp:ebgp?	ebgp-paths
						+--rw bgp:ibgp?	ibgp-paths
						+--rw bgp:use-load-sharing?	empty
						+--rw bgp:multipath	
						+--rw bgp:multipath_ebgp?	empty
						+--rw bgp:multipath_ibgp?	empty
						+--rw bgp:multi-as?	empty
						+--rw bgp:always-propagate?	empty
						+--rw bgp:default-information-originate?	empty
						+--rw bgp:rib-route-limit?	rib-route-
number						+--rw bgp:client-to-client-reflection?	empty
						+--rw bgp:dampening	
						+--rw (ch-dampening-source)?	
						+--:(ca-dampening-flag)	
						+--rw bgp:dampening-flag?	empty
						+--:(ca-dampening-specify-values)	
						+--rw bgp:values	
						+--rw bgp:half-time?	htime
						+--rw bgp:reuse-value?	damp-reuse-value
						+--rw bgp:start-suppress-time?	damp-start-suppress-
value						+--rw bgp:max-suppress-time?	damp-max-suppress-
value						+--:(ca-dampening-route-map)	
						+--rw bgp:dampening-route-map?	rmap-type
						+--rw bgp:default-metric?	default-
metric-number						+--rw bgp:next-hop-enable-default?	empty
						+--rw bgp:table-map	
						+--rw bgp:table-map-route-map?	rmap-type
						+--rw bgp:update-time?	update-
time-type						+--rw bgp:l2vpn	
						+--rw bgp:evpn!	
						+--rw bgp: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-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-bgpp-levels)?	
					+---:(ca-bgpp-level1)	
					+---rw isis:bgpp-level1?	empty
					+---:(ca-bgpp-level2)	
					+---rw isis:bgpp-level2?	empty
					+---:(ca-bgpp-level12)	
					+---rw isis:bgpp-level12?	empty
					+---rw isis:bgpp-metric-type?	is-metric-type-t
					+--rw isis:isis	
					+---rw isis:level-1	
					+---rw isis:into	
					+---rw isis:levell-into-level2	
					+---rw (ch-prefix-list-levell-disable)?	
					+---:(ca-prefix-list-levell)	
					+---rw isis:prefix-list-	
levell1?					+---:(ca-levell-into-level2-disable)	
					+---rw isis:levell-into-level2-	
disable?						empty
					+---rw isis:level-2	
					+---rw isis:into	
					+---rw isis:level2-into-level1!	
					+---rw isis:prefix-list-level2?	string
					+--rw isis:ipv6	
					+---rw isis:af-ipv6-unicast!	
					+---rw isis:af-ipv6-attributes	
					+---rw isis:disable-adjacency-check?	empty
					+---rw isis:summary-prefix*	[summary-prefix-ipv6]
prefix					+---rw isis:summary-prefix-ipv6	common-def:ipv6-address-
					+---rw isis:summary-prefix-level1?	empty
					+---rw isis:summary-prefix-level2?	empty
					+--rw isis:ipv6-default-link-metric	
					+---rw isis:ipv6-default-link-metric-level1?	uint32
					+---rw isis:ipv6-default-link-metric-level2?	uint32
					+--rw isis:multi-topology!	
					+---rw isis:multi-topology-transition?	empty
					+--rw isis:spf6-interval*	[spf6-interval-level]
					+---rw isis:spf6-interval-level	enumeration
					+---rw isis:spf6-interval-max-hold-time?	uint32
					+---rw isis:spf6-interval-initial-delay?	uint32
					+---rw isis:spf6-interval-hold-time?	uint32
					+--rw isis:partial6-spf-interval	
					+---rw isis:pspf6-max-hold-time?	uint32
					+---rw isis:pspf6-init-delay?	uint32
					+---rw isis:pspf6-hold-time?	uint32
					+--rw isis:af-common-attributes	
					+---rw isis:default-information-originate!	
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!	


```

| | | | +--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:multiplier? bfd-multiplier-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						

Extreme SLX-OS

```

| | | +--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

```

```

| | | +--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
| | | | +--:(fibrechannell)
| | | | +---w fibrechannell?  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-ifttype
| | | | | | | +--rw dhcpv6:interface-name?        dhcpv6-ifname
| | | +--rw icmp:icmpv6
| | | | +--rw icmp:rate-limiting?            uint32
| | | | +--rw icmp:redirect?                 empty
| | | +--rw ipv6-access-list:access-group* [ipv6-access-list ip-direction]
| | | | +--rw ipv6-access-list:ipv6-access-list ipv6-l3-acl-policy-name
| | | | +--rw ipv6-access-list:ip-direction    enumeration
| | | | +--rw ipv6-access-list:traffic-type?   enumeration
| | | +--rw ip-policy:policy
| | | | +--rw ip-policy:route-map
| | | | | +--rw ip-policy:ipv6-route-map-name?    common-def:name-string63

```

```

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

```



```

| | | | | +---rw ipv6-nd-ra:off-link? empty
| | | | | +---rw ipv6-nd-ra:neighbor* [ipv6-address]
| | | | | +---rw ipv6-nd-ra:ipv6-address neighbor-ipv6-address
| | | | | +---rw ipv6-nd-ra:hardware-address? macAddr
| | | +---rw isis:intf-ipv6-router-isis
| | | | +---rw isis:int-ipv6-router-isis
| | | | +---rw isis:interface-ipv6-router-isis? empty
| | | +---rw ospfv3:interface-ospfv3-conf
| | | | +---rw ospfv3:interface-area? ospf:ospf-area-id
| | | | +---rw ospfv3:active? empty
| | | | +---rw ospfv3:passive? empty
| | | | +---rw ospfv3:bfd
| | | | | +---rw ospfv3:bfd-enable? empty
| | | | +---rw ospfv3:cost? uint32
| | | | +---rw ospfv3:instance? uint32
| | | | +---rw ospfv3:mtu-ignore? empty
| | | | +---rw ospfv3:network? enumeration
| | | | +---rw ospfv3:priority? uint32
| | | | +---rw ospfv3:suppress-linklsa? empty
| | | | +---rw ospfv3:link-interval-properties
| | | | | +---rw ospfv3:hello-interval? common-def:time-interval-sec
| | | | | +---rw ospfv3:dead-interval? common-def:time-interval-sec
| | | | | +---rw ospfv3:hello-jitter? uint32
| | | | | +---rw ospfv3:retransmit-interval? common-def:time-interval-sec
| | | | | +---rw ospfv3:transmit-delay? common-def:time-interval-sec
| | | +---rw vrrpv3:vrrpv3-group* [vrid]
| | | | +---rw vrrpv3:vrid vrid-type
| | | | +---rw vrrpv3:use-v2-checksum? empty
| | | | +---rw vrrpv3:virtual-ip* [virtual-ipaddr]
| | | | | +---rw vrrpv3:virtual-ipaddr inet:ipv6-address
| | | | +---rw vrrpv3:track
| | | | | +---rw vrrpv3:interface* [interface-type interface-name]
| | | | | | +---rw vrrpv3:interface-type track-ifttype
| | | | | | +---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-ifttype
| | | | | | +---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

```

```

| | | | +--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

```

```

| | +--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? lmqrt-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 spspf-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 spspf-max-wait?	uint32
		+++ro spspf-init-wait?	uint32
		+++ro spspf-second-wait?	uint32
		+++ro spspf-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 spspf6-max-wait?	uint32
		+++ro spspf6-init-wait?	uint32
		+++ro spspf6-second-wait?	uint32
		+++ro spspf6-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-external12-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-external12-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

```

```

| | | +--ro bypass-count?  uint16
| | +--ro te
| | | +--ro ospf-te-enabled?  boolean
| | | +--ro isis-te-enabled?  boolean
| | | +--ro ospf-area-id?     inet:ipv4-address
| | | +--ro isis-level-id?    uint32
| | | +--ro database
| | | | +--ro router-id?     inet:ipv4-address
| | | | +--ro area* [area-id level-id]
| | | | | +--ro igp-isis?      boolean
| | | | | +--ro igp-ospf?      boolean
| | | | | +--ro area-id       inet:ipv4-address
| | | | | +--ro level-id      uint32
| | | | | +--ro host-name?     string
| | | | | +--ro router-id?     inet:ipv4-address
| | | | | +--ro total-network-nodes?  uint32
| | | | | +--ro total-router-nodes?  uint32
| | | | | +--ro total-p2p-links?    uint32
| | | | | +--ro total-p2mp-links?   uint32
| | | | | +--ro node* [local-node-id local-router-id]
| | | | | | +--ro igp-isis?      boolean
| | | | | | +--ro igp-ospf?      boolean
| | | | | | +--ro area-id       inet:ipv4-address
| | | | | | +--ro level-id      uint32
| | | | | | +--ro router?       boolean
| | | | | | +--ro network?      boolean
| | | | | | +--ro host-name?     string
| | | | | | +--ro local-node-id  string
| | | | | | +--ro local-router-id  inet:ipv4-address
| | | | | | +--ro gen-code?     uint32
| | | | | | +--ro lsa-id?       uint32
| | | | | | +--ro total-p2p-links?  uint32
| | | | | | +--ro total-p2mp-links? uint32
| | | | | | +--ro overloaded?    uint32
| | | | | +--ro link* [local-node-id remote-node-id local-router-id remote-router-
id local-ip remote-ip]
| | | | | | +--ro igp-isis?      boolean
| | | | | | +--ro igp-ospf?      boolean
| | | | | | +--ro area-id       inet:ipv4-address
| | | | | | +--ro level-id      uint32
| | | | | | +--ro local-node-id  string
| | | | | | +--ro remote-node-id string
| | | | | | +--ro local-router-id  inet:ipv4-address
| | | | | | +--ro remote-router-id  inet:ipv4-address
| | | | | | +--ro local-host-name? string
| | | | | | +--ro remote-host-name? string
| | | | | | +--ro router?       boolean
| | | | | | +--ro network?      boolean
| | | | | | +--ro p2p?          boolean
| | | | | | +--ro p2mp?         boolean
| | | | | | +--ro local-ip       inet:ipv4-address
| | | | | | +--ro remote-ip      inet:ipv4-address
| | | | | | +--ro gen-code?     uint32
| | | | | | +--ro lsa-id?       uint32
| | | | | | +--ro pending-delete? uint32
| | | | | | +--ro igp-metric?    uint32
| | | | | | +--ro te-metric?     uint32
| | | | | | +--ro admin-group?   uint32
| | | | | | +--ro max-bandwidth?  uint32
| | | | | | +--ro max-reservable-bandwidth?  uint32
| | | | | | +--ro unreserved-priority-0-bandwidth?  uint32
| | | | | | +--ro unreserved-priority-1-bandwidth?  uint32
| | | | | | +--ro unreserved-priority-2-bandwidth?  uint32
| | | | | | +--ro unreserved-priority-3-bandwidth?  uint32

```

```

| | | | +--ro unreserved-priority-4-bandwidth? uint32
| | | | +--ro unreserved-priority-5-bandwidth? uint32
| | | | +--ro unreserved-priority-6-bandwidth? uint32
| | | | +--ro unreserved-priority-7-bandwidth? uint32
| | | | +--ro srlg* [name]
| | | | |   +--ro name      string
| | | | |   +--ro penalty?  uint32
| | | | +--ro srlg* [name]
| | | | |   +--ro name      string
| | | | |   +--ro penalty?  uint32
| | +--ro router-id-map* [ip-address]
| | |   +--ro ip-address    inet:ipv4-address
| | |   +--ro router-id?    inet:ipv4-address
| | |   +--ro resolved?     boolean
| | |   +--ro igp-isis?     boolean
| | |   +--ro igp-ospf?     boolean
| | |   +--ro isis-level?   uint32
| | |   +--ro ospf-area?    inet:ipv4-address
| | |   +--ro origin-ted?   boolean
| | |   +--ro origin-path?  uint32
| | |   +--ro origin-lsp?   uint32
| | |   +--ro origin-other? boolean
| +--ro autobw-threshold-table-summary
| |   +--ro total-number-of-autobw-threshold-table-entries? uint32
| +--ro statistics-oam
| |   +--ro usr-ping-count?      uint32
| |   +--ro usr-traceroute-count? uint32
| |   +--ro echo-req-sent-count?  uint32
| |   +--ro echo-req-received-count? uint32
| |   +--ro echo-req-timeout-count? uint32
| |   +--ro echo-resp-sent-count?  uint32
| |   +--ro echo-resp-received-count? uint32
| |   +--ro return-codes* [number]
| | |   +--ro name?      string
| | |   +--ro number     uint32
| | |   +--ro tx-count?  uint32
| | |   +--ro rx-count?  uint32
| +--ro bfd
| |   +--ro admin-status?      uint8
| |   +--ro min-tx-interval?    uint32
| |   +--ro min-rx-interval?    uint32
| |   +--ro detection-time-multiplier? uint8
| +--ro interface* [interface-name]
| |   +--ro interface-index?      uint32
| |   +--ro interface-name        string
| |   +--ro admin-status?         boolean
| |   +--ro oper-status?          boolean
| |   +--ro mtu?                  uint32
| |   +--ro bypass-lsp-count?     uint32
| |   +--ro max-lsp-priority-level? uint32
| |   +--ro is-ldp-enabled?       boolean
| |   +--ro ldp-tunnel-count?     uint32
| |   +--ro ldp-transit-tunnel-count? uint32
| |   +--ro is-gre-port?         boolean
| |   +--ro admin-group?         uint32
| |   +--ro admin-group-max?     uint8
| |   +--ro admin-group-min?     uint8
| |   +--ro te-metric?           uint32
| |   +--ro max-bandwidth?       uint32
| |   +--ro max-resv-bandwidth?   uint32
| |   +--ro max-resv-bandwidth-percentage? uint32
| |   +--ro resv-bandwidth*      uint32
| |   +--ro advert-unreserved-bandwidth* uint32
| |   +--ro under-provisioned-bandwidth* uint32

```

```

|   +--ro path* [path-name]
|   |   +--ro path-name      string
|   |   +--ro usage-count?   uint32
|   |   +--ro path-hops* [hop-address]
|   |   |   +--ro hop-address  inet:ipv4-address
|   |   |   +--ro hop-type?    uint8
|   |   +--ro path-lsps* [lsp-name]
|   |   |   +--ro lsp-name     string
|   |   |   +--ro lsp-type?    uint32
|   +--ro auto-bandwidth-template* [name]
|   |   +--ro name              string
|   |   +--ro adjustment-interval?  uint32
|   |   +--ro adjustment-threshold?  uint32
|   |   +--ro maximum-bandwidth?    uint32
|   |   +--ro minimum-bandwidth?    uint32
|   |   +--ro overflow-limit?        uint32
|   |   +--ro underflow-limit?       uint32
|   |   +--ro mode?                  boolean
|   |   +--ro sample-recording?      boolean
|   |   +--ro associated-paths-count? uint32
|   |   +--ro associated-paths* [lsp-name]
|   |   |   +--ro lsp-name      string
|   |   |   +--ro path-name?    string
|   |   |   +--ro is-active?    boolean
|   +--ro autobw-threshold-table-entry* [bandwidth]
|   |   +--ro bandwidth          uint32
|   |   +--ro threshold?         uint32
|   |   +--ro is-percentage-threshold? boolean
|   +--ro lsp* [lsp-name]
|   |   +--ro lsp-name          string
|   |   +--ro lsp-type?         lsp-type
|   |   +--ro bypass-lsp-type?  bypass-lsp-type
|   |   +--ro interface?        string
|   |   +--ro history*          string
|   |   +--ro autobw-history*   string
|   |   +--ro basic
|   |   |   +--ro tunnel-vif-index?      uint32
|   |   |   +--ro lsp-type-bypass?       boolean
|   |   |   +--ro lsp-type-dynamic?       boolean
|   |   |   +--ro from-address-configured? boolean
|   |   |   +--ro from-address?           inet:ipv4-address
|   |   |   +--ro to-address?             inet:ipv4-address
|   |   |   +--ro admin-up?               boolean
|   |   |   +--ro operational-status?     lsp-operational-status
|   |   |   +--ro lsp-is-active?          boolean
|   |   |   +--ro lsp-has-primary-path?    boolean
|   |   |   +--ro path-name?              string
|   |   |   +--ro out-label?              uint32
|   |   |   +--ro out-interface-name?     string
|   |   |   +--ro primary-up?             boolean
|   |   |   +--ro primary-active?         boolean
|   |   |   +--ro lsp-has-secondary?      boolean
|   |   |   +--ro secondary-up?           boolean
|   |   |   +--ro secondary-active?       boolean
|   |   |   +--ro lsp-has-selected-secondary? boolean
|   |   |   +--ro selected-secondary-up?  boolean
|   |   |   +--ro selected-secondary-active? boolean
|   |   |   +--ro primary-is-selected?    boolean
|   |   |   +--ro lsp-has-frr?            boolean
|   |   |   +--ro frr-up?                 boolean
|   |   |   +--ro frr-active?             boolean
|   |   |   +--ro up-down-count?          uint32
|   |   |   +--ro retry-count?            uint32
|   |   |   +--ro down-reason?            string

```

```

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

```



```

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

```

			+++ro	config-from-address-configured?	boolean
			+++ro	config-from-address?	inet:ipv4-address
			+++ro	config-to-address?	inet:ipv4-address
			+++ro	config-type-bypass?	boolean
			+++ro	config-type-dynamic?	boolean
			+++ro	config-adaptive?	boolean
			+++ro	config-ospf-area?	inet:ipv4-address
			+++ro	config-isis-level?	uint32
			+++ro	config-number-of-retries-configured?	boolean
			+++ro	config-number-of-retries?	uint32
			+++ro	config-path-select-mode?	lsp-path-selection-mode
			+++ro	config-path-selected-path?	lsp-selected-path
			+++ro	config-path-selected-secondary-name?	string
			+++ro	config-revert-time-configured?	boolean
			+++ro	config-revert-time?	uint32
			+++ro	config-retry-count-configured?	boolean
			+++ro	config-retry-count?	uint32
			+++ro	config-enable-ldp-tunnelling?	boolean
			+++ro	config-shortcut-ospf?	boolean
			+++ro	config-shortcut-area-configured?	boolean
			+++ro	config-shortcut-area?	uint32
			+++ro	config-notify-ospf?	boolean
			+++ro	config-shortcut-isis?	boolean
			+++ro	config-isis-shortcut-level-configured?	boolean
			+++ro	config-isis-shortcut-level?	uint32
			+++ro	config-notify-isis?	boolean
			+++ro	config-metric-configured?	boolean
			+++ro	config-metric?	uint32
			+++ro	config-ospf-ignore-metric?	boolean
			+++ro	config-ospf-relative-metric?	uint32
			+++ro	config-ospf-announce-metric?	boolean
			+++ro	config-ospf-aaf?	uint32
			+++ro	config-isis-ignore-metric?	boolean
			+++ro	config-isis-relative-metric?	uint32
			+++ro	config-isis-announce-configured?	boolean
			+++ro	config-isis-announce-metric?	uint32
			+++ro	config-path-configured?	boolean
			+++ro	config-path?	string
			+++ro	config-reoptimize-timer-configured?	boolean
			+++ro	config-reoptimize-time?	uint32
			+++ro	config-tspec-mtu-configured?	boolean
			+++ro	config-tspec-mtu?	uint32
			+++ro	config-cos-configured?	boolean
			+++ro	config-cos?	uint8
			+++ro	config-mtu-configured?	boolean
			+++ro	config-mtu?	uint32
			+++ro	config-tie-breaking-configured?	boolean
			+++ro	config-tie-break-random?	boolean
			+++ro	config-tie-break-least-fill?	boolean
			+++ro	config-tie-break-most-fill?	boolean
			+++ro	config-cspf-disabled?	boolean
			+++ro	config-rro-disabled?	boolean
			+++ro	config-hot-standby?	boolean
			+++ro	config-pinned?	boolean
			+++ro	config-persistent?	boolean
			+++ro	config-frr-global-revertive?	boolean
			+++ro	config-frr-hold-time?	uint32
			+++ro	config-soft-preempt?	boolean
			+++ro	config-exclude-interface-change?	boolean
			+++ro	config-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-interfaces
+--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-interfaces
| | +--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:multiplier? uint32
  |   |   +--rw udld:shutdown?   empty

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

extreme-vcs

Provides a data model for managing the extreme VCS fabric.

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

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

Top-level container

```

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

```

RPCs

```

+---x get-last-config-update-time
|   +--ro output
|   |   +--ro last-config-update-time?  uint64
+---x show-vcs
|   +--ro output
|   |   +--ro principal-switch-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

```

```

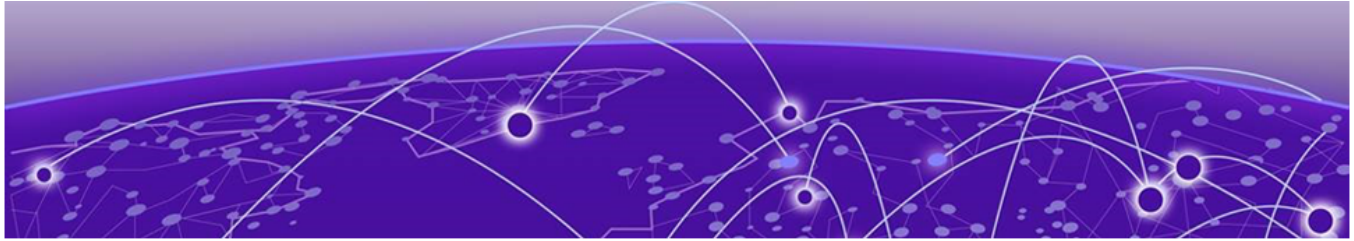
|          +---w instance-id?   uint32
+--ro output
  +--ro cist
    | +--ro cist-root-id?        bridge-id-type
    | +--ro cist-bridge-id?      bridge-id-type
    | +--ro cist-reg-root-id?    bridge-id-type
    | +--ro root-forward-delay?  uint32
    | +--ro hello-time?         uint32
    | +--ro max-age?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

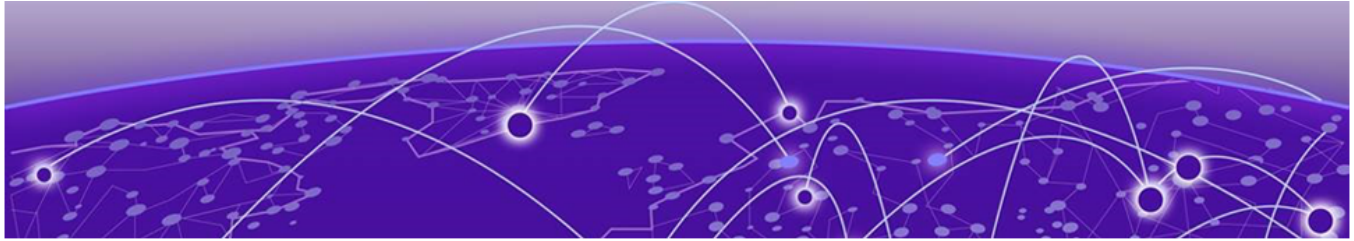
RPC name	Host module	Synopsis
activate-status	extreme-firmware	Returns firmware activation status.
bnacfgcmd	extreme-ras	Copies configuration data to and from the system.
bnacfgcmdstatus	extreme-ras	Returns the status of the last configuration command.
clear-tm-voq-stat-ing-all-egr-all	brocade-tm-stats	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/ dhcp-auto-deployment	Displays the current status of firmware download.
description	extreme-ras-ext	rasman	Displays the details of the defined log modules.
detail	extreme-nameserver	common-def:show/:	Returns details about the configured name server.
dhchap	extreme-fc-auth	auth-secret	Configures authorization secret for DH-CHAP.
dhchap	extreme-fc-auth	common-def:no/fcsp/ auth-secret	Deletes the authorization secret for DH-CHAP.
dhchap	extreme-fc-auth	common-def:show/ fscp/authsecret	Returns the device WWN for which a shared secret is configured.
dir	extreme-ras	system/usb	Displays the directory of a USB device.
directory	extreme-firmware	firmware:firmware/ download/tftp/input	Specifies the directory from where the firmware is downloaded.
disable	extreme-chassis	chassis	Disables the chassis.
disable	extreme-chassis	chassis/beacon	Disables the chassis beacon.
disable	extreme-firmware	firmware/auto-sync	Disables the firmware download.
disable	extreme-ha	ha	Disables high availability.
dpod	extreme-license	common-def:show/enh- show-license-keys	Displays dynamic POD license information.
dump	extreme-ha	ha	Displays high availability status information.
dvpgs	extreme-vswitch	common-def:show/ vnetwork	Shows discovered distributed virtual port-groups.
dvs	extreme-vswitch	common-def:show/ vnetwork	Shows discovered distributed virtual switches.
enable	extreme-chassis	chassis	Enables the chassis.
enable	extreme-chassis	chassis/beacon	Enables the chassis beacon.

Table 9: Actions (continued)

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

Table 9: Actions (continued)

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

Table 9: Actions (continued)

Action name	Host module	Node	Purpose
ldapca	extreme-certutil	certutil/import	Imports the LDAP CA certificate.
ldapca	extreme-certutil	common-def:no/certutil	Deletes the LDAP CA certificate.
ldapcert	extreme-certutil	common-def:show/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:infor	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.