



Cisco Nexus 3600 Series NX-OS Command Reference (Show Commands), Release 7.0(3)F3(1)

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Audience

This guide is intended for network and systems administrators who configure and maintain the Application Centric Infrastructure fabric.

Document Conventions

Command descriptions use the following conventions:

Convention	Description
bold	Bold text indicates the commands and keywords that you enter literally as shown.
<i>Italic</i>	Italic text indicates arguments for which the user supplies the values.
[x]	Square brackets enclose an optional element (keyword or argument).
[x y]	Square brackets enclosing keywords or arguments separated by a vertical bar indicate an optional choice.
{x y}	Braces enclosing keywords or arguments separated by a vertical bar indicate a required choice.
[x {y z}]	Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element.
variable	Indicates a variable for which you supply values, in context where italics cannot be used.

Convention	Description
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.

Examples use the following conventions:

Convention	Description
<code>screen font</code>	Terminal sessions and information the switch displays are in screen font.
boldface screen font	Information you must enter is in boldface screen font.
<i>italic screen font</i>	Arguments for which you supply values are in italic screen font.
< >	Nonprinting characters, such as passwords, are in angle brackets.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

This document uses the following conventions:



Note Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.



Caution Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.



Warning IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

SAVE THESE INSTRUCTIONS

Related Documentation

Cisco Application Centric Infrastructure (ACI) Documentation

The ACI documentation is available at the following URL: <http://www.cisco.com/c/en/us/support/cloud-systems-management/application-policy-infrastructure-controller-apic/tsd-products-support-series-home.html>.

Cisco Application Centric Infrastructure (ACI) Simulator Documentation

The Cisco ACI Simulator documentation is available at <http://www.cisco.com/c/en/us/support/cloud-systems-management/application-centric-infrastructure-simulator/tsd-products-support-series-home.html>.

Cisco Nexus 9000 Series Switches Documentation

The Cisco Nexus 9000 Series Switches documentation is available at <http://www.cisco.com/c/en/us/support/switches/nexus-9000-series-switches/tsd-products-support-series-home.html>.

Cisco Application Virtual Switch Documentation

The Cisco Application Virtual Switch (AVS) documentation is available at <http://www.cisco.com/c/en/us/support/switches/application-virtual-switch/tsd-products-support-series-home.html>.

Cisco Application Centric Infrastructure (ACI) Integration with OpenStack Documentation

Cisco ACI integration with OpenStack documentation is available at <http://www.cisco.com/c/en/us/support/cloud-systems-management/application-policy-infrastructure-controller-apic/tsd-products-support-series-home.html>.

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to apic-docfeedback@cisco.com. We appreciate your feedback.



Notice

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Notice



Warning

This document should be used only as a glossary reference for possible commands. The listing of a command in this document does not guarantee that the command is available or supported for your platform or application.

The command information in this reference document is auto-generated from the NX-OS source code. While we attempt to manually remove unsupported, deprecated, or internal-use commands, such commands may occasionally appear in this document. Also, with the large variety of hardware platform combinations using NX-OS software, some listed commands may not be applicable or recommended for a specific platform. Platform-based dependency information is not provided in this command reference.

We strongly encourage you to refer to the configuration guides for appropriate commands to configure and operate a feature. Command limitations, restrictions, and recommendations are documented only in the configuration guides. When in doubt, please consult your Cisco representative.



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show aaa accounting

```
show aaa accounting [ __readonly__ [ TABLE_acctMethods <service> <methods> ] ]
```

Syntax Description

show	Show running system information
aaa	Show aaa information
accounting	Show accounting configuration
<i>__readonly__</i>	(Optional)
<i>TABLE_acctMethods</i>	(Optional)
<i>service</i>	(Optional) service type
<i>methods</i>	(Optional) Accounting methods configured for the application

Command Mode

- /exec

show aaa authentication

show aaa authentication [*__readonly__* [*TABLE_AuthenMethods* <service> <method>]]

Syntax Description

<i>show</i>	Show running system information
<i>aaa</i>	Show aaa information
<i>authentication</i>	Show authentication configuration
<i>__readonly__</i>	(Optional)
<i>TABLE_AuthenMethods</i>	(Optional)
<i>service</i>	(Optional) Service for which authentication is needed
<i>method</i>	(Optional) Authentication method used for the service

Command Mode

- /exec

show aaa authentication login

```
show aaa authentication login { mschap | mschapv2 | chap } [ __readonly__ [ <mschap_status>
<mschapv2_status> <chap_status> ] ]
```

Syntax Description

show	Show running system information
aaa	Show aaa information
authentication	Show authentication configuration
login	Show authentication login error message configuration
mschap	Show authentication login MSCHAP enable configuration
mschapv2	Show authentication login MSCHAP V2 enable configuration
chap	Show authentication login CHAP enable configuration
<i>__readonly__</i>	(Optional)
<i>mschap_status</i>	(Optional) mschap enabled or disabled
<i>mschapv2_status</i>	(Optional) mschapv2 enabled or disabled
<i>chap_status</i>	(Optional) chap enabled or disabled

Command Mode

- /exec

show aaa authentication login ascii-authentication

```
show aaa authentication login ascii-authentication [ __readonly__ { <ascii_authen_status> } ]
```

Syntax Description

show	Show running system information
aaa	Show aaa information
authentication	Show authentication configuration
login	Show authentication login message configuration
ascii-authentication	Show ascii-authentication configuration
<i>__readonly__</i>	(Optional)
<i>ascii_authen_status</i>	(Optional) ascii authentication status

Command Mode

- /exec

show aaa authentication login error-enable

show aaa authentication login error-enable [__readonly__ [<status>]]

Syntax Description

show	Show running system information
aaa	Show aaa information
authentication	Show authentication configuration
login	Show authentication login error message configuration
error-enable	Show authentication login error message enable configuration
__readonly__	(Optional)
<i>status</i>	(Optional) login error-enable enabled or disabled

Command Mode

- /exec

show aaa authentication login invalid-username-log

```
show aaa authentication login invalid-username-log [ __readonly__ [ <status> ] ]
```

Syntax Description

show	Show running system information
aaa	Show aaa information
authentication	Show authentication configuration
login	Show authentication login message configuration
invalid-username-log	Show invalid username log configuration
__readonly__	(Optional)
<i>status</i>	(Optional) login invalid-username-log enabled or disabled

Command Mode

- /exec

show aaa authentication login password-aging

```
show aaa authentication login password-aging [ __readonly__ { <passwordAging_status> } ]
```

Syntax Description

show	Show running system information
aaa	Show aaa information
authentication	Show authentication configuration
login	Show authentication login error message configuration
password-aging	Show password-aging enable configuration
<i>__readonly__</i>	(Optional)
<i>passwordAging_status</i>	(Optional) login password-aging

Command Mode

- /exec

show aaa authorization

```
show aaa authorization [ all ] [ __readonly__ [ <pki_ssh_cert_author> <pki_ssh_pubkey_author> ] [
TABLE_cmd_methods <appl_subtype> <cmd_type> <methods> ] [ TABLE_app_methods <appl> <methods>
]]
```

Syntax Description

show	Show running system information
aaa	Show aaa information
authorization	Show authorization configuration
all	(Optional) Show all(include defaults configurations) authorization info
__readonly__	(Optional)
<i>pki_ssh_cert_author</i>	(Optional)
<i>pki_ssh_pubkey_author</i>	(Optional)
TABLE_cmd_methods	(Optional) table containing command authorization methods
<i>appl_subtype</i>	(Optional)
<i>cmd_type</i>	(Optional)
<i>methods</i>	(Optional)
TABLE_app_methods	(Optional) table containing application authorization methods
<i>appl</i>	(Optional)
<i>methods</i>	(Optional)

Command Mode

- /exec

show aaa groups

show aaa groups [__readonly__ { TABLE_groups <group> }]

Syntax Description

show	Show running system information
aaa	Show aaa information
groups	Show configured groups
__readonly__	(Optional)
TABLE_groups	(Optional) Table showing aaa groups
<i>group</i>	(Optional) Name of the group

Command Mode

- /exec

show aaa local user blocked

show aaa local user blocked [*__readonly__* { *TABLE_sessions* <*u_name*> <*u_state*> }]

Syntax Description

show	Show running system information
aaa	Configure aaa functions
local	Local username
user	Local system user
blocked	Display Blocked users
<i>__readonly__</i>	(Optional)
<i>TABLE_sessions</i>	(Optional) aaa local users blocked table
<i>u_name</i>	(Optional) Name of the user
<i>u_state</i>	(Optional) State of the user

Command Mode

- /exec

show aaa user default-role

```
show aaa user default-role [ __readonly__ { default_role_status <udr_status> } ]
```

Syntax Description

show	Show running system information
aaa	Show aaa information
user	Remotely authenticated user
default-role	Default role assigned by aaa-admin for remote authentication
__readonly__	(Optional)
default_role_status	(Optional) user default role status
<i>udr_status</i>	(Optional) Status of user default role

Command Mode

- /exec

show access-list

```
show { system internal | hardware } access-list { summary | [ vdc <vdc_id> ] { [ interface <if_name> | vlan
<vlan_id> | inband table <table> ] [ { input | output } { config | { { entries | merge } [ detail ] } } | statistics |
l4ops | redirect | sampler } ] } [ module <module> ] [ __readonly__ <type> <feature> <ply_id> <src_ip>
<src_mask> <dst_ip> <dst_mask> <proto> <l4ops> <action> <mac> <cos> <vlan> <l2_proto> <ethertype>
]
```

Syntax Description

show	Show running system information
system	System-related show commands
internal	Commands for internal use
hardware	Show hardware information
access-list	Access Control List
summary	summary
vdc	(Optional) vdc id
<i>vdc_id</i>	(Optional) vdc_id
interface	(Optional) interface name
<i>if_name</i>	(Optional) display access list for the interface
vlan	(Optional) vlan_id
<i>vlan_id</i>	(Optional) vlan_id
inband	(Optional) inband interface
table	(Optional) vrf table number
<i>table</i>	(Optional) vrf table number
input	(Optional) input/ingress policies
output	(Optional) output/egress policies
config	(Optional) parsed policy software database
entries	(Optional) tcam entries
statistics	(Optional) aggregate statistics
l4ops	(Optional) l4 operations information
redirect	(Optional) redirect resource information
sampler	(Optional) with sampler details

<i>merge</i>	(Optional) tcam entries merge information
<i>detail</i>	(Optional) detailed information
<i>module</i>	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
<i>__readonly__</i>	(Optional)
<i>type</i>	(Optional) policy type eg: ACL, QOS
<i>feature</i>	(Optional) feature type eg: RACL, VACL
<i>plcy_id</i>	(Optional) policy id
<i>src_ip</i>	(Optional) src ipv4 address
<i>src_mask</i>	(Optional) src mask
<i>dst_ip</i>	(Optional) dst ipv4 address
<i>dst_mask</i>	(Optional) dst mask
<i>proto</i>	(Optional) protocol eg: TCP, UDP ...
<i>l4ops</i>	(Optional) layer 4 operations
<i>action</i>	(Optional) action
<i>mac</i>	(Optional) mac address
<i>cos</i>	(Optional) acos value
<i>vlan</i>	(Optional) vlan id
<i>l2_proto</i>	(Optional) L2 protocol
<i>ethertype</i>	(Optional) ethertype

Command Mode

- /exec

show access-list database

```
show { system internal | hardware } access-list [ vdc <vdc_id> ] database { interface | vlan | policy | process } [ module <module> ] [ __readonly__ <if_idx> <vlan> <plcy_id> <process_info> ]
```

Syntax Description

show	Show running system information
system	System-related show commands
internal	Commands for internal use
hardware	Show hardware information
access-list	Access Control List
vdc	(Optional) vdc id
<i>vdc_id</i>	(Optional) vdc_id
database	Show memory database
interface	display interfaces/vlans in a vdc with policies
policy	display policies in a vdc
vlan	display vlans in a vdc
process	display process database in a vdc
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
<i>__readonly__</i>	(Optional)
<i>if_idx</i>	(Optional) interface
<i>vlan</i>	(Optional) vlan
<i>plcy_id</i>	(Optional) policy id
<i>process_info</i>	(Optional) process information

Command Mode

- /exec

show access-list resource

```
show { system internal | hardware } access-list resource { { { entries | l4ops | redirect | ipv6-compression |
mac-compression | aqm-d | aqm-q | oq | opool } [ detail ] } | utilization | { entry tcam <tcam_id> bank <bank_id>
index <index> } | { default-tcam-allocation } } [ no-header ] [ module <module> ] [ __readonly__
TABLE_resource_util_info <resource_hdr> <ents_use> <ents_free> <ents_pctage> ]
```

Syntax Description

show	Show running system information
system	System-related show commands
internal	Commands for internal use
hardware	Show hardware information
access-list	Access Control List
resource	hardware resource
entries	tcam entries
l4ops	l4 operations information
redirect	redirect resource information
entry	display hardware information of a tcam entry
tcam	tcam id
<i>tcam_id</i>	tcam_id
bank	bank id
<i>bank_id</i>	bank_id
index	index within bank
<i>index</i>	index withing bank
utilization	utilization matrix
ipv6-compression	ipv6 compression
mac-compression	mac compression table info
aqm-d	aqm d params
aqm-q	aqm q params
oq	oq profiles
opool	opool profiles

detail	(Optional) detailed information
default-tcam-allocation	default team allocation
no-header	(Optional) Do not print header
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
__readonly__	(Optional)
TABLE_resource_util_info	(Optional) resource utilization information
<i>resource_hdr</i>	(Optional) resource header
<i>ents_use</i>	(Optional) entries in use
<i>ents_free</i>	(Optional) free team entries
<i>ents_pctage</i>	(Optional) team entries usage percentage

Command Mode

- /exec

show access-lists

```
show [ <ip_ipv6_mac> ] access-lists [ <name> ] [ capture session <capture_session> ] [ <expanded> |
<summary> | <private> | <brief> ] [ _readonly_ TABLE_ip_ipv6_mac <op_ip_ipv6_mac> <acl_name> [
<statistics> ] [ <frag_opt_permit_deny> ] [ <global_capture_session> ] [ TABLE_seqno <seqno> {
<permitdeny> [ <proto_str> | <proto> | <ip> | <ipv6> ] { <src_any> | <src_ip_prefix> | <src_ip_addr>
<src_ip_mask> | <src_ipv6_prefix> | <src_ipv6_addr> <src_ipv6_mask> | <mac_src> <mac_src_wild> |
<src_addrgrp> } [ <src_port_op> [ <src_port1_str> ] { <src_port1_num> } [ <src_port2_str> | <src_port2_num>
] | <src_portgrp> ] { <dest_any> | <dest_ip_prefix> | <dest_ip_addr> <dest_ip_mask> | <dest_ipv6_prefix>
| <dest_ipv6_addr> <dest_ipv6_mask> | <mac_dest> <mac_dest_wild> | <dest_addrgrp> } [ <dest_port_op>
[ <dest_port1_str> ] { <dest_port1_num> } [ <dest_port2_str> | <dest_port2_num> ] | <dest_portgrp> ] [ {
<icmp_type> [ <icmp_code> ] | <icmp_str> } | { <icmpv6_type> [ <icmpv6_code> ] | <icmpv6_str> } ] [
<igmp_type> | <igmp_type_str> ] [ [ <precedence> | <precedence_str> ] [ <tos> | <tos_str> ] ] [ <dscp> |
<dscp_str> ] ] [ <ttl> ] ] [ <log> ] [ <udfs> ] [ <capture_session> ] [ <fragments> ] [ <plen_op> <plen1> [
<plen2> ] ] [ <urg> ] [ <ack> ] [ <psh> ] [ <rst> ] [ <syn> ] [ <fin> ] [ <established> ] [ <http-method> |
<http_opt_str> ] [ <tcp-option-length> ] [ <tcp-flags-mask> ] [ <flow_label> ] [ <timerange> ] [ <eth_proto>
| <eth_proto_str> ] [ <vlan> ] [ <cos> ] [ <match_count> ] ] [ <nve_vni> ] | <remark> [ <action> <actionid>
] } ] [ ethertype <ethertypeid> | vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority
<vlanpriorityid> ] + [ <action> <actionid> ] ]
```

Syntax Description

show	Show running system information
<i>name</i>	(Optional) List name
<i>ip_ipv6_mac</i>	(Optional) IP/IPv6/MAC
capture	(Optional) capture
session	(Optional) session
<i>capture_session</i>	(Optional) session id
<i>op_ip_ipv6_mac</i>	(Optional) IP/IPv6/MAC
access-lists	List access lists
<i>acl_name</i>	(Optional) List name
readonly	(Optional)
TABLE_ip_ipv6_mac	(Optional)
<i>frag_opt_permit_deny</i>	(Optional) frag_op_type
ethertype	(Optional) Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority

<i>ethertypeid</i>	(Optional) Configure the ethertype value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority
<i>seqno</i>	(Optional) Sequence number
<i>permitdeny</i>	(Optional) Permit/deny
<i>proto</i>	(Optional) A protocol number
TABLE_seqno	(Optional)
<i>proto_str</i>	(Optional) Protocol name
<i>ip</i>	(Optional) IP
<i>ipv6</i>	(Optional) IPV6
<i>src_any</i>	(Optional) SRCAny
<i>dest_any</i>	(Optional) DESTAny
<i>src_ip_prefix</i>	(Optional) Source IP prefix
<i>src_ip_addr</i>	(Optional) Source IP address
<i>src_ip_mask</i>	(Optional) Source IP mask
<i>mac_src</i>	(Optional) Source MAC address
<i>mac_src_wild</i>	(Optional) Source MAC mask
<i>dest_ip_prefix</i>	(Optional) Destination IP prefix
<i>dest_ip_addr</i>	(Optional) Destination IP address
<i>dest_ip_mask</i>	(Optional) Destination IP mask
<i>mac_dest</i>	(Optional) Destination MAC address
<i>mac_dest_wild</i>	(Optional) Destination MAC mask
<i>src_port_op</i>	(Optional) Source Port operator
<i>dest_port_op</i>	(Optional) Destination Port operator
<i>src_port1_str</i>	(Optional) Source port name
<i>src_port1_num</i>	(Optional) Source port number
<i>src_port2_str</i>	(Optional) Source port name

<i>src_port2_num</i>	(Optional) Source port number
<i>dest_port1_str</i>	(Optional) Destination port name
<i>dest_port1_num</i>	(Optional) Destination port number
<i>dest_port2_str</i>	(Optional) Destination port name
<i>dest_port2_num</i>	(Optional) Destination port number
<i>icmp_type</i>	(Optional) ICMP type
<i>icmp_code</i>	(Optional) ICMP code
<i>icmp_str</i>	(Optional) ICMP message
<i>icmpv6_type</i>	(Optional) ICMP type
<i>icmpv6_code</i>	(Optional) ICMP code
<i>icmpv6_str</i>	(Optional) ICMP message
<i>igmp_type</i>	(Optional) IGMP type
<i>igmp_type_str</i>	(Optional) IGMP type String
<i>precedence</i>	(Optional) precedence
<i>precedence_str</i>	(Optional) precedence string
<i>tos</i>	(Optional) tos
<i>tos_str</i>	(Optional) tos string
<i>dscp</i>	(Optional) dscp
<i>dscp_str</i>	(Optional) dscp string
<i>udfs</i>	(Optional) udfs string
<i>ttl</i>	(Optional) ttl
<i>capture_session</i>	(Optional) capture session
<i>global_capture_session</i>	(Optional) capture session
<i>log</i>	(Optional) Log
<i>fragments</i>	(Optional) Fragments
<i>urg</i>	(Optional) URG
<i>ack</i>	(Optional) ACK
<i>psh</i>	(Optional) PSH
<i>rst</i>	(Optional) RST

<i>syn</i>	(Optional) SYN
<i>fin</i>	(Optional) FIN
<i>established</i>	(Optional) ESTABLISHED
<i>http-method</i>	(Optional) http-method
<i>http_opt_str</i>	(Optional) http_option string
<i>tcp-option-length</i>	(Optional) TCP Option size
<i>tcp-flags-mask</i>	(Optional) TCP Flags mask
<i>flow_label</i>	(Optional) IPv6 flow label
<i>timerange</i>	(Optional) Time-range
<i>eth_proto</i>	(Optional) MAC protocol number
<i>eth_proto_str</i>	(Optional) MAC protocol name
<i>vlan</i>	(Optional) VLAN number
<i>cos</i>	(Optional) CoS value
<i>match_count</i>	(Optional) Number of packets matching the ACL
<i>nve_vni</i>	(Optional) nve vni
<i>remark</i>	(Optional) Remark String
<i>statistics</i>	(Optional) STATISTICS
<i>src_addrgrp</i>	(Optional) Source address group
<i>dest_addrgrp</i>	(Optional) Destination address group
<i>src_portgrp</i>	(Optional) Source port group
<i>dest_portgrp</i>	(Optional) Destination port group
<i>plen_op</i>	(Optional) Source Port operator
<i>plen1</i>	(Optional) Packet length minimum
<i>plen2</i>	(Optional) packet length maximum
<i>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channell set-erspan-dscp: <1-63> set-erspan-gre-PROTO: <1-65535>
<i>expanded</i>	(Optional) EXPANDED
<i>summary</i>	(Optional) SUMMARY

<i>private</i>	(Optional) PRIVATE
<i>brief</i>	(Optional) BRIEF

Command Mode

- /exec

show accounting log

```
show accounting log [ { <i0> | start-time <SYYYY> <SMonth> <SDate> <STime> [ end-time <EYYYY>
<EMonth> <EDate> <ETime> ] } ] [ __readonly__ [ TABLE_acctlog_time <accountlog_starttime> ] ]
```

Syntax Description

show	Show running system information
accounting	Show Accounting Information
log	Show Accounting Log
<i>i0</i>	(Optional) Log Size(in bytes)
start-time	(Optional) Show messages from a given start-time
<i>SYYYY</i>	(Optional) Enter year in YYYY format
<i>SMonth</i>	(Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>SDate</i>	(Optional) Enter day of month in dd format
<i>STime</i>	(Optional) Enter hour, minutes, seconds as HH:MM:SS
end-time	(Optional) Show messages from a given end-time
<i>EYYYY</i>	(Optional) Enter year in YYYY format
<i>EMonth</i>	(Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>EDate</i>	(Optional) Enter day of month in dd format
<i>ETime</i>	(Optional) Enter hour, minutes, seconds as HH:MM:SS
__readonly__	(Optional)
TABLE_acctlog_time	(Optional)
<i>accountlog_starttime</i>	(Optional) accounting log starttime

Command Mode

- /exec

show accounting log all

show accounting log all [*__readonly__* [*TABLE_acctlog* <*accountlog_all*>]]

Syntax Description

show	Show running system information
accounting	Show accounting configuration
log	Show Accounting Log
all	Display accounting log including show commands (Use <terminal log-all> to enable show command accounting)
<i>__readonly__</i>	(Optional)
<i>TABLE_acctlog</i>	(Optional)
<i>accountlog_all</i>	(Optional) accounting log all

Command Mode

- /exec

show accounting log last-index

```
show accounting log last-index [ __readonly__ { <last_index> } ]
```

Syntax Description

show	Show running system information
accounting	Show accounting configuration
log	Show Accounting Log
last-index	Show accounting log last index information
__readonly__	(Optional)
<i>last_index</i>	(Optional) accounting log last index

Command Mode

- /exec

show accounting log nvram

```
show accounting log nvram [ { <i0> | start-time <SYYYY> <SMonth> <SDate> <STime> [ end-time
<EYYYY> <EMonth> <EDate> <ETime> ] } ] [ __readonly__ [ TABLE_acctnvramlog_time
<accountnvramlog_starttime> ] ]
```

Syntax Description

show	Show running system information
accounting	Show Accounting Information
log	Show Accounting Log
nvram	present in nvram
<i>i0</i>	(Optional) Log Size(in bytes)
start-time	(Optional) Show messages from a given start-time
<i>SYYYY</i>	(Optional) Enter year in YYYY format
<i>SMonth</i>	(Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>SDate</i>	(Optional) Enter day of month in dd format
<i>STime</i>	(Optional) Enter hour, minutes, seconds as HH:MM:SS
end-time	(Optional) Show messages from a given end-time
<i>EYYYY</i>	(Optional) Enter year in YYYY format
<i>EMonth</i>	(Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>EDate</i>	(Optional) Enter day of month in dd format
<i>ETime</i>	(Optional) Enter hour, minutes, seconds as HH:MM:SS
__readonly__	(Optional)
TABLE_acctnvramlog_time	(Optional)
<i>accountnvramlog_starttime</i>	(Optional) accounting log nvram starttime

Command Mode

- /exec

show accounting log nvram last-index

```
show accounting log nvram last-index [ __readonly__ { <last_index> } ]
```

Syntax Description

show	Show running system information
accounting	Show accounting configuration
log	Show Accounting Log
nvram	present in nvram
last-index	Show accounting log last index information
<i>__readonly__</i>	(Optional)
<i>last_index</i>	(Optional) accounting log last index

Command Mode

- /exec

show accounting log nvram start-seqnum

```
show accounting log nvram start-seqnum <SSEQNUM> [ end-seqnum <ESEQNUM> ] [ __readonly__ [
TABLE_acctnvramlog_seq <accountnvramlog_seq> ] ]
```

Syntax Description

show	Show running system information
accounting	Show Accounting Information
log	Show Accounting Log
nvram	present in nvram
start-seqnum	Show messages starting from a given sequence number
end-seqnum	(Optional) Show messages ending with a given sequence number
<i>SSEQNUM</i>	Enter Starting Sequence Number
<i>ESEQNUM</i>	(Optional) Enter Starting Sequence Number
<i>__readonly__</i>	(Optional)
<i>TABLE_acctnvramlog_seq</i>	(Optional)
<i>accountnvramlog_seq</i>	(Optional) accounting log nvram seqnum

Command Mode

- /exec

show accounting log start-seqnum

```
show accounting log start-seqnum <SSEQNUM> [ end-seqnum <ESEQNUM> ] [ __readonly__ [
TABLE_acctlog_seq <accountlog_seq> ] ]
```

Syntax Description

show	Show running system information
accounting	Show Accounting Information
log	Show Accounting Log
start-seqnum	Show messages starting from a given sequence number
end-seqnum	(Optional) Show messages ending with a given sequence number
<i>SSEQNUM</i>	Enter Starting Sequence Number
<i>ESEQNUM</i>	(Optional) Enter Starting Sequence Number
<i>__readonly__</i>	(Optional)
<i>TABLE_acctlog_seq</i>	(Optional)
<i>accountlog_seq</i>	(Optional) accounting log seqnum

Command Mode

- /exec

show acl status

```
show acl status [ __readonly__ [ <status_log_string> ] ]
```

Syntax Description

show	Show running system information
acl	Show information about acl
status	Shows the status of last acl operation
<i>__readonly__</i>	(Optional)
<i>status_log_string</i>	(Optional) ppf entry string

Command Mode

- /exec

show amt process

```
show amt process [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf> <pid> <uuid>
<q> <re4> <ge4> <re6> <ge6> <pi4> <ar4> <ag4> <ra4> <ga4> <dra4> <pi6> <ar6> <ag6> <ra6> <ga6>
<dra6> <qqic4> <tc4> <tl4> <rc4> <rl4> <jp4> <qqic6> <tc6> <tl6> <rc6> <rl6> <jp6> <grm4> <gjp4>
<gslp4> <gsl4> <grm6> <gjp6> <gslp6> <gsl6> ]
```

Syntax Description

show	Show running system information
amt	AMT show commands
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
process	Display AMT process information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>pid</i>	(Optional)
<i>uuid</i>	(Optional)
<i>q</i>	(Optional)
<i>re4</i>	(Optional)
<i>ge4</i>	(Optional)
<i>re6</i>	(Optional)
<i>ge6</i>	(Optional)
<i>pi4</i>	(Optional)
<i>ar4</i>	(Optional)
<i>ag4</i>	(Optional)
<i>ra4</i>	(Optional)
<i>ga4</i>	(Optional)
<i>dra4</i>	(Optional)
<i>pi6</i>	(Optional)

<i>qqic4</i>	(Optional)
<i>tc4</i>	(Optional)
<i>tl4</i>	(Optional)
<i>rc4</i>	(Optional)
<i>rl4</i>	(Optional)
<i>jp4</i>	(Optional)
<i>qqic6</i>	(Optional)
<i>tc6</i>	(Optional)
<i>tl6</i>	(Optional)
<i>rc6</i>	(Optional)
<i>rl6</i>	(Optional)
<i>jp6</i>	(Optional)
<i>grm4</i>	(Optional)
<i>gjp4</i>	(Optional)
<i>gslp4</i>	(Optional)
<i>gsl4</i>	(Optional)
<i>grm6</i>	(Optional)
<i>gjp6</i>	(Optional)
<i>gslp6</i>	(Optional)
<i>gsl6</i>	(Optional)

Command Mode

- /exec

show amt vrf all

show amt vrf all [*__readonly__* *TABLE_vrf* <vrf> <cid> <ip_tid> <ipv6_tid>]

Syntax Description

show	Show running system information
amt	AMT show commands
vrf	Display all VRFs AMT is configured in
all	Display all VRFs AMT is configured in
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf</i>	(Optional)
<i>cid</i>	(Optional)
<i>ip_tid</i>	(Optional)
<i>ipv6_tid</i>	(Optional)

Command Mode

- /exec

show archive log config all

```
show archive log config { all | user <username> [ first-index <first_index> [ last-index <last_index> ] ] }
```

Syntax Description

show	Show running system information
archive	Show archive configuration
log	Show Archive Log
config	Show Config Logger information
all	List all the records in the config log
user	List records for specific user in the config log
<i>username</i>	Username
first-index	(Optional) The first record number to display
last-index	(Optional) The last record number to display
<i>first_index</i>	(Optional) config log first index
<i>last_index</i>	(Optional) config log last index

Command Mode

- /exec

show arp access-lists

```
show arp access-lists [ <name> ] [ __readonly__ TABLE_arp <arp_name> [ TABLE_seqno <seqno> {
<permitdeny> <reqresp> ip { { <sender_ip_any> | { { <sender_host> <sender_ip> | { <sender_net_ip>
<sender_ip_mask> } } } } [ { <target_ip_any> | { { <target_host> <target_ip> | { <target_net_ip>
<target_ip_mask> } } } ] } mac { { <sender_mac_any> | { { <sender_mac_host> <sender_mac> | {
<sender_net_mac> <sender_mac_mask> } } } } [ { <target_mac_any> | { { <target_mac_host> <target_mac>
| { <target_net_mac> <target_mac_mask> } } } ] } [ <arp_log> ] } | <remark> ] ] [ capture session
<session-id> ]
```

Syntax Description

show	Show running system information
arp	ARP access-lists
access-lists	List access lists
<i>name</i>	(Optional) List name
<i>__readonly__</i>	(Optional)
<i>arp_name</i>	(Optional) Name of the ARP ACL
<i>seqno</i>	(Optional) Sequence number
<i>permitdeny</i>	(Optional) Permit/deny
ip	(Optional) Any IP protocol
TABLE_arp	(Optional)
TABLE_seqno	(Optional)
<i>reqresp</i>	(Optional) ARP_Request
<i>sender_ip_any</i>	(Optional) Any
<i>sender_host</i>	(Optional) Host
<i>sender_ip</i>	(Optional) IP address <a.b.c.d>
<i>sender_net_ip</i>	(Optional) IP address <a.b.c.d>
<i>sender_ip_mask</i>	(Optional) IP mask <a.b.c.d>
<i>target_ip_any</i>	(Optional) Any
<i>target_host</i>	(Optional) Host
<i>target_ip</i>	(Optional) IP address <a.b.c.d>
<i>target_net_ip</i>	(Optional) IP address <a.b.c.d>
<i>target_ip_mask</i>	(Optional) IP mask <a.b.c.d>

<i>mac</i>	(Optional) MAC configuration commands
<i>sender_mac_any</i>	(Optional) Any
<i>sender_mac_host</i>	(Optional) Host
<i>sender_mac</i>	(Optional) MAC address EEEE.EEEE.EEEE
<i>sender_net_mac</i>	(Optional) MAC address EEEE.EEEE.EEEE
<i>sender_mac_mask</i>	(Optional) MAC mask EEEE.EEEE.EEEE
<i>target_mac_any</i>	(Optional) Any
<i>target_mac_host</i>	(Optional) Host
<i>target_mac</i>	(Optional) MAC address EEEE.EEEE.EEEE
<i>target_net_mac</i>	(Optional) MAC address EEEE.EEEE.EEEE
<i>target_mac_mask</i>	(Optional) MAC mask EEEE.EEEE.EEEE
<i>remark</i>	(Optional) Remark String
<i>arp_log</i>	(Optional) Log
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session

Command Mode

- /exec



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show background

show background

Syntax Description

show	Show running system information
background	show background processes (started with 'source background <file>' command)

Command Mode

- /exec

show banner exec

show banner exec

Syntax Description

show	Show running system information
banner	Show current banner message
exec	Show current exec banner message

Command Mode

- /exec

show banner motd

```
show banner motd [ __readonly__ { banner_msg <b_msg> } ]
```

Syntax Description

show	Show running system information
banner	Show current banner message
motd	Show current motd banner message
__readonly__	(Optional)
banner_msg	(Optional) The banner message
<i>b_msg</i>	(Optional) The banner message

Command Mode

- /exec

show bash-shell

```
show bash-shell [ __readonly__ { operation_status <o_status> } ]
```

Syntax Description

show	Show running system information
bash-shell	Show bash shell status
<i>__readonly__</i>	(Optional)
<i>operation_status</i>	(Optional) Bash shell status
<i>o_status</i>	(Optional) operational status of bash shell

Command Mode

- /exec

show bfd-app session status

```
show bfd-app session status { src-ip { <src_ip> dest-ip <dest_ip> | <src_ipv6> dest-ip <dest_ipv6> } { iod
<iod_id> | intf <intf_id> } | <all> }
```

Syntax Description

show	Show running system information
bfd-app	BFD application commands
session	session operation
src-ip	Source ip
<i>src_ip</i>	Source ip value
dest-ip	Destination ip
<i>dest_ip</i>	Destination ip value
iod	interface iod
<i>iod_id</i>	Interface iod in hex
intf	interface
<i>intf_id</i>	Interface Id
status	status of sessions
<i>all</i>	All sessions

Command Mode

- /exec

show bfd addrmap

```
show bfd addrmap [ application <appid> discriminator <discr> address-type <addrtype> address <addr> ] [
__readonly__ TABLE_bfdSessMapTable <ciscoBfdSessApplicationId> <ciscoBfdSessDiscriminator>
<ciscoBfdSessAddrType> <ciscoBfdSessAddr> <ciscoBfdSessMapBfdIndex> ]
```

Syntax Description

show	Show running system information
bfd	BFD commands
addrmap	Session
application	(Optional)
discriminator	(Optional)
address-type	(Optional)
address	(Optional)
<i>appid</i>	(Optional)
<i>discr</i>	(Optional)
<i>addrtype</i>	(Optional)
<i>addr</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_bfdSessMapTable	(Optional) Address Map table
<i>ciscoBfdSessApplicationId</i>	(Optional)
<i>ciscoBfdSessDiscriminator</i>	(Optional)
<i>ciscoBfdSessAddrType</i>	(Optional)
<i>ciscoBfdSessAddr</i>	(Optional)
<i>ciscoBfdSessMapBfdIndex</i>	(Optional)

Command Mode

- /exec

show bfd clients

show bfd clients [*__readonly__* <header> TABLE-bfdClients <client_name> <num_sess>]

Syntax Description

show	Show running system information
bfd	BFD commands
clients	bfd client list
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) print header
TABLE-bfdClients	(Optional) BFD Client table
<i>client_name</i>	(Optional) client name
<i>num_sess</i>	(Optional) Number of sessions

Command Mode

- /exec

show bfd discmap

show bfd discmap [<discr>] [__readonly__ TABLE_bfdDiscMapTable <ciscoBfdSessDiscMapIndex>]

Syntax Description

show	Show running system information
bfd	BFD commands
discrmap	Session
<i>discr</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_bfdDiscMapTable	(Optional) Discriminator map table
<i>ciscoBfdSessDiscMapIndex</i>	(Optional)

Command Mode

- /exec

show bfd intfipmap

```
show bfd intfipmap [ interface <intf> address-type <addrtype> address <addr> ] [ __readonly __
TABLE_ipMapTable <ciscoBfdSessInterface> <ciscoBfdSessAddrType> <ciscoBfdSessAddr>
<ciscoBfdSessIpMapIndex> ]
```

Syntax Description

show	Show running system information
bfd	BFD commands
intfipmap	Session
interface	(Optional)
address-type	(Optional)
address	(Optional)
<i>intf</i>	(Optional)
<i>addrtype</i>	(Optional)
<i>addr</i>	(Optional)
<i>__readonly __</i>	(Optional)
<i>TABLE_ipMapTable</i>	(Optional) ip map table
<i>ciscoBfdSessInterface</i>	(Optional)
<i>ciscoBfdSessAddrType</i>	(Optional)
<i>ciscoBfdSessAddr</i>	(Optional)
<i>ciscoBfdSessIpMapIndex</i>	(Optional)

Command Mode

- /exec

show bfd neighbors

```
show bfd { [ vrf { <vrf-name> | <vrf-known-name> | all } ] } { [ <ip_type> ] } neighbors { [ module
<module_no> ] [ interface <intf_id> ] [ application <bfd_cli_client_names> ] [ [ { src-ip <src_ip> | src-ipv6
<src_ipv6> } ] ] [ { dest-ip <dest_ip> | dest-ipv6 <dest_ipv6> } ] ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] } + [ details ] [ __readonly__ TABLE_bfdNeighbor <local_disc> [ <header> ] [ <vrf_name> ] [
<src_ip_addr> ] [ <src_ipv6_addr> ] [ <dest_ip_addr> ] [ <dest_ipv6_addr> ] [ <remote_disc> ] [ <local_state>
] [ <remote_state> ] [ <holddown> ] [ <cur_detect_mult> ] [ <intf> ] [ <echo> ] [ <echo_tx> ] [ <local_diag>
] [ <demand> ] [ <poll> ] [ <min_tx> ] [ <min_rx> ] [ <local_multi> ] [ <dectect_timer> ] [ <down_count>
] [ <tx_interval> ] [ <rx_count> ] [ <rx_avg> ] [ <rx_min> ] [ <rx_max> ] [ <last_rx> ] [ <tx_count> ] [
<tx_avg> ] [ <tx_min> ] [ <tx_max> ] [ <last_tx> ] [ <app> ] [ <up_time> ] [ <version> ] [ <diag> ] [
<state_bit> ] [ <demand_bit> ] [ <poll_bit> ] [ <final_bit> ] [ <multiplier> ] [ <length> ] [ <my_disc> ] [
<your_disc> ] [ <min_tx_interval> ] [ <req_min_rx> ] [ <min_echo_interval> ] [ <out_str> ] [ <host_lc> ] [
<down_reason> ] [ <no_host_reason> ] [ <parent> ] [ <per_link_str> ] [ <auth> ] [ <auth_bit> ] [ <print_details>
] ]
```

Syntax Description

show	Show running system information
bfd	BFD commands
<i>ip_type</i>	(Optional) ipv4 or ipv6
neighbors	neighbors
module	(Optional) module
<i>module_no</i>	(Optional) module number
interface	(Optional) interface
<i>intf_id</i>	(Optional) show bfd sessions based on interface id
application	(Optional) application
<i>bfd_cli_client_names</i>	(Optional) __nil__ Clients need to register with bfd for this list
src-ip	(Optional) Source ip
src-ipv6	(Optional) Source ip
<i>src_ip</i>	(Optional) Source ip value
dest-ip	(Optional) Destination ip
dest-ipv6	(Optional) Destination ip
<i>dest_ip</i>	(Optional) Destination ip value
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name

<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
details	(Optional) details
__readonly__	(Optional)
TABLE_bfdNeighbor	(Optional) BFD Neighbor table
<i>header</i>	(Optional) Header
<i>vrf_name</i>	(Optional) vrf name
<i>src_ip_addr</i>	(Optional) Source IPV4 address
<i>dest_ip_addr</i>	(Optional) Destination IPV4 address
<i>local_disc</i>	(Optional) Local Discriminator
<i>remote_disc</i>	(Optional) Remote Discriminator
<i>local_state</i>	(Optional) Local State
<i>remote_state</i>	(Optional) Remote State
<i>holddown</i>	(Optional) Hold Down Time
<i>cur_detect_mult</i>	(Optional) Current Detection Multiplier
<i>intf</i>	(Optional) Interface
<i>echo</i>	(Optional) Echo enabled
<i>echo_tx</i>	(Optional) Echo Tx Interval
<i>local_diag</i>	(Optional) Local Diag
<i>demand</i>	(Optional) Demand Mode
<i>poll</i>	(Optional) Poll Bit
<i>min_tx</i>	(Optional) Local Min Tx Interval
<i>min_rx</i>	(Optional) Local Min Rx Interval
<i>local_multi</i>	(Optional) Local Detection Multiplier
<i>dectect_timer</i>	(Optional) Current Detection Timer
<i>down_count</i>	(Optional) Session Down Count
<i>tx_interval</i>	(Optional) Tx Interval
<i>rx_count</i>	(Optional) Tx Count
<i>rx_avg</i>	(Optional) Rx Interval Avg

<i>rx_min</i>	(Optional) Rx Interval Min
<i>rx_max</i>	(Optional) Rx Interval Max
<i>last_rx</i>	(Optional) Last Rx time
<i>tx_count</i>	(Optional) Tx Count
<i>tx_avg</i>	(Optional) Tx Interval Avg
<i>tx_min</i>	(Optional) Tx Interval Min
<i>tx_max</i>	(Optional) Tx Interval Max
<i>last_tx</i>	(Optional) Last Tx time
<i>app</i>	(Optional) App name
<i>up_time</i>	(Optional) Up time
<i>version</i>	(Optional) Version in Last Packet
<i>diag</i>	(Optional) diag in Last Packet
<i>state_bit</i>	(Optional) State Bit in Last Packet
<i>demand_bit</i>	(Optional) Demand Bit in Last Packet
<i>poll_bit</i>	(Optional) Poll Bit in Last Packet
<i>final_bit</i>	(Optional) Final Bit in Last Packet
<i>multiplier</i>	(Optional) Detection Multiplier in Last Packet
<i>length</i>	(Optional) Length in Last Packet
<i>my_disc</i>	(Optional) My Discriminator in Last Packet
<i>your_disc</i>	(Optional) Your Discriminator in Last Packet
<i>min_tx_interval</i>	(Optional) Min Tx Interval in Last Packet
<i>req_min_rx</i>	(Optional) Required Rx Interval in Last Packet
<i>min_echo_interval</i>	(Optional) Min Echo Interval in Last Packet
<i>out_str</i>	(Optional) No Host LC string
<i>parent</i>	(Optional) Parent Session
<i>per_link_str</i>	(Optional) Per Link string
<i>host_lc</i>	(Optional) Host LC
<i>down_reason</i>	(Optional) Session Down Reason
<i>no_host_reason</i>	(Optional) Not Hosted Reason

<i>auth</i>	(Optional) Authentication Mode
<i>auth_bit</i>	(Optional) Auth Bit in Last Packet
<i>print_details</i>	(Optional) print details

Command Mode

- /exec

show bfd scalar

show bfd scalar [__readonly__ <adminStatus> <version> <notifEnable>]

Syntax Description

show	Show running system information
bfd	BFD commands
scalar	bfd mib scalars
__readonly__	(Optional)
<i>adminStatus</i>	(Optional) bfd admin status
<i>version</i>	(Optional) bfd version number
<i>notifEnable</i>	(Optional) Enable bfd traps

Command Mode

- /exec

show bfd session

```
show bfd session { [ discriminator <sessionIndex> ] [ interface <intf_id> ] [ application <app_name> ] [ [ src-ip <src_ip> ] [ dest-ip <dest_ip> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ] } + [ __readonly__ <vrf_name_header> TABLE_bfdSessTable <ciscoBfdSessIndex> <isMember> <ciscoBfdSessApplicationId> <ciscoBfdSessDiscriminator> <ciscoBfdSessRemoteDiscr> <ciscoBfdSessUdpPort> <ciscoBfdSessState> <remoteBfdSessState> <ciscoBfdSessRemoteHeardFlag> <ciscoBfdSessDiag> <remoteBfdSessDiag> <ciscoBfdSessOperMode> <ciscoBfdSessDemandModeDesiredFlag> <ciscoBfdSessEchoFuncModeDesiredFlag> <ciscoBfdSessControlPlanIndepFlag> <ciscoBfdSessAddrType> <ciscoBfdSessAddr> <localBfdSessAddr> <ciscoBfdSessDesiredMinTxInterval> <ciscoBfdSessReqMinRxInterval> <ciscoBfdSessReqMinEchoRxInterval> <ciscoBfdSessDetectMult> <remoteBfdSessDesiredMinTxInterval> <remoteBfdSessReqMinRxInterval> <remoteBfdSessReqMinEchoRxInterval> <remoteBfdSessDetectMult> <ciscoBfdSessStorType> <ciscoBfdSessRowStatus> <ciscoBfdSessAuthPresFlag> <ciscoBfdSessAuthenticationType> <ciscoBfdSessVersionNumber> <ciscoBfdSessType> <ciscoBfdSessInterface> <ciscoBfdSessPerfPktIn> <ciscoBfdSessPerfPktOut> <ciscoBfdSessUpTime> <ciscoBfdSessPerfLastSessDownTime> <ciscoBfdSessPerfLastCommLostDiag> <ciscoBfdSessPerfSessUpCount> <ciscoBfdSessPerfDiscTime> <ciscoBfdSessPerfPktInHC> <ciscoBfdSessPerfPktOutHC> <effasyncdt> <effechodt> ]
```

Syntax Description

show	Show running system information
bfd	BFD commands
session	Session
discriminator	(Optional) Session local discriminator
<i>sessionIndex</i>	(Optional)
interface	(Optional) interface
<i>intf_id</i>	(Optional) show bfd sessions based on interface id
application	(Optional) application
<i>app_name</i>	(Optional) show bfd session based on application name
src-ip	(Optional) Source ip
<i>src_ip</i>	(Optional) Source ip value
dest-ip	(Optional) Destination ip
<i>dest_ip</i>	(Optional) Destination ip value
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

<i>__readonly__</i>	(Optional)
<i>vrf_name_header</i>	(Optional)
TABLE_bfdSessTable	(Optional) BFD Session table
<i>ciscoBfdSessIndex</i>	(Optional)
<i>isMember</i>	(Optional)
<i>ciscoBfdSessApplicationId</i>	(Optional)
<i>ciscoBfdSessDiscriminator</i>	(Optional)
<i>ciscoBfdSessRemoteDiscr</i>	(Optional)
<i>ciscoBfdSessUdpPort</i>	(Optional)
<i>ciscoBfdSessState</i>	(Optional) Session state
<i>remoteBfdSessState</i>	(Optional) Session state
<i>ciscoBfdSessRemoteHeardFlag</i>	(Optional)
<i>ciscoBfdSessDiag</i>	(Optional) Session diagnostic code
<i>remoteBfdSessDiag</i>	(Optional) Session diagnostic code
<i>ciscoBfdSessOperMode</i>	(Optional) ciscoBfdSessOperMode
<i>ciscoBfdSessDemandModeDesiredFlag</i>	(Optional)
<i>ciscoBfdSessEchoFuncModeDesiredFlag</i>	(Optional)
<i>ciscoBfdSessControlPlanIndepFlag</i>	(Optional)
<i>ciscoBfdSessAddrType</i>	(Optional) ciscoBfdSessAddrType
<i>localBfdSessAddr</i>	(Optional)
<i>ciscoBfdSessAddr</i>	(Optional)
<i>ciscoBfdSessDesiredMinTxInterval</i>	(Optional)
<i>ciscoBfdSessReqMinRxInterval</i>	(Optional)
<i>ciscoBfdSessReqMinEchoRxInterval</i>	(Optional)
<i>ciscoBfdSessDetectMult</i>	(Optional)
<i>remoteBfdSessDesiredMinTxInterval</i>	(Optional)
<i>remoteBfdSessReqMinRxInterval</i>	(Optional)
<i>remoteBfdSessReqMinEchoRxInterval</i>	(Optional)
<i>remoteBfdSessDetectMult</i>	(Optional)

<i>ciscoBfdSessStorType</i>	(Optional) ciscoBfdSessStorType
<i>ciscoBfdSessRowStatus</i>	(Optional)
<i>ciscoBfdSessAuthPresFlag</i>	(Optional)
<i>ciscoBfdSessAuthenticationType</i>	(Optional) ciscoBfdSessAuthenticationType
<i>ciscoBfdSessVersionNumber</i>	(Optional)
<i>ciscoBfdSessType</i>	(Optional) ciscoBfdSessType
<i>ciscoBfdSessInterface</i>	(Optional)
<i>ciscoBfdSessPerfPktIn</i>	(Optional)
<i>ciscoBfdSessPerfPktOut</i>	(Optional)
<i>ciscoBfdSessUpTime</i>	(Optional)
<i>ciscoBfdSessPerfLastSessDownTime</i>	(Optional)
<i>ciscoBfdSessPerfLastCommLostDiag</i>	(Optional)
<i>ciscoBfdSessPerfSessUpCount</i>	(Optional)
<i>ciscoBfdSessPerfDiscTime</i>	(Optional)
<i>ciscoBfdSessPerfPktInHC</i>	(Optional)
<i>ciscoBfdSessPerfPktOutHC</i>	(Optional)
<i>effasyncdt</i>	(Optional)
<i>effechodt</i>	(Optional)

Command Mode

- /exec

static	(Optional) Static routes
direct	(Optional) Directly connected
amt	(Optional) AMT anycast prefix
lisp	(Optional) LISP EID-prefixes in the non-default VRF
hmm	(Optional) HMM prefix
am	(Optional) AM routes (learned via ARP)
<i>tag</i>	(Optional) Source protocol tag
neighbor	Show neighbor specific counters
<i>neighbor-id</i>	Neighbor IPv4 address
route-map	(Optional) Neighbor route-map
prefix-list	(Optional) Neighbor prefix-list
filter-list	(Optional) Neighbor filter-list
out	(Optional) Outbound policy
in	(Optional) Inbound policy
default-originate	(Optional) Default-originate policy
dampening	Show dampening info
network	Configured IP prefix to advertise
mask	Configured mask of the IP prefix advertised
aggregate-address	Configured BGP aggregate prefixes
suppress-map	Statistics of suppress policy
advertise-map	Statistics of advertise policy
<i>ip-addr</i>	IP network advertised
<i>ip-mask</i>	Dotted 4-octet mask
<i>ip-prefix</i>	IP prefix in CIDR format
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-polstats</i>	(Optional)
<i>rpm-handle-count</i>	(Optional)
TABLE_rmap	(Optional)

<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seqnum</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>comparecount</i>	(Optional)
<i>matchcount</i>	(Optional)
<i>totalacceptcount</i>	(Optional)
<i>totalrejectcount</i>	(Optional)

Command Mode

- /exec

show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { ipv4 { unicast |
multicast } | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast
} [ <ip-addr> [ <ip-mask> [ longer-prefixes ] ] [ detail ] | <ip-prefix> [ longer-prefixes ] [ detail ] | labels |
exported | imported | detail ] | { ipv6 { unicast | multicast } | vpnv6 unicast [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast } [ <ipv6-prefix> [ longer-prefixes ] [ detail ] | labels |
exported | imported | detail ] | { ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] } [
<ip-addr> [ <ip-mask> ] | <ip-prefix> | labels | mdt-group <mdt-group> ] | { ipv4 | ipv6 } unicast [
injected-routes ] | link-state [ route-type <rt-type> | <ipv4-ls-rt> | <ipv6-ls-rt> ] | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } [ { <ip-addr> [ <ip-mask> ] | <ip-prefix> } ] { ve-id
<ve-id> block-offset <ve-bs> } ] ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } [
join <v4src-addr> <v4grp-addr> <src-asn> | rp <v4src-addr> <grp-v4prefix> <pe-addr> <rp-flags> <rp-priority>
<hashlen> | sa <grp-v4prefix> | sa-ad <v4src-addr> <v4grp-addr> | route-type { 1 | 2 | 3 | 4 | 5 | 6 | 7 } [ detail
] ] | route-type { 1 | 2 | 3 | 4 | 5 | 6 | 7 } [ detail ] | join [ detail ] | sa-ad [ detail ] | i-pmsi [ detail ] ] | ipv6 mvpn
[ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } [ join <v6src-addr> <v6grp-addr> <src-asn> | rp
<v6src-addr> <grp-v6prefix> <pe-addr> <rp-flags> <rp-priority> <hashlen> | sa <grp-v6prefix> | sa-ad
<v6src-addr> <v6grp-addr> | route-type { 1 | 2 | 3 | 4 | 5 | 6 | 7 } [ detail ] ] | route-type { 1 | 2 | 3 | 4 | 5 | 6 | 7
} [ detail ] | join [ detail ] | sa-ad [ detail ] | i-pmsi [ detail ] ] | l2vpn evpn [ route-type <rtype> [ etid <et> ] |
rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } [ route-type <rtype> [ etid <et> ] | <ipv4-evpn-rt> |
<ipv6-evpn-rt> | <mac-address> ] | vni-id <vni_id> [ route-type <rtype> ] | es <es-id> [ route-type <rtype> [
etid <et> ] ] | <ipv4-evpn-rt> | <ipv6-evpn-rt> | <mac-address> ] | all [ detail ] ] { vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out>
TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [
<rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion>
<totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [
<export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop>
} { { <inlabel> <outlabel> <vpn> <hold_down> } | { <localpref> <weight> <aspath> <origin> [ <metric> ]
} } } | { { <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> } [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> ] [ <inlabel> ] [ <originflag> ] [ {
TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [ <originatorid> {
TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime> <flapflags>
<flapindex> <flaphalflife> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd>
<con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid>
] [ <psid_origrsgb_len> <psid_origrsgb_flag> <psid_origrsgb_base> <psid_origrsgb_end> ] ] [ <remotenh>
<remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [ <link-state-attr>
<link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto
<scheduledto> ] ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name

<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ip-addr</i>	(Optional) Display one particular network from the BRIB in detail
<i>ip-mask</i>	(Optional) Mask for one particular prefix in the BRIB
<i>ip-prefix</i>	(Optional) Display one particular prefix from the BRIB in detail
longer-prefixes	(Optional) Display route and more specific routes
labels	(Optional) Display BGP labels for prefixes
exported	(Optional) Display only exported prefixes
imported	(Optional) Display only imported prefixes
injected-routes	(Optional) Display only injected prefixes
mdt-group	(Optional) Display prefixes with MDT group address
<i>mdt-group</i>	(Optional) MDT group address
rd	(Optional) Display information for a route distinguisher
ve-id	(Optional) VPLS VE ID
<i>ve-id</i>	(Optional) VPLS VE ID
route-type	(Optional) EVPN Route Type number
<i>rtype</i>	(Optional) EVPN route type number
1	(Optional) Inter-AS PMSI AD
2	(Optional) Intra-AS PMSI AD
3	(Optional) SPMSI AD
4	(Optional) LEAF AD
5	(Optional) Source-Active AD
6	(Optional) Shared C-Multicast
7	(Optional) Source C-Multicast
vni-id	(Optional) EVPN VNI ID number
<i>vni_id</i>	(Optional) EVPN VNI ID number
<i>rt-type</i>	(Optional) Link-State route-type
es	(Optional) Ethernet Segment
<i>es-id</i>	(Optional) ESID
etid	(Optional) Ethernet Tag-ID for L2VPN EVPN route

<i>et</i>	(Optional) Ethernet Tag-ID
<i>ipv4-evpn-rt</i>	(Optional) EVPN IPv4 address
<i>ipv4-ls-rt</i>	(Optional) Link-State NLRI with descriptor including IPv4 address
<i>mac-address</i>	(Optional) MAC address
<i>block-offset</i>	(Optional) VPLS VE Block offset
<i>ve-bs</i>	(Optional) VPLS VE Block offset
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
<i>ipv4</i>	Display BGP information for IPv4 address family
<i>vpn4</i>	Display BGP information for VPNv4 address family
<i>vpn6</i>	Display BGP information for VPNv6 address family
<i>ipv6</i>	Display BGP information for IPv6 address family
<i>unicast</i>	Display BGP information for unicast address family
<i>multicast</i>	Display BGP information for multicast address family
<i>mdt</i>	Display BGP information for multicast distribution tree
<i>link-state</i>	Display BGP information for link-state address family
<i>l2vpn</i>	Display BGP information for L2VPN address family
<i>vpls</i>	Display BGP information for L2VPN VPLS address family
<i>labeled-unicast</i>	Display BGP information for labeled-unicast address family
<i>mvpn</i>	Display BGP information for MVPN address family
<i>evpn</i>	Display BGP information for L2VPN EVPN address family
<i>all</i>	Display BGP information for all address families
<i>join</i>	(Optional) Display Multicast Join route
<i>detail</i>	(Optional) Display detailed path info for routes
<i>sa</i>	(Optional) Display Multicast Source Active AD route
<i>sa-ad</i>	(Optional) Display Multicast Source Active AD route
<i>i-pmsi</i>	(Optional) Display Multicast Intra-AS I-PMSI route
<i>rp</i>	(Optional) Display Multicast Group to RP route
<i>v4src-addr</i>	(Optional) Source IP Address

<i>src-asn</i>	(Optional) Source ASN
<i>v4grp-addr</i>	(Optional) Group IP Address
<i>grp-v4prefix</i>	(Optional) Group IP prefix
<i>pe-addr</i>	(Optional) PE IP Address
<i>rp-flags</i>	(Optional) Flags
<i>rp-priority</i>	(Optional) RP Priority
<i>hashlen</i>	(Optional) Hash mask length
<i>l</i>	(Optional) vrf
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)

<i>advertisedto</i>	(Optional)
TABLE_ <i>scheduledto</i>	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_ <i>path</i>	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)

<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)

<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgrb_len</i>	(Optional)
<i>psid_origsrgrb_flag</i>	(Optional)
<i>psid_origsrgrb_base</i>	(Optional)
<i>psid_origsrgrb_end</i>	(Optional)

Command Mode

- /exec

community-list	Display routes matching the community-list
<i>commlist-name</i>	Name of community-list
extcommunity-list	Display routes matching the extcommunity-list
<i>extcommlist-name</i>	Name of extcommunity-list
<i>test_pol_name</i>	An existing test-list policy
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
exact-match	(Optional) Exact match of the communities
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)

<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)

<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)

<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)

<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

Command Mode

- /exec

show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | all } { rib-install | rib-uninstall | rib-pending } [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
rib-install	Routes installed in RIB
rib-uninstall	Routes not installed in RIB
rib-pending	Routes not acknowledged by RIB

Command Mode

- /exec

show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { ipv4 { unicast |
multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv4 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | link-state | l2vpn vpls [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | l2vpn evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4
mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast } nexthop <ipnexthop>
| { ipv6 { unicast | multicast } | vpnv6 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] |
ipv6 labeled-unicast | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] } nexthop
<ipv6nexthop> } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id>
] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> |
<nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed>
<needsresync> <locked> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ]
[ <mpath> ] ] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> } {
<ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> } } { <localpref> <weight>
<aspath> <origin> [ <metric> ] } } } | [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted>
<pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <existpath> ] [
<aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> }
<neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras> ] [ <inlabel> ] [
<originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [
<originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime>
<flapflags> <flapindex> <flaphalflife> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len>
<con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len>
<psid_v6sid> ] [ <psid_origsrgrb_len> <psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ]
[ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [
<link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [
TABLE_scheduledto <scheduledto> ] ] ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
nexthop	Display routes matching the nexthop
<i>ipnexthop</i>	Nexthop address
ipv4	Display BGP information for IPv4 address family

ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
evpn	Display BGP information for L2VPN EVPN address family
mvpn	Display BGP information for MVPN address family
labeled-unicast	Display BGP information for labeled-unicast address family
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)

<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)

<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)

<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)

<i>psid_origsrgrb_len</i>	(Optional)
<i>psid_origsrgrb_flag</i>	(Optional)
<i>psid_origsrgrb_base</i>	(Optional)
<i>psid_origsrgrb_end</i>	(Optional)

Command Mode

- /exec

show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { { ipv4 { unicast
| multicast } | vpnv4 unicast | ipv4 mdt | link-state | l2vpn vpls | l2vpn evpn | ipv4 mvpn } nexthop-database
[ <ipnexthop> ] } | { { ipv6 { unicast | multicast } | vpnv6 unicast | ipv6 mvpn } nexthop-database [
<ipv6nexthop> ] } | { all nexthop-database } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_nhvrif <nhvrf-name-out> TABLE_nhafi <nhafi>
TABLE_nhsafi <nhsafi> <af-name> <nhcriticaldelay> <nhnoncriticaldelay> [ { TABLE_nexthop {
<ipnexthop-out> | <ipv6nexthop-out> } <refcount> <igpmetric> <igptype> <igppref> [ { TABLE_attachedhops
{ <attachedhop> | <ipv6attachedhop> } <interface> [ { TABLE_labels <index> <label> } ] ] ] <attached>
<local> <reachable> <labeled> <filtered> <resolvetime> { <ribroute> | <ipv6ribroute> } { <pendingupdate>
| <pendingtime> } <nextadvertise> <rnhepoch> [ <pendingrnhepoch> ] } ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
nexthop-database	Display nexthop database
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
mdt	Display BGP information for multicast distribution tree
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
<i>ipnexthop</i>	(Optional) Nexthop address

<code>__readonly__</code>	(Optional)
<code>TABLE_nhvr</code>	(Optional)
<code>nhvr-name-out</code>	(Optional)
<code>TABLE_nhafi</code>	(Optional)
<code>nhafi</code>	(Optional)
<code>TABLE_nhsafi</code>	(Optional)
<code>nhsafi</code>	(Optional)
<code>af-name</code>	(Optional)
<code>nhcriticaldelay</code>	(Optional)
<code>nhnoncriticaldelay</code>	(Optional)
<code>TABLE_nexthop</code>	(Optional)
<code>ipnexthop-out</code>	(Optional)
<code>refcount</code>	(Optional)
<code>igpmetric</code>	(Optional)
<code>igptype</code>	(Optional)
<code>igppref</code>	(Optional)
<code>TABLE_attachedhops</code>	(Optional)
<code>attachedhop</code>	(Optional)
<code>interface</code>	(Optional)
<code>TABLE_labels</code>	(Optional)
<code>index</code>	(Optional)
<code>label</code>	(Optional)
<code>attached</code>	(Optional)
<code>local</code>	(Optional)
<code>reachable</code>	(Optional)
<code>labeled</code>	(Optional)
<code>filtered</code>	(Optional)
<code>resolvetime</code>	(Optional)
<code>pendingupdate</code>	(Optional)

<i>pendingtime</i>	(Optional)
<i>ribroute</i>	(Optional)
<i>nextadvertise</i>	(Optional)
<i>rnhepoch</i>	(Optional)
<i>pendingrnhepoch</i>	(Optional)

Command Mode

- /exec

show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } flap-statistics [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] | ipv6 { unicast | multicast } flap-statistics
[ <ipv6-prefix> ] | all flap-statistics } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234
} ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ TABLE_rd
[ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ <dampeningenabled> <historypaths> <dampenedpaths> ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <status> ] [ <pathtype> ] [ <peer> | <ipv6peer>
] [ <flapcount> ] [ <duration> ] [ <reuse> ] [ <penalty> ] [ <suppresslimit> ] [ <reuselimit> ] [ <best> ] ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
flap-statistics	Display route flap statistics
<i>ip-prefix</i>	(Optional) Display flap statistics for one prefix
<i>ip-addr</i>	(Optional) Display flap statistics for one network
<i>ip-mask</i>	(Optional) Network mask
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)

TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
<i>dampeningenabled</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>status</i>	(Optional)
<i>best</i>	(Optional)
<i>pathtype</i>	(Optional)
<i>peer</i>	(Optional)
<i>flapcount</i>	(Optional)
<i>duration</i>	(Optional)
<i>reuse</i>	(Optional)
<i>penalty</i>	(Optional)
<i>suppresslimit</i>	(Optional)
<i>reuselimit</i>	(Optional)

Command Mode

- /exec

<i>refresh_interval</i>	(Optional) refresh delay for bmp server
<i>stats_interval</i>	(Optional) frequency of stat updates
<i>initiation</i>	(Optional) number of initiation messages
<i>termination</i>	(Optional) number of termination messages
<i>peer_up</i>	(Optional) number of peer up messages
<i>peer_down</i>	(Optional) number of peer down messages
<i>route_monitor</i>	(Optional) number of route monitor messages
<i>route_mirror</i>	(Optional) number of route mirror messages
<i>stats</i>	(Optional) number of stats messages
<i>messages_dropped</i>	(Optional) number of dropped messages
<i>monitored_peers</i>	(Optional) number of monitored peers for the bmp server
TABLE_peer	(Optional) monitored peer for the bmp server
<i>peer_addr</i>	(Optional) ip address of the peer
<i>refresh_interval</i>	(Optional) refresh delay for the peer
<i>peer_up</i>	(Optional) number of peer up messages for the peer
<i>peer_down</i>	(Optional) number of peer down messages for the peer
<i>route_monitor</i>	(Optional) number of route monitor messages for the peer
<i>route_mirror</i>	(Optional) number of route mirror messages for the peer
<i>stats</i>	(Optional) number of stats messages for the peer
<i>messages_dropped</i>	(Optional) number of dropped messages for the peer
<i>prefixes_denied</i>	(Optional) prefixes denied for the peer
<i>dup_pfx_advmnt</i>	(Optional) dup pfx advmnt for the peer
<i>pfx_dup_wdr_count</i>	(Optional) pfx dup wdr count for the peer
<i>cluster_list_loops</i>	(Optional) cluster list loops for the peer
<i>as_path_loops</i>	(Optional) as path loops for the peer
<i>as_confed_loops</i>	(Optional) as confed loops for the peer
<i>invalid_originator</i>	(Optional) invalid originator for the peer
<i>adj_rib_in</i>	(Optional) adj-rib-in for the peer
<i>loc-rib</i>	(Optional) loc-rib for the peer

Command Mode

- /exec

show bgp community

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } community {
<regex-str> | { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi>
TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [
<rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths>
<bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <export-on-newlist>
<export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { { <status>
<best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { <inlabel> <outlabel>
<vpn> <hold_down> } | { <localpref> <weight> <aspath> <origin> [ <metric> ] } } } | [ <policyincomplete>
<pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric>
{ <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator>
<aggregatoras> ] [ <inlabel> ] [ <originflag> ] [ { TABLE_community <community> } ] [ {
TABLE_extcommunity <extcommunity> } ] [ <originatorid> { TABLE_clusterlist <clusterlist> } ] [
<flappenalty> <dampenedtime> <flaps> <flaptime> <flapflaps> <flapindex> <flaphalflife> <flapreuse>
<flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len>
<psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origsrgrb_len>
<psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmisi> ] [ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [
<mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ]
]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family

vpn4	Display BGP information for VPNv4 address family
vpn6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
labeled-unicast	Display BGP information for labeled-unicast address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
community	Display routes matching the BGP communities
<i>regexp-str</i>	Regular expression to match the communities
<i>comm-id</i>	BGP community value
<i>wellknown-id</i>	BGP wellknown community
exact-match	(Optional) Exact match of the communities
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)

<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)

<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)

<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)

<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

Command Mode

- /exec

show bgp convergence

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] convergence [ detail
] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ <starttime>
<configdonetime> <juststarted> [ <initwaittime> ] [ <ldpconverged> ] [ <ulibconvergencesent> ] TABLE_vrf
<vrf-name-out> <bestpathtimeout> <configuredtimeout> <updatedelay> [ <firstpeerup> ] <timerrunning> [
<timerexpires> ] TABLE_afi <afi> TABLE_safi <safi> <af-name> <total_configured_peers>
<total_capable_peers> <firstbestpathsignalled> [ <firstbestpathsignalledtime> ] <firstbestpathdone> [
<firstbestpathdonetime> [ <lastbestpathsignalledtime> <lastbestpathdonetime> ] ] [ <riblicconvergencesent>
] [ <importtimerrunning> ] [ <importtimerexpires> ] [ { TABLE_rcvdpeers [ <peer> ] [ <ipv6peer> ] [
<signalledtimepeer> ] } ] [ { TABLE_notrcvdpeers [ <notpeer> ] [ <notipv6peer> ] [ <nokeepalive> ] [
<notsignalledtime> ] } } ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
convergence	Display information about convergence
detail	(Optional) Display detailed information about convergence
__readonly__	(Optional)
<i>starttime</i>	(Optional)
<i>configdonetime</i>	(Optional)
<i>juststarted</i>	(Optional)
<i>initwaittime</i>	(Optional)
<i>ldpconverged</i>	(Optional)
<i>ulibconvergencesent</i>	(Optional)
TABLE_vrf	(Optional)
<i>total_configured_peers</i>	(Optional)
<i>total_capable_peers</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>bestpathtimeout</i>	(Optional)
<i>configuredtimeout</i>	(Optional)

<i>updatedelay</i>	(Optional)
<i>firstpeerup</i>	(Optional)
<i>timerrunning</i>	(Optional)
<i>timerexpires</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>firstbestpathsignalled</i>	(Optional)
<i>firstbestpathsignalledtime</i>	(Optional)
<i>firstbestpathdone</i>	(Optional)
<i>firstbestpathdonetime</i>	(Optional)
<i>lastbestpathsignalledtime</i>	(Optional)
<i>lastbestpathdonetime</i>	(Optional)
<i>ribbibconvergencesent</i>	(Optional)
<i>importtimerrunning</i>	(Optional)
<i>importtimerexpires</i>	(Optional)
TABLE_rcvdpeers	(Optional)
<i>peer</i>	(Optional)
<i>signalledtimepeer</i>	(Optional)
TABLE_notrcvdpeers	(Optional)
<i>notpeer</i>	(Optional)
<i>nokeepalive</i>	(Optional)
<i>notsignalledtime</i>	(Optional)

Command Mode

- /exec

show bgp convergence private

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] convergence private
[ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
convergence	Display information about convergence
private	Display private information about convergence

Command Mode

- /exec

show bgp dampening dampened

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } dampening {
dampened-paths [ regexp <regexp-str> ] | history-paths [ regexp <regexp-str> } ] [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out>
TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [
<rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion>
<totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [
<export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop>
} { { <inlabel> <outlabel> <vpn> <hold_down> } | { <localpref> <weight> <aspath> <origin> [ <metric> ]
} } } | { { <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> } [ <existpath> ] [ <aspath> <source> } {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> ] [ <inlabel> ] [ <originflag> ] [ {
TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [ <originatorid> {
TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime> <flapflags>
<flapindex> <flaphalf-life> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd>
<con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid>
] [ <psid_origrsgb_len> <psid_origrsgb_flag> <psid_origrsgb_base> <psid_origrsgb_end> ] ] [ <remotenh>
<remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [ <link-state-attr>
<link-state-attr-len> ] [ <mdt_grp_addr> } } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto
<scheduledto> ] ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
dampened-paths	Display all dampened paths
history-paths	Display all history paths
dampening	Display dampening info
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format

<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpn4	Display BGP information for VPNv4 address family
vpn6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
regex	(Optional) Display routes matching the AS path regular expression
<i>regex-str</i>	(Optional) Regular expression to match the AS paths
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)

<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)

<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)

<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)

<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

Command Mode

- /exec

show bgp dampening flap-statistics

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } dampening
flap-statistics [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ TABLE_rd [ <rd_val> [
<rd_vrf> ] [ <rd_vniid> ] ] [ <dampeningenabled> <historypaths> <dampenedpaths> ] [ TABLE_prefix {
<ipprefix> | <ipv6prefix> | <nonipprefix> } ] [ <status> ] [ <pathtype> ] [ <peer> | <ipv6peer> ] [ <flapcount>
] [ <duration> ] [ <reuse> ] [ <penalty> ] [ <suppresslimit> ] [ <reuselimit> ] [ <best> ] ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
dampening	Display dampening info
flap-statistics	Display flap statistics for routes
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpv4	Display BGP information for VPNv4 address family
vpv6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family

l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
<i>dampeningenabled</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>status</i>	(Optional)
<i>best</i>	(Optional)
<i>pathtype</i>	(Optional)
<i>peer</i>	(Optional)
<i>flapcount</i>	(Optional)
<i>duration</i>	(Optional)

<i>reuse</i>	(Optional)
<i>penalty</i>	(Optional)
<i>suppresslimit</i>	(Optional)
<i>reuselimit</i>	(Optional)

Command Mode

- /exec

show bgp dampening parameters

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } dampening
parameters [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ TABLE_rd [ <rd_val> ] [
<rd_vrf> ] [ <rd_vniid> ] [ <rpmname> ] [ TABLE_rpm <rpmindex> <rpmdamphalflife> <rpmdampsuppress>
<rpm dampreuse> <rpm dampsuppress> <rpm dampmaxpenalty> ] [ <dampconfigured> <damp halflife>
<damp suppress> <damp reuse> <damp suppress time> <damp maxpenalty> ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
dampening	Display dampening info
parameters	Display dampening parameters
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family

l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional) VRF RD
<i>rd_vniid</i>	(Optional)
TABLE_rpm	(Optional)
<i>rpmname</i>	(Optional)
<i>rpmindex</i>	(Optional)
<i>rpmdamphalflife</i>	(Optional)
<i>rpm damp suppress</i>	(Optional)
<i>rpm damp reuse</i>	(Optional)
<i>rpm damp suppress time</i>	(Optional)
<i>rpm damp max penalty</i>	(Optional)
<i>damp configured</i>	(Optional)
<i>damp halflife</i>	(Optional)
<i>damp suppress</i>	(Optional)
<i>damp reuse</i>	(Optional)

<i>dampsuppresstime</i>	(Optional)
<i>dampmaxpenalty</i>	(Optional)

Command Mode

- /exec

show bgp default-info

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | all } default-info [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
default-info	Display information about default routes
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families

Command Mode

- /exec

show bgp event-history

show bgp [internal] event-history { <bgp-event-hist> | events | errors | msgs | detail | periodic | objstore }

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
internal	(Optional) Commands for internal use
event-history	Show various event logs of BGP
<i>bgp-event-hist</i>	Show BGP event log
detail	Show detailed event logs
events	Show event logs of BGP
errors	Show error logs of BGP
msgs	Show various message logs of BGP
objstore	Show objstore logs of BGP
periodic	Show periodic logs of BGP

Command Mode

- /exec

show bgp extcommunity

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } extcommunity
{ <regex-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ _readonly_ TABLE_vrf<vrf-name-out> TABLE_afi<afi> TABLE_safi
<safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [
<on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <export-on-newlist>
<export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { { <status>
<best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } } { <inlabel> <outlabel>
<vpn> <hold_down> } | { <localpref> <weight> <aspath> <origin> [ <metric> ] } } } | { <policyincomplete>
<pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric>
{ <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator>
<aggregatoras> ] [ <inlabel> ] [ <originflag> ] [ { TABLE_community <community> } ] [ {
TABLE_extcommunity <extcommunity> } ] [ <originatorid> { TABLE_clusterlist <clusterlist> } ] [
<flappenalty> <dampenedtime> <flaps> <flaptime> <flapflags> <flapindex> <flaphalflife> <flapreuse>
<flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len>
<psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origsrgrb_len>
<psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [
<mdt_grp_addr> } } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ]
]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family

vpn4	Display BGP information for VPNv4 address family
vpn6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
link-state	Display BGP information for link-state address family
labeled-unicast	Display BGP information for labeled-unicast address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
<i>regexp-str</i>	Regular expression to match the extcommunities
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
exact-match	(Optional) Exact match of the extcommunities
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)

<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)

<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)

<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)

<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origrsrb_len</i>	(Optional)
<i>psid_origrsrb_flag</i>	(Optional)
<i>psid_origrsrb_base</i>	(Optional)
<i>psid_origrsrb_end</i>	(Optional)

Command Mode

- /exec

show bgp l3vpn

```
show bgp l3vpn [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [
__readonly__ TABLE_vrf <vrf-name-out> [ <vrf-id> ] [ <vrf-rd> ] [ <vrf-state> ] [ <vrf-state-rsn> ] [
<vrf-pending-rd> ] [ { TABLE_af <af-id> [ <af-name> ] [ <af-table-id> ] [ <af-state> ] [ <af-state-rsn> ] [
<af-num-peers> ] [ <af-num-active-peers> ] [ <af-peer-routes> ] [ <af-peer-paths> ] [ <af-peer-networks> ]
[ <af-peer-aggregates> ] [ <af-export-rmap> ] [ <af-import-rmap> ] [ <af-retain-rt> ] [ TABLE_export_rt
<export-rt> ] [ TABLE_import_rt <import-rt> ] [ TABLE_evpn_export_rt <evpn-export-rt> ] [
TABLE_evpn_import_rt <evpn-import-rt> ] [ <af-label-mode> ] [ <af-aggregate-label> ] } ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
l3vpn	BGP l3vpn information
vrf	(Optional) Virtual Router Context
detail	(Optional) Detailed information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional) Read Only
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional) VRF name
<i>vrf-id</i>	(Optional) VRF ID
<i>vrf-state</i>	(Optional) VRF State
<i>vrf-state-rsn</i>	(Optional) VRF State Reason
<i>vrf-rd</i>	(Optional) VRF RD
<i>vrf-pending-rd</i>	(Optional) VRF pending RD
TABLE_af	(Optional)
<i>af-id</i>	(Optional) AF ID
<i>af-table-id</i>	(Optional) AF table
<i>af-name</i>	(Optional) AF table name
<i>af-state</i>	(Optional) AF table state
<i>af-state-rsn</i>	(Optional) AF table state reason
<i>af-num-peers</i>	(Optional) No. of peers

<i>af-num-active-peers</i>	(Optional) No. of active peers
<i>af-peer-routes</i>	(Optional) No. of peer routes
<i>af-peer-paths</i>	(Optional) No. of peer paths
<i>af-peer-networks</i>	(Optional) No. of peer networks
<i>af-peer-aggregates</i>	(Optional) No. of aggregates
<i>af-export-rmap</i>	(Optional) Export route-map
<i>af-import-rmap</i>	(Optional) Import route-map
<i>af-retain-rt</i>	(Optional) Retain RT
TABLE_export_rt	(Optional)
<i>export-rt</i>	(Optional) Export route target
TABLE_import_rt	(Optional)
<i>import-rt</i>	(Optional) Import route target
TABLE_evpn_export_rt	(Optional)
<i>evpn-export-rt</i>	(Optional) Export EVPN route target
TABLE_evpn_import_rt	(Optional)
<i>evpn-import-rt</i>	(Optional) Import EVPN route target
<i>af-label-mode</i>	(Optional) Label allocation mode
<i>af-aggregate-label</i>	(Optional) Aggregate Label

Command Mode

- /exec

show bgp neighbors

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast
| multicast } | ipv6 { unicast | multicast } | all } } | vpngv4 unicast | vpngv6 unicast | ipv6 labeled-unicast |
link-state | l2vpn vpls | l2vpn evpn | ipv4 mvpn | ipv6 mvpn | ipv4 labeled-unicast } neighbors [ { <neighbor-id>
| <ipv6-neighbor-id> | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id> } ] [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ [ TABLE_neighbor { <neighbor>
| <ipv6neighbor> | <templatepeer> | <ipv4prefixneighbor> | <ipv6prefixneighbor> } ] <remoteas> ] [ <localas>
] <link> [ <peertype> ] [ <index> ] [ TABLE_peer <peer> ] [ <maxprefixpeers> ] [ <configpeer> ] [
<inherit-template> ] [ <inherit-session-template> ] [ { <prefix-parent> | <ipv6prefix-parent> } ] [ <description>
] [ <version> <remote-id> <state> <up> <elapsedtime> [ <restarttime> ] ] [ <sourceif> ] [ <connectedif> ] [
<connectedcheck> ] [ <lowmemexempt> ] [ <bfd> ] [ <ttlsecurity> ] [ <ttllimit> ] [ <password> ] [
<passiveonly> ] [ <activepeers> <closingpeers> <maxconcurrentpeers> ] [ <allocatedpeers> ] [
<totalpeersaccepted> ] [ <localas-inactive> ] <remove-privateas> { { <lastread> <holdtime> <keepalivetime>
<lastwrite> [ <keepalive> ] <msgrecvd> <notificationsrcvd> <recvbufbytes> <msgsent> <notificationssent>
<sentbytesoutstanding> <connsestablished> <connsdropped> [ <connattempts> ] } { <peerresettime>
<peerresetreason> <resettime> <resetreason> } | { <resettime> <resetreason> <peerresettime>
<peerresetreason> } } ] [ <capsnegotiated> <capmpadvertised> [ <caprefreshadvertised>
<capgrdynamicadvertised> ] [ <capmprecvd> <caprefreshrecvd> <capgrdynamicrecvd> ] [
<capolddynamicadvertised> <capolddynamicrecvd> <caprradvertised> <caprrrecvd> <capolddradvertised>
<capolddrrrecvd> <capas4advertised> <capas4recvd> ] [ { TABLE_af <af-afi> TABLE_saf <af-safi>
<af-advertised> <af-recvd> <af-name> } ] [ <capgradvertised> <capgrecvd> ] [ { TABLE_graf <gr-afi>
TABLE_grsaf <gr-safi> <gr-af-name> <gr-adv> <gr-recv> <gr-fw> } ] [ <grrestarttime> <grstaletime> ] [
<grrecvdrestarttime> ] [ { TABLE_addpathscapaf <addpathscap-afi> TABLE_addpathscapsaf
<addpathscap-safi> <addpathscap-af-name> <addpathssendcap-adv> <addpathsrecvcap-adv>
<addpathssendcap-recv> <addpathsrecvcap-recv> } ] [ <capaddpathsadvertised> <capaddpathsrecvd> ] [
<capextendednhadvertised> <capextendednhrecvd> ] [ { TABLE_capextendednhaf <capextendednh-afi>
TABLE_capextendednhsaf <capextendednh-safi> <capextendednh-af-name> } } ] | [ <configholdtime>
<configkeepalivetime> ] } ] [ <epe> ] [ <epe-adj-sids> ] [ <epe-peer-rpc-set> ] [ <epe-peer-sid> ] [
<epe-peer-set-name> ] [ <epe-peer-set-rpc-set> ] [ <epe-peer-set-sid> ] [ { TABLE_epe-adj { {
<epe-adj-ip-local> <epe-adj-ip-remote> } | { <epe-adj-ipv6-local> <epe-adj-ipv6-remote> } } ] [
<epe-adj-ifindex> <epe-adj-rpc-set> <epe-adj-sid> } ] ] [ <grstate> <grexpiry> ] [ <firstkeepalive> ] [
<openssent> <opensrecvd> <updatesent> <updatesrecvd> <keepalivesent> <keepaliverecvd> <rtrefreshsent>
<rtrefreshrecvd> <capabilitiesent> <capabilitiesrecvd> <bytessent> <bytesrecvd> ] [ TABLE_peraf <per-afi>
TABLE_persaf <per-safi> <per-af-name> [ <tableversion> ] [ <neighbortableversion> ] [ <pfxrecvd> ] [
<pfxbytes> ] [ <pfxsent> ] [ <conditionmap> <advertisemap> <advertisemapstatus> ] <insoftreconfigallowed>
[ <insoftreconfigallowedalways> ] [ <sendcommunity> ] [ <sendextcommunity> ] [ { <localnexthop> |
<ipv6localnexthop> } ] [ <thirdpartynexthop> ] [ <maxpfx> ] [ <maxpfx_threshold> ] [ <soo> ] [ <weight>
] [ <allowasin> ] [ <asoverride> <peerascheckdisabled> [ <vplssignalingprotocol> ] [ { TABLE_inpolicy
<inpolicynr> <inpolicytype> <inpolicyname> [ <inpolicyhandle> } ] ] [ { TABLE_outpolicy <outpolicynr>
<outpolicytype> <outpolicyname> [ <outpolicyhandle> } ] ] [ <rrconfigured> ] [ <defaultoriginate> ] [
<defaultoriginatemap> ] [ <defaultsent> ] [ <grpathsaved> ] [ <grEoRrecvd> ] [ <grEoRtime> ] [
<unsuppress-map> ] [ { TABLE_policy_template <preference> <inherit-policy-template> } ] ] [ <threadid>
] [ <passivethreadid> <passivefd> ] [ { <localaddr> | <ipv6localaddr> } <localport> { <remoteaddr> |
<ipv6remoteaddr> } <remoteport> <fd> } ] ] ] ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration

vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
neighbors	Display all configured BGP neighbors
<i>neighbor-id</i>	(Optional) Display one particular BGP neighbor
<i>neighbor-prefix-id</i>	(Optional) Display details for a prefix peering
ipv4	Display BGP information for IPv4 address family
vpn4	Display BGP information for VPNv4 address family
vpn6	Display BGP information for VPNv6 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
<u>__readonly__</u>	(Optional)
TABLE_neighbor	(Optional)
<i>neighbor</i>	(Optional)
<i>templatepeer</i>	(Optional)
<i>ipv4prefixneighbor</i>	(Optional)
<i>remoteas</i>	(Optional)
<i>localas</i>	(Optional)
<i>link</i>	(Optional)
<i>index</i>	(Optional)
TABLE_peer	(Optional)

<i>peer</i>	(Optional)
<i>maxprefixpeers</i>	(Optional)
<i>configpeer</i>	(Optional)
<i>inherit-template</i>	(Optional)
<i>inherit-session-template</i>	(Optional)
<i>prefix-parent</i>	(Optional)
<i>description</i>	(Optional)
<i>version</i>	(Optional)
<i>remote-id</i>	(Optional)
<i>state</i>	(Optional)
<i>up</i>	(Optional)
<i>elapsedtime</i>	(Optional)
<i>restarttime</i>	(Optional)
<i>peertype</i>	(Optional)
<i>sourceif</i>	(Optional)
<i>connectedif</i>	(Optional)
<i>connectedcheck</i>	(Optional)
<i>lowmemexempt</i>	(Optional)
<i>bfd</i>	(Optional)
<i>ttlsecurity</i>	(Optional)
<i>tllimit</i>	(Optional)
<i>localas-inactive</i>	(Optional)
<i>passiveonly</i>	(Optional)
<i>activepeers</i>	(Optional)
<i>closingpeers</i>	(Optional)
<i>maxconcurrentpeers</i>	(Optional)
<i>allocatedpeers</i>	(Optional)
<i>totalpeersaccepted</i>	(Optional)
<i>password</i>	(Optional)

<i>remove-privateas</i>	(Optional)
<i>lastread</i>	(Optional)
<i>holdtime</i>	(Optional)
<i>keepalivetime</i>	(Optional)
<i>lastwrite</i>	(Optional)
<i>keepalive</i>	(Optional)
<i>msgrecvd</i>	(Optional)
<i>notificationsrcvd</i>	(Optional)
<i>rcvbufbytes</i>	(Optional)
<i>msgsent</i>	(Optional)
<i>notificationssent</i>	(Optional)
<i>sentbytesoutstanding</i>	(Optional)
<i>connsestablished</i>	(Optional)
<i>connsdropped</i>	(Optional)
<i>connattempts</i>	(Optional)
<i>peerresettime</i>	(Optional)
<i>peerresetreason</i>	(Optional)
<i>resettime</i>	(Optional)
<i>resetreason</i>	(Optional)
<i>configholdtime</i>	(Optional)
<i>configkeepalivetime</i>	(Optional)
<i>grstate</i>	(Optional)
<i>gexpiry</i>	(Optional)
<i>firstkeepalive</i>	(Optional)
<i>epe</i>	(Optional)
<i>epe-adj-sids</i>	(Optional)
<i>epe-peer-rpc-set</i>	(Optional)
<i>epe-peer-sid</i>	(Optional)
<i>epe-peer-set-name</i>	(Optional)

<i>epe-peer-set-rpc-set</i>	(Optional)
<i>epe-peer-set-sid</i>	(Optional)
TABLE_epe-adj	(Optional)
<i>epe-adj-ip-local</i>	(Optional)
<i>epe-adj-ip-remote</i>	(Optional)
<i>epe-adj-ifindex</i>	(Optional)
<i>epe-adj-rpc-set</i>	(Optional)
<i>epe-adj-sid</i>	(Optional)
<i>openssent</i>	(Optional)
<i>opensrcvd</i>	(Optional)
<i>updatesent</i>	(Optional)
<i>updatesrcvd</i>	(Optional)
<i>keepalivesent</i>	(Optional)
<i>keepaliverecvd</i>	(Optional)
<i>rtrefreshsent</i>	(Optional)
<i>rtrefreshrcvd</i>	(Optional)
<i>capabilitiesent</i>	(Optional)
<i>capabilitiesrcvd</i>	(Optional)
<i>bytessent</i>	(Optional)
<i>bytesrcvd</i>	(Optional)
<i>threadid</i>	(Optional)
<i>fd</i>	(Optional)
<i>passivethreadid</i>	(Optional)
<i>passivefd</i>	(Optional)
<i>localaddr</i>	(Optional)
<i>localport</i>	(Optional)
<i>remoteaddr</i>	(Optional)
<i>remoteport</i>	(Optional)
<i>capsnegotiated</i>	(Optional)

<i>capmpadvertised</i>	(Optional)
<i>capgrdynamicadvertised</i>	(Optional)
<i>capaddpathsadvertised</i>	(Optional)
<i>caprefreshadvertised</i>	(Optional)
<i>capmprecvd</i>	(Optional)
<i>capgrdynamicrecvd</i>	(Optional)
<i>capaddpathsrecvd</i>	(Optional)
<i>caprefreshrecvd</i>	(Optional)
<i>capolddynamicadvertised</i>	(Optional)
<i>capolddynamicrecvd</i>	(Optional)
<i>caprradvertised</i>	(Optional)
<i>caprrrecvd</i>	(Optional)
<i>capoldrradvertised</i>	(Optional)
<i>capoldrrrecvd</i>	(Optional)
<i>capas4advertised</i>	(Optional)
<i>capas4recvd</i>	(Optional)
TABLE_af	(Optional)
<i>af-afi</i>	(Optional)
TABLE_saf	(Optional)
<i>af-safi</i>	(Optional)
<i>af-advertised</i>	(Optional)
<i>af-recvd</i>	(Optional)
<i>af-name</i>	(Optional)
<i>capgradvertised</i>	(Optional)
<i>capgrrecvd</i>	(Optional)
TABLE_graf	(Optional)
<i>gr-afi</i>	(Optional)
TABLE_grsaf	(Optional)
<i>gr-safi</i>	(Optional)

<i>gr-af-name</i>	(Optional)
<i>gr-adv</i>	(Optional)
<i>gr-recv</i>	(Optional)
<i>gr-fwd</i>	(Optional)
<i>grrestarttime</i>	(Optional)
<i>grstaletime</i>	(Optional)
<i>grrecvdrestarttime</i>	(Optional)
TABLE_addpathscapaf	(Optional)
<i>addpathscap-afi</i>	(Optional)
TABLE_addpathscapsaf	(Optional)
<i>addpathscap-safi</i>	(Optional)
<i>addpathscap-af-name</i>	(Optional)
<i>addpathssendcap-adv</i>	(Optional)
<i>addpathsrecvcap-adv</i>	(Optional)
<i>addpathssendcap-recv</i>	(Optional)
<i>addpathsrecvcap-recv</i>	(Optional)
<i>capextendednhadvertised</i>	(Optional)
<i>capextendednhrecvd</i>	(Optional)
TABLE_capextendednhaf	(Optional)
<i>capextendednh-afi</i>	(Optional)
TABLE_capextendednhsaf	(Optional)
<i>capextendednh-safi</i>	(Optional)
<i>capextendednh-af-name</i>	(Optional)
TABLE_peraf	(Optional)
<i>per-afi</i>	(Optional)
TABLE_persaf	(Optional)
<i>per-safi</i>	(Optional)
<i>per-af-name</i>	(Optional)
<i>tableversion</i>	(Optional)

<i>neighbortableversion</i>	(Optional)
<i>pxrecv</i>	(Optional)
<i>pxbytes</i>	(Optional)
<i>pxsent</i>	(Optional)
<i>conditionmap</i>	(Optional)
<i>advertisemap</i>	(Optional)
<i>advertisemapstatus</i>	(Optional)
<i>insoftreconfigallowed</i>	(Optional)
<i>insoftreconfigallowedalways</i>	(Optional)
<i>sendcommunity</i>	(Optional)
<i>sendextcommunity</i>	(Optional)
<i>maxpx</i>	(Optional)
<i>maxpx_threshold</i>	(Optional)
<i>localnexthop</i>	(Optional)
TABLE_inpolicy	(Optional)
<i>inpolicynr</i>	(Optional)
<i>inpolicytype</i>	(Optional)
<i>inpolicyname</i>	(Optional)
<i>inpolicyhandle</i>	(Optional)
TABLE_outpolicy	(Optional)
<i>outpolicynr</i>	(Optional)
<i>outpolicytype</i>	(Optional)
<i>outpolicyname</i>	(Optional)
<i>outpolicyhandle</i>	(Optional)
<i>rrconfigured</i>	(Optional)
<i>defaultoriginate</i>	(Optional)
<i>defaultoriginatermap</i>	(Optional)
<i>defaultsent</i>	(Optional)
<i>grpathssaved</i>	(Optional)

<i>grEoRrecvd</i>	(Optional)
<i>grEoRtime</i>	(Optional)
<i>unsuppress-map</i>	(Optional)
<i>thirdpartynexthop</i>	(Optional)
<i>soo</i>	(Optional)
<i>weight</i>	(Optional)
<i>allowasin</i>	(Optional)
<i>asoverride</i>	(Optional)
<i>peerascheckdisabled</i>	(Optional)
<i>vplssignalingprotocol</i>	(Optional)
TABLE_policy_template	(Optional)
<i>preference</i>	(Optional)
<i>inherit-policy-template</i>	(Optional)

Command Mode

- /exec

show bgp neighbors

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast
| multicast } | ipv6 { unicast | multicast } | all } } | vpnv4 unicast | vpnv6 unicast | ipv6 labeled-unicast | ipv4
labeled-unicast | l2vpn evpn } neighbors { <neighbor-id> | <ipv6-neighbor-id> } { routes [ advertised | received
| dampened ] | advertised-routes | received-routes } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi
<safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [
<on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <export-on-newlist>
<export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { { <status>
<best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel>
<vpn> <hold_down> } | { <localpref> <weight> <aspath> <origin> [ <metric> ] } } } | { <policyincomplete>
<pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric>
{ <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator>
<aggregatoras> ] [ <inlabel> ] [ <originflag> ] [ { TABLE_community <community> } ] [ {
TABLE_extcommunity <extcommunity> } ] [ <originatorid> { TABLE_clusterlist <clusterlist> } ] [
<flappenalty> <dampenedtime> <flaps> <flaptime> <flapflags> <flapindex> <flaphalflife> <flapreuse>
<flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len>
<psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origsrgrb_len>
<psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [
<mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ]
]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
neighbors	Display all configured BGP neighbors
<i>neighbor-id</i>	Display one particular BGP neighbor
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
labeled-unicast	Display BGP information for labeled-unicast address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family

multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
routes	Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
advertised-routes	Display all the routes advertised to this peer
received-routes	Display all the routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)

<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)

<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)

<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)

<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

Command Mode

- /exec

show bgp neighbors commands

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast
| multicast } | ipv6 { unicast | multicast } | all } } | vpnv4 unicast | vpnv6 unicast | l2vpn evpn } neighbors {
<neighbor-id> | <ipv6-neighbor-id> } commands [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ [ { TABLE_sesscmd <sessioncmd> <sessioncmdstatus>
[ <sessioncmdtemplate> ] } ] [ TABLE_af <af-afi> TABLE_saf <af-safi> <af-name> [ { TABLE_polcmd
<polycycmd> <polycycmdstatus> [ <polycycmdtemplate> ] } ] ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>neighbor-id</i>	Display one particular BGP neighbor
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
neighbors	Display all configured BGP neighbors
commands	Display details on commands
<i>__readonly__</i>	(Optional)
<i>TABLE_sesscmd</i>	(Optional)
<i>sessioncmd</i>	(Optional)
<i>sessioncmdstatus</i>	(Optional)
<i>sessioncmdtemplate</i>	(Optional)

TABLE_af	(Optional)
<i>af-afi</i>	(Optional)
TABLE_saf	(Optional)
<i>af-safi</i>	(Optional)
<i>af-name</i>	(Optional)
TABLE_polcmd	(Optional)
<i>polycmd</i>	(Optional)
<i>polycmdstatus</i>	(Optional)
<i>polycmdtemplate</i>	(Optional)

Command Mode

- /exec

show bgp neighbors flap-statistics

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | all } neighbors { <neighbor-id> | <ipv6-neighbor-id> } flap-statistics
[ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [
<rd_vniid> ] ] [ <dampeningenabled> <historypaths> <dampenedpaths> ] [ TABLE_prefix { <ipprefix> |
<ipv6prefix> | <nonipprefix> } [ <status> ] [ <pathtype> ] [ <peer> | <ipv6peer> ] [ <flapcount> ] [ <duration>
] [ <reuse> ] [ <penalty> ] [ <suppresslimit> ] [ <reuselimit> ] [ <best> ] ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
neighbors	Display all configured BGP neighbors
<i>neighbor-id</i>	Display one particular BGP neighbor
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
flap-statistics	Display flap statistics for routes received from this peer
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
TABLE_rd	(Optional)

<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
<i>dampeningenabled</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>status</i>	(Optional)
<i>best</i>	(Optional)
<i>pathtype</i>	(Optional)
<i>peer</i>	(Optional)
<i>flapcount</i>	(Optional)
<i>duration</i>	(Optional)
<i>reuse</i>	(Optional)
<i>penalty</i>	(Optional)
<i>suppresslimit</i>	(Optional)
<i>reuselimit</i>	(Optional)

Command Mode

- /exec

show bgp neighbors paths

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] } { ipv4 { unicast
| multicast } | ipv6 { unicast | multicast } | all } } | vpnv4 unicast | vpnv6 unicast | ipv6 labeled-unicast | ipv4
labeled-unicast | link-state | l2vpn evpn } neighbors { <neighbor-id> | <ipv6-neighbor-id> } paths [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ TABLE_id <id> <hashvalue> <refcount>
<metric> <aspath> ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
neighbors	Display all configured BGP neighbors
<i>neighbor-id</i>	Display one particular BGP neighbor
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family
all	Display BGP information for all address families
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
paths	Display AS paths learned from this peer
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)

TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
TABLE_id	(Optional)
<i>id</i>	(Optional)
<i>hashvalue</i>	(Optional)
<i>refcount</i>	(Optional)
<i>metric</i>	(Optional)
<i>aspath</i>	(Optional)

Command Mode

- /exec

show bgp paths

```
show [ ip ] bgp paths [ __readonly__ TABLE_id <id> <hashvalue> <refcount> <metric> <aspath> <origin> ]
```

Syntax Description

show	Show running system information
ip	(Optional) Display IP information
bgp	Display BGP status and configuration
paths	Display Path information
__readonly__	(Optional)
TABLE_id	(Optional)
<i>id</i>	(Optional)
<i>hashvalue</i>	(Optional)
<i>refcount</i>	(Optional)
<i>metric</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)

Command Mode

- /exec

show bgp peer-template

```
show [ ip ] bgp peer-template [ <peer-template-name> ] [ __readonly__ { TABLE_neighbor <templatepeer>
[ <remoteas> ] [ <inherit-template> ] [ <inherit-session-template> ] [ { <prefix-parent> | <ipv6prefix-parent>
} ] [ <description> ] [ <sourceif> ] [ <connectedcheck> ] [ <lowmemexempt> ] [ <bfd> ] [ <ttlsecurity> ] [
<ttllimit> ] [ <password> ] [ <passiveonly> ] <localas-inactive> [ <remove-privateas> ] [ <configholdtime>
<configkeepalivetime> ] [ TABLE_peraf <per-afi> TABLE_persaf <per-safi> <per-af-name> [ <tableversion>
] [ <neighbortableversion> ] [ <pfxrcvd> ] [ <pfxbytes> ] [ <pfxsent> ] [ <conditionmap> <advertisemap>
<advertisemapstatus> ] <insoftreconfigallowed> [ <insoftreconfigallowedalways> ] [ <sendcommunity> ] [
<sendextcommunity> ] [ { <localnexthop> | <ipv6localnexthop> } ] [ <thirdpartynexthop> ] [ <maxpfx> ] [
<maxpfx_threshold> ] [ <soo> ] [ <weight> ] [ <allowasin> ] <asoverride> <peerascheckdisabled> [
<vplssignalingprotocol> ] [ { TABLE_inpolicy <inpolicynr> <inpolicytype> <inpolicyname> [
<inpolicyhandle> ] } ] [ { TABLE_outpolicy <outpolicynr> <outpolicytype> <outpolicyname> [
<outpolicyhandle> ] } ] [ <rrconfigured> ] [ <defaultoriginate> ] [ <defaultoriginatemap> ] [ <defaultsent>
] [ <grpathssaved> ] [ <grEoRrcvd> ] [ <grEoRtime> ] [ <unsuppress-map> ] [ { TABLE_policy_template
<preference> <inherit-policy-template> } ] ] [ TABLE_vrf <vrf-name> [ TABLE_inheritingpeer
<inheritingpeer> ] } ] }
```

Syntax Description

show	Show running system information
ip	(Optional) Display IP information
bgp	Display BGP status and configuration
peer-template	Display information about a peer-template
<i>peer-template-name</i>	(Optional) Peer-template name
<i>__readonly__</i>	(Optional)
TABLE_neighbor	(Optional)
<i>templatepeer</i>	(Optional)
<i>remoteas</i>	(Optional)
<i>inherit-template</i>	(Optional)
<i>inherit-session-template</i>	(Optional)
<i>prefix-parent</i>	(Optional)
<i>description</i>	(Optional)
<i>sourceif</i>	(Optional)
<i>connectedcheck</i>	(Optional)
<i>lowmemexempt</i>	(Optional)
<i>bfd</i>	(Optional)

<i>ttlsecurity</i>	(Optional)
<i>tllimit</i>	(Optional)
<i>passiveonly</i>	(Optional)
<i>password</i>	(Optional)
<i>localas-inactive</i>	(Optional)
<i>remove-privateas</i>	(Optional)
<i>configholdtime</i>	(Optional)
<i>configkeepalivetime</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_inheritingpeer	(Optional)
<i>inheritingpeer</i>	(Optional)
TABLE_peraf	(Optional)
<i>per-afi</i>	(Optional)
TABLE_persaf	(Optional)
<i>per-safi</i>	(Optional)
<i>per-af-name</i>	(Optional)
<i>tableversion</i>	(Optional)
<i>neighbortableversion</i>	(Optional)
<i>pxrecvd</i>	(Optional)
<i>pxbytes</i>	(Optional)
<i>pxsent</i>	(Optional)
<i>conditionmap</i>	(Optional)
<i>advertisemap</i>	(Optional)
<i>advertisemapstatus</i>	(Optional)
<i>insoftreconfigallowed</i>	(Optional)
<i>insoftreconfigallowedalways</i>	(Optional)
<i>sendcommunity</i>	(Optional)
<i>sendextcommunity</i>	(Optional)

<i>maxpfx</i>	(Optional)
<i>maxpfx_threshold</i>	(Optional)
<i>localnexthop</i>	(Optional)
TABLE_inpolicy	(Optional)
<i>inpolicynr</i>	(Optional)
<i>inpolicytype</i>	(Optional)
<i>inpolicyname</i>	(Optional)
<i>inpolicyhandle</i>	(Optional)
TABLE_outpolicy	(Optional)
<i>outpolicynr</i>	(Optional)
<i>outpolicytype</i>	(Optional)
<i>outpolicyname</i>	(Optional)
<i>outpolicyhandle</i>	(Optional)
<i>rrconfigured</i>	(Optional)
<i>defaultoriginate</i>	(Optional)
<i>defaultoriginatemap</i>	(Optional)
<i>defaultsent</i>	(Optional)
<i>grpathssaved</i>	(Optional)
<i>grEoRrecvd</i>	(Optional)
<i>grEoRtime</i>	(Optional)
<i>unsuppress-map</i>	(Optional)
<i>thirdpartynexthop</i>	(Optional)
<i>soo</i>	(Optional)
<i>weight</i>	(Optional)
<i>allowasin</i>	(Optional)
<i>asoverride</i>	(Optional)
<i>peerascheckdisabled</i>	(Optional)
<i>vplssignalingprotocol</i>	(Optional)
TABLE_policy_template	(Optional)

<i>preference</i>	(Optional)
<i>inherit-policy-template</i>	(Optional)

Command Mode

- /exec

show bgp peer

```
show [ ip ] bgp { peer-session [ <session-template-name> ] | peer-policy [ <policy-template-name> ] } [
__readonly__ TABLE_template <template> <present> [ { TABLE_command <command> [ <polarity> ] [
<updatesource> ] [ <description> ] [ <multihop> ] [ <holdtime> ] [ <keepalive> ] [ <routemapin> ] [
<routemapout> ] [ <filterlistin> ] [ <filterlistout> ] [ <prefixlistin> ] [ <prefixlistout> ] [ <maxprefixlimit> ]
[ <defaultorigin> ] } ] [ { TABLE_vrf <vrf-name> { TABLE_peer <inheritingpeer> } } ] ] ]
```

Syntax Description

show	Show running system information
ip	(Optional) Display IP information
bgp	Display BGP status and configuration
peer-session	Display information about a peer-session
peer-policy	Display information about a peer-policy
<i>session-template-name</i>	(Optional) Peer-session name
<i>policy-template-name</i>	(Optional) Peer-policy name
<i>__readonly__</i>	(Optional)
TABLE_template	(Optional)
<i>template</i>	(Optional)
<i>present</i>	(Optional)
TABLE_command	(Optional)
<i>command</i>	(Optional)
<i>polarity</i>	(Optional)
<i>updatesource</i>	(Optional)
<i>description</i>	(Optional)
<i>multihop</i>	(Optional)
<i>holdtime</i>	(Optional)
<i>keepalive</i>	(Optional)
<i>routemapin</i>	(Optional)
<i>routemapout</i>	(Optional)
<i>filterlistin</i>	(Optional)
<i>filterlistout</i>	(Optional)

<i>prefixlistin</i>	(Optional)
<i>prefixlistout</i>	(Optional)
<i>maxprefixlimit</i>	(Optional)
<i>defaultorigin</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_peer	(Optional)
<i>inheritingpeer</i>	(Optional)

Command Mode

- /exec

show bgp prefix-list

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } } prefix-list { <prfxlist-name> | <test_pol_name> } [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out>
TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [
<rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion>
<totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [
<export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop>
} } { <inlabel> <outlabel> <vpn> <hold_down> } | { <localpref> <weight> <aspath> <origin> [ <metric> ]
} } } | { { <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrnh> } [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> ] [ <inlabel> ] [ <originflag> ] [ {
TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [ <originatorid> {
TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime> <flapflags>
<flapindex> <flaphalflife> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd>
<con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid>
] [ <psid_origrsgb_len> <psid_origrsgb_flag> <psid_origrsgb_base> <psid_origrsgb_end> ] ] [ <remotenh>
<remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [ <link-state-attr>
<link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto
<scheduledto> ] ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
prefix-list	Display routes matching the prefix-list
<i>prfxlist-name</i>	Name of prefix-list
<i>test_pol_name</i>	An existing test-list policy
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
__readonly__	(Optional)
TABLE_vrf	(Optional)

<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>export-on-newlist</i>	(Optional)

<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)

<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)

TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>psid</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

Command Mode

- /exec

show bgp private

```
show bgp private [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { all_private
| session | ipc | rnh | lists | rpm-info [ route-map <rpm-name> { <ip-prefix> | <ipv6-prefix> } ] | attr [ {
<ip-prefix> } ] | rpm-attribute-cache | rpm-comm-attr-cache | virtual [ summary ] } [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
private	Show BGP information intended for developer eyes only
all_private	Show all info
session	Show session info
lists	Show BGP internal lists
route-map	(Optional) Show information for route-map
rpm-info	Show BGP policy outbound info
<i>ip-prefix</i>	(Optional) Show attribute for a prefix
<i>rpm-name</i>	(Optional) Route-map name
attr	Show attribute information
ipc	Show ipc information
rnh	Show recursive next hops
rpm-attribute-cache	Show rpm attribute cache statistics
rpm-comm-attr-cache	Show rpm community attribute cache statistics
summary	(Optional) Summary only
virtual	Virtualization related
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show bgp private attr

```
show bgp private attr [ remote-nh ] [ [ [ ipv4 { unicast | multicast } <ip-prefix> ] | [ ipv6 { unicast | multicast } <ipv6-prefix> ] ] [ detail ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
private	Show BGP information intended for developer eyes only
attr	Show BGP attributes
remote-nh	(Optional) Show Remote NH Attr
ipv4	(Optional) Display BGP information for IPv4 address family
ipv6	(Optional) Display BGP information for IPv6 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
detail	(Optional) Show detailed info
<i>ip-prefix</i>	(Optional) Show attribute for a prefix

Command Mode

- /exec

show bgp private damp

```
show bgp private [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 {
unicast | multicast } | ipv6 { unicast | multicast } | all } damp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
private	Show BGP information intended for developer eyes only
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
damp	Show dampening info

Command Mode

- /exec

show bgp private debug history

show bgp private debug history { all | ead-es | es | mac }

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
private	Show BGP information intended for developer eyes only
debug	Debug
history	history
all	all
ead-es	ead-es
es	es
mac	mac

Command Mode

- /exec

show bgp process

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] process [ detail ] [
vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ [ <processid>
<protocolstartedreason> <protocoltag> <protocolstate> [ <isolatemode> ] <mmode> <memorystate> [
<mallocmemorystate> ] [ <platformmemorystate> ] [ <lowmemorytimer> ] [ <issu> ] <forwardingstatesaved>
<asformat> [ <fabricsoo> ] [ <srgbmin> <srgbmax> ] [ <epeconfiguredpeers> <epeactivepeers> ]
<attributeentries> <hwmattributeentries> <bytesused> <entriespendingdelete> <hwmentriespendingdelete>
<pathsperattribute> <aspathentries> <aspathbytes> ] TABLE_vrf <vrf-name-out> [ <vrf-id> ] [ <vrf-state>
] [ <vrf-state-rsn> ] [ <vrf-delete-pending> ] [ <vrf-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-encap-type> ] [
<vrf-vtep-ip> ] [ <vrf-vtep-virtual-ip> ] [ <vrf-vtep-vipr> ] [ <vrf-router-mac> ] [ <vrf-vip-router-mac> ] [
<vrf-router-id> ] [ <vrf-cfgd-id> ] [ <vrf-local-as> ] [ <vrf-confed-id> ] [ <vrf-cluster-id> ] [
<vrf-reconnect-interval> ] [ <vrf-peers> ] [ <vrf-pending-peers> ] [ <vrf-est-peers> ] [ <vrf-cfgd-max-as-limit>
] [ <vrf-max-as-limit> ] [ <vrf-rd> ] [ <vrf-pending-rd> ] { TABLE_af <af-id> [ <af-name> ] [ <af-table-id>
] [ <af-state> ] [ <af-state-rsn> ] [ <af-num-peers> ] [ <af-num-active-peers> ] [ <af-peer-routes> ] [
<af-peer-paths> ] [ <af-peer-networks> ] [ <af-peer-aggregates> ] [ <af-export-rmap> ] [ <af-import-rmap>
] [ <af-retain-rt> ] [ { TABLE_redist <protocol> <route-map> } ] [ { TABLE_add_paths_selection <route-map>
} ] [ TABLE_export_rt <export-rt> ] [ TABLE_import_rt <import-rt> ] [ TABLE_evpn_export_rt
<evpn-export-rt> ] [ TABLE_evpn_import_rt <evpn-import-rt> ] [ <af-label-mode> ] [ <af-aggregate-label>
] [ <importdefault_prefixlimit> <importdefault_prefixcount> <importdefault_map> ] [
<exportdefault_prefixlimit> <exportdefault_prefixcount> <exportdefault_map> ] <af-rr>
<default-information-enabled> [ <default-information-rd> <default-information-rt> ]
<nexthop-trigger-delay-critical> <nexthop-trigger-delay-non-critical> [ <nexthop-route-map> ] }
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
process	BGP global information
detail	(Optional) Detailed information
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional) Read Only
<i>processid</i>	(Optional)
<i>protocolstartedreason</i>	(Optional)
<i>protocoltag</i>	(Optional)
<i>protocolstate</i>	(Optional)
<i>isolatemode</i>	(Optional)
<i>mmode</i>	(Optional)

<i>memorystate</i>	(Optional)
<i>mallocmemorystate</i>	(Optional)
<i>platformmemorystate</i>	(Optional)
<i>lowmemorytimer</i>	(Optional)
<i>issu</i>	(Optional)
<i>forwardingstatesaved</i>	(Optional)
<i>asformat</i>	(Optional)
<i>attributeentries</i>	(Optional)
<i>fabricsoo</i>	(Optional)
<i>srgbmin</i>	(Optional)
<i>srgbmax</i>	(Optional)
<i>epeconfiguredpeers</i>	(Optional)
<i>epeactivepeers</i>	(Optional)
<i>hwmattributeentries</i>	(Optional)
<i>bytesused</i>	(Optional)
<i>entriespendingdelete</i>	(Optional)
<i>hwmentriespendingdelete</i>	(Optional)
<i>pathsperattribute</i>	(Optional)
<i>aspathentries</i>	(Optional)
<i>aspathbytes</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional) VRF name
<i>vrf-id</i>	(Optional) VRF ID
<i>vrf-state</i>	(Optional) VRF State
<i>vrf-state-rsn</i>	(Optional) VRF State Reason
<i>vrf-delete-pending</i>	(Optional) VRF delete pending
<i>vrf-vni-id</i>	(Optional) VRF VNI ID
<i>vrf-vni-id-valid</i>	(Optional) VRF VNI ID validity
<i>vrf-encap-type</i>	(Optional) VRF encapsulation type

<i>vrf-vtep-ip</i>	(Optional) VRF VTEP IP
<i>vrf-vtep-virtual-ip</i>	(Optional) VRF VTEP Virtual IP
<i>vrf-vtep-vipr</i>	(Optional) VRF VTEP Virtual IP for Re-origination
<i>vrf-router-mac</i>	(Optional) VRF Router MAC
<i>vrf-vip-router-mac</i>	(Optional) VRF VIP Router MAC
<i>vrf-router-id</i>	(Optional) Router ID
<i>vrf-cfgd-id</i>	(Optional) Configured Router-ID
<i>vrf-local-as</i>	(Optional) Local AS
<i>vrf-confed-id</i>	(Optional) Cluster-ID
<i>vrf-cluster-id</i>	(Optional) Cluster-ID
<i>vrf-reconnect-interval</i>	(Optional) VRF reconnect interval
<i>vrf-peers</i>	(Optional) No. of configured peers
<i>vrf-pending-peers</i>	(Optional) No. of pending peers
<i>vrf-est-peers</i>	(Optional) No. of established peers
<i>vrf-cfgd-max-as-limit</i>	(Optional) Configured maxas-limit
<i>vrf-max-as-limit</i>	(Optional) Active maxas-limit
<i>vrf-rd</i>	(Optional) VRF RD
<i>vrf-pending-rd</i>	(Optional) VRF pending RD
TABLE_af	(Optional)
<i>af-id</i>	(Optional) AF ID
<i>af-table-id</i>	(Optional) AF table
<i>af-name</i>	(Optional) AF table name
<i>af-state</i>	(Optional) AF table state
<i>af-state-rsn</i>	(Optional) AF table state reason
<i>af-num-peers</i>	(Optional) No. of peers
<i>af-num-active-peers</i>	(Optional) No. of active peers
<i>af-peer-routes</i>	(Optional) No. of peer routes
<i>af-peer-paths</i>	(Optional) No. of peer paths
<i>af-peer-networks</i>	(Optional) No. of peer networks

<i>af-peer-aggregates</i>	(Optional) No. of aggregates
<i>af-export-rmap</i>	(Optional) Export route-map
<i>af-import-rmap</i>	(Optional) Import route-map
<i>af-retain-rt</i>	(Optional) Retain RT
TABLE_redist	(Optional)
<i>protocol</i>	(Optional) Protocol
<i>route-map</i>	(Optional) Route Map
TABLE_add_paths_selection	(Optional)
<i>route-map</i>	(Optional) Route Map
TABLE_export_rt	(Optional)
<i>export-rt</i>	(Optional) Export route target
TABLE_import_rt	(Optional)
<i>import-rt</i>	(Optional) Import route target
TABLE_evpn_export_rt	(Optional)
<i>evpn-export-rt</i>	(Optional) Export EVPN route target
TABLE_evpn_import_rt	(Optional)
<i>evpn-import-rt</i>	(Optional) Import EVPN route target
<i>af-label-mode</i>	(Optional) Label allocation mode
<i>af-aggregate-label</i>	(Optional) Aggregate Label
<i>importdefault_prefixlimit</i>	(Optional) Maximum number of prefixes allowed
<i>importdefault_prefixcount</i>	(Optional) Current number of prefixes
<i>importdefault_map</i>	(Optional) Configured route-map
<i>exportdefault_prefixlimit</i>	(Optional) Maximum number of prefixes allowed
<i>exportdefault_prefixcount</i>	(Optional) Current number of prefixes
<i>exportdefault_map</i>	(Optional) Configured route-map
<i>af-rr</i>	(Optional) Is a Route-reflector
<i>default-information-enabled</i>	(Optional) Default-information originate is enabled
<i>default-information-rd</i>	(Optional) Default-information originate RD
<i>default-information-rt</i>	(Optional) Default-information originate RT

<i>nexthop-trigger-delay-critical</i>	(Optional)
<i>nexthop-trigger-delay-non-critical</i>	(Optional)
<i>nexthop-route-map</i>	(Optional)

Command Mode

- /exec

show bgp received-paths

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } received-paths
[ private ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf<vrf-name-out> TABLE_afi<afi> TABLE_safi<safi> <af-name> [ <table-version> <router-id>
] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> |
<nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed>
<needsresync> <locked> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ]
[ <mpath> ] ] { TABLE_path<pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> {
<ipnexthop> | <ipv6nexthop> } } { <inlabel> <outlabel> <vpn> <hold_down> } | { <localpref> <weight>
<aspath> <origin> [ <metric> ] } } } | { <policyincomplete> <pathvalid> <pathbest> <pathdeleted>
<pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <existpath> ] [
<aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> }
<neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras> ] [ <inlabel> ] [
<originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [
<originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime>
<flapflags> <flapindex> <flaphalflife> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len>
<con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len>
<psid_v6sid> ] [ <psid_origsrgrb_len> <psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ]
[ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [
<link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [
TABLE_scheduledto <scheduledto> ] ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
received-paths	Display paths stored for soft-reconfig
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family

show bgp received-paths

vpn4	Display BGP information for VPNv4 address family
vpn6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
labeled-unicast	Display BGP information for labeled-unicast address family
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
mvpn	Display BGP information for MVPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
private	(Optional) private
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
TABLE_afi	(Optional)
afi	(Optional)
TABLE_safi	(Optional)
safi	(Optional)
af-name	(Optional)
table-version	(Optional)
router-id	(Optional)
TABLE_rd	(Optional)
rd_val	(Optional)
rd_vrf	(Optional)
rd_vniid	(Optional)
TABLE_prefix	(Optional)
ipprefix	(Optional)

<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_ <i>advertisedto</i>	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_ <i>scheduledto</i>	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_ <i>path</i>	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)

<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)

<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)

<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

Command Mode

- /exec

show bgp regexp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | all } regexp <regexp-str> [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi>
TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [
<rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths>
<bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <export-on-newlist>
<export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { { <status>
<best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel>
<vpn> <hold_down> } | { <localpref> <weight> <aspath> <origin> [ <metric> ] } } } | [ <policyincomplete>
<pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric>
{ <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator>
<aggregatoras> ] [ <inlabel> ] [ <originflag> ] [ { TABLE_community <community> } ] [ {
TABLE_extcommunity <extcommunity> } ] [ <originatorid> { TABLE_clusterlist <clusterlist> } ] [
<flappenalty> <dampenedtime> <flaps> <flaptime> <flapflaps> <flapindex> <flaphalflife> <flapreuse>
<flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len>
<psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origsrgrb_len>
<psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [
<mdt_grp_addr> } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ]
]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
regexp	Display routes matching the AS path regular expression
<i>regexp-str</i>	Regular expression to match the AS paths
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional)

<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>export-on-newlist</i>	(Optional)

<i>export-on-xmitlist</i>	(Optional)
<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)

<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)

TABLE_extcommunity	(Optional)
<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>psid</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

Command Mode

- /exec

show bgp self-originated

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | all } self-originated [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi
<safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [
<on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <export-on-newlist>
<export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { { <status>
<best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel>
<vpn> <hold_down> } | { <localpref> <weight> <aspath> <origin> [ <metric> ] } } } | { <policyincomplete>
<pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric>
{ <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator>
<aggregatoras> ] [ <inlabel> ] [ <originflag> ] [ { TABLE_community <community> } ] [ {
TABLE_extcommunity <extcommunity> } ] [ <originatorid> { TABLE_clusterlist <clusterlist> } ] [
<flappenalty> <dampenedtime> <flaps> <flaptime> <flapflaps> <flapindex> <flaphalflife> <flapreuse>
<flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len>
<psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origsrgrb_len>
<psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmssi> ] [ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [
<mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
self-originated	Self originated routes
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)

TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>nonipprefix</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>bestpathnr</i>	(Optional)
<i>mpath</i>	(Optional)
TABLE_advertisedto	(Optional)
<i>advertisedto</i>	(Optional)
TABLE_scheduledto	(Optional)
<i>scheduledto</i>	(Optional)
<i>prefixversion</i>	(Optional)
<i>on-newlist</i>	(Optional)
<i>on-xmitlist</i>	(Optional)
<i>suppressed</i>	(Optional)
<i>needsresync</i>	(Optional)
<i>locked</i>	(Optional)
<i>export-on-newlist</i>	(Optional)
<i>export-on-xmitlist</i>	(Optional)

<i>locallabel</i>	(Optional)
<i>labelhldwstr</i>	(Optional)
TABLE_path	(Optional)
<i>pathnr</i>	(Optional)
<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>statuscode</i>	(Optional)
<i>bestcode</i>	(Optional)
<i>typecode</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)

<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>originflag</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenalty</i>	(Optional)
<i>dampenedtime</i>	(Optional)
<i>flaps</i>	(Optional)
<i>flaptime</i>	(Optional)
<i>flapflags</i>	(Optional)
<i>flapindex</i>	(Optional)
<i>flaphalflife</i>	(Optional)
<i>flapreuse</i>	(Optional)
<i>flapsuppress</i>	(Optional)
<i>flapmax</i>	(Optional)
<i>con_type</i>	(Optional)
<i>con_len</i>	(Optional)
<i>con_rd</i>	(Optional)
<i>con_ip</i>	(Optional)
<i>mdt_grp_addr</i>	(Optional)
<i>evpn-esi</i>	(Optional)
<i>link-state-attr</i>	(Optional)
<i>link-state-attr-len</i>	(Optional)
TABLE_community	(Optional)
<i>community</i>	(Optional)
TABLE_extcommunity	(Optional)

<i>extcommunity</i>	(Optional)
<i>originatorid</i>	(Optional)
TABLE_clusterlist	(Optional)
<i>clusterlist</i>	(Optional)
<i>remotenh</i>	(Optional)
<i>remotenh_encap</i>	(Optional)
<i>remotenh_vnid</i>	(Optional)
<i>remotenh_mac</i>	(Optional)
<i>pmsi</i>	(Optional)
<i>psid_len</i>	(Optional)
<i>psid_lindx_len</i>	(Optional)
<i>psid_lindx_flag</i>	(Optional)
<i>psid_lindx</i>	(Optional)
<i>psid_v6sid_len</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)
<i>psid_origsrgb_base</i>	(Optional)
<i>psid_origsrgb_end</i>	(Optional)

Command Mode

- /exec

show bgp sessions

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] sessions [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ <totalpeers>
<totalestablishedpeers> <localas> TABLE_vrf <vrf-name-out> <local-as> <vrfpeers> <vrfestablishedpeers>
<router-id> [ TABLE_neighbor <neighbor-id> <connectionsdropped> <remotear> <lastflap> <lastread>
<lastwrite> <state> <localport> <remoteport> <notificationssent> <notificationreceived> ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
sessions	Display session information for all peers
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>local-as</i>	(Optional)
<i>totalpeers</i>	(Optional)
<i>totalestablishedpeers</i>	(Optional)
<i>router-id</i>	(Optional)
<i>localas</i>	(Optional)
<i>vrfpeers</i>	(Optional)
<i>vrfestablishedpeers</i>	(Optional)
TABLE_neighbor	(Optional)
<i>neighbor-id</i>	(Optional)
<i>connectionsdropped</i>	(Optional)
<i>remotear</i>	(Optional)
<i>lastflap</i>	(Optional)
<i>lastread</i>	(Optional)
<i>lastwrite</i>	(Optional)

<i>state</i>	(Optional)
<i>localport</i>	(Optional)
<i>remoteport</i>	(Optional)
<i>notificationssent</i>	(Optional)
<i>notificationsreceived</i>	(Optional)

Command Mode

- /exec

show bgp statistics

```
show bgp statistics [ __readonly__ <msgsent> <msgrcvd> <bytesent> <bytercvd> <opensent> <openrcvd>
<updatesent> <updaterecvd> <kasent> <karecvd> <notifsent> <notifrcvd> <rrefreshsent> <rrefreshrcvd>
<capsent> <caprcvd> ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
statistics	BGP global statistics
<i>__readonly__</i>	(Optional)
<i>msgsent</i>	(Optional)
<i>msgrcvd</i>	(Optional)
<i>bytesent</i>	(Optional)
<i>bytercvd</i>	(Optional)
<i>opensent</i>	(Optional)
<i>openrcvd</i>	(Optional)
<i>updatesent</i>	(Optional)
<i>updaterecvd</i>	(Optional)
<i>kasent</i>	(Optional)
<i>karecvd</i>	(Optional)
<i>notifsent</i>	(Optional)
<i>notifrcvd</i>	(Optional)
<i>rrefreshsent</i>	(Optional)
<i>rrefreshrcvd</i>	(Optional)
<i>capsent</i>	(Optional)
<i>caprcvd</i>	(Optional)

Command Mode

- /exec

<i>vrf-state-rsn</i>	(Optional) VRF State Reason
<i>vrf-delete-pending</i>	(Optional) VRF delete pending
<i>vrf-vni-id</i>	(Optional) VRF VNI ID
<i>vrf-vni-id-valid</i>	(Optional) VRF VNI ID validity
<i>vrf-encap-type</i>	(Optional) VRF encapsulation type
<i>vrf-vtep-ip</i>	(Optional) VRF VTEP IP
<i>vrf-vtep-virtual-ip</i>	(Optional) VRF VTEP Virtual IP
<i>vrf-vtep-vipr</i>	(Optional) VRF VTEP Virtual IP for Re-origination
<i>vrf-router-mac</i>	(Optional) VRF Router MAC
<i>vrf-vip-router-mac</i>	(Optional) VRF VIP Router MAC
<i>vrf-router-id</i>	(Optional) Router ID
<i>vrf-cfgd-id</i>	(Optional) Configured Router-ID
<i>vrf-local-as</i>	(Optional) Local AS
<i>vrf-confed-id</i>	(Optional) Cluster-ID
<i>vrf-cluster-id</i>	(Optional) Cluster-ID
<i>vrf-reconnect-interval</i>	(Optional) VRF reconnect interval
<i>vrf-peers</i>	(Optional) No. of configured peers
<i>vrf-pending-peers</i>	(Optional) No. of pending peers
<i>vrf-est-peers</i>	(Optional) No. of established peers
<i>vrf-cfgd-max-as-limit</i>	(Optional) Configured maxas-limit
<i>vrf-max-as-limit</i>	(Optional) Active maxas-limit
<i>vrf-rd</i>	(Optional) VRF RD
<i>vrf-pending-rd</i>	(Optional) VRF pending RD
TABLE_af	(Optional)
<i>af-id</i>	(Optional) AF ID
<i>af-table-id</i>	(Optional) AF table
<i>af-name</i>	(Optional) AF table name
<i>af-state</i>	(Optional) AF table state
<i>af-state-rsn</i>	(Optional) AF table state reason

<i>af-num-peers</i>	(Optional) No. of peers
<i>af-num-active-peers</i>	(Optional) No. of active peers
<i>af-peer-routes</i>	(Optional) No. of peer routes
<i>af-peer-paths</i>	(Optional) No. of peer paths
<i>af-peer-networks</i>	(Optional) No. of peer networks
<i>af-peer-aggregates</i>	(Optional) No. of aggregates
<i>af-export-rmap</i>	(Optional) Export route-map
<i>af-import-rmap</i>	(Optional) Import route-map
<i>af-retain-rt</i>	(Optional) Retain RT
TABLE_saf	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>tableversion</i>	(Optional)
<i>configuredpeers</i>	(Optional)
<i>capablepeers</i>	(Optional)
<i>totalnetworks</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>memoryused</i>	(Optional)
<i>numberattrs</i>	(Optional)
<i>bytesattrs</i>	(Optional)
<i>numberpaths</i>	(Optional)
<i>bytespaths</i>	(Optional)
<i>numbercommunities</i>	(Optional)
<i>bytescommunities</i>	(Optional)
<i>numberclusterlist</i>	(Optional)
<i>bytesclusterlist</i>	(Optional)
<i>dampening</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)

<i>softreconfigrecvdpaths</i>	(Optional)
<i>softreconfigidenticalpaths</i>	(Optional)
<i>softreconfigcombopath</i>	(Optional)
<i>softreconfigfilteredrecvd</i>	(Optional)
<i>softreconfigbytes</i>	(Optional)
TABLE_neighbor	(Optional)
<i>neighborid</i>	(Optional)
<i>neighborversion</i>	(Optional)
<i>neighboras</i>	(Optional)
<i>msgrecvd</i>	(Optional)
<i>msgsent</i>	(Optional)
<i>neighbortableversion</i>	(Optional)
<i>inq</i>	(Optional)
<i>outq</i>	(Optional)
<i>time</i>	(Optional)
<i>state</i>	(Optional)
<i>prefixreceived</i>	(Optional)

Command Mode

- /exec

show bgp summary

```
show bgp { ipv4 { unicast | multicast } | ipv6 { unicast | multicast } | ipv4 mdt | vpnv4 unicast | vpnv6 unicast
| ipv6 labeled-unicast | link-state | l2vpn vpls | ipv4 mvpn | ipv6 mvpn | l2vpn evpn | ipv4 labeled-unicast | all
} summary [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> [ <vrf-id> ] [ <vrf-state> ] [ <vrf-state-rsn> ] [ <vrf-delete-pending> ] [
<vrf-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-encap-type> ] [ <vrf-vtep-ip> ] [ <vrf-vtep-virtual-ip> ] [
<vrf-vtep-vip> ] [ <vrf-router-mac> ] [ <vrf-vip-router-mac> ] [ <vrf-router-id> ] [ <vrf-cfgd-id> ] [
<vrf-local-as> ] [ <vrf-confed-id> ] [ <vrf-cluster-id> ] [ <vrf-reconnect-interval> ] [ <vrf-peers> ] [
<vrf-pending-peers> ] [ <vrf-est-peers> ] [ <vrf-cfgd-max-as-limit> ] [ <vrf-max-as-limit> ] [ <vrf-rd> ] [
<vrf-pending-rd> ] [ TABLE_af <af-id> [ <af-name> ] [ <af-table-id> ] [ <af-state> ] [ <af-state-rsn> ] [
<af-num-peers> ] [ <af-num-active-peers> ] [ <af-peer-routes> ] [ <af-peer-paths> ] [ <af-peer-networks> ]
[ <af-peer-aggregates> ] [ <af-export-rmap> ] [ <af-import-rmap> ] [ <af-retain-rt> ] TABLE_saf <safi> [
<af-name> ] [ <tableversion> ] [ <configuredpeers> ] [ <capablepeers> ] [ <totalnetworks> ] [ <totalpaths>
] [ <memoryused> ] [ <numberattrs> ] [ <bytesattrs> ] [ <numberpaths> ] [ <bytespaths> ] [
<numbercommunities> ] [ <bytescommunities> ] [ <numberclusterlist> ] [ <bytesclusterlist> ] [ <dampening>
] [ <historypaths> ] [ <dampenedpaths> ] [ <softreconfigrecvdpaths> ] [ <softreconfigidentalpaths> ] [
<softreconfigcombopath> ] [ <softreconfigfilteredrecvd> ] [ <softreconfigbytes> ] [ TABLE_neighbor
<neighborid> [ <neighborversion> ] [ <msgrecvd> ] [ <msgsent> ] [ <neighbortableversion> ] [ <inq> ] [
<outq> ] [ <neighboras> ] [ <time> ] [ <state> ] [ <prefixreceived> ] ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
summary	Display summarized information of BGP state
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
labeled-unicast	Display BGP information for labeled-unicast address family
mdt	Display BGP information for multicast distribution tree
link-state	Display BGP information for link-state address family

<code>l2vpn</code>	Display BGP information for L2VPN address family
<code>vpls</code>	Display BGP information for L2VPN VPLS address family
<code>mvpn</code>	Display BGP information for MVPN address family
<code>evpn</code>	Display BGP information for L2VPN EVPN address family
<code>all</code>	Display BGP information for all address families
<code>__readonly__</code>	(Optional)
<code>TABLE_vrf</code>	(Optional)
<code>vrf-name-out</code>	(Optional) VRF name
<code>vrf-id</code>	(Optional) VRF ID
<code>vrf-state</code>	(Optional) VRF State
<code>vrf-state-rsn</code>	(Optional) VRF State Reason
<code>vrf-delete-pending</code>	(Optional) VRF delete pending
<code>vrf-vni-id</code>	(Optional) VRF VNI ID
<code>vrf-vni-id-valid</code>	(Optional) VRF VNI ID validity
<code>vrf-encap-type</code>	(Optional) VRF encapsulation type
<code>vrf-vtep-ip</code>	(Optional) VRF VTEP IP
<code>vrf-vtep-virtual-ip</code>	(Optional) VRF VTEP Virtual IP
<code>vrf-vtep-vipr</code>	(Optional) VRF VTEP Virtual IP for Re-origination
<code>vrf-router-mac</code>	(Optional) VRF Router MAC
<code>vrf-vip-router-mac</code>	(Optional) VRF VIP Router MAC
<code>vrf-router-id</code>	(Optional) Router ID
<code>vrf-cfgd-id</code>	(Optional) Configured Router-ID
<code>vrf-local-as</code>	(Optional) Local AS
<code>vrf-confed-id</code>	(Optional) Cluster-ID
<code>vrf-cluster-id</code>	(Optional) Cluster-ID
<code>vrf-reconnect-interval</code>	(Optional) VRF reconnect interval
<code>vrf-peers</code>	(Optional) No. of configured peers
<code>vrf-pending-peers</code>	(Optional) No. of pending peers
<code>vrf-est-peers</code>	(Optional) No. of established peers

<i>vrf-cfgd-max-as-limit</i>	(Optional) Configured maxas-limit
<i>vrf-max-as-limit</i>	(Optional) Active maxas-limit
<i>vrf-rd</i>	(Optional) VRF RD
<i>vrf-pending-rd</i>	(Optional) VRF pending RD
TABLE_af	(Optional)
<i>af-id</i>	(Optional) AF ID
<i>af-table-id</i>	(Optional) AF table
<i>af-name</i>	(Optional) AF table name
<i>af-state</i>	(Optional) AF table state
<i>af-state-rsn</i>	(Optional) AF table state reason
<i>af-num-peers</i>	(Optional) No. of peers
<i>af-num-active-peers</i>	(Optional) No. of active peers
<i>af-peer-routes</i>	(Optional) No. of peer routes
<i>af-peer-paths</i>	(Optional) No. of peer paths
<i>af-peer-networks</i>	(Optional) No. of peer networks
<i>af-peer-aggregates</i>	(Optional) No. of aggregates
<i>af-export-rmap</i>	(Optional) Export route-map
<i>af-import-rmap</i>	(Optional) Import route-map
<i>af-retain-rt</i>	(Optional) Retain RT
TABLE_saf	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>tableversion</i>	(Optional)
<i>configuredpeers</i>	(Optional)
<i>capablepeers</i>	(Optional)
<i>totalnetworks</i>	(Optional)
<i>totalpaths</i>	(Optional)
<i>memoryused</i>	(Optional)
<i>numberattrs</i>	(Optional)

<i>bytesattrs</i>	(Optional)
<i>numberpaths</i>	(Optional)
<i>bytespaths</i>	(Optional)
<i>numbercommunities</i>	(Optional)
<i>bytescommunities</i>	(Optional)
<i>numberclusterlist</i>	(Optional)
<i>bytesclusterlist</i>	(Optional)
<i>dampening</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)
<i>softreconfigrecvdpaths</i>	(Optional)
<i>softreconfigidenticalpaths</i>	(Optional)
<i>softreconfigcombopaths</i>	(Optional)
<i>softreconfigfilteredrecvd</i>	(Optional)
<i>softreconfigbytes</i>	(Optional)
TABLE_neighbor	(Optional)
<i>neighborid</i>	(Optional)
<i>neighborversion</i>	(Optional)
<i>neighboras</i>	(Optional)
<i>msgrecvd</i>	(Optional)
<i>msgsent</i>	(Optional)
<i>neighbortableversion</i>	(Optional)
<i>inq</i>	(Optional)
<i>outq</i>	(Optional)
<i>time</i>	(Optional)
<i>state</i>	(Optional)
<i>prefixreceived</i>	(Optional)

Command Mode

- /exec

show boot

```
show boot [ __readonly__ { [ TABLE_bootvar_show <Str1> ] } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
__readonly__	(Optional)
TABLE_bootvar_show	(Optional) Bootvar table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot auto-copy

```
show boot auto-copy [ __readonly__ { [ TABLE_auto_copy <Str1> ] } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
auto-copy	See if autocopy is turned on
__readonly__	(Optional)
TABLE_auto_copy	(Optional) Auto copy table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot auto-copy list

```
show boot auto-copy list [ __readonly__ { [ TABLE_auto_copy_list <Str1> ] } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
auto-copy	See if autcopy is turned on
list	Show the list of files to be auto-copied
__readonly__	(Optional)
TABLE_auto_copy_list	(Optional) Auto copy table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot current

```
show boot current [ __readonly__ { [ TABLE_bootvar_current <Str1> ] } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
current	Show Current Bootvar Variables
__readonly__	(Optional)
TABLE_bootvar_current	(Optional) Bootvar current table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot mode

```
show boot mode [ __readonly__ { [ TABLE_mode <Str1> ] } ]
```

Syntax Description

show	Show boot mode information
boot	Show boot mode
mode	See if lxc boot is turned on
__readonly__	(Optional)
TABLE_mode	(Optional) boot mode table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot module

```
show boot module [ [ <module> ] [ <s0> ] [ __readonly__ { [ TABLE_show_mod <Str1> } ] ] ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
module	Enter module to show config of all modules
<i>module</i>	(Optional) Enter module number to show config
<i>s0</i>	(Optional) Enter module keyword to show config
<i>__readonly__</i>	(Optional)
TABLE_show_mod	(Optional) Show Module table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot order

```
show boot order [ __readonly__ { [ TABLE_bootvar_order <Str1> ] } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
order	Show Boot Order
__readonly__	(Optional)
TABLE_bootvar_order	(Optional) Boot order table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot sup-1

```
show boot sup-1 [ __readonly__ { [ TABLE_show_sup1 <Str1> ] } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
sup-1	Enter sup-1 to show the 1st sup config
__readonly__	(Optional)
TABLE_show_sup1	(Optional) Show Sup-1 bootvar table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot sup-2

```
show boot sup-2 [ __readonly__ { [ TABLE_show_sup2 <Str1> ] } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
sup-2	Enter sup-2 to show the 2nd sup config
__readonly__	(Optional)
TABLE_show_sup2	(Optional) Show Sup-22 bootvar table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot timings

show boot timings

Syntax Description

show	Show running system information
boot	show boot information
timings	show boot timings

Command Mode

- /exec

show boot variables

```
show boot variables [ __readonly__ { [ TABLE_boot_vars <Str1> ] } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
variables	Display the list of boot variables
__readonly__	(Optional)
TABLE_boot_vars	(Optional) Show boot variables table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show bootmode

```
show bootmode [ module <module> ] [ __readonly__ { TABLE_bootmode_info <mod_num> <bootmode> } ]
```

Syntax Description

show	Show running system information
bootmode	show bootmode of the all linecard modules
module	(Optional) show bootmode of a specific linecard module
<i>module</i>	(Optional) please enter module number
__readonly__	(Optional)
TABLE_bootmode_info	(Optional)
<i>mod_num</i>	(Optional)
<i>bootmode</i>	(Optional)

Command Mode

- /exec

show buffers ip

```
show buffers ip [ { [ all <count> ] [ free <count> ] } ]
```

Syntax Description

show	Show running system information
buffers	Display detailed buffer statistics
ip	Display IP buffer information
all	(Optional) Dump buffers from ALL list
free	(Optional) Dump buffers from FREE list
<i>count</i>	(Optional) Number of buffers to dump

Command Mode

- /exec



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show callhome

```
show callhome [ __readonly__ <output_state> <info> <per_name> [ <name> ] <email_info> [ <email_conf>
] <ph_info> [ <ph_conf> ] <str_addr> [ <str_conf> ] <site_id> [ <site_id_conf> ] <cust_id> [ <cus_id_conf>
] <contr_id> [ <contr_id_conf> ] <swi_pri> [ <swi_pri_value> ] <dup_mess> <per_inv> <per_time>
<per_timeofday> <dist> ]
```

Syntax Description

show	Show running system information
callhome	Show callhome information
<i>__readonly__</i>	(Optional)
<i>output_state</i>	(Optional)
<i>info</i>	(Optional)
<i>per_name</i>	(Optional)
<i>name</i>	(Optional)
<i>email_info</i>	(Optional)
<i>email_conf</i>	(Optional)
<i>ph_info</i>	(Optional)
<i>ph_conf</i>	(Optional)
<i>str_addr</i>	(Optional)
<i>str_conf</i>	(Optional)
<i>site_id</i>	(Optional)
<i>site_id_conf</i>	(Optional)
<i>cust_id</i>	(Optional)
<i>cus_id_conf</i>	(Optional)
<i>contr_id</i>	(Optional)
<i>contr_id_conf</i>	(Optional)
<i>swi_pri</i>	(Optional)
<i>swi_pri_value</i>	(Optional)
<i>dup_mess</i>	(Optional)
<i>per_inv</i>	(Optional)

<i>per_time</i>	(Optional)
<i>per_timeofday</i>	(Optional)
<i>dist</i>	(Optional)

Command Mode

- /exec

show callhome destination-profile

```
show callhome destination-profile [ __readonly__ { TABLE_call_info [ <dest_full_info> ] [ <dest_short_info> ] [ <dest_xml_info> ] [ <dest_def_info> ] <max_mess_size> <mess_format> <mess_level> <trans_method> <email_info> [ <email_conf> ] <url_info> [ <url_conf> ] <alert_groups> [ <alert_conf> ] } ]
```

Syntax Description

show	Show running system information
callhome	Show callhome information
destination-profile	Show callhome destination profile information
<i>__readonly__</i>	(Optional)
<i>TABLE_call_info</i>	(Optional)
<i>dest_full_info</i>	(Optional)
<i>dest_short_info</i>	(Optional)
<i>dest_xml_info</i>	(Optional)
<i>dest_def_info</i>	(Optional)
<i>max_mess_size</i>	(Optional)
<i>mess_format</i>	(Optional)
<i>mess_level</i>	(Optional)
<i>trans_method</i>	(Optional)
<i>email_info</i>	(Optional)
<i>email_conf</i>	(Optional)
<i>url_info</i>	(Optional)
<i>url_conf</i>	(Optional)
<i>alert_groups</i>	(Optional)
<i>alert_conf</i>	(Optional)

Command Mode

- /exec

show callhome destination-profile profile

```
show callhome destination-profile profile <s0> [ __readonly__ <user_txt_info> <max_mess_size>
<mess_format> <mess_level> <trans_method> <email_info> [ TABLE_email [ <email_conf> ] ] <url_info>
[ TABLE_url [ <url_conf> ] ] <alert_groups> [ TABLE_alert [ <alert_conf> ] ] ]
```

Syntax Description

show	Show running system information
callhome	Show callhome information
destination-profile	Show callhome destination profile information
profile	Specify the destination profile
<i>s0</i>	Show information for user defined destination profile
<i>__readonly__</i>	(Optional)
<i>user_txt_info</i>	(Optional)
<i>max_mess_size</i>	(Optional)
<i>mess_format</i>	(Optional)
<i>mess_level</i>	(Optional)
<i>trans_method</i>	(Optional)
<i>email_info</i>	(Optional)
TABLE_email	(Optional)
<i>email_conf</i>	(Optional)
<i>url_info</i>	(Optional)
TABLE_url	(Optional)
<i>url_conf</i>	(Optional)
<i>alert_groups</i>	(Optional)
TABLE_alert	(Optional)
<i>alert_conf</i>	(Optional)

Command Mode

- /exec

show callhome destination-profile profile CiscoTAC-1

```
show callhome destination-profile profile CiscoTAC-1 [ __readonly__ <tac_xml_info> <max_mess_size>
<mess_level> <trans_method> <email_info> [ <email_conf> ] <url_info> [ <url_conf> ] <alert_groups> [
<alert_conf> ] ]
```

Syntax Description

show	Show running system information
callhome	Show callhome information
destination-profile	Show callhome destination profile information
profile	Specify the destination profile
CiscoTAC-1	Show information for CiscoTAC-1 destination profile
<i>__readonly__</i>	(Optional)
<i>tac_xml_info</i>	(Optional)
<i>max_mess_size</i>	(Optional)
<i>mess_level</i>	(Optional)
<i>trans_method</i>	(Optional)
<i>email_info</i>	(Optional)
<i>email_conf</i>	(Optional)
<i>url_info</i>	(Optional)
<i>url_conf</i>	(Optional)
<i>alert_groups</i>	(Optional)
<i>alert_conf</i>	(Optional)

Command Mode

- /exec

show callhome destination-profile profile full-txt-destination

```
show callhome destination-profile profile full-txt-destination [ __readonly__ <full_txt_info> <max_mess_size>
<mess_level> <trans_method> <email_info> [ <email_conf> ] <url_info> [ <url_conf> ] <alert_groups> [
<alert_conf> ] ]
```

Syntax Description

show	Show running system information
callhome	Show callhome information
destination-profile	Show callhome destination profile information
profile	Specify the destination profile
full-txt-destination	Show information for full-txt-destination destination profile
<i>__readonly__</i>	(Optional)
<i>full_txt_info</i>	(Optional)
<i>max_mess_size</i>	(Optional)
<i>mess_level</i>	(Optional)
<i>trans_method</i>	(Optional)
<i>email_info</i>	(Optional)
<i>email_conf</i>	(Optional)
<i>url_info</i>	(Optional)
<i>url_conf</i>	(Optional)
<i>alert_groups</i>	(Optional)
<i>alert_conf</i>	(Optional)

Command Mode

- /exec

show callhome destination-profile profile short-txt-destination

```
show callhome destination-profile profile short-txt-destination [ __readonly__ <shrt_txt_info>
<max_mess_size> <mess_level> <trans_method> <email_info> [ <email_conf> ] <url_info> [ <url_conf> ]
<alert_groups> [ <alert_conf> ] ]
```

Syntax Description

show	Show running system information
callhome	Show callhome information
destination-profile	Show callhome destination profile information
profile	Specify the destination profile
short-txt-destination	Show information for short-txt-destination destination profile
<i>__readonly__</i>	(Optional)
<i>shrt_txt_info</i>	(Optional)
<i>max_mess_size</i>	(Optional)
<i>mess_level</i>	(Optional)
<i>trans_method</i>	(Optional)
<i>email_info</i>	(Optional)
<i>email_conf</i>	(Optional)
<i>url_info</i>	(Optional)
<i>url_conf</i>	(Optional)
<i>alert_groups</i>	(Optional)
<i>alert_conf</i>	(Optional)

Command Mode

- /exec

show callhome transport-email

```
show callhome transport-email [ __readonly__ { <from_email> } [ <reply_to_email> ] [ <return_receipt_addr> ] { <smtp_server> } [ <smtp_server_port> ] ]
```

Syntax Description

<code>__readonly__</code>	(Optional)
<code>show</code>	Show running system information
<code>callhome</code>	Show callhome information
<code>transport-email</code>	Show callhome email transport configuration
<i>from_email</i>	(Optional)
<i>reply_to_email</i>	(Optional)
<i>return_receipt_addr</i>	(Optional)
<i>smtp_server</i>	(Optional)
<i>smtp_server_port</i>	(Optional)

Command Mode

- /exec

show callhome transport

```
show callhome transport [ __readonly__ <vrf> <from_email> [ <rep_email> ] [ <ret_email> ] [ <smtp_ser>
] [ <smtp_ser_port> ] [ <smtp_ser_vrf> ] [ <smtp_ser_prior> ] [ <smtp_ser_do> ] [ <smtp_ser_port_do> ] [
<smtp_ser_vrf_do> ] [ <smtp_ser_prior_do> ] [ <smtp_ser_got> ] [ <smtp_ser_port_got> ] [
<smtp_ser_vrf_got> ] [ <smtp_ser_prior_got> ] <http_prox> <http_port> <http_state> ]
```

Syntax Description

show	Show running system information
callhome	Show callhome information
transport	Show callhome transport configuration (email and http)
<i>__readonly__</i>	(Optional)
<i>vrf</i>	(Optional)
<i>from_email</i>	(Optional)
<i>rep_email</i>	(Optional)
<i>ret_email</i>	(Optional)
<i>smtp_ser</i>	(Optional)
<i>smtp_ser_port</i>	(Optional)
<i>smtp_ser_vrf</i>	(Optional)
<i>smtp_ser_prior</i>	(Optional)
<i>smtp_ser_do</i>	(Optional)
<i>smtp_ser_port_do</i>	(Optional)
<i>smtp_ser_vrf_do</i>	(Optional)
<i>smtp_ser_prior_do</i>	(Optional)
<i>smtp_ser_got</i>	(Optional)
<i>smtp_ser_port_got</i>	(Optional)
<i>smtp_ser_vrf_got</i>	(Optional)
<i>smtp_ser_prior_got</i>	(Optional)
<i>http_prox</i>	(Optional)
<i>http_port</i>	(Optional)
<i>http_state</i>	(Optional)

Command Mode

- /exec

show callhome user-def-cmds

show callhome user-def-cmds

Syntax Description

show	Show running system information
callhome	Show callhome information
user-def-cmds	Show the cli commands configured for each alert group

Command Mode

- /exec

show cdp

```
show cdp { entry { all1 | name <s0> } } [ __readonly__ TABLE_cdp_entry_all <device_id> [ <sysname> ]
[ { <v4addr> | <v6addr> } + ] <platform_id> <capability> + <intf_id> <port_id> <ttl> <version> <version_no>
[ <nativevlan> ] [ <vtpname> ] [ <duplexmode> ] [ <syslocation> ] [ { <v4mgmtaddr> | <v6mgmtaddr> } +
]]
```

Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
entry	Show CDP entries in database
all1	Show all CDP entries in database
name	Show a specific CDP entry matching a name
<i>s0</i>	
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_cdp_entry_all</i>	(Optional) output of show cdp entry all
<i>device_id</i>	(Optional) Device Identifier
<i>sysname</i>	(Optional) System Name
<i>v4addr</i>	(Optional) Interface IP V4 Address
<i>v6addr</i>	(Optional) Interface IP V6 Address
<i>platform_id</i>	(Optional) Platform Id
<i>capability</i>	(Optional) Capability
<i>intf_id</i>	(Optional) Interface Id
<i>port_id</i>	(Optional) Port Identifier
<i>ttl</i>	(Optional) Hold Time
<i>version</i>	(Optional) Software Version
<i>version_no</i>	(Optional) CDP version number
<i>nativevlan</i>	(Optional) NativeVLAN
<i>vtpname</i>	(Optional) Vtp Management Domain Name
<i>duplexmode</i>	(Optional) Duplex Mode
<i>syslocation</i>	(Optional) System Location

<i>v4mgmtaddr</i>	(Optional) IP V4 Mgmt Address
<i>v6mgmtaddr</i>	(Optional) IP V6 Mgmt Address

Command Mode

- /exec

show cdp all

```
show cdp { all | interface <if0> } [ __readonly__ TABLE_cdp_all <intf_id> <port_up> [ <cdp_global_enabled> ] <cdp_intf_enabled> [ <oper_mode> ] <refresh_time> <ttl> ]
```

Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
all	Show all interfaces in CDP database
interface	Show CDP parameters for an interface
<i>if0</i>	
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_cdp_all</i>	(Optional) output of show cdp all
<i>intf_id</i>	(Optional) Interface Id
<i>port_up</i>	(Optional) Port status
<i>cdp_global_enabled</i>	(Optional) CDP global status
<i>cdp_intf_enabled</i>	(Optional) CDP interface status
<i>oper_mode</i>	(Optional) CDP operation mode
<i>refresh_time</i>	(Optional) Refresh Time
<i>ttl</i>	(Optional) Hold Time

Command Mode

- /exec

show cdp global

```
show cdp global [ __readonly__ <cdp_global_enabled> <refresh_time> <ttl> <v2_advertisement>
<deviceid_format> ]
```

Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
global	Show CDP global parameters
<i>__readonly__</i>	(Optional) Read only
<i>cdp_global_enabled</i>	(Optional) CDP global status
<i>refresh_time</i>	(Optional) Refresh Time
<i>ttl</i>	(Optional) Hold Time
<i>v2_advertisement</i>	(Optional) Show v2 advertisement
<i>deviceid_format</i>	(Optional) Show deviceId Format

Command Mode

- /exec

show cdp neighbors

```
show cdp neighbors [ interface <if> ] [ __readonly__ { TABLE_cdp_neighbor_brief_info <ifindex>
<device_id> <intf_id> <ttl> <capability> + <platform_id> <port_id> } { <neigh_count> } ]
```

Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
neighbors	Show CDP neighbors
interface	(Optional) Show CDP neighbors on an interface
<i>if</i>	(Optional) Specify Interface
<i>__readonly__</i>	(Optional) Read only
TABLE_cdp_neighbor_brief_info	(Optional) output of show cdp neighbor - in brief
<i>ifindex</i>	(Optional) Interface index
<i>device_id</i>	(Optional) System Name (or) Device Identifier
<i>intf_id</i>	(Optional) Interface Id
<i>port_id</i>	(Optional) Port Identifier
<i>platform_id</i>	(Optional) Platform Id
<i>ttl</i>	(Optional) Hold Time
<i>capability</i>	(Optional) Capability
<i>neigh_count</i>	(Optional) Neighbor Count

Command Mode

- /exec

show cdp neighbors detail

```
show cdp neighbors [ interface <if> ] detail [ __readonly__ TABLE_cdp_neighbor_detail_info <ifindex>
<device_id> [ <sysname> ] [ <vtpname> ] <numaddr> { <v4addr> | <v6addr> } + <platform_id> <capability>
+ <intf_id> <port_id> <ttl> <version> <version_no> [ <nativevlan> ] [ <duplexmode> ] [ <mtu> ] [
<syslocation> ] [ <num_mgmtaddr> { <v4mgmtaddr> | <v6mgmtaddr> } + ] ]
```

Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
neighbors	Show CDP neighbors
detail	Show CDP neighbors detailed
interface	(Optional) Show CDP neighbors on an interface
<i>if</i>	(Optional) Specify Interface
<i>__readonly__</i>	(Optional) Read only
TABLE_cdp_neighbor_detail_info	(Optional) output of show cdp neighbor detail
<i>ifindex</i>	(Optional) Interface index
<i>device_id</i>	(Optional) Device Identifier
<i>sysname</i>	(Optional) System Name
<i>vtpname</i>	(Optional) Vtp Management Domain Name
<i>numaddr</i>	(Optional) No of IP Address configured
<i>v4addr</i>	(Optional) Interface IP V4 Address
<i>v6addr</i>	(Optional) Interface IP V6 Address
<i>platform_id</i>	(Optional) Platform Id
<i>capability</i>	(Optional) Capability
<i>intf_id</i>	(Optional) Interface Id
<i>port_id</i>	(Optional) Port Identifier
<i>ttl</i>	(Optional) Hold Time
<i>version</i>	(Optional) Software Version
<i>version_no</i>	(Optional) CDP version number
<i>nativevlan</i>	(Optional) NativeVLAN

<i>duplexmode</i>	(Optional) Duplex Mode
<i>mtu</i>	(Optional) MTU
<i>syslocation</i>	(Optional) System Location
<i>num_mgmtaddr</i>	(Optional) No of Mgmt Address configured
<i>v4mgmtaddr</i>	(Optional) IP V4 Mgmt Address
<i>v6mgmtaddr</i>	(Optional) IP V6 Mgmt Address

Command Mode

- /exec

show cdp traffic interface2

```
show cdp traffic interface2 <if2> [ __readonly__ <intf_id> <total_input_packets> <valid_cdp_packets>
<input_v1_packets> <input_v2_packets> <invalid_cdp_packets> <unsupported_version> <checksum_errors>
<malformed_packets> <total_output_packets> <output_v1_packets> <output_v2_packets> <send_errors> ]
```

Syntax Description

show	Show running system information
cdp	Show Cisco Discovery Protocol information
traffic	Show CDP traffic statistics
interface2	Show CDP traffic statistics on an interface
<i>if2</i>	
<i>__readonly__</i>	(Optional) Read only
<i>intf_id</i>	(Optional) Interface Id
<i>total_input_packets</i>	(Optional) Total input cdp packets
<i>valid_cdp_packets</i>	(Optional) Total valid cdp packets
<i>input_v1_packets</i>	(Optional) Input vesrion1 packets
<i>input_v2_packets</i>	(Optional) Input vesrion2 packets
<i>invalid_cdp_packets</i>	(Optional) Invalid cdp packets
<i>unsupported_version</i>	(Optional) Packets having unsupported version
<i>checksum_errors</i>	(Optional) Packets having checksum errors
<i>malformed_packets</i>	(Optional) Total malformed packets
<i>total_output_packets</i>	(Optional) Total output packets
<i>output_v1_packets</i>	(Optional) Output vesrion1 packets
<i>output_v2_packets</i>	(Optional) Output vesrion2 packets
<i>send_errors</i>	(Optional) Number of send errors

Command Mode

- /exec

show cfs application

```
show cfs application [ { name <cfs-dyn-app-name> | sap <i0> } ] [ __readonly__ [ { enabled <enabled> } {
timeout <timeout> } { merge_capable <merge_capable> } { scope <scope> } { region <region> } ] [ {
TABLE_apps <app_name> <app_enabled> <app_scope> } ] ]
```

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
application	Show locally registered applications
name	(Optional) Show local application information by name
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
sap	(Optional) Show local application information by sap
<i>i0</i>	(Optional) Registered sap of the local application
<i>__readonly__</i>	(Optional)
enabled	(Optional) whether application is CFS enabled
<i>enabled</i>	(Optional) whether application is CFS enabled
timeout	(Optional) timeout
<i>timeout</i>	(Optional) timeout
merge_capable	(Optional) merge_capable
<i>merge_capable</i>	(Optional) merge_capable
scope	(Optional) scope
<i>scope</i>	(Optional) scope
region	(Optional) region
<i>region</i>	(Optional) region
TABLE_apps	(Optional) all cfs applications
<i>app_name</i>	(Optional) name of cfs application
<i>app_enabled</i>	(Optional) whether application is cfs enabled
<i>app_scope</i>	(Optional) distribution scope of cfs application

Command Mode

- /exec

show cfs lock

```
show cfs lock [ { name <cfs-dyn-app-name> | sap <i1> } ] [ __readonly__ [ { TABLE_locks [ <app_name> ] <app_scope> [ <vsan> ] [ <domain> ] [ <wwn> ] <ip_addr> <u_name> <u_type> [ <hostname> ] } ] ]
```

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
lock	Show state of application's logical/physical locks
name	(Optional) Application name for which the lock status is required
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
sap	(Optional) Application sap for which the lock status is required
<i>i1</i>	(Optional) Application SAP
<code>__readonly__</code>	(Optional)
TABLE_locks	(Optional) table of all CFS locks
<i>app_name</i>	(Optional) name of CFS application
<i>app_scope</i>	(Optional) scope of CFS application
<i>vsan</i>	(Optional) vsan
<i>domain</i>	(Optional) domain
<i>wwn</i>	(Optional) wwn of switch holding CFS lock
<i>ip_addr</i>	(Optional) ip address of switch holding CFS lock
<i>u_name</i>	(Optional) user name
<i>u_type</i>	(Optional) user type
<i>hostname</i>	(Optional) hostname

Command Mode

- /exec

show cfs merge status

```
show cfs merge status [ { name <cfs-dyn-app-name> [ detail ] | sap <i1> [ detail2 ] } ] [ __readonly__ [ {
scope <scope> } ] [ { merge_status <status> } ] [ { failure_reason <reason> } ] [ { TABLE_all_merge
<app_name> <scope> <vsan> <status> } ] [ { TABLE_local_fabric [ <domain> ] <wwn> <ip_addr>
<app_scope> [ <master> ] [ <hostname> ] } ] [ { TABLE_remote_fabric [ <domain> ] <wwn> <ip_addr>
<app_scope> [ <master> ] [ <hostname> ] } ] [ { TABLE_remaining_fabric [ <domain> ] <wwn> <ip_addr>
[ <hostname> ] } ] ] ]
```

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
merge	Show cfs merge information
status	Show status of merge
name	(Optional) Show merge status by name
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
detail	(Optional) Show merge status by name in detail
sap	(Optional) Show merge status by sap
<i>i1</i>	(Optional) Application sap
detail2	(Optional) Show merge status by sap in detail
<u>__readonly__</u>	(Optional)
scope	(Optional) distribution scope of application
<i>scope</i>	(Optional) scope
merge_status	(Optional) status
<i>status</i>	(Optional) status
failure_reason	(Optional) reason
<i>reason</i>	(Optional) reason
TABLE_all_merge	(Optional) all
<i>app_name</i>	(Optional) name
<i>scope</i>	(Optional) scope
<i>vsan</i>	(Optional) vsan
<i>status</i>	(Optional) status

TABLE_local_fabric	(Optional) local fabric
<i>domain</i>	(Optional) domain
<i>wwn</i>	(Optional) wwn
<i>ip_addr</i>	(Optional) ip_addr
<i>app_scope</i>	(Optional) scope
<i>master</i>	(Optional) master
<i>hostname</i>	(Optional) hname
TABLE_remote_fabric	(Optional) remote fabric
<i>domain</i>	(Optional) domain
<i>wwn</i>	(Optional) wwn
<i>ip_addr</i>	(Optional) ip_addr
<i>app_scope</i>	(Optional) scope
<i>master</i>	(Optional) master
<i>hostname</i>	(Optional) hname
TABLE_remaining_fabric	(Optional) remote fabric
<i>domain</i>	(Optional) domain
<i>wwn</i>	(Optional) wwn
<i>ip_addr</i>	(Optional) ip_addr
<i>hostname</i>	(Optional) hname

Command Mode

- /exec

show cfs peers

```
show cfs peers [ { name <cfs-dyn-app-name> | sap <i1> } ] [ __readonly__ [ { scope <scope> } ] ] [ {
TABLE_peers <wwn> <ip_addr> <local> [ <hostname> ] [ <domain> ] } ] ]
```

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
peers	Show all the peers in the physical fabric
name	(Optional) Show peers for given application name
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
sap	(Optional) Show peers for given application sap
<i>i1</i>	(Optional) Application sap
__readonly__	(Optional)
scope	(Optional) scope
<i>scope</i>	(Optional) scope
TABLE_peers	(Optional) all peers
<i>wwn</i>	(Optional) wwn
<i>ip_addr</i>	(Optional) ip_addr
<i>local</i>	(Optional) local
<i>hostname</i>	(Optional) hname
<i>domain</i>	(Optional) domain

Command Mode

- /exec

show cfs regions

```
show cfs regions [ { brief [ region <i0> ] | name <cfs-dyn-app-name> | region1 <i1> } ] [ __readonly__ [ {
region <id> } ] [ { application <name> } ] [ { scope <scope> } ] [ { TABLE_PEERS <wwn> <ip_addr>
<local> [ <hostname> ] [ <domain> } ] ] [ { TABLE_switches [ <wwn> ] [ <ip_addr> ] <region> <app_name>
<enabled> [ <scope> } ] ] ]
```

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
regions	Show all the applications with peers and region information
brief	(Optional) Show all configured regions and applications(no peers)
region	(Optional) Show all configured applications(no peers)
<i>i0</i>	(Optional) Region Id
name	(Optional) Show peers and region information for a given application
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
region1	(Optional) Show all configured applications with peers
<i>i1</i>	(Optional) Region Id
__readonly__	(Optional)
region	(Optional) region
<i>id</i>	(Optional) id
application	(Optional) app
<i>name</i>	(Optional) name
scope	(Optional) scope
<i>scope</i>	(Optional) scope
TABLE_PEERS	(Optional) all region peers
<i>wwn</i>	(Optional) wwn
<i>ip_addr</i>	(Optional) ip_address
<i>local</i>	(Optional) local
<i>hostname</i>	(Optional) hname
<i>domain</i>	(Optional) domain

<i>TABLE_switches</i>	(Optional) all switches in region
<i>wwn</i>	(Optional) wwn
<i>ip_addr</i>	(Optional) ip_addr
<i>region</i>	(Optional) region
<i>app_name</i>	(Optional) name
<i>enabled</i>	(Optional) enabled
<i>scope</i>	(Optional) scope

Command Mode

- /exec

show cfs remote-app vsan domain

show cfs remote-app vsan <i0> domain <i1>

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
remote-app	Show remote cfs registered applications
vsan	Show remote applications given a vsan
<i>i0</i>	VSAN id
domain	Show remote applications
<i>i1</i>	Enter the domain id

Command Mode

- /exec

show cfs remote-switches vsan

```
show cfs remote-switches vsan <i0> [ __readonly__ { local <domain> } [ { TABLE_switches <remote_domain>
<wwn> } ] ]
```

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
remote-switches	Show remote switches on a given vsan
vsan	Show remote switches on a given vsan
<i>i0</i>	VSAN id
<i>__readonly__</i>	(Optional)
local	(Optional) local
<i>domain</i>	(Optional) domain
TABLE_switches	(Optional) all remote switches
<i>remote_domain</i>	(Optional) rdomain
<i>wwn</i>	(Optional) wwn

Command Mode

- /exec

show cfs static peers

show cfs static peers

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
static	Show all static peers with status
peers	Show all configured static peers with status

Command Mode

- /exec

show cfs status

```
show cfs status [ __readonly__ { distribution <distribution> } { distribution_over_ip <dist_over_ip> } {
ipv4_multicast_address <ipv4_mcast_addr> } { ipv6_multicast_address <ipv6_mcast_addr> } {
distribution_over_ethernet <dist_over_eth> } ]
```

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
status	Show current status of CFS
<i>__readonly__</i>	(Optional)
distribution	(Optional) runtime status of CFS distribution
<i>distribution</i>	(Optional) operational status of CFS distribution
distribution_over_ip	(Optional) runtime information of CFS over IP
<i>dist_over_ip</i>	(Optional) operational status of CFS over IP
ipv4_multicast_address	(Optional) ipv4 multicast address
<i>ipv4_mcast_addr</i>	(Optional) ipv4 multicast address
ipv6_multicast_address	(Optional) ipv6 multicast address
<i>ipv6_mcast_addr</i>	(Optional) ipv6 multicast address
distribution_over_ethernet	(Optional) runtime status if CFS over Ethernet
<i>dist_over_eth</i>	(Optional) operations status of CFS over Ethernet

Command Mode

- /exec

show checkpoint

```
show checkpoint [ all ] [ user | system ] [ __readonly__ TABLE_checkpoint_details <name>
<checkpoint_config> + ]
```

Syntax Description

show	Show running system information
checkpoint	Show configuration rollback checkpoints
all	(Optional) Show default config
user	(Optional) Show only user configuration rollback checkpoints
system	(Optional) Show only system configuration rollback checkpoints
__readonly__	(Optional) Read only
TABLE_checkpoint_details	(Optional) checkpoint details
<i>name</i>	(Optional) Checkpoint name
<i>checkpoint_config</i>	(Optional) Configuration entry from checkpoint

Command Mode

- /exec

show checkpoint

```
show checkpoint <chkpoint_name> [ all ] [ __readonly__ TABLE_checkpoint_details <name1>
<checkpoint_config> + ]
```

Syntax Description

show	Show running system information
checkpoint	Show configuration rollback checkpoint contents
<i>chkpoint_name</i>	Checkpoint name
all	(Optional) Show default config
__readonly__	(Optional) Read only
TABLE_checkpoint_details	(Optional) Checkpoint details
<i>name1</i>	(Optional) Checkpoint name
<i>checkpoint_config</i>	(Optional) Configuration entry from checkpoint

Command Mode

- /exec

show checkpoint summary

```
show checkpoint summary [ user | system ] [ __readonly__ TABLE_checkpoint_header_info <name>
<user_name> <timestamp> <file_path> <chkpt_type> <description> ]
```

Syntax Description

show	Show running system information
checkpoint	Show configuration rollback checkpoints
summary	Show configuration rollback checkpoints summary
user	(Optional) Show only user configuration rollback checkpoints summary
system	(Optional) Show only system configuration rollback checkpoints summary
__readonly__	(Optional) Read only
TABLE_checkpoint_header_info	(Optional) Checkpoint header info
<i>user_name</i>	(Optional) Username
<i>name</i>	(Optional) Checkpoint name
<i>file_path</i>	(Optional) Checkpoint name
<i>timestamp</i>	(Optional) Timestamp of checkpoint creation
<i>chkpt_type</i>	(Optional) Type of checkpoint either user or system
<i>description</i>	(Optional) Checkpoint description

Command Mode

- /exec

show class-map

```
show class-map [ { [ type qos ] [ <omap-name> | xxx <color-map-enum-name> ] } | { type queuing [ yyy
<omap-enum-name> | zzz <default-omap-enum-name> | <omap-dce-name> | <omap-name-hque> ] } ] [
__readonly__ { [ <display-all> ] [ TABLE_omap <omap-key> [ <id> ] <xqos-or-q> [ <any_or_all> ]
<omap-name-out> [ <desc> ] [ TABLE_match <match-key> [ <not> ] [ <dscp-list> ] [ <precedence-list> ] [
<cos-list> ] [ <qos-group-list> ] [ <discard-class-list> ] [ <vlan-list> ] [ <match-omap-name> ] [
<match-acl-name> ] [ <note-string> ] [ <pkt-len-list> ] [ <rtp-port-list> ] [ <prot> ] [ <input-iface-list> ] [
<exp-list> ] [ <cl-def> ] ] ] ] }
```

Syntax Description

xxx	(Optional) xxx
yyy	(Optional) yyy
zzz	(Optional) zzz
show	Show running system information
class-map	Show class maps
type	(Optional) Type of the class-map
qos	(Optional) type qos
queuing	(Optional) type queuing
<i>omap-name</i>	(Optional) class map name
<i>omap-enum-name</i>	(Optional)
<i>default-omap-enum-name</i>	(Optional)
<i>omap-dce-name</i>	(Optional) Queuing class-map name
<i>omap-name-hque</i>	(Optional) Hierarchical class-map name
<i>color-map-enum-name</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all kinds of class-maps
TABLE_omap	(Optional) all omap xml sessions
<i>omap-key</i>	(Optional) Class-map name: xml key
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
<i>omap-name-out</i>	(Optional) Class-map name
<i>xqos-or-q</i>	(Optional)

<i>any_or_all</i>	(Optional) Enter match-any or match-all
<i>id</i>	(Optional) Class-map ID
<i>desc</i>	(Optional) Description string
<i>not</i>	(Optional) Negate this match result
<i>dscp-list</i>	(Optional) List of DSCP values
<i>precedence-list</i>	(Optional) List of precedence values
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
<i>discard-class-list</i>	(Optional) List of discard-class values
<i>vlan-list</i>	(Optional) List of vlan-ids
<i>match-cmap-name</i>	(Optional) class-map name
<i>match-acl-name</i>	(Optional) Match class-map name
<i>note-string</i>	(Optional) Placeholder string param to display any info in string format
<i>pkt-len-list</i>	(Optional) Packet length multi-range
<i>rtp-port-list</i>	(Optional) IP RTP UDP port multi-range
<i>prot</i>	(Optional) Protocol
<i>input-iface-list</i>	(Optional) Input Interface multi-range
<i>exp-list</i>	(Optional) List of MPLS exp values
<i>cl-def</i>	(Optional) Match any criteria for class-default only

Command Mode

- /exec

show class-map type control-plane

```
show class-map type control-plane [ <omap-name> ] [ __readonly__ [ { TABLE_omap <omap-key>
<omap-name-out> <opt_any_or_all> [ TABLE_match <match-key> [ access_grp <acc_grp_name> ] [ redirect
<opt_match_redirect> ] [ exception <opt_match_except> ] [ protocol <opt_match_protocol> ] ] } ] ]
```

Syntax Description

show	Show running system information
class-map	Show class maps
type	Type of the class-map
control-plane	This is for copp policy
<i>omap-name</i>	(Optional) Name of the class-map
<i>__readonly__</i>	(Optional)
TABLE_omap	(Optional) all omap xml sessions
<i>omap-name-out</i>	(Optional) Name of the class-map
<i>omap-key</i>	(Optional) Class-map name: xml key
<i>opt_any_or_all</i>	(Optional) Enter match-any or match-all
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
access_grp	(Optional)
<i>acc_grp_name</i>	(Optional)
redirect	(Optional)
<i>opt_match_redirect</i>	(Optional) Match criteria for redirected packets
exception	(Optional)
<i>opt_match_except</i>	(Optional) Match criteria for exception packets
protocol	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets

Command Mode

- /exec

show class-map type network-qos

```
show class-map type network-qos [ <cmap-name-nq> ] [ __readonly__ { <display-all> <desc> <xcmmap-name>
<cos-list> <qos-group-list> <protocol> } ]
```

Syntax Description

show	Show running system information
class-map	Show class maps
type	Type of the class-map
<i>cmap-name-nq</i>	(Optional) Class-map name
network-qos	type network-qos
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all network-qos class-maps
<i>desc</i>	(Optional) Description string
<i>xcmmap-name</i>	(Optional) Class-map name
<i>protocol</i>	(Optional) protocol
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values

Command Mode

- /exec

show class-map type psp

```
show class-map type psp { [ <omap-name-plc> [ client <clienttype> <clientID> ] [ cfg-mode <cfgmode> ] ]
| [ handle <ppf_id> ] } [ __readonly__ { [ <display-all> ] [ TABLE_omap <omap-key> [ <id> ] [ <any_or_all>
] [ <__inline__> ] [ class-default ] [ <omap-name-out> [ <desc> ] [ TABLE_match <match-key> [ <not> ] [
<any> ] [ <cos-list> ] [ <mac_src> <mac_src_wild> ] [ <mac_dest> <mac_dest_wild> ] [ <eth-value> ] [
<vlan-number> ] [ <tos-value> ] [ <ip-protocol-value> ] [ <ip-s-addr> <ip-s-mask> ] [ <ip-d-addr> <ip-d-mask>
] [ <tcp-src-port-addr> ] [ <tcp-dest-port-addr> ] [ <udp-src-port-addr> ] [ <udp-dest-port-addr> ] [
<interface-name> ] [ <ipv6-s-addr> <ipv6-s-mask> ] [ <ipv6-d-addr> <ipv6-d-mask> ] [ <dscp-list> ] ] ] }
```

Syntax Description

show	Show running system information
class-map	Show class maps
type	Type of the class-map
psp	type psp
<i>omap-name-plc</i>	(Optional) Class-map name
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID
cfg-mode	(Optional) cfg-mode
<i>cfgmode</i>	(Optional) persistent/transient
handle	(Optional) Handle
<i>ppf_id</i>	(Optional) PPF ID
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all kinds of class-maps
TABLE_omap	(Optional) all omap xml sessions
<i>omap-key</i>	(Optional) Class-map name: xml key
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
class-default	(Optional)
<i>omap-name-out</i>	(Optional) Class-map name
<i>any_or_all</i>	(Optional) Enter match-any or match-all
<i>__inline__</i>	(Optional) Inline class

<i>id</i>	(Optional) Class-map ID
<i>desc</i>	(Optional) Description string
<i>not</i>	(Optional) Negate this match result
<i>any</i>	(Optional) Wildcard match
<i>cos-list</i>	(Optional) List of class-of-service values
<i>mac_src</i>	(Optional) Source MAC address
<i>mac_src_wild</i>	(Optional) Source MAC mask
<i>mac_dest</i>	(Optional) Destination MAC address
<i>mac_dest_wild</i>	(Optional) Destination MAC mask
<i>eth-value</i>	(Optional) Ethernet type
<i>vlan-number</i>	(Optional) Vlan number
<i>tos-value</i>	(Optional) IPv4 TOS
<i>ip-protocol-value</i>	(Optional) IPV4 protocol
<i>ip-s-addr</i>	(Optional) IP address in format a.b.c.d
<i>ip-d-addr</i>	(Optional) IP address in format a.b.c.d
<i>ip-s-mask</i>	(Optional) IP address Mask in format a.b.c.d
<i>ip-d-mask</i>	(Optional) IP address Mask in format a.b.c.d
<i>tcp-src-port-addr</i>	(Optional) Transport layer port number
<i>tcp-dest-port-addr</i>	(Optional) Transport layer port number
<i>udp-src-port-addr</i>	(Optional) Transport layer port number
<i>udp-dest-port-addr</i>	(Optional) Transport layer port number
<i>interface-name</i>	(Optional) Physical interface Name and Number
<i>dscp-list</i>	(Optional) List of DSCP values

Command Mode

- /exec

show cli alias

show cli alias [name <s0>]

Syntax Description

show	Show running system information
cli	Show CLI information
alias	Display the alias configuration
name	(Optional) Display a specific alias
s0	(Optional) Specify the alias

Command Mode

- /exec

show cli dynamic integers

```
show cli dynamic integers [ <name> ] [ __readonly__ TABLE_dynamic_integers <name-o> <min> <max> ]
```

Syntax Description

show	Show running system information
cli	CLI commands
dynamic	Display current range of dynamic parameters
integers	Display current range of dynamic integer parameters
<i>name</i>	(Optional) name of the dynamic parameter
<i>__readonly__</i>	(Optional)
TABLE_dynamic_integers	(Optional)
<i>name-o</i>	(Optional)
<i>min</i>	(Optional)
<i>max</i>	(Optional)

Command Mode

- /exec

show cli dynamic strings

```
show cli dynamic strings [ <name> ] [ __readonly__ TABLE_dynamic_strings <name-o> <value> + ]
```

Syntax Description

show	Show running system information
cli	CLI commands
dynamic	Display current range of dynamic parameters
strings	Display current range of dynamic string parameters
<i>name</i>	(Optional) name of the dynamic parameter
<i>__readonly__</i>	(Optional)
<i>TABLE_dynamic_strings</i>	(Optional)
<i>name-o</i>	(Optional)
<i>value</i>	(Optional)

Command Mode

- /exec

show cli history

show cli history [this-mode-only | exec-mode | config-mode] [<count> | unformatted] +

Syntax Description

show	Show running system information
cli	debug cli
history	history of cli commands
<i>count</i>	(Optional) number of lines to display (from end)
unformatted	(Optional) display just the commands
this-mode-only	(Optional) display history from current mode only
exec-mode	(Optional) display history of exec commands only
config-mode	(Optional) display history of config commands only

Command Mode

- /exec

show cli interface table

show cli interface table

Syntax Description

show	show
cli	cli
interface	interface
table	table

Command Mode

- /exec

show cli list

show cli list [detail | recurse | <component> | <max-per-cmd>] +

Syntax Description

show	Show running system information
cli	Show CLI information
list	show
<i>component</i>	(Optional) component
<i>max-per-cmd</i>	(Optional) max
recurse	(Optional) go
detail	(Optional) formats

Command Mode

- /exec

show cli registry

show cli registry [ctags | tags | modes | session | inherit]

Syntax Description

show	Show running system information
cli	
registry	
ctags	(Optional)
tags	(Optional)
modes	(Optional)
session	(Optional)
inherit	(Optional)

Command Mode

- /exec

show cli syntax

```
show cli syntax [ long | recurse ] + [ has-xml-out | has-no-xml-out | is-data-modeled ] [ roles [ network-admin | network-operator | <roles-mask> ] ]
```

Syntax Description

show	Show running system information
cli	Show CLI information
syntax	show
long	(Optional) use
recurse	(Optional) also
has-xml-out	(Optional) show
has-no-xml-out	(Optional) show
is-data-modeled	(Optional) show
roles	(Optional) show
network-admin	(Optional) show
network-operator	(Optional) show
<i>roles-mask</i>	(Optional) show

Command Mode

- /exec

show cli variables

show cli variables

Syntax Description

show	Show running system information
cli	Show CLI information
variables	Show CLI variables

Command Mode

- /exec

show clock

```
show clock [ detail ] [ __readonly__ { <simple_time> [ <daylight_zone> <daylight_start_week>
<daylight_start_weekday> <daylight_start_month> <daylight_start_time> <daylight_end_week>
<daylight_end_weekday> <daylight_end_month> <daylight_end_time> <daylight_utc_min_offset> ] } ]
```

Syntax Description

show	Show running system information
clock	Display current Date
detail	(Optional) Display current date and summertime configuration
__readonly__	(Optional)
<i>simple_time</i>	(Optional) simple clock format
<i>daylight_zone</i>	(Optional) summer-time daylight zone
<i>daylight_start_week</i>	(Optional) daylight start week
<i>daylight_start_weekday</i>	(Optional) daylight start weekday
<i>daylight_start_month</i>	(Optional) daylight start month
<i>daylight_start_time</i>	(Optional) daylight start time
<i>daylight_end_week</i>	(Optional) daylight end week
<i>daylight_end_weekday</i>	(Optional) daylight end weekday
<i>daylight_end_month</i>	(Optional) daylight end month
<i>daylight_end_time</i>	(Optional) daylight end time
<i>daylight_utc_min_offset</i>	(Optional) daylight utc offset

Command Mode

- /exec

show clock utc

show clock utc

Syntax Description

show	Show running system information
clock	Display current Date
utc	Display current time in UTC

Command Mode

- /exec

show config-profile

```
show config-profile [ name <all_conf_profile_name> ] [ __readonly__ TABLE_conf_profile_all
<conf_profile_name> { <conf_profile_desc> <conf_profile_cfg> + <conf_profile_applied> +
<conf_profile_include> + } ]
```

Syntax Description

show	Show running system information
config-profile	Show config-profiles
name	(Optional) config-profile name
<i>all_conf_profile_name</i>	(Optional) Enter the name of configuration profile
<i>__readonly__</i>	(Optional)
<i>TABLE_conf_profile_all</i>	(Optional)
<i>conf_profile_name</i>	(Optional)
<i>conf_profile_desc</i>	(Optional)
<i>conf_profile_cfg</i>	(Optional)
<i>conf_profile_applied</i>	(Optional)
<i>conf_profile_include</i>	(Optional)

Command Mode

- /exec

show config-profile applied

```
show config-profile { applied [ auto | manually ] | non-applied } [ match-name <profile_substring> ] [
__readonly__ <profiles> ]
```

Syntax Description

show	Show running system information
config-profile	Show config-profiles
applied	List of config-profiles that are applied
auto	(Optional) List of config-profiles that are applied via auto-config
manually	(Optional) List of all config-profiles which were applied directly from cli
non-applied	List of config-profiles that are not applied
match-name	(Optional) List of all config-profiles that have matching sub-string
__readonly__	(Optional)
<i>profiles</i>	(Optional)
<i>profile_substring</i>	(Optional) Enter a substring to match with config-profile name

Command Mode

- /exec

show configuration session

show configuration session <s3> [__readonly__ <ssn-name> { <ssn-cmd-num> <command> } +]

Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
s3	Shows configuration session given a name
__readonly__	(Optional) Read only
ssn-name	(Optional)
ssn-cmd-num	(Optional)
command	(Optional)

Command Mode

- /exec

show configuration session

show configuration session [*__readonly__* { *<ssn-name>* *<ssn-cmd-num>* *<command>* } + *<trlr>*]

Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
<i>__readonly__</i>	(Optional) Read only
<i>ssn-name</i>	(Optional)
<i>ssn-cmd-num</i>	(Optional)
<i>command</i>	(Optional)
<i>trlr</i>	(Optional)

Command Mode

- /exec

show configuration session global-info

```
show configuration session global-info [ __readonly__ <max-ssns> <max-cmds> <curr-num-ssns>
<curr-num-cmds> ]
```

Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
global-info	Show configuration sessions global-info
__readonly__	(Optional) Read only
<i>max-ssns</i>	(Optional)
<i>max-cmds</i>	(Optional)
<i>curr-num-ssns</i>	(Optional)
<i>curr-num-cmds</i>	(Optional)

Command Mode

- /exec

show configuration session status

```
show configuration session status [ <s3> ] [ __readonly__ <ssn-name> { <last-action> <ac-tstamp> <ac-status>
<ac-reason> } { <failed-cmd-num> + <failed-cmd> } + { <last-vfy-cmd-num> <last-vfy-cmd>
<last-vfy-tstamp> } + <rollback-status> + <trlr> ]
```

Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
status	Show configuration session-mgr status
s3	(Optional) Shows configuration session status given a name
__readonly__	(Optional) Read only
ssn-name	(Optional)
last-action	(Optional)
ac-tstamp	(Optional)
ac-status	(Optional)
ac-reason	(Optional)
failed-cmd-num	(Optional)
failed-cmd	(Optional)
last-vfy-cmd-num	(Optional)
last-vfy-cmd	(Optional)
last-vfy-tstamp	(Optional)
rollback-status	(Optional)
trlr	(Optional)

Command Mode

- /exec

show configuration session summary

```
show configuration session summary [ __readonly__ <hdr> { <ssn-name> <username> <tstamp> } + <trlr> ]
```

Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
summary	Show summary of the active configuration sessions
__readonly__	(Optional) Read only
<i>hdr</i>	(Optional)
<i>ssn-name</i>	(Optional)
<i>username</i>	(Optional)
<i>tstamp</i>	(Optional)
<i>trlr</i>	(Optional)

Command Mode

- /exec

show consistency-checker copp

show consistency-checker copp

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
copp	Verify copp programming from software context

Command Mode

- /exec

show consistency-checker fex-interfaces fex

show consistency-checker fex-interfaces fex <id>

Syntax Description

show	Show running system information
fex	Limit display to interfaces on this fex
<i>id</i>	Enter module number
consistency-checker	Consistency Checker
fex-interfaces	Compares software and hardware state of fex interfaces

Command Mode

- /exec

show consistency-checker forwarding ipv6 show forwarding ipv6 inconsistency

```
show consistency-checker forwarding ipv6 [ unicast ] [ vrf { <vrf-name> | all_vrfs } ] [ module { <module> | all_modules } ] | show forwarding ipv6 [ unicast ] inconsistency [ vrf { <vrf-name> | all_vrfs } ] [ module { <module> | all_modules } ] [ __readonly__ TABLE_inconsistency <idipv6> <slotipv6> [ <unitipv6> ] <vrfipv6> [ <ipv6addr> ] [ <ipv6prefix> ] [ <interfaceipv6> ] <reasonipv6> ]
```

Syntax Description

show	show
consistency-checker	Consistency Checker
forwarding	Display Forwarding Information
inconsistency	route inconsistency check
ipv6	ipv6
unicast	(Optional) unicast
vrf	(Optional) check routes for a specific VRF
<i>vrf-name</i>	(Optional) VRF name
module	(Optional) check routes for a specific module
<i>module</i>	(Optional) module number
all_modules	(Optional) all module's
all_vrfs	(Optional) all vrf's
__readonly__	(Optional)
TABLE_inconsistency	(Optional)
<i>idipv6</i>	(Optional)
<i>slotipv6</i>	(Optional)
<i>unitipv6</i>	(Optional)
<i>vrfipv6</i>	(Optional)
<i>interfaceipv6</i>	(Optional)
<i>reasonipv6</i>	(Optional)

Command Mode

- /exec

show consistency-checker forwarding recover

show consistency-checker forwarding recover

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
forwarding	Display Forwarding Information
recover	Recover inconsistent routes

Command Mode

- /exec

show consistency-checker forwarding show forwarding inconsistency

```
show consistency-checker forwarding [ ip | ipv4 ] [ unicast ] [ vrf { <vrf-name> | all_vrfs } ] [ module {
<module> | all_modules } ] | show forwarding [ ip | ipv4 ] [ unicast ] inconsistency [ vrf { <vrf-name> | all_vrfs
} ] [ module { <module> | all_modules } ] [ __readonly__ TABLE_inconsistency <id> <slot> [ <unit> ] <vrf>
[ <ipaddr> ] [ <ipprefix> ] [ <interface> ] <reason> ]
```

Syntax Description

show	show
consistency-checker	Consistency Checker
forwarding	Display Forwarding Information
inconsistency	route inconsistency check
ip	(Optional) ipv4
ipv4	(Optional) ipv4
unicast	(Optional) unicast
vrf	(Optional) check routes for a specific VRF
<i>vrf-name</i>	(Optional) VRF name
module	(Optional) check routes for a specific module
<i>module</i>	(Optional) module number
all_modules	(Optional) all module's
all_vrfs	(Optional) all vrf's
__readonly__	(Optional)
TABLE_inconsistency	(Optional)
<i>id</i>	(Optional)
<i>slot</i>	(Optional)
<i>unit</i>	(Optional)
<i>vrf</i>	(Optional)
<i>ipaddr</i>	(Optional)
<i>ipprefix</i>	(Optional)
<i>interface</i>	(Optional)

<i>reason</i>	(Optional)
---------------	------------

Command Mode

- /exec

show consistency-checker l2-tahoe module

show consistency-checker l2-tahoe module <module> [unit <unit>]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l2-tahoe	Verify l2 mac programming in the hardware
module	Module to run the consistency-checker on
<i>module</i>	Enter module number
unit	(Optional) Unit to run the consistency checker on
<i>unit</i>	(Optional) Enter unit number

Command Mode

- /exec

show consistency-checker l2-tahoe switchport interface

show consistency-checker l2-tahoe switchport interface <if_name>

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l2-tahoe	Verify l2 switchport parameters
switchport	Switchport Interface
interface	interface
<i>if_name</i>	Physical or Logical interface

Command Mode

- /exec

show consistency-checker l3-interface module

show consistency-checker l3-interface module <moduleid>

Syntax Description

show	Show running system information
module	Limit display to interfaces on module
<i>moduleid</i>	Enter module number
consistency-checker	Consistency Checker
l3-interface	Compares software and hardware properties of L3 interfaces

Command Mode

- /exec

show consistency-checker link-state module

show consistency-checker link-state module <module>

Syntax Description

show	Show running system information
module	Limit display to interfaces on module
<i>module</i>	Enter module number
consistency-checker	Consistency Checker
link-state	Compares software and hardware link state of interfaces

Command Mode

- /exec

show consistency-checker membership port-channels

show consistency-checker membership port-channels [interface <ch-id>]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
membership	Check various memberships
port-channels	Verifies port channel membership in the hardware
interface	(Optional) Port-channel number
<i>ch-id</i>	(Optional) Port-Channel name

Command Mode

- /exec

show consistency-checker membership vlan

show consistency-checker membership vlan <vlanid> [private-vlan [interface [<int-id> | <ch-id>]]]

Syntax Description

show	Show running system information
vlan	Verifies vlan membership in the hardware
<i>vlanid</i>	Enter vlan id
consistency-checker	Consistency Checker
membership	Check various memberships
private-vlan	(Optional) Check private-vlan primary vlan
interface	(Optional) Interface
<i>int-id</i>	(Optional) Interface name
<i>ch-id</i>	(Optional) Port-Channel name

Command Mode

- /exec

show consistency-checker nxapi interface

show consistency-checker nxapi interface

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
nxapi	Nxapi
interface	Compares interface configs between dme and pss

Command Mode

- /exec

show consistency-checker pacl module

show consistency-checker pacl module <module>

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
pacl	Verify pacl programming in the hardware
module	Limit display to L2 interfaces on this module
<i>module</i>	Enter module number

Command Mode

- /exec

show consistency-checker pacl port-channels

show consistency-checker pacl port-channels [interface <ch-id>]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
pacl	Verify pacl programming in the hardware
port-channels	Verifies port channel pacl programming in the hardware
interface	(Optional) Port-channel number
<i>ch-id</i>	(Optional) Port-Channel name

Command Mode

- /exec

show consistency-checker port-security

show consistency-checker port-security [module <mod> [interface <intf-id>]]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
port-security	Port-Security information
module	(Optional) Module
interface	(Optional) Port-security interface
<i>intf-id</i>	(Optional) Port-security interace
<i>mod</i>	(Optional) Module Number

Command Mode

- /exec

show consistency-checker qinvni

show consistency-checker qinvni

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
qinvni	QinVNI consistency checker

Command Mode

- /exec

show consistency-checker racl module

show consistency-checker racl module <module>

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
racl	Verify racl programming in the hardware
module	Limit display to L3 interfaces on this module
<i>module</i>	Enter module number

Command Mode

- /exec

show consistency-checker racl port-channels

show consistency-checker racl port-channels [interface <ch-id>]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
racl	Verify racl programming in the hardware
port-channels	Verifies port channel racl programming in the hardware
interface	(Optional) Port-channel number
<i>ch-id</i>	(Optional) Port-Channel name

Command Mode

- /exec

show consistency-checker stp-state vlan

show consistency-checker stp-state vlan <vlan>

Syntax Description

show	Show running system information
vlan	Verifies spanning tree state in the hardware for all interfaces in the vlan
<i>vlan</i>	Enter vlan id
consistency-checker	Consistency Checker
stp-state	Verify spanning tree state in the hardware

Command Mode

- /exec

show consistency-checker vacl

show consistency-checker vacl

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vacl	Verify vacl programming in the hardware

Command Mode

- /exec

show consistency-checker vxlan bgp

show consistency-checker vxlan bgp

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN consistency checker
bgp	Display VxLAN BGP EVPN consistency information

Command Mode

- /exec

show consistency-checker vxlan interface

show consistency-checker vxlan interface { <int-id> | <ch-id> }

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN VLANs
interface	Interface
<i>int-id</i>	Interface
<i>ch-id</i>	Port-Channel name

Command Mode

- /exec

show consistency-checker vxlan mh mac-addresses

show consistency-checker vxlan mh mac-addresses

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN VLANs
mh	VxLAN BGP EVPN Multi Homing CC commands
mac-addresses	Check mac address consistency between L2RIB and L2FM

Command Mode

- /exec

show consistency-checker vxlan mh pathlist

show consistency-checker vxlan mh pathlist

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN VLANs
mh	VxLAN BGP EVPN Multi Homing CC commands
pathlist	Check Vxlan BGP EVPN MH Control plane and resultant pathlists consistency

Command Mode

- /exec

show consistency-checker vxlan peers

show consistency-checker vxlan peers

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN consistency checker
peers	Display VxLAN peers consistency information

Command Mode

- /exec

show consistency-checker vxlan routes

show consistency-checker vxlan routes

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN consistency checker
routes	Display VxLAN L3 routes consistency information

Command Mode

- /exec

show consistency-checker vxlan selective-qinvni

show consistency-checker vxlan selective-qinvni

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN VLANs
selective-qinvni	Selective QinVNI consistency checker

Command Mode

- /exec

show consistency-checker vxlan selective-qinvni interface

show consistency-checker vxlan selective-qinvni interface { <int-id> | <ch-id> }

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN VLANs
selective-qinvni	Selective QinVNI consistency checker
interface	Interface
<i>int-id</i>	Interface
<i>ch-id</i>	Port-Channel name

Command Mode

- /exec

show consistency-checker vxlan vlan

show consistency-checker vxlan vlan <vlanid>

Syntax Description

show	Show running system information
vxlan	VxLAN VLANs
vlan	Verifies flood list programming for vxlan vlans
consistency-checker	Consistency Checker
<i>vlanid</i>	Enter vlan id

Command Mode

- /exec

show controller accounting log

show controller <ctrl-id> accounting log

Syntax Description

show	Show running system information
controller	Controller command
<i>ctrl-id</i>	Controller id value
accounting	Accounting
log	Show log information

Command Mode

- /exec

show copp diff profile profile2

show copp diff profile <profile_type> [prior-ver] profile2 <profile_type2>

Syntax Description

show	Show running system information
copp	Control-Plane Policing
diff	Difference between CoPP Profiles
profile	CoPP Profile
<i>profile_type</i>	CoPP Profile Types
prior-ver	(Optional) Previous Configured Version
profile2	CoPP Profile
<i>profile_type2</i>	CoPP Profile Types

Command Mode

- /exec

show copp profile

```
show copp profile { strict | moderate | lenient | dense } [ __readonly__ <acl-type> <acl-grp-name> {
<permitdeny> { <proto_str> | <proto> | <ip> | <ipv6> } { <src_any> | <src_ip_prefix> | <src_ip_addr>
<src_ip_mask> | <src_ipv6_prefix> | <src_addrgrp> | <src_mac_any> | <src_mac_addr> <src_mac_mask>
} [ <src_port_op> { <src_port1_str> | <src_port1_num> } [ <src_port2_str> | <src_port2_num> ] | <src_portgrp>
] { <dest_any> | <dest_ip_prefix> | <dest_ip_addr> <dest_ip_mask> | <dest_ipv6_prefix> | <dest_addrgrp>
| <dest_mac_any> | <dest_mac_addr> <dest_mac_mask> } [ <dest_port_op> { <dest_port1_str> |
<dest_port1_num> } [ <dest_port2_str> | <dest_port2_num> ] | <dest_portgrp> ] [ { <icmp_type> [
<icmp_code> ] | <icmp_str> } | { <icmpv6_type> [ <icmpv6_code> ] | <icmpv6_str> } ] <eth_proto> }
<newline> <cmap_name> <opt_any_or_all> { { access_grp <acc_grp_name> } | { redirect
<opt_match_redirect> } | { exception <opt_match_except> } { protocol <opt_match_protocol> } } +
<pmap_name> <class-name> <cir> <opt_kbps_mbps_gbps_pps_cir> { percent <cir-perc> } <pir>
<opt_kbps_mbps_gbps_pps_pir> { percent1 <pir-perc> } <bc> <opt_kbytes_mbytes_gbytes_bc> <be>
<opt_kbytes_mbytes_gbytes_be> { { <opt_drop_transmit_conform> } | { set-cos-transmit <set-cos-val> } |
{ set-dscp-transmit <set-dscp-val> } | { set-prec-transmit <set-prec-val> } } { { <opt_drop_transmit_exceed>
} | { set dscp1 dscp2 table cir-markdown-map } } { { <opt_drop_transmit_violate> } | { set1 dscp3 dscp4
table1 pir-markdown-map } } { { cos [ inner ] <cos-val> } | { dscp [ tunnel ] <dscp-val> } | { precedence [
tunnell ] <prec-val> } <policer_show_flags> <set_vld_flg> } + ]
```

Syntax Description

show	Show running system information
copp	Control-Plane Policing
profile	CoPP Profile
strict	display strict profile
moderate	display moderate profile
lenient	display lenient profile
dense	display dense profile
__readonly__	(Optional) Read Only
<i>acl-type</i>	(Optional) access-list type
<i>acl-grp-name</i>	(Optional) name of the access-list
<i>permitdeny</i>	(Optional) permit/deny
<i>proto</i>	(Optional) A protocol number
<i>proto_str</i>	(Optional) Protocol name
<i>ip</i>	(Optional) IP
<i>ipv6</i>	(Optional) IPV6
<i>src_any</i>	(Optional) SRCAny

<i>dest_any</i>	(Optional) DESTAny
<i>src_ip_prefix</i>	(Optional) Source IP prefix
<i>src_ip_addr</i>	(Optional) Source IP address
<i>src_ip_mask</i>	(Optional) Source IP mask
<i>src_mac_addr</i>	(Optional) Source MAC address
<i>src_mac_mask</i>	(Optional) Source MAC mask
<i>src_mac_any</i>	(Optional) SRCMACAny
<i>dest_ip_prefix</i>	(Optional) Destination IP prefix
<i>dest_ip_addr</i>	(Optional) Destination IP address
<i>dest_ip_mask</i>	(Optional) Destination IP mask
<i>dest_mac_addr</i>	(Optional) Destination MAC address
<i>dest_mac_mask</i>	(Optional) Destination MAC mask
<i>dest_mac_any</i>	(Optional) DESTMACAny
<i>src_port_op</i>	(Optional) Source Port operator
<i>dest_port_op</i>	(Optional) Destination Port operator
<i>src_port1_str</i>	(Optional) Source port name
<i>src_port1_num</i>	(Optional) Source port number
<i>src_port2_str</i>	(Optional) Source port name
<i>src_port2_num</i>	(Optional) Source port number
<i>dest_port1_str</i>	(Optional) Destination port name
<i>dest_port1_num</i>	(Optional) Destination port number
<i>dest_port2_str</i>	(Optional) Destination port name
<i>dest_port2_num</i>	(Optional) Destination port number
<i>icmp_type</i>	(Optional) ICMP type
<i>icmp_code</i>	(Optional) ICMP code
<i>icmp_str</i>	(Optional) ICMP message
<i>icmpv6_type</i>	(Optional) ICMP type
<i>icmpv6_code</i>	(Optional) ICMP code
<i>icmpv6_str</i>	(Optional) ICMP message

<i>src_addrgrp</i>	(Optional) Source address group
<i>dest_addrgrp</i>	(Optional) Destination address group
<i>src_portgrp</i>	(Optional) Source port group
<i>dest_portgrp</i>	(Optional) Destination port group
<i>eth_proto</i>	(Optional) MAC protocol number
<i>newline</i>	(Optional) newline between access-list and cmaps
<i>cmap_name</i>	(Optional) Name of the class-map
<i>opt_any_or_all</i>	(Optional) Enter match-any or match-all
<i>access_grp</i>	(Optional)
<i>acc_grp_name</i>	(Optional)
<i>redirect</i>	(Optional)
<i>opt_match_redirect</i>	(Optional) Match criteria for redirected packets
<i>exception</i>	(Optional)
<i>opt_match_except</i>	(Optional) Match criteria for exception packets
<i>protocol</i>	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets
<i>pmap_name</i>	(Optional) Name of the Policy-map
<i>class-name</i>	(Optional) Name if the policy member
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
<i>percent</i>	(Optional)
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
<i>percentl</i>	(Optional)
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
<i>set-cos-transmit</i>	(Optional)
<i>set-cos-val</i>	(Optional) Conform action cos val
<i>set-dscp-transmit</i>	(Optional)
<i>set-dscp-val</i>	(Optional) Conform action dscp val

set-prec-transmit	(Optional)
<i>set-prec-val</i>	(Optional) Conform action prec val
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional)
dscp1	(Optional)
dscp2	(Optional)
table	(Optional)
cir-markdown-map	(Optional)
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional)
dscp3	(Optional)
dscp4	(Optional)
table1	(Optional)
pir-markdown-map	(Optional)
cos	(Optional)
inner	(Optional)
<i>cos-val</i>	(Optional) Set cos val
dscp	(Optional)
tunnel	(Optional)
<i>dscp-val</i>	(Optional) Set dscp val
precedence	(Optional)
tunnel1	(Optional)
<i>prec-val</i>	(Optional) Set prec val
<i>policer_show_flags</i>	(Optional) Policer show flags
<i>set_vld_flg</i>	(Optional) Set valid flag

Command Mode

- /exec

show copp status

```
show copp status [ __readonly__ { last_config_operation <last_cfg_oper> } { last_config_operation_time
<last_cfg_oper_time> } { last_config_operation_status <last_cfg_oper_status> } [
last_config_operation_error_time <last_cfg_oper_error_time> ] [ last_config_operation_error
<last_cfg_oper_error> ] { service_policy <srv_policy> } ]
```

Syntax Description

show	Show running system information
copp	Control-Plane Policing
status	Show the internal status of CoPP
__readonly__	(Optional)
last_config_operation	(Optional) last config operation
<i>last_cfg_oper</i>	(Optional) last config operation
last_config_operation_time	(Optional) timestamp of last config operation
<i>last_cfg_oper_time</i>	(Optional) timestamp of last config operation
last_config_operation_status	(Optional) status of last config operation
<i>last_cfg_oper_status</i>	(Optional) status of last config operation
last_config_operation_error_time	(Optional) timestamp of last config operation's error
<i>last_cfg_oper_error_time</i>	(Optional) timestamp of last config operation's error
last_config_operation_error	(Optional) last config operation's error
<i>last_cfg_oper_error</i>	(Optional) last config operation's error
service_policy	(Optional) policy-map attached to control-plane
<i>srv_policy</i>	(Optional) policy-map attached to control-plane

Command Mode

- /exec

show copyright

show copyright [*__readonly__* { <content> }]

Syntax Description

show	Show running system information
copyright	Copyright information
<i>__readonly__</i>	(Optional)
<i>content</i>	(Optional) Copyrigh information

Command Mode

- /exec

show cores

```
show cores [ vdc-all | { vdc [ <e-vdc2> | <vdc-id> ] } ] [ __readonly__ { [ TABLE_cores <vdc_id>
<module_id> <instance> <process_name> <pid> <sys_time> ] } ]
```

Syntax Description

show	Show running system information
cores	show all core dumps for the current vdc
vdc-all	(Optional) show core dumps from all vdc's
vdc	(Optional) show all core dumps for the vdc
__readonly__	(Optional)
TABLE_cores	(Optional)
<i>vdc_id</i>	(Optional) vdc id
<i>module_id</i>	(Optional) module id
<i>instance</i>	(Optional) instance number
<i>process_name</i>	(Optional) name of the process
<i>pid</i>	(Optional) process id
<i>sys_time</i>	(Optional) core generate time
<i>e-vdc2</i>	(Optional) Enter VDC <vdc-id>
<i>vdc-id</i>	(Optional) vdc number

Command Mode

- /exec

show crypto ca certificates

```
show crypto ca certificates [ __readonly__ [ { TABLE_ca_certificates <trustpoint> [ <certificate> ] [ {
TABLE_ca_cert_chains <index> <ca_certificate> } ] } ] ]
```

Syntax Description

show	Show running system information
crypto	show crypto configuration
ca	show trustpoint configuration
certificates	show various certificates
<i>__readonly__</i>	(Optional)
<i>TABLE_ca_certificates</i>	(Optional) Table of CA certificates
<i>trustpoint</i>	(Optional) Trustpoint name
<i>certificate</i>	(Optional) Certificate
<i>TABLE_ca_cert_chains</i>	(Optional) Table of CA certificates in chain
<i>index</i>	(Optional) CA Certificate Index
<i>ca_certificate</i>	(Optional) CA certificate

Command Mode

- /exec

show crypto ca certificates

```
show crypto ca certificates <s0> [ __readonly__ { Trustpoint <trustpoint> } [ { Certificate <certificate> } ]
[ { TABLE_ca_cert_chains <index> <ca_certificate> } ] ]
```

Syntax Description

show	Show running system information
crypto	show crypto configuration
ca	show trustpoint configuration
certificates	show various certificates
<i>s0</i>	trustpoint label
<i>__readonly__</i>	(Optional)
Trustpoint	(Optional) Trustpoint
<i>trustpoint</i>	(Optional) Trustpoint
Certificate	(Optional) Certificate
<i>certificate</i>	(Optional) Certificate
TABLE_ca_cert_chains	(Optional) Table of CA certificates in chain
<i>index</i>	(Optional) CA Certificate Index
<i>ca_certificate</i>	(Optional) CA certificate

Command Mode

- /exec

show crypto ca certstore

```
show crypto ca certstore [ __readonly__ { certstore_lookup <lookup_type> } ]
```

Syntax Description

show	Show running system information
crypto	Show crypto configuration
ca	show crypto ca configuration
certstore	Show the configured certstore
__readonly__	(Optional)
certstore_lookup	(Optional) Certificate store lookup
<i>lookup_type</i>	(Optional) Lookup type

Command Mode

- /exec

show crypto ca crl

```
show crypto ca crl <s0> [ __readonly__ { Trustpoint <trustpoint> } [ { CRL <cr> } ] ]
```

Syntax Description

show	Show running system information
crypto	show crypto configuration
ca	show trustpoint configuration
crl	show CRL
<i>s0</i>	trustpoint label
<i>__readonly__</i>	(Optional)
Trustpoint	(Optional) Trustpoint
<i>trustpoint</i>	(Optional) Trustpoint
CRL	(Optional) Certificate Revocation List
<i>crl</i>	(Optional) Certificate Revocation List

Command Mode

- /exec

show crypto ca remote-certstore

```
show crypto ca remote-certstore [ __readonly__ { remote_cert_store <rem_cert_store> } [ { crl_timer <crltimer>
} { ldap_server_group <ldap_server_grp> } ] ]
```

Syntax Description

show	Show running system information
crypto	Show crypto configuration
ca	show crypto ca configuration
remote-certstore	Show remote certstore configuration
__readonly__	(Optional)
remote_cert_store	(Optional) Remote cert store
<i>rem_cert_store</i>	(Optional) Remote certificate store
crl_timer	(Optional) CRL timer
<i>crltimer</i>	(Optional) CRL timer
ldap_server_group	(Optional) LDAP Server Group
<i>ldap_server_grp</i>	(Optional) LDAP Server Group

Command Mode

- /exec

show crypto ca trustpoints

```
show crypto ca trustpoints [ __readonly__ [ { TABLE_ca_truspoints <trustpoint> <key-pair> [ {
TABLE_revocation_methods <revocation-method> } ] [ <ocsp-url> ] } ] ]
```

Syntax Description

show	Show running system information
crypto	show crypto configuration
ca	show trustpoint configuration
trustpoints	show trustpoint configuration
__readonly__	(Optional)
<i>trustpoint</i>	(Optional) Trustpoint
<i>key-pair</i>	(Optional) Key pair
TABLE_revocation_methods	(Optional) Table of revocation methods
<i>revocation-method</i>	(Optional) Revocation mehtod
<i>ocsp-url</i>	(Optional) OCSP URL
TABLE_ca_truspoints	(Optional) Table of CA trustpoints

Command Mode

- /exec

show crypto certificatemap

```
show crypto certificatemap [ __readonly__ [ { TABLE_certmap <map_name> <subject_name>
<alternate_email> <alternate_upn> } ] ]
```

Syntax Description

show	Show running system information
crypto	show crypto configuration
certificatemap	show certificatemap filters
<i>__readonly__</i>	(Optional)
<i>TABLE_certmap</i>	(Optional) Table of Certificate Map
<i>map_name</i>	(Optional) Map name
<i>subject_name</i>	(Optional) Subject name
<i>alternate_email</i>	(Optional) Alternate Email
<i>alternate_upn</i>	(Optional) Alternate UPN

Command Mode

- /exec

show crypto key mypubkey rsa

```
show crypto key mypubkey rsa [ __readonly__ [ { TABLE_rsa_keys <key_label> <key_size> <exportable>
<err_string> } ] ]
```

Syntax Description

show	Show running system information
crypto	show crypto configuration
key	show key configuration
mypubkey	show my public keys configuration
rsa	show my rsa public keys configuration
<i>__readonly__</i>	(Optional)
<i>TABLE_rsa_keys</i>	(Optional) Table of RSA keys
<i>key_label</i>	(Optional) Key Label
<i>key_size</i>	(Optional) Key size
<i>exportable</i>	(Optional) Exportable
<i>err_string</i>	(Optional) Error String

Command Mode

- /exec

show crypto ssh-auth-map

```
show crypto ssh-auth-map [ __readonly__ [ { TABLE_ssh_auth_map <issuer_name> <map1> [ <map2> ] } ] ]
```

Syntax Description

show	Show running system information
crypto	show crypto configuration
ssh-auth-map	show mapping filters applied for ssh authentication
<i>__readonly__</i>	(Optional)
<i>TABLE_ssh_auth_map</i>	(Optional) Table of SSH Auth MAP
<i>issuer_name</i>	(Optional) Issuer Name
<i>map1</i>	(Optional) Map 1
<i>map2</i>	(Optional) Map 2

Command Mode

- /exec

show cts

show cts [*__readonly__* <device-id> <cache_en> <num-dot1x> <num-man> <sgt>]

Syntax Description

<i>cts</i>	Show CTS global configuration
<i>__readonly__</i>	(Optional)
<i>device-id</i>	(Optional) name
<i>cache_en</i>	(Optional) enable/disable
<i>num-dot1x</i>	(Optional) number of interfaces in dot1x mode
<i>num-man</i>	(Optional) number of interfaces in manual mode
<i>sgt</i>	(Optional)

Command Mode

- /exec

show cts credentials

show cts credentials [__readonly__ <device-id>]

Syntax Description

cts	Show CTS global configuration
credentials	Show credentials used for CTS authentication
__readonly__	(Optional)
<i>device-id</i>	(Optional) name

Command Mode

- /exec

show cts environment-data

```
show cts environment-data [ __readonly__ <state> <status> <sgt> <transport> <lifetime> <last-update>
<cache> <server_list> <server_ip> <server_port> <server_aid> ]
```

Syntax Description

<code>cts</code>	Show CTS global configuration
<code>environment-data</code>	Show the CTS environment data
<code>__readonly__</code>	(Optional)
<code>state</code>	(Optional)
<code>status</code>	(Optional)
<code>sgt</code>	(Optional)
<code>transport</code>	(Optional)
<code>lifetime</code>	(Optional)
<code>last-update</code>	(Optional)
<code>cache</code>	(Optional)
<code>server_list</code>	(Optional)
<code>server_ip</code>	(Optional)
<code>server_port</code>	(Optional)
<code>server_aid</code>	(Optional)

Command Mode

- /exec

show cts interface

```
{ show cts interface <if> [ __readonly__ <ifstr> <mode> <ifc_state> <bypass_test_sts> <authc_sts> <peer_id>
<peer_cts_cap> <role> <last_reauth_time> <reauth_conf> <reauth_pol> <reauth_applied> <authz_sts>
<peer_sgt> <peer_trust> <sap_sts> <ciphers> <replay_en> <replay_mode> <sel_cipher> <rx_spi> <tx_spi>
<prop_sgt> ] }
```

Syntax Description

<code>cts</code>	Show CTS gloabl configuration
<code>if</code>	Interface list
<code>__readonly__</code>	(Optional)
<code>ifstr</code>	(Optional)
<code>mode</code>	(Optional) CTS Mode
<code>ifc_state</code>	(Optional)
<code>bypass_test_sts</code>	(Optional)
<code>authc_sts</code>	(Optional)
<code>peer_id</code>	(Optional)
<code>peer_cts_cap</code>	(Optional)
<code>role</code>	(Optional)
<code>last_reauth_time</code>	(Optional)
<code>reauth_conf</code>	(Optional)
<code>reauth_pol</code>	(Optional)
<code>reauth_applied</code>	(Optional)
<code>authz_sts</code>	(Optional)
<code>peer_sgt</code>	(Optional)
<code>peer_trust</code>	(Optional)
<code>sap_sts</code>	(Optional)
<code>ciphers</code>	(Optional)
<code>replay_en</code>	(Optional)
<code>replay_mode</code>	(Optional)
<code>sel_cipher</code>	(Optional)

<i>rx_spi</i>	(Optional)
<i>tx_spi</i>	(Optional)
<i>prop_sgt</i>	(Optional)

Command Mode

- /exec

show cts interface all

```
show cts interface all [ __readonly__ <ifstr> <mode> <ifc_state> <bypass_test_sts> <authc_sts> <peer_id>
<peer_cts_cap> <role> <last_reauth_time> <reauth_conf> <reauth_pol> <reauth_applied> <authz_sts>
<peer_sgt> <peer_trust> <sap_sts> <ciphers> <replay_en> <replay_mode> <sel_cipher> <rx_spi> <tx_spi>
<prop_sgt> ]
```

Syntax Description

<i>cts</i>	Show CTS gloabl configuration
<i>all</i>	Show information for all CTS enabled interfaces
<i>__readonly__</i>	(Optional)
<i>ifstr</i>	(Optional)
<i>mode</i>	(Optional) CTS Mode
<i>ifc_state</i>	(Optional)
<i>bypass_test_sts</i>	(Optional)
<i>authc_sts</i>	(Optional)
<i>peer_id</i>	(Optional)
<i>peer_cts_cap</i>	(Optional)
<i>role</i>	(Optional)
<i>last_reauth_time</i>	(Optional)
<i>reauth_conf</i>	(Optional)
<i>reauth_pol</i>	(Optional)
<i>reauth_applied</i>	(Optional)
<i>authz_sts</i>	(Optional)
<i>peer_sgt</i>	(Optional)
<i>peer_trust</i>	(Optional)
<i>sap_sts</i>	(Optional)
<i>ciphers</i>	(Optional)
<i>replay_en</i>	(Optional)
<i>replay_mode</i>	(Optional)
<i>sel_cipher</i>	(Optional)

<i>rx_spi</i>	(Optional)
<i>tx_spi</i>	(Optional)
<i>prop_sgt</i>	(Optional)

Command Mode

- /exec

show cts l3 interface

show cts l3 interface [*__readonly__* *TABLE_l3_int* <*if*> <*spi*>]

Syntax Description

<i>__readonly__</i>	(Optional)
<i>cts</i>	Show CTS related information
<i>l3</i>	Show L3 CTS related information
<i>interface</i>	Show L3 CTS configuration for interfaces
<i>TABLE_l3_int</i>	(Optional)
<i>if</i>	(Optional) Interface list
<i>spi</i>	(Optional) SPI to be used

Command Mode

- /exec

show cts l3 mapping

show cts l3 mapping [*__readonly__* *TABLE_l3_mapping* <ip_prefix> <spi>]

Syntax Description

<i>__readonly__</i>	(Optional)
<i>cts</i>	Show CTS related information
<i>l3</i>	Show L3 CTS related information
<i>mapping</i>	Show L3 CTS IP Prefix to SPI mapping
<i>TABLE_l3_mapping</i>	(Optional)
<i>ip_prefix</i>	(Optional) IP Prefix to which L3 CTS need to be applied
<i>spi</i>	(Optional) SPI to be used

Command Mode

- /exec

show cts pacs

show cts pacs [*__readonly__* <pactype> <aid> <iid> <aidinfo> <lifetime> <pacopague>]

Syntax Description

cts	Show CTS global configuration
pacs	Show A-ID and PAC-info for PACs in the key store
<i>__readonly__</i>	(Optional)
<i>pactype</i>	(Optional)
<i>aid</i>	(Optional)
<i>iid</i>	(Optional)
<i>aidinfo</i>	(Optional)
<i>lifetime</i>	(Optional)
<i>pacopague</i>	(Optional)

Command Mode

- /exec

show cts role-based access-list

```
show cts role-based access-list [ <req_rbacl_name> ] [ __readonly__ TABLE_rbacl <rbacl_name>
TABLE_acllist <ace_string> ]
```

Syntax Description

<code>__readonly__</code>	(Optional)
<code>cts</code>	Show CTS related information
<code>role-based</code>	Show RBACL related information
<code>access-list</code>	Show all RBACL policies
<i>req_rbacl_name</i>	(Optional) RBACL name
<code>TABLE_rbacl</code>	(Optional)
<i>rbacl_name</i>	(Optional) Show RBACL name
<code>TABLE_acllist</code>	(Optional)
<i>ace_string</i>	(Optional) Show ACEs of the RBACL

Command Mode

- /exec

show cts role-based counters

```
show cts role-based counters [ sgt { <sgt_val> | <sgt_unknown> | <sgt_any> } ] [ dgt { <dgt_val> |
<dgt_unknown> | <dgt_any> } ] [ __readonly__ <header> <upd_timestamp> <clr_timestamp> TABLE_sgt dgt
<sgt> <dgt> <sgt_dgt_count> TABLE_rbacl <rbacl_name> TABLE_acllist <ace_string> <ace_count> ]
```

Syntax Description

<code>__readonly__</code>	(Optional)
<code>cts</code>	Show CTS related information
<code>role-based</code>	Show RBACL related information
<code>counters</code>	Show counters for RBACL policies
<code>header</code>	(Optional) Statistics header
<code>upd_timestamp</code>	(Optional) Time when counters were last collected
<code>clr_timestamp</code>	(Optional) Time when counters were last cleared
<code>TABLE_sgt dgt</code>	(Optional)
<code>sgt</code>	(Optional) sgt value
<code>dgt</code>	(Optional) dgt value
<code>sgt_dgt_count</code>	(Optional) Show per sgt,dgt counter
<code>TABLE_rbacl</code>	(Optional)
<code>rbacl_name</code>	(Optional) Show RBACL name
<code>TABLE_acllist</code>	(Optional)
<code>ace_string</code>	(Optional) Show ACEs of the RBACL
<code>ace_count</code>	(Optional) Show per sgt,dgt,ace counter
<code>sgt</code>	(Optional) sgt
<code>sgt_val</code>	(Optional) sgt value
<code>sgt_unknown</code>	(Optional) Show counters for unknown sgt
<code>sgt_any</code>	(Optional) Show counters for sgt 'any
<code>dgt</code>	(Optional) dgt
<code>dgt_val</code>	(Optional) dgt value
<code>dgt_unknown</code>	(Optional) Show counters for unknown dgt
<code>dgt_any</code>	(Optional) Show counters for dgt 'any

Command Mode

- /exec

show cts role-based enable

show cts role-based enable [*__readonly__* *TABLE_rbacl_en* { <vrf> | <vlan> }]

Syntax Description

<i>__readonly__</i>	(Optional)
<i>cts</i>	Show CTS related information
<i>role-based</i>	Show RBACL related information
<i>enable</i>	Show VLANs and VRFs where RBACL is enabled
<i>TABLE_rbacl_en</i>	(Optional)
<i>vrf</i>	(Optional) VRF where RBACL is enabled
<i>vlan</i>	(Optional) VLAN where RBACL is enabled

Command Mode

- /exec

show cts role-based policy

show cts role-based policy [*__readonly__* *TABLE_sgt**dgt* <sgt> <dgt> <rbacl_name> *TABLE_acllist* <ace_string>]

Syntax Description

<i>__readonly__</i>	(Optional)
<i>cts</i>	Show CTS related information
<i>role-based</i>	Show RBACL related information
<i>policy</i>	Show RBACL access-list information of all SGT/DGT pair
<i>TABLE_sgt</i> <i>dgt</i>	(Optional)
<i>sgt</i>	(Optional) Show SGT Values
<i>dgt</i>	(Optional) Show DGT Values
<i>rbacl_name</i>	(Optional) Show RBACL list name for SGT/DGT pair
<i>TABLE_acllist</i>	(Optional)
<i>ace_string</i>	(Optional) Show ACEs of the list

Command Mode

- /exec

show cts role-based sgt-map

```
show cts role-based sgt-map [ __readonly__ TABLE_sgtmap <header_bit> <ipaddr> <sgt> { <vrf> | <vlan>
} [ <if_index> | <sxp_peer> ] [ <comment> ] ]
```

Syntax Description

<code>__readonly__</code>	(Optional)
<code>cts</code>	Show CTS related information
<code>role-based</code>	Show RBACL related information
<code>sgt-map</code>	Show IP Address to SGT mapping
<code>TABLE_sgtmap</code>	(Optional)
<code>header_bit</code>	(Optional) Bit to print Header for show cts role-based sgt-map
<code>ipaddr</code>	(Optional) IP Address in format A.B.C.D
<code>sgt</code>	(Optional) Show SGT Values
<code>vrf</code>	(Optional) Show VRF of the IP Address
<code>vlan</code>	(Optional) Show VLAN of the IP Address
<code>if_index</code>	(Optional) Interface Index
<code>sxp_peer</code>	(Optional) IP Address of SXP peer which sent this IP Address mapping
<code>comment</code>	(Optional) Any additional comments about the mapping

Command Mode

- /exec

show cts sxp

```
show cts sxp [ __readonly__ <enable_status> <default_password> <default_src_ipaddr_type>
<default_src_ipaddr> <retry_timeout> <reconcile_timeout> ]
```

Syntax Description

<i>__readonly__</i>	(Optional)
<i>cts</i>	Show CTS related information
<i>sxp</i>	Show SXP related information
<i>enable_status</i>	(Optional) Show if SXP is enabled or not
<i>default_password</i>	(Optional) Show if default password is specified or not
<i>default_src_ipaddr_type</i>	(Optional) Src IP address type IPv4 or IPv6
<i>default_src_ipaddr</i>	(Optional) Show default Source IP address
<i>retry_timeout</i>	(Optional) Show retry timeout value
<i>reconcile_timeout</i>	(Optional) Show reconcile timeout value

Command Mode

- /exec

show cts sxp connection

show cts sxp connection [*__readonly__* *TABLE_sxp_connection* <*header_bit*> <*ipaddr*> <*vrf*> <*mode*> <*state*>]

Syntax Description

<i>__readonly__</i>	(Optional)
<i>cts</i>	Show CTS related information
<i>sxp</i>	Show SXP related information
<i>connection</i>	Show SXP connections
<i>TABLE_sxp_connection</i>	(Optional)
<i>header_bit</i>	(Optional) Bit to print Header for show sxp conn
<i>ipaddr</i>	(Optional) IP Address in format A.B.C.D
<i>vrf</i>	(Optional) Show VRF of the IP Address
<i>mode</i>	(Optional) Show SXP mode of the peer
<i>state</i>	(Optional) Show current SXP state of the peer

Command Mode

- /exec

show current

show current

Syntax Description

show	Display region configurations
current	Display mst configuration currently used

Command Mode

- /exec/configure/spanning-tree/mst/configuration



D Commands

- [show diagnostic bootup level, on page 334](#)
- [show diagnostic content module, on page 335](#)
- [show diagnostic description module test all, on page 336](#)
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show diagnostic bootup level

show diagnostic bootup level [__readonly__ <bootup_level>]

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
bootup	Show diagnostic bootup information
level	Show diagnostic bootup level information
__readonly__	(Optional)
<i>bootup_level</i>	(Optional) Bootup level

Command Mode

- /exec

show diagnostic content module

```
show diagnostic content module { all | <module> } [ __readonly__ <attr_descr> { TABLE_module
<module_id> <module_type> { TABLE_test <test_id> <testname> <test_attr> <test_interval> } } ]
```

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
content	Show diagnostic test content
module	Module Keyword
all	Select all module ID
<i>module</i>	Module number
<i>__readonly__</i>	(Optional)
<i>attr_descr</i>	(Optional) Attribute description
TABLE_module	(Optional) All modules table
<i>module_id</i>	(Optional) Module Number
<i>module_type</i>	(Optional) module type description
TABLE_test	(Optional) All tests table
<i>test_id</i>	(Optional) Test id
<i>testname</i>	(Optional) Test name
<i>test_attr</i>	(Optional) Test Attribute
<i>test_interval</i>	(Optional) HM test interval

Command Mode

- /exec

show diagnostic description module test all

```
show diagnostic description module <module> test { all | <name> | <test-id> } [ __readonly__ { TABLE_desc
<testname> <testdesc> } ]
```

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
description	Show diagnostic test desc
module	Module keyword
<i>module</i>	Module Number
test	Diagnostic test selection
all	Select all test ID
<i>name</i>	Test name
<i>test-id</i>	
__readonly__	(Optional)
TABLE_desc	(Optional) Table of test description
<i>testname</i>	(Optional) Test name
<i>testdesc</i>	(Optional) Description of the test

Command Mode

- /exec

show diagnostic events

show diagnostic events [error | info]

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
events	Diagnostic events
error	(Optional) Error event-type
info	(Optional) Information event-type

Command Mode

- /exec

show diagnostic ondemand setting

show diagnostic ondemand setting [*__readonly__* <test_iteration_count> <action_on_failure>]

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
ondemand	Show diagnostic on demand information
setting	Show diagnostic on demand settings
<i>__readonly__</i>	(Optional)
<i>test_iteration_count</i>	(Optional) Iteration Count
<i>action_on_failure</i>	(Optional) Action on failure

Command Mode

- /exec

show diagnostic result module

```
show diagnostic result module <module> [ test { <name> | <test-id> } ] [ { detail } ] [ { statistics } ] [
__readonly__ <module_id> <curr_diag_level> <module_name> [ <bootup_diag_level> ] [ { TABLE_TestStat
<stat_testid> <stat_testname> { TABLE_StatDetail <port_no> <packet_tx> <packet_rx> <packet_loss> } }
] [ { TABLE_Test <test_id> <testname> [ <testresult> ] [ { <passed_ports> <failed_ports> <incomplete_ports>
<untested_ports> <aborted_ports> <err_disabled_ports> } ] [ { <err_code> <total_run_count>
<last_execution_time> <first_failure_time> <last_failure_time> <last_pass_time> <total_fail_count>
<consecutive_fail_count> <last_fail_reason> <next_execution_time> } ] ] ] ]
```

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
result	Show diagnostic test result
module	Module keyword
<i>module</i>	Module number
test	(Optional) Diagnostic test selection
<i>test-id</i>	(Optional)
<i>name</i>	(Optional) Test name
detail	(Optional) Detailed result
statistics	(Optional) Result statistics
<i>__readonly__</i>	(Optional)
<i>module_id</i>	(Optional) Module ID
<i>curr_diag_level</i>	(Optional) Current diag level
<i>module_name</i>	(Optional) Module name
<i>bootup_diag_level</i>	(Optional) Diagnostic level at bootup
TABLE_TestStat	(Optional) Statistics table
<i>stat_testid</i>	(Optional) Test id
<i>stat_testname</i>	(Optional) Test name
TABLE_StatDetail	(Optional) Table stats detail
<i>port_no</i>	(Optional) Port Number
<i>packet_tx</i>	(Optional) Packet Tx
<i>packet_rx</i>	(Optional) Packet Rx

<i>packet_loss</i>	(Optional) Packet lost
TABLE_Test	(Optional) Table of tests in module
<i>test_id</i>	(Optional) Test id of tests
<i>testname</i>	(Optional) Test name
<i>testresult</i>	(Optional) Test Results
<i>passed_ports</i>	(Optional) List passed ports
<i>failed_ports</i>	(Optional) List failed ports
<i>incomplete_ports</i>	(Optional) List of Incompletely tested ports
<i>untested_ports</i>	(Optional) List of untested ports
<i>aborted_ports</i>	(Optional) List of aborted ports
<i>err_disabled_ports</i>	(Optional) List error disabled ports
<i>err_code</i>	(Optional) Error code
<i>total_run_count</i>	(Optional) Total run count
<i>last_execution_time</i>	(Optional) Last execution time
<i>first_failure_time</i>	(Optional) First test failure time
<i>last_failure_time</i>	(Optional) Last test failure time
<i>last_pass_time</i>	(Optional) Last test pass time
<i>total_fail_count</i>	(Optional) Total fail count
<i>consecutive_fail_count</i>	(Optional) Consecutive failure count
<i>last_fail_reason</i>	(Optional) Last failure reason
<i>next_execution_time</i>	(Optional) Next test execution time

Command Mode

- /exec

show diagnostic result module all

```
show diagnostic result module all [ detail ] [ __readonly__ { TABLE_Module <module_id> <curr_diag_level>
<module_name> [ <bootup_diag_level> ] { TABLE_Test <test_id> <testname> [ <testresult> ] [ {
<passed_ports> <failed_ports> <incomplete_ports> <untested_ports> <aborted_ports> <err_disabled_ports>
} ] [ { <err_code> <total_run_count> <last_execution_time> <first_failure_time> <last_failure_time>
<last_pass_time> <total_fail_count> <consecutive_fail_count> <last_fail_reason> <next_execution_time>
} ] } ] }
```

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
result	Show diagnostic test result
module	Module keyword
all	Select all test ID
detail	(Optional) Detailed result
__readonly__	(Optional)
TABLE_Module	(Optional) Table of modules
<i>module_id</i>	(Optional) Module ID
<i>curr_diag_level</i>	(Optional) Current diag level
<i>module_name</i>	(Optional) Module name
<i>bootup_diag_level</i>	(Optional) Diagnostic level at bootup
TABLE_Test	(Optional) Table of tests in module
<i>test_id</i>	(Optional) Test id of tests
<i>testname</i>	(Optional) Test name
<i>testresult</i>	(Optional) Test Results
<i>passed_ports</i>	(Optional) List passed ports
<i>failed_ports</i>	(Optional) List failed ports
<i>incomplete_ports</i>	(Optional) List of Imcompletly tested ports
<i>untested_ports</i>	(Optional) List of untested ports
<i>aborted_ports</i>	(Optional) List of aborted ports
<i>err_disabled_ports</i>	(Optional) List error disabled ports

<i>err_code</i>	(Optional) Error code
<i>total_run_count</i>	(Optional) Total run count
<i>last_execution_time</i>	(Optional) Last execution time
<i>first_failure_time</i>	(Optional) First test failure time
<i>last_failure_time</i>	(Optional) Last test failure time
<i>last_pass_time</i>	(Optional) Last test pass time
<i>total_fail_count</i>	(Optional) Total fail count
<i>consecutive_fail_count</i>	(Optional) Consecutive failure count
<i>last_fail_reason</i>	(Optional) Last failure reason
<i>next_execution_time</i>	(Optional) Next test execution time

Command Mode

- /exec

show diagnostic simulation module

```
show diagnostic simulation module <module> [ __readonly__ <module_id> <module_name> [ { TABLE_detail
<serial_no> <testid> [ <portid> ] <mode> } ] ]
```

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
simulation	Simulating Diagnostic result
module	Module keyword
<i>module</i>	Module Number
<i>__readonly__</i>	(Optional)
<i>module_id</i>	(Optional) Module ID
<i>module_name</i>	(Optional) Module Name
TABLE_detail	(Optional) Table of simulation details
<i>serial_no</i>	(Optional) serial no
<i>testid</i>	(Optional) Test id
<i>portid</i>	(Optional) Port id
<i>mode</i>	(Optional) Simulation mode

Command Mode

- /exec

show diagnostic status module

```
show diagnostic status module <module> [ __readonly__ <test_runby_mapping> <module_id> <module_name>
{ TABLE_current <cur_test_name> <cur_run_by> } { TABLE_enqueued <enq_test_name> <enq_run_by> }
]
```

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
status	Show test status(running/enqueued)
module	Module keyword
<i>module</i>	Module number
<i>__readonly__</i>	(Optional)
<i>test_runby_mapping</i>	(Optional) Test type expansion
<i>module_id</i>	(Optional) Module Id
<i>module_name</i>	(Optional) Module name
TABLE_current	(Optional) Table of currently running test
<i>cur_test_name</i>	(Optional) Currently running test
<i>cur_run_by</i>	(Optional) Test Run By
TABLE_enqueued	(Optional) Table of enqueued tests
<i>enq_test_name</i>	(Optional) Enqueued test name
<i>enq_run_by</i>	(Optional) Test enqueued by

Command Mode

- /exec

show diff rollback-patch

```
show diff rollback-patch { src-checkpoint <chkpoint_name> | src-running-cfg | src-startup-cfg | src-file
<srcfile_uri> } { dst-checkpoint <chkpoint_name> | dst-running-cfg | dst-startup-cfg | dst-file <dstfile_uri>
} [ __readonly__ [ <patch_entry> ] + ]
```

Syntax Description

show	Show running system information
diff	Show diff between configuration files or checkpoints
rollback-patch	Show rollback patch between configuration files or checkpoints
src-checkpoint	Use checkpoint as source configuration
<i>chkpoint_name</i>	Checkpoint name
src-running-cfg	Use running configuration as source
src-startup-cfg	Use startup configuration as source
src-file	Src Checkpoint file
<i>srcfile_uri</i>	Src Checkpoint file path
dst-checkpoint	Use checkpoint as destination configuration
<i>chkpoint_name</i>	Checkpoint name
dst-running-cfg	Use running configuration as destination
dst-startup-cfg	Use startup configuration as destination
dst-file	Dst Checkpoint file
<i>dstfile_uri</i>	Src Checkpoint file path
<i>__readonly__</i>	(Optional) Read only
<i>patch_entry</i>	(Optional) rollback patch entry

Command Mode

- /exec

show dot1q-tunnel

show dot1q-tunnel [__readonly__ TABLE_interface <interface>]

Syntax Description

show	Show running system information
dot1q-tunnel	Show if port mode is dot1q-tunnel
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface

Command Mode

- /exec

show dot1q-tunnel interface

```
show dot1q-tunnel interface <ifid_eth_dot1q_tunnel> [ __readonly__ TABLE_interface <interface> ]
```

Syntax Description

show	Show running system information
dot1q-tunnel	Show if port mode is dot1q-tunnel
interface	Show interface status and information
<i>ifid_eth_dot1q_tunnel</i>	Enter interface type and number in module/slot format
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface

Command Mode

- /exec

show dot1x

show dot1x [*__readonly__* <sys_auth_ctrl> <proto_ver>]

Syntax Description

dot1x	dot1x configuration commands
<i>__readonly__</i>	(Optional)
<i>sys_auth_ctrl</i>	(Optional) show system auth control
<i>proto_ver</i>	(Optional) show protocol version

Command Mode

- /exec

show dot1x all

```
show dot1x all [ __readonly__ <sys_auth_ctrl> <proto_ver> TABLE_all <if_index> TABLE_allpae <pae_type>
[ <port_control> ] [ <host_mode> ] [ <reauth> ] [ <quiet_period> ] [ <server_timeout> ] [ <supp_timeout> ]
[ <reauth_period> ] [ <reauth_max> ] [ <max_req> ] [ <tx_period> ] [ <rate_limit_period> ] [
<mac_auth_bypass> ] [ <reauth_server> ] [ <start_period> ] [ <auth_period> ] [ <held_period> ] [ <max_start>
]]
```

Syntax Description

dot1x	dot1x configuration commands
all	Show information for all interfaces
<i>__readonly__</i>	(Optional)
TABLE_all	(Optional)
TABLE_allpae	(Optional)
<i>if_index</i>	(Optional) Interface Index
<i>sys_auth_ctrl</i>	(Optional) Show System Auth Control
<i>proto_ver</i>	(Optional) Show Protocol Version
<i>pae_type</i>	(Optional) Show PAE Type
<i>port_control</i>	(Optional) Show Port Control
<i>host_mode</i>	(Optional) Show Host Mode
<i>reauth</i>	(Optional) Show Reauth Enabled Status
<i>quiet_period</i>	(Optional) Show Quiet Period
<i>server_timeout</i>	(Optional) Show Server Timeout
<i>supp_timeout</i>	(Optional) Show Supp Timeout
<i>reauth_period</i>	(Optional) Show Reauth Period
<i>reauth_max</i>	(Optional) Show Reauth Max
<i>max_req</i>	(Optional) Show Max Req
<i>tx_period</i>	(Optional) Show Tx Period
<i>rate_limit_period</i>	(Optional) Show Rate Limit Period
<i>reauth_server</i>	(Optional) Show Reauth Server Enabled Status
<i>mac_auth_bypass</i>	(Optional) Show MAC Auth Bypass Enabled Status
<i>start_period</i>	(Optional) Show Supplicant Start Period

<i>auth_period</i>	(Optional) Show Supplicant Auth Period
<i>held_period</i>	(Optional) Show Supplicant Held Period
<i>max_start</i>	(Optional) Show Supplicant Max Start

Command Mode

- /exec

show dot1x all details

```
show dot1x all details [ __readonly__ <sys_auth_ctrl> <proto_ver> TABLE_alldetail <if_index>
TABLE_allpaedetail <pae_type> [ <port_control> ] [ <host_mode> ] [ <reauth> ] [ <quiet_period> ] [
<server_timeout> ] [ <supp_timeout> ] [ <reauth_period> ] [ <reauth_max> ] [ <max_req> ] [ <tx_period>
] [ <rate_limit_period> ] [ <mac_auth_bypass> ] [ <reauth_server> ] [ <no_of_clients> ] [ <supp_mac_addr>
] [ <auth_sm_state> ] [ <auth_bend_sm_state> ] [ <port_status> ] [ <authentication_method> ] [
<authenticated_by> ] [ <reauth_action> ] [ <time_to_next_reauth> ] [ <start_period> ] [ <auth_period> ] [
<held_period> ] [ <max_start> ] [ <no_of_supp_clients> ] [ <auth_mac_addr> ] [ <supp_sm_state> ] [
<supp_bend_sm_state> ] [ <supp_port_status> ] ]
```

Syntax Description

dot1x	dot1x configuration commands
all	Show information for all interfaces
details	802.1x details
<i>__readonly__</i>	(Optional)
TABLE_alldetail	(Optional)
TABLE_allpaedetail	(Optional)
<i>if_index</i>	(Optional) Interface Index
<i>sys_auth_ctrl</i>	(Optional) Show System Auth Control
<i>proto_ver</i>	(Optional) Show Protocol Version
<i>pae_type</i>	(Optional) Show PAE Type
<i>port_control</i>	(Optional) Show Port Control
<i>host_mode</i>	(Optional) Show Host Mode
<i>reauth</i>	(Optional) Show Reauth Enabled Status
<i>quiet_period</i>	(Optional) Show Quiet Period
<i>server_timeout</i>	(Optional) Show Server Timeout
<i>supp_timeout</i>	(Optional) Show Supp Timeout
<i>reauth_period</i>	(Optional) Show Reauth Period
<i>reauth_max</i>	(Optional) Show Reauth Max
<i>max_req</i>	(Optional) Show Max Req
<i>tx_period</i>	(Optional) Show Tx Period
<i>rate_limit_period</i>	(Optional) Show Rate Limit Period

<i>reauth_server</i>	(Optional) Show Reauth Server Enabled Status
<i>mac_auth_bypass</i>	(Optional) Show MAC Auth Bypass Enabled Status
<i>no_of_clients</i>	(Optional) Show Supplicant Clients
<i>supp_mac_addr</i>	(Optional) Show Supplicant MAC Address
<i>auth_sm_state</i>	(Optional) Show Authenticator SM State
<i>auth_bend_sm_state</i>	(Optional) Show Authenticator Backend State
<i>port_status</i>	(Optional) Show Port Status
<i>authentication_method</i>	(Optional) show authentication method
<i>authenticated_by</i>	(Optional) show authenticated by
<i>reauth_action</i>	(Optional) Show Reauthentication Action
<i>time_to_next_reauth</i>	(Optional) Show Time to Next Reauth
<i>start_period</i>	(Optional) Show Supplicant Start Period
<i>auth_period</i>	(Optional) Show Supplicant Auth Period
<i>held_period</i>	(Optional) Show Supplicant Held Period
<i>max_start</i>	(Optional) Show Supplicant Max Start
<i>no_of_supp_clients</i>	(Optional) Show Supplicant Clients
<i>auth_mac_addr</i>	(Optional) Show Authenticator MAC Address
<i>supp_sm_state</i>	(Optional) Show Supplicant SM State
<i>supp_bend_sm_state</i>	(Optional) Show Supplicant Backend SM State
<i>supp_port_status</i>	(Optional) Show Supplicant Port Status

Command Mode

- /exec

show dot1x all statistics

```
show dot1x all statistics [ __readonly__ TABLE_allstat <if_index> TABLE_allpaestat <pae_type> [ <rxstart>
] [ <rxlogoff> ] [ <rxresp> ] [ <rxrespid> ] [ <rxinvalid> ] [ <rxlenerr> ] [ <rxtotal> ] [ <txreq> ] [ <txreqid>
] [ <txtotal> ] [ <rxversion> ] [ <lastrxsourcemac> ] [ <rxreq> ] [ <rxreqid> ] [ <rxsuppinvalid> ] [
<rxsupplenerr> ] [ <rxsupptotal> ] [ <txstart> ] [ <txlogoff> ] [ <txresp> ] [ <txrespid> ] [ <txsupptotal> ] [
<rxsuppversion> ] [ <lastrxsrmac> ] ]
```

Syntax Description

dot1x	dot1x configuration commands
all	Show information for all interfaces
statistics	802.1x statistics
__readonly__	(Optional)
TABLE_allstat	(Optional)
TABLE_allpaestat	(Optional)
<i>if_index</i>	(Optional) Interface Index
<i>pae_type</i>	(Optional) Show PAE Type
<i>rxstart</i>	(Optional) Show Received EAPOL-Start
<i>rxlogoff</i>	(Optional) Show Received EAPOL-Logoff
<i>rxresp</i>	(Optional) Show Received EAP-Response
<i>rxrespid</i>	(Optional) Show Received EAP-ResponseID
<i>rxinvalid</i>	(Optional) Show Received Invalid EAPOL Frame
<i>rxlenerr</i>	(Optional) Show Received EAPOL Bad Length Frame
<i>rxtotal</i>	(Optional) Show Received Total EAPOL Frame
<i>txreq</i>	(Optional) Show Transmitted EAP-Request
<i>txreqid</i>	(Optional) Show Transmitted EAP-RequestID
<i>txtotal</i>	(Optional) Show Transmitted Total EAPOL Frame
<i>rxversion</i>	(Optional) Show Received EAPOL Version
<i>lastrxsourcemac</i>	(Optional) Show Last Source MAC
<i>rxreq</i>	(Optional) Show Received EAP-Request
<i>rxreqid</i>	(Optional) Show Received EAP-RequestID
<i>rxsuppinvalid</i>	(Optional) Show received Invalid EAPOL Frame

<i>rxsupplennerr</i>	(Optional) Show received EAPOL Bad Length Frame
<i>rxsupptotal</i>	(Optional) Show Received Total EAPOL Frame
<i>txstart</i>	(Optional) Show transmitted EAPOL-Start
<i>txlogoff</i>	(Optional) Show transmitted EAPOL-Logoff
<i>txresp</i>	(Optional) Show transmitted EAP-Response
<i>txrespid</i>	(Optional) Show transmitted EAP-ResponseID
<i>txsupptotal</i>	(Optional) Show transmitted Total EAPOL Frame
<i>rxsuppverson</i>	(Optional) Show Received EAPOL Version
<i>lastrxsourcemac</i>	(Optional) Show Last Source MAC received

Command Mode

- /exec

show dot1x all summary

```
show dot1x all summary [ __readonly__ TABLE_allsummary <if_index> TABLE_allpaesummary <pae_type>
[ <auth_mac_addr> ] [ <port_status> ] [ <supp_mac_addr> ] [ <supp_port_status> ] ]
```

Syntax Description

dot1x	dot1x configuration commands
all	Show information for all interfaces
summary	802.1x summary
<i>__readonly__</i>	(Optional)
<i>TABLE_allsummary</i>	(Optional)
<i>TABLE_allpaesummary</i>	(Optional)
<i>if_index</i>	(Optional) Interface Index
<i>pae_type</i>	(Optional) Show PAE Type
<i>auth_mac_addr</i>	(Optional) Show Authenticated MAC Address
<i>supp_mac_addr</i>	(Optional) Show Authenticator MAC Address
<i>port_status</i>	(Optional) Show Port Status
<i>supp_port_status</i>	(Optional) Show Supplicant Port Status

Command Mode

- /exec

show dot1x interface

```
{ show dot1x interface <if> [ __readonly__ <if_index> <pae_type> [ <port_control> ] [ <host_mode> ] [
<reauth> ] [ <quiet_period> ] [ <server_timeout> ] [ <supp_timeout> ] [ <reauth_period> ] [ <reauth_max>
] [ <max_req> ] [ <tx_period> ] [ <rate_limit_period> ] [ <mac_auth_bypass> ] [ <reauth_server> ] [
<start_period> ] [ <auth_period> ] [ <held_period> ] [ <max_start> ] ] } { show dot1x interface <if> details
[ __readonly__ <if_index_detail> <pae_type_detail> [ <port_control_detail> ] [ <host_mode_detail> ] [
<reauth_detail> ] [ <quiet_period_detail> ] [ <server_timeout_detail> ] [ <supp_timeout_detail> ] [
<reauth_period_detail> ] [ <reauth_max_detail> ] [ <max_req_detail> ] [ <tx_period_detail> ] [
<rate_limit_period_detail> ] [ <mac_auth_bypass_detail> ] [ <reauth_server_detail> ] [ <no_of_clients> ] [
<supp_mac_addr> ] [ <auth_sm_state> ] [ <auth_bend_sm_state> ] [ <port_status> ] [ <authentication_method>
] [ <authenticated_by> ] [ <reauth_action> ] [ <time_to_next_reauth> ] [ <start_period_detail> ] [
<auth_period_detail> ] [ <held_period_detail> ] [ <max_start_detail> ] [ <no_of_supp_clients> ] [
<auth_mac_addr> ] [ <supp_sm_state> ] [ <supp_bend_sm_state> ] [ <supp_port_status> ] ] } | { show dot1x
interface <if> statistics [ __readonly__ <if_index_stat> <pae_type_stat> [ <rxstart> ] [ <rxlogoff> ] [ <rxresp>
] [ <rxrespid> ] [ <rxinvalid> ] [ <rxlennerr> ] [ <rxtotal> ] [ <txreq> ] [ <txreqid> ] [ <txttotal> ] [ <rxversion>
] [ <lastrxsourcema> ] [ <rxreq> ] [ <rxreqid> ] [ <rxsuppinvalid> ] [ <rxsupplennerr> ] [ <rxsupptotal> ] [
<txstart> ] [ <txlogoff> ] [ <txresp> ] [ <txrespid> ] [ <txsupptotal> ] [ <rxsuppversion> ] [ <lastrxsrmac>
] ] } | { show dot1x interface <if> summary [ __readonly__ <if_index_summary> <pae_type_summary> [
<port_status_summary> ] [ <auth_mac_addr> ] [ <supp_port_status_summary> ] [ <supp_mac_addr> ] ] }
```

Syntax Description

dot1x	dot1x configuration commands
<i>if</i>	
details	802.1x details
statistics	802.1x statistics
summary	802.1x summary
<i>__readonly__</i>	(Optional)
<i>if_index</i>	(Optional) Interface Index
<i>if_index_detail</i>	(Optional) Interface Index
<i>if_index_stat</i>	(Optional) Interface Index
<i>if_index_summary</i>	(Optional) Interface Index
<i>pae_type</i>	(Optional) Show PAE Type
<i>port_control</i>	(Optional) Show Port Control
<i>host_mode</i>	(Optional) Show Host Mode
<i>reauth</i>	(Optional) Show Reauth Enabled Status
<i>quiet_period</i>	(Optional) Show Quiet Period

<i>server_timeout</i>	(Optional) Show Server Timeout
<i>supp_timeout</i>	(Optional) Show Supp Timeout
<i>reauth_period</i>	(Optional) Show Reauth Period
<i>reauth_max</i>	(Optional) Show Reauth Max
<i>max_req</i>	(Optional) Show Max Req
<i>tx_period</i>	(Optional) Show Tx Period
<i>rate_limit_period</i>	(Optional) Show Rate Limit Period
<i>reauth_server</i>	(Optional) Show Reauth Server Enabled Status
<i>mac_auth_bypass</i>	(Optional) Show MAC Auth Bypass Enabled Status
<i>pae_type_detail</i>	(Optional) Show PAE Type
<i>port_control_detail</i>	(Optional) Show Port Control
<i>host_mode_detail</i>	(Optional) Show Host Mode
<i>reauth_detail</i>	(Optional) Show Reauth Enabled Status
<i>quiet_period_detail</i>	(Optional) Show Quiet Period
<i>server_timeout_detail</i>	(Optional) Show Server Timeout
<i>supp_timeout_detail</i>	(Optional) Show Supp Timeout
<i>reauth_period_detail</i>	(Optional) Show Reauth Period
<i>reauth_max_detail</i>	(Optional) Show Reauth Max
<i>max_req_detail</i>	(Optional) Show Max Req
<i>tx_period_detail</i>	(Optional) Show Tx Period
<i>rate_limit_period_detail</i>	(Optional) Show Rate Limit Period
<i>reauth_server_detail</i>	(Optional) Show Reauth Server Enabled Status
<i>mac_auth_bypass_detail</i>	(Optional) Show MAC Auth Bypass Enabled Status
<i>no_of_clients</i>	(Optional) Show Supplicant Clients
<i>supp_mac_addr</i>	(Optional) Show Supplicant MAC Address
<i>auth_sm_state</i>	(Optional) Show Authenticator SM State
<i>auth_bend_sm_state</i>	(Optional) Show Authenticator Backend State
<i>port_status</i>	(Optional) Show Port Status
<i>authentication_method</i>	(Optional) show authentication method

<i>authenticated_by</i>	(Optional) show authenticated by
<i>reauth_action</i>	(Optional) Show Reauthentication Action
<i>time_to_next_reauth</i>	(Optional) Show Time to Next Reauth
<i>pae_type_stat</i>	(Optional) Show PAE Type
<i>rxstart</i>	(Optional) Show Received EAPOL-Start
<i>rxlogoff</i>	(Optional) Show Received EAPOL-Logoff
<i>rxresp</i>	(Optional) Show Received EAP-Response
<i>rxrespid</i>	(Optional) Show Received EAP-ResponseID
<i>rxinvalid</i>	(Optional) Show Received Invalid EAPOL Frame
<i>rxlenerr</i>	(Optional) Show Received EAPOL Bad Length Frame
<i>rxtotal</i>	(Optional) Show Received Total EAPOL Frame
<i>txreq</i>	(Optional) Show Transmitted EAP-Request
<i>txreqid</i>	(Optional) Show Transmitted EAP-RequestID
<i>txtotal</i>	(Optional) Show Transmitted Total EAPOL Frame
<i>rxversion</i>	(Optional) Show Received EAPOL Version
<i>lastrxsourcemac</i>	(Optional) Show Last Source MAC
<i>pae_type_summary</i>	(Optional) Show PAE Type
<i>port_status_summary</i>	(Optional) Show Port Status
<i>supp_port_status_summary</i>	(Optional) Show Port Status
<i>start_period</i>	(Optional) Show Supplicant Start Period
<i>auth_period</i>	(Optional) Show Supplicant Auth Period
<i>held_period</i>	(Optional) Show Supplicant Held Period
<i>max_start</i>	(Optional) Show Supplicant Max Start
<i>start_period_detail</i>	(Optional) Show Supplicant Start Period
<i>auth_period_detail</i>	(Optional) Show Supplicant Auth Period
<i>held_period_detail</i>	(Optional) Show Supplicant Held Period
<i>max_start_detail</i>	(Optional) Show Supplicant Max Start
<i>no_of_supp_clients</i>	(Optional) Show Supplicant Clients
<i>auth_mac_addr</i>	(Optional) Show Authenticator MAC Address

<i>supp_mac_addr</i>	(Optional) Show Supplicant Client MAC Address
<i>supp_sm_state</i>	(Optional) Show Supplicant SM State
<i>supp_bend_sm_state</i>	(Optional) Show Supplicant Backend SM State
<i>supp_port_status</i>	(Optional) Show Supplicant Port Status
<i>rxreq</i>	(Optional) Show Received EAP-Request
<i>rxreqid</i>	(Optional) Show Received EAP-RequestID
<i>rxsuppinvalid</i>	(Optional) Show received Invalid EAPOL Frame
<i>rxsupplenerr</i>	(Optional) Show received EAPOL Bad Length Frame
<i>rxsupptotal</i>	(Optional) Show Received Total EAPOL Frame
<i>txstart</i>	(Optional) Show transmitted EAPOL-Start
<i>txlogoff</i>	(Optional) Show transmitted EAPOL-Logoff
<i>txresp</i>	(Optional) Show transmitted EAP-Response
<i>txrespid</i>	(Optional) Show transmitted EAP-ResponseID
<i>txsupptotal</i>	(Optional) Show transmitted Total EAPOL Frame
<i>rxsuppversion</i>	(Optional) Show Received EAPOL Version
<i>lastrxsremac</i>	(Optional) Show Last Source MAC received

Command Mode

- /exec

show dot1x supplicant

show dot1x supplicant

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant

Command Mode

- /exec

show dot1x supplicant interface

{ show dot1x supplicant interface <if> } | { show dot1x supplicant interface <if> details } | { show dot1x supplicant interface <if> summary } | { show dot1x supplicant interface <if> statistics }

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant
<i>if</i>	
details	802.1x details
statistics	802.1x statistics
summary	802.1x summary

Command Mode

- /exec

■ `show dot1x supplicant interface`



E Commands

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show email

```
show email [ __readonly__ [ <ipv4> ] [ <ipv6> ] [ <host> ] [ <port> ] [ <reply> ] [ <from> ] [ <vrfname> ] ]
```

Syntax Description

show	Show running system information
email	Pipe email configuration
__readonly__	(Optional)
<i>ipv4</i>	(Optional)
<i>host</i>	(Optional)
<i>port</i>	(Optional)
<i>reply</i>	(Optional)
<i>from</i>	(Optional)
<i>vrfname</i>	(Optional)

Command Mode

- /exec

show encryption service stat

```
show encryption service stat [ __readonly__ [ <encryptionService> <MasterKeyEncryption>
<Type6Encryption> ] ]
```

Syntax Description

show	Show running system information
encryption	Encryption service
service	Encryption service
stat	Encryptpin service status
<i>__readonly__</i>	(Optional)
<i>encryptionService</i>	(Optional) Encryption service status
<i>MasterKeyEncryption</i>	(Optional) Master key status
<i>Type6Encryption</i>	(Optional) Is type 6 encryption used?

Command Mode

- /exec

show environment

```
show environment [ fan [ detail1 ] | power [ detail ] [ ampere ] [ input ] | temperature [ module <module> |
<s0> <santa-cruz-range> | psu ] ] [ __readonly__ { TABLE_clockinfo <clockname> <clkmodel> <clkhwver>
<clkstatus> <act_standby> } { fandetails <fan_filter_status> { TABLE_faninfo <fanname> <fanmodel>
<fanhwver> <fandir> <fanstatus> <failfanlet> } { TABLE_fan_zone_speed <zone> <speed> } {
TABLE_fantray <fanname> <fanname> <fanname> <fanname> <fanname> <fanname> } { TABLE_psufan <fanname>
<fan1rpm> <fan2rpm> } } { powersup <voltage_level> { TABLE_psinfo <psnum> <psmodel> <actual_out>
<actual_input> <tot_capa> <ps_status> } { TABLE_mod_pow_info <modnum> <mod_model> <actual_draw>
<allocated> <modstatus> } { power_summary <ps_redun_mode> <ps_oper_mode> <tot_pow_capacity>
<tot_gridA_capacity> <tot_gridB_capacity> <cumulative_power> <tot_pow_out_actual_draw>
<tot_pow_input_actual_draw> <tot_pow_alloc_budgeted> <available_pow> } { powersup_detail <reserve_sup>
<reserve_xbar> <reserve_fan> <reserve_supxbarfan> <pow_used_by_mods> } { TABLE_psinfo_n3k <psnum>
<psmodel> <input_type> <watts> <amps> <ps_status> } { TABLE_mod_pow_info_n3k <modnum>
<mod_model> <watts_requested> <amps_requested> <watts_allocated> <amps_allocated> <modstatus> } {
TABLE_psinputinfo_n3k <ps_slot> <ps_input_voltage> <ps_input_current> <ps_in_power>
<ps_output_voltage> <ps_output_current> <ps_state> } { power_summary_n3k <ps_redun_mode>
<ps_redun_op_mode> <tot_pow_capacity> <reserve_sup> <pow_used_by_mods> <available_pow> } } {
TABLE_tempinfo <tempmod> <sensor> <majthres> <minthres> <curtemp> <alarmstatus> } {
TABLE_psutempinfo <psumod> <inlet_temp> <outlet_temp> <heatsink_temp> } ]
```

Syntax Description

show	Show running system information
environment	system environment information
fan	(Optional) Fan information
power	(Optional) Power capacity and power distribution information
detail	(Optional) Detail Fan-tray information when used with Fan. Detail Power capacity and power distribution information when used with Power
detail1	(Optional) Detail Fan-tray information when used with Fan
ampere	(Optional) Ampere Power capacity and power distribution information
input	(Optional) Power supply power input
temperature	(Optional) temperature sensor information
module	(Optional) enter a module number
<i>module</i>	(Optional) please enter the module number
<i>s0</i>	(Optional) xbar
<i>santa-cruz-range</i>	(Optional) please enter the xbar number
psu	(Optional) psu temperature
__readonly__	(Optional)

TABLE_clockinfo	(Optional) Environment Clock
<i>clockname</i>	(Optional) Clock Instance (A or B)
<i>clkmodel</i>	(Optional) Model number of clock
<i>clkhwver</i>	(Optional) Hardware version of the clock
<i>clkstatus</i>	(Optional) Present/Absent Status of the clock
<i>act_standby</i>	(Optional) Active/Standby Status of clock
fanetails	(Optional) Environment Fan
<i>fan_filter_status</i>	(Optional) Present/Absent Status of fan filter
TABLE_faninfo	(Optional) Fan Info
<i>fanname</i>	(Optional) Fan Instance
<i>fanmodel</i>	(Optional) Model number of fan
<i>fanhwver</i>	(Optional) Hardware version of the fan
<i>fandir</i>	(Optional) Air-flow direction of the fan-tray
<i>fanstatus</i>	(Optional) Present/Absent Status of the fan
TABLE_fan_zone_speed	(Optional) Fan Zone Speeds
<i>zone</i>	(Optional) Zone Number
<i>speed</i>	(Optional) Zone Speed
<i>failfanlet</i>	(Optional) failed fanlet number
TABLE_fantray	(Optional) Fan Tray Details table
<i>fanname</i>	(Optional) Fan Tray Instance
<i>fannum</i>	(Optional) Fan number in the tray
<i>fandir</i>	(Optional) Air-flow direction of the fan-tray
<i>fanperc</i>	(Optional) FAN Speed percentage
<i>fanrpm</i>	(Optional) FAN Speed RPM
TABLE_psufan	(Optional) PSU Fan Details table
<i>fanname</i>	(Optional) PSU Fan Instance
<i>fan1rpm</i>	(Optional) FAN1 Speed RPM
<i>fan2rpm</i>	(Optional) FAN2 Speed RPM
powersup	(Optional) Environment Power

<i>voltage_level</i>	(Optional) Voltage Level
TABLE_psinfo	(Optional) Power Supply Info
<i>psnum</i>	(Optional) Power Supply Number
<i>psmodel</i>	(Optional) Power Supply Model
<i>actual_out</i>	(Optional) Actual Output
<i>actual_input</i>	(Optional) Actual Input
<i>tot_capa</i>	(Optional) Total Capacity
<i>ps_status</i>	(Optional) Power Supply Status
TABLE_mod_pow_info	(Optional) Module Power Info
<i>modnum</i>	(Optional) Module number
<i>mod_model</i>	(Optional) Model ProductID number
<i>actual_draw</i>	(Optional) Actual Draw
<i>allocated</i>	(Optional) Power allocated
<i>modstatus</i>	(Optional) Module Status
power_summary	(Optional) Power Usage Summary
<i>ps_redun_mode</i>	(Optional) Mode: Redundant or Non-redundant
<i>ps_oper_mode</i>	(Optional) Operational Mode
<i>tot_pow_capacity</i>	(Optional) Total Power Capacity
<i>tot_gridA_capacity</i>	(Optional) Total Grid-A Capacity
<i>tot_gridB_capacity</i>	(Optional) Total Grid-B Capacity
<i>cumulative_power</i>	(Optional) Total Power of all Inputs
<i>tot_pow_out_actual_draw</i>	(Optional) Total Power Output, Actuals
<i>tot_pow_input_actual_draw</i>	(Optional) Total Power Input, Actuals
<i>tot_pow_alloc_budgeted</i>	(Optional) Total Power Allocated/budgeted
<i>available_pow</i>	(Optional) Remaining Power Available
powersup_detail	(Optional) PowerSupply Details
<i>reserve_sup</i>	(Optional) Power reserved for Supervisors
<i>reserve_xbar</i>	(Optional) Power reserved for Xbars
<i>reserve_fan</i>	(Optional) Power reserved for Fans

<i>reserve_supxbarfan</i>	(Optional) Total Power reserved for Sups,Xbars,Fans
<i>pow_used_by_mods</i>	(Optional) Power currently used by Modules
TABLE_tempinfo	(Optional) Environment Temperature
<i>tempmod</i>	(Optional) Module
<i>sensor</i>	(Optional) Sensor name
<i>majthres</i>	(Optional) Major Threshold
<i>minthres</i>	(Optional) Minor Threshold
<i>curtemp</i>	(Optional) Current temperature
<i>alarmstatus</i>	(Optional) Alarm Status
TABLE_psutempinfo	(Optional) PSU temperature info table
<i>psumod</i>	(Optional) PSU Module
<i>inlet_temp</i>	(Optional) Inlet Temperature
<i>outlet_temp</i>	(Optional) Outlet Temperature
<i>heatsink_temp</i>	(Optional) Heatsink Temperature
TABLE_psinfo_n3k	(Optional) Power Supply Info
<i>psnum</i>	(Optional) Power Supply Number
<i>psmodel</i>	(Optional) Power Supply Model
<i>input_type</i>	(Optional) Power Supply Input Type
<i>watts</i>	(Optional) Power in Watts
<i>amps</i>	(Optional) Power in Amps
<i>ps_status</i>	(Optional) Power Supply Status
TABLE_mod_pow_info_n3k	(Optional) Module Power Info
<i>modnum</i>	(Optional) Module number
<i>mod_model</i>	(Optional) Model ProductID number
<i>watts_requested</i>	(Optional) Power requested in Watts
<i>amps_requested</i>	(Optional) Power requested in Amps
<i>watts_allocated</i>	(Optional) Power allocated in Watts
<i>amps_allocated</i>	(Optional) Power allocated in Amps
<i>modstatus</i>	(Optional) Module Status

<i>TABLE_psinputinfo_n3k</i>	(Optional) Power Supply power input
<i>ps_slot</i>	(Optional) Power Supply Number
<i>ps_input_voltage</i>	(Optional) Power Supply input voltage
<i>ps_input_current</i>	(Optional) Power Supply input current
<i>ps_in_power</i>	(Optional) Power Supply input power
<i>ps_output_voltage</i>	(Optional) Power Supply output voltage
<i>ps_output_current</i>	(Optional) Power Supply output current
<i>ps_state</i>	(Optional) Power Supply status
<i>power_summary_n3k</i>	(Optional) Power Usage Summary
<i>ps_redun_mode</i>	(Optional) Mode: Redundant or Non-redundant
<i>ps_redun_op_mode</i>	(Optional) Operational mode: Redundant or Non-redundant
<i>tot_pow_capacity</i>	(Optional) Total Power Capacity
<i>reserve_sup</i>	(Optional) Power reserved for Supervisors
<i>pow_used_by_mods</i>	(Optional) Power currently used by Modules
<i>available_pow</i>	(Optional) Total Power Available

Command Mode

- /exec

show environment fex

```
show environment fex { all | <i> } [ temperature | power | fan ] [ __readonly__ { fandetails <fan_filter_status>
{ TABLE_faninfo <fanfex> <fanname> <fanmodel> <fanhwver> <fanstatus> } } { powersup <voltage_level>
{ TABLE_psinfo <psfex> <psnum> <psmodel> <watts> <amps> <ps_status> } { TABLE_mod_pow_info
<modfex> <modnum> <mod_model> <watts_requested> <amps_requested> <watts_allocated> <amps_allocated>
<modstatus> } { power_summary <powfex> <ps_redun_mode> <tot_pow_capacity> <reserve_sup>
<pow_used_by_mods> <available_pow> } } { TABLE_tempinfo <tempfex> <tempmod> <sensor> <majthres>
<minthres> <curtemp> <alarmstatus> } ]
```

Syntax Description

show	Show running system information
environment	system environment information
fex	Show fex environment information
all	Show information for all FEX
<i>i</i>	Enter FEX identifier
temperature	(Optional) temperature sensor information
power	(Optional) power capacity and power distribution information
fan	(Optional) Fan information
__readonly__	(Optional)
fandetails	(Optional) Environment Fan
<i>fan_filter_status</i>	(Optional) Present/Absent Status of fan filter
TABLE_faninfo	(Optional) Fan Info
<i>fanfex</i>	(Optional) Fex
<i>fanname</i>	(Optional) Fan Instance
<i>fanmodel</i>	(Optional) Model number of fan
<i>fanhwver</i>	(Optional) Hardware version of the fan
<i>fanstatus</i>	(Optional) Present/Absent Status of the fan
powersup	(Optional) Environment Power
<i>voltage_level</i>	(Optional) Voltage Level
TABLE_psinfo	(Optional) Power Supply Info
<i>psfex</i>	(Optional) Fex
<i>psnum</i>	(Optional) Power Supply Number

<i>psmodel</i>	(Optional) Power Supply Model
<i>watts</i>	(Optional) Power in Watts
<i>amps</i>	(Optional) Power in Amps
<i>ps_status</i>	(Optional) Power Supply Status
TABLE_mod_pow_info	(Optional) Module Power Info
<i>modfex</i>	(Optional) Fex
<i>modnum</i>	(Optional) Module number
<i>mod_model</i>	(Optional) Model ProductID number
<i>watts_requested</i>	(Optional) Power requested in Watts
<i>amps_requested</i>	(Optional) Power requested in Amps
<i>watts_allocated</i>	(Optional) Power allocated in Watts
<i>amps_allocated</i>	(Optional) Power allocated in Amps
<i>modstatus</i>	(Optional) Module Status
<i>power_summary</i>	(Optional) Power Usage Summary
<i>powfex</i>	(Optional) Fex
<i>ps_redun_mode</i>	(Optional) Mode: Redundant or Non-redundant
<i>tot_pow_capacity</i>	(Optional) Total Power Capacity
<i>reserve_sup</i>	(Optional) Power reserved for Supervisors
<i>pow_used_by_mods</i>	(Optional) Power currently used by Modules
<i>available_pow</i>	(Optional) Total Power Available
TABLE_tempinfo	(Optional) Environment Temperature
<i>tempfex</i>	(Optional) Fex
<i>tempmod</i>	(Optional) Module
<i>sensor</i>	(Optional) Sensor name
<i>majthres</i>	(Optional) Major Threshold
<i>minthres</i>	(Optional) Minor Threshold
<i>curtemp</i>	(Optional) Current temperature
<i>alarmstatus</i>	(Optional) Alarm Status

Command Mode

- /exec

show eol status

show eol status

Syntax Description

show	Show running system information
eol	last
status	

Command Mode

- /exec

show errdisable detect

```
show errdisable { detect | recovery } [ __readonly__ TABLE_errdisable <cause> <state> [ <time_interval> ] ]
```

Syntax Description

show	Show running system information
errdisable	Error disable
detect	Show errdisable detect
recovery	Show errdisable recovery
__readonly__	(Optional) Read Only
TABLE_errdisable	(Optional) show errdisable
<i>cause</i>	(Optional) errdisable cause
<i>state</i>	(Optional) Interface state
<i>time_interval</i>	(Optional) err recovery time interval

Command Mode

- /exec

show errdisable flap

show errdisable flap

Syntax Description

show	Show running system information
errdisable	Error disable
flap	linkstate flapping

Command Mode

- /exec

show evb

```
show evb [ __readonly__ <evb_role> <evb_vdp_mac> [ <evb_cisco_mac> ] [ <evb_user_mac> ] <evb_rwd>
<evb_rka> <evb_cnt_recv_vdpdu> <evb_cnt_drop_vdpdu> <evb_cnt_recv_tlv> <evb_cnt_recv_mgr_tlv>
<evb_cnt_recv_assoc_tlv> <evb_cnt_recv_cmd> ]
```

Syntax Description

show	Show running system information
evb	EVb (Edge Virtual Bridge)
<i>__readonly__</i>	(Optional)
<i>evb_role</i>	(Optional) EVb role
<i>evb_vdp_mac</i>	(Optional) VDP Mac address
<i>evb_cisco_mac</i>	(Optional) Cisco Mac address
<i>evb_user_mac</i>	(Optional) User mac address
<i>evb_rwd</i>	(Optional) Resource wait init exponent
<i>evb_rka</i>	(Optional) Keep-alive init exponent
<i>evb_cnt_recv_vdpdu</i>	(Optional) No. received vdpdu
<i>evb_cnt_drop_vdpdu</i>	(Optional) No. dropped vdpdu
<i>evb_cnt_recv_tlv</i>	(Optional) No. received tlv
<i>evb_cnt_recv_mgr_tlv</i>	(Optional) No. received mgr tlv
<i>evb_cnt_recv_assoc_tlv</i>	(Optional) No. received assoc tlv
<i>evb_cnt_recv_cmd</i>	(Optional) No. received commands

Command Mode

- /exec

TABLE_evb_host	(Optional) EVB host table
<i>host_row_id</i>	(Optional) Host row id
<i>host_name</i>	(Optional) Host name
<i>host_uuid</i>	(Optional) Host uuid
TABLE_evb_vsi	(Optional) EVB vsi table
<i>vsi_row_id</i>	(Optional) VSI row id
<i>mgr_id</i>	(Optional) Manager id
<i>vsi_id</i>	(Optional) VSI id
<i>vsi_host_name</i>	(Optional) Host name
<i>interface</i>	(Optional) Interface
<i>vpc</i>	(Optional) VPC
<i>s_channel</i>	(Optional) S-Channel
<i>station_mac</i>	(Optional) Station mac address
<i>profile_id</i>	(Optional) Profile id
<i>m_state</i>	(Optional) Machine state
<i>e_state</i>	(Optional) Entry state
<i>reason</i>	(Optional) State reason
<i>timer</i>	(Optional) Countdown timer
TABLE_evb_vsi_filter	(Optional) EVB filter table
<i>filter_row_id</i>	(Optional) Filter row id
<i>filter_group</i>	(Optional) Group id
<i>filter_vid</i>	(Optional) Vlan id
<i>filter_bd</i>	(Optional) Bridge-domain id
<i>filter_mac</i>	(Optional) Mac address
<i>filter_ip</i>	(Optional) IP address

Command Mode

- /exec

show evb interface

show evb interface [<intf-name>]

Syntax Description

show	Show running system information
evb	EVB (Edge Virtual Bridge)
interface	Display interface information
<i>intf-name</i>	(Optional) Interface name

Command Mode

- /exec

show evb vsi

```
show evb vsi [ { summary | detail | internal-info } ] [ { [ mac <mac-addr> | interface <intf-name> | vlan
<vlan-id> | vni <vni-id> | ip <ip-addr> | ipv6 <ipv6-addr> ] + } ] [ __readonly__ <evb_cnt_vsi>
<evb_cnt_assoc_vsi> [ { TABLE_evb_vsi <vsi_row_id> <mgr_id> <vsi_id> [ <vsi_host_name> ] <interface>
[ <vpc> ] [ <s_channel> ] [ <station_mac> ] [ <m_state> ] [ <e_state> ] [ <reason> ] [ <timer> ] [ <profile_id>
] [ { TABLE_evb_vsi_filter <filter_row_id> [ <filter_group> ] [ <filter_vid> ] [ <filter_bd> ] [ <filter_mac>
] [ <filter_ip> ] } } ] ] ]
```

Syntax Description

show	Show running system information
evb	EVB (Edge Virtual Bridge)
vsi	Virtual Station Interface (VSI) information
summary	(Optional) Display summary information
detail	(Optional) Display detailed information
internal-info	(Optional) Display detailed and internal information
mac	(Optional) Display VSI by MAC address
<i>mac-addr</i>	(Optional) MAC Address
interface	(Optional) Display VSI by interface
<i>intf-name</i>	(Optional) Interface name
vlan	(Optional) Display VSI by VLAN
<i>vlan-id</i>	(Optional) VLAN ID
vni	(Optional) Display VSI by Virtual Network Identifier
<i>vni-id</i>	(Optional) VNI
ip	(Optional) Display VSI by IP address
ipv6	(Optional) Display VSI by IPv6 address
<i>ip-addr</i>	(Optional) IP address
<i>__readonly__</i>	(Optional)
<i>evb_cnt_vsi</i>	(Optional) No. VSI entries
<i>evb_cnt_assoc_vsi</i>	(Optional) No. associated VSI entries
TABLE_evb_vsi	(Optional) EVB vsi table
<i>vsi_row_id</i>	(Optional) VSI row id

<i>mgr_id</i>	(Optional) Manager id
<i>vsi_id</i>	(Optional) VSI id
<i>vsi_host_name</i>	(Optional) Host name
<i>interface</i>	(Optional) Interface
<i>vpc</i>	(Optional) VPC
<i>s_channel</i>	(Optional) S-Channel
<i>station_mac</i>	(Optional) Station mac address
<i>profile_id</i>	(Optional) Profile id
<i>m_state</i>	(Optional) Machine state
<i>e_state</i>	(Optional) Entry state
<i>reason</i>	(Optional) State reason
<i>timer</i>	(Optional) Countdown timer
TABLE_evb_vsi_filter	(Optional) EVB filter table
<i>filter_row_id</i>	(Optional) Filter row id
<i>filter_group</i>	(Optional) Group id
<i>filter_vid</i>	(Optional) Vlan id
<i>filter_bd</i>	(Optional) Bridge-domain id
<i>filter_mac</i>	(Optional) Mac address
<i>filter_ip</i>	(Optional) IP address

Command Mode

- /exec

show event-history

show event-history

Syntax Description

show	Show running system information
event-history	show switch wide event history configuration

Command Mode

- /exec

show event-history xbar

show event-history xbar

Syntax Description

show	Show running system information
event-history	show switch wide event history configuration
xbar	Show all event-history debugging flags of xbar

Command Mode

- /exec

show event manager environment

show event manager environment { all | <varname> } [__readonly__ <environment-details>]

Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
environment	Show information about environment variables
all	Show information about all the configured environment variables
<i>varname</i>	The environment variable name on which information is required
__readonly__	(Optional)
<i>environment-details</i>	(Optional)

Command Mode

- /exec

show event manager event-types

```
show event manager event-types [ all | <event-type-name> ] [ module <module-id> ] [ __readonly__ {
<event-types> } ]
```

Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
event-types	Show information about registered event types
all	(Optional) Show information about advanced event types as well
<i>event-type-name</i>	(Optional) Show information about the specified event type
module	(Optional) Show information about event types on other modules
<i>module-id</i>	(Optional)
__readonly__	(Optional)
<i>event-types</i>	(Optional)

Command Mode

- /exec

show event manager events action-log

show event manager events action-log [policy <policy-name> | event-type <event-type-name>]

Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
events	Show information about the history of past events
action-log	Show policy action logs
policy	(Optional) Name of policy
<i>policy-name</i>	(Optional) Enter policy name
event-type	(Optional) Name of event
<i>event-type-name</i>	(Optional) Enter event type

Command Mode

- /exec

show event manager history events

```
show event manager history events [ detail ] [ maximum <n-events> ] [ severity <sev> ] [ __readonly__ {
<history-events> } ]
```

Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
history	Show information about the history of past activity
events	Show information about the history of past events
detail	(Optional) Show information about the event parameters as well
maximum	(Optional) Specify an upper limit on the number of events to be shown
<i>n-events</i>	(Optional) Specify the maximum number of events to be shown
severity	(Optional) Show only those events whose severity is \geq specified severity
<i>sev</i>	(Optional) Enter the severity threshold
<code>__readonly__</code>	(Optional)
<i>history-events</i>	(Optional)

Command Mode

- /exec

show event manager policy-state

```
show event manager policy-state <name> [ module <module-id> ] [ __readonly__ { <policy-state> } ]
```

Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
policy-state	Show information about the state of a policy
<i>name</i>	Name of the policy
module	(Optional) Get the information from a module
<i>module-id</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>policy-state</i>	(Optional)

Command Mode

- /exec

show event manager script system

```
show event manager script system { all | <script-name> } [ __readonly__ <script_system_details> ]
```

Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
script	Show information about a script policy
system	Show information about a system script policy
all	Show all the available system script policies
<i>script-name</i>	Name of the system script policy
<i>__readonly__</i>	(Optional)
<i>script_system_details</i>	(Optional)

Command Mode

- /exec

show event manager system-policy

```
show event manager system-policy [ all | <policy-name> ] [ __readonly__ { <sys-pol-details> } ]
```

Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
system-policy	Show information about default system policies
all	(Optional) Show all policies (including advanced and non-overridable ones)
<i>policy-name</i>	(Optional) Show detailed information about the specified policy
<i>__readonly__</i>	(Optional)
<i>sys-pol-details</i>	(Optional)

Command Mode

- /exec

show event manager system-policy



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show fabric database dci

```
show fabric database dci [ { vrf <vrf-name> [ peer-id <peer-ip-address> ] [ detail ] } ]
```

Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
dci	DCI Profile Database
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
peer-id	(Optional) management ip address of peer
<i>peer-ip-address</i>	(Optional) IP address in CIDR format
detail	(Optional) Show detailed information

Command Mode

- /exec

show fabric database dci

```
show fabric database dci [ { vrf { <vrf-name> | <vrf-known-name> } [ peer-id <peer-ip-address> ] [ detail ]
} ] [ __readonly__ [ TABLE_database_dci <vrf_name> <state> <flags> <profile> <instance> ] [
TABLE_database_dci_detail <request_time> <request_profile> <got_profile> <sent_to_ppm> <profile_apply>
<del_to_ppm> ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
dci	DCI Profile Database
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
peer-id	(Optional) management ip address of peer
<i>peer-ip-address</i>	(Optional) IP address in CIDR format
detail	(Optional) Show detailed information
__readonly__	(Optional) Read Only
TABLE_database_dci	(Optional) table show fabric database dci
<i>vrf_name</i>	(Optional)
<i>state</i>	(Optional)
<i>flags</i>	(Optional)
<i>profile</i>	(Optional)
<i>instance</i>	(Optional)
TABLE_database_dci_detail	(Optional) detail for table show fabric database dci
<i>request_time</i>	(Optional)
<i>request_profile</i>	(Optional)
<i>got_profile</i>	(Optional)
<i>sent_to_ppm</i>	(Optional)
<i>profile_apply</i>	(Optional)

<i>del_to_ppm</i>	(Optional)
-------------------	------------

Command Mode

- /exec

show fabric database host

```
show fabric database host [ detail ] [ { vni <vni-id> } | { dot1q <vlan-id> } ] [ __readonly__ [
TABLE_database_host [ <trigger_source> ] [ <client_type> ] [ <got_trigger_at> ] [ <number_of_vdp_hosts>
] [ <number_of_associated_interfaces> ] [ <profile_be_un_applied_in_seconds> ] [
<new_vdp_requests_be_accepted_in_seconds> ] [ <recovered_profile_be_checked_for_validity_in_seconds>
] [ <mac_aging_checked_in_seconds> ] [ <sent_to_database_manager_at> ] [
<received_parameters_from_database_manager_at> ] [ <displaying_parameters_for_profile> ] [
<displaying_parameters_for_instance> ] [ <no_parameters_for_the_profile> ] [
<displaying_re_written_parameters_for_vpc_role> ] [ TABLE_parameter [ <parameter_index> ] [ <parameter>
] ] [ TABLE_static_profile <profile> <instance> <no_parameters_for_the_profile> ] [ TABLE_migrated_profile
<profile> <instance_index> <previous_profile> <previous_instance_index> ] [ TABLE_rollback_profile
<profile> <instance_index> ] [ <got_vlan_allocated_from_vlan_manager_at> ] [
<sent_apply_to_configuration_manager_at> ] [ <completed_executing_all_commands_at> ] [
<sent_to_vpc_peer_at> ] [ <completed_executing_all_commands_on_vpc_peer_at> ] [
<sent_un_apply_to_configuration_manager_at> ] [ <completed_unapplying_all_commands_at> ] ] ] [
TABLE_database_host_vni { [ <vni_id> ] [ <vlan_id> ] [ <state> <flag> <profile_name> <instance_name>
] [ <packet_arrival_time> <request_profile_time> <got_profile_time> <sent_to_PPM_time>
<profile_apply_time> <del_to_PPM_time> ] ] [ TABLE_database_host_detail <interface> <encap> <flags>
<state> [ <vsi_id> ] ] ] ] [ TABLE_database_host_vlan { [ <vlan_id> ] [ <vni_id> ] [ <state> <flag>
<profile_name> <instance_name> ] [ <packet_arrival_time> <request_profile_time> <got_profile_time>
<sent_to_PPM_time> <profile_apply_time> <del_to_PPM_time> ] ] [ TABLE_database_host_detail
<interface> <encap> <flags> <state> [ <vsi_id> ] ] ] ] [ TABLE_extranet_vrf_entries { <vrf> <13_vni>
<state> <profile> <instance> } ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
host	Host to profile mapping
detail	(Optional) Show VDP hosts and interfaces
vni	(Optional) Virtual Network Identifier
<i>vni-id</i>	(Optional)
dot1q	(Optional) Dot1Q Encapsulation
<i>vlan-id</i>	(Optional)
__readonly__	(Optional) Read Only
TABLE_database_host	(Optional) table show fabric database host {dot1q vni}
<i>trigger_source</i>	(Optional) TODO
<i>client_type</i>	(Optional) TODO

<i>got_trigger_at</i>	(Optional) TODO
<i>number_of_vdp_hosts</i>	(Optional) TODO
<i>number_of_associated_interfaces</i>	(Optional) TODO
<i>profile_be_un_applied_in_seconds</i>	(Optional) TODO
<i>new_vdp_requests_be_accepted_in_seconds</i>	(Optional) TODO
<i>recovered_profile_be_checked_for_validity_in_seconds</i>	(Optional) TODO
<i>mac_aging_checked_in_seconds</i>	(Optional) TODO
<i>sent_to_database_manager_at</i>	(Optional) TODO
<i>received_parameters_from_database_manager_at</i>	(Optional) TODO
<i>displaying_parameters_for_profile</i>	(Optional) TODO
<i>displaying_parameters_for_instance</i>	(Optional) TODO
<i>no_parameters_for_the_profile</i>	(Optional) TODO
<i>displaying_re_written_parameters_for_vpc_role</i>	(Optional) TODO
TABLE_parameter	(Optional) table show the parameters
<i>parameter_index</i>	(Optional) TODO
<i>parameter</i>	(Optional) TODO
TABLE_static_profile	(Optional) show static profile
<i>profile</i>	(Optional) TODO
<i>instance</i>	(Optional) TODO
<i>no_parameters_for_the_profile</i>	(Optional) TODO
TABLE_migrated_profile	(Optional) show migrated profile
<i>profile</i>	(Optional) TODO
<i>instance_index</i>	(Optional) TODO
<i>previous_profile</i>	(Optional) TODO
<i>previous_instance_index</i>	(Optional) TODO
TABLE_rollback_profile	(Optional) show rollback profile
<i>profile</i>	(Optional) TODO
<i>instance_index</i>	(Optional) TODO
<i>got_vlan_allocated_from_vlan_manager_at</i>	(Optional) TODO

<i>sent_apply_to_configuration_manager_at</i>	(Optional) TODO
<i>completed_executing_all_commands_at</i>	(Optional) TODO
<i>sent_to_vpc_peer_at</i>	(Optional) TODO
<i>completed_executing_all_commands_on_vpc_peer_at</i>	(Optional) TODO
<i>sent_un_apply_to_configuration_manager_at</i>	(Optional) TODO
<i>completed_unapplying_all_commands_at</i>	(Optional) TODO
TABLE_database_host_vni	(Optional) table show fabric database host vni based
<i>vni_id</i>	(Optional) TODO Add comment
<i>vlan_id</i>	(Optional) TODO Add comment
<i>state</i>	(Optional) TODO Add comment
<i>flag</i>	(Optional) TODO
<i>profile_name</i>	(Optional) TODO
<i>instance_name</i>	(Optional) TODO
<i>packet_arrival_time</i>	(Optional) TODO
<i>request_profile_time</i>	(Optional) TODO
<i>got_profile_time</i>	(Optional) TODO
<i>sent_to_PPM_time</i>	(Optional) TODO
<i>profile_apply_time</i>	(Optional) TODO
<i>del_to_PPM_time</i>	(Optional) TODO
TABLE_database_host_detail	(Optional) table show fabric database host detail
<i>interface</i>	(Optional) TODO
<i>encap</i>	(Optional) TODO
<i>flags</i>	(Optional) TODO
<i>state</i>	(Optional) TODO
<i>vsi_id</i>	(Optional) TODO
TABLE_database_host_vlan	(Optional) table show fabric database host vlan based
<i>vlan_id</i>	(Optional) TODO Add comment
<i>vni_id</i>	(Optional) TODO Add comment
<i>state</i>	(Optional) TODO Add comment

<i>flag</i>	(Optional) TODO
<i>profile_name</i>	(Optional) TODO
<i>instance_name</i>	(Optional) TODO
<i>packet_arrival_time</i>	(Optional) TODO
<i>request_profile_time</i>	(Optional) TODO
<i>got_profile_time</i>	(Optional) TODO
<i>sent_to_PPM_time</i>	(Optional) TODO
<i>profile_apply_time</i>	(Optional) TODO
<i>del_to_PPM_time</i>	(Optional) TODO
TABLE_database_host_detail	(Optional) table show fabric database host detail
<i>interface</i>	(Optional) TODO
<i>encap</i>	(Optional) TODO
<i>flags</i>	(Optional) TODO
<i>state</i>	(Optional) TODO
<i>vsi_id</i>	(Optional) TODO
TABLE_extranet_vrf_entries	(Optional) table extranet VRF entries
<i>vrf</i>	(Optional) TODO
<i>l3_vni</i>	(Optional) TODO
<i>state</i>	(Optional) TODO
<i>profile</i>	(Optional) TODO
<i>instance</i>	(Optional) TODO

Command Mode

- /exec

show fabric database host

```
show fabric database host [ detail ] [ { vni <vni-id> } | { dot1q <vlan-id> } ] [ internal ] [ __readonly__ [
TABLE_database_host [ <trigger_source> ] [ <client_type> ] [ <got_trigger_at> ] [ <number_of_vdp_hosts>
] [ <number_of_associated_interfaces> ] [ <profile_be_un_applied_in_seconds> ] [
<new_vdp_requests_be_accepted_in_seconds> ] [ <recovered_profile_be_checked_for_validity_in_seconds>
] [ <sent_to_database_manager_at> ] [ <received_parameters_from_database_manager_at> ] [
<displaying_parameters_for_profile> ] [ <displaying_parameters_for_instance> ] [
<no_parameters_for_the_profile> ] [ <got_vlan_allocated_from_vlan_manager_at> ] [
<sent_apply_to_configuration_manager_at> ] [ <completed_executing_all_commands_at> ] [
<sent_to_vpc_peer_at> ] [ <completed_executing_all_commands_on_vpc_peer_at> ] [
<sent_un_apply_to_configuration_manager_at> ] [ <completed_unapplying_all_commands_at> ] [
<displaying_re_written_parameters_for_vpc_role> ] [ TABLE_parameter [ <parameter_index> ] [ <parameter>
] ] [ TABLE_static_profile <profile> <instance> <no_parameters_for_the_profile> ] [ TABLE_migrated_profile
<profile> <instance_index> <previous_profile> <previous_instance_index> ] [ TABLE_rollback_profile
<profile> <instance_index> ] ] [ TABLE_database_host_vni { [ <vni_id> ] [ <vlan_id> ] [ <state> <flag>
<profile_name> <instance_name> ] [ <packet_arrival_time> <request_profile_time> <got_profile_time>
<sent_to_PPM_time> <profile_apply_time> <del_to_PPM_time> ] [ { TABLE_database_host_detail
<interface> <encap> <flags> <state> [ <vsi_id> ] } ] ] [ TABLE_database_host_vlan { [ <vlan_id> ] [
<vni_id> ] [ <state> <flag> <profile_name> <instance_name> ] [ <packet_arrival_time> <request_profile_time>
<got_profile_time> <sent_to_PPM_time> <profile_apply_time> <del_to_PPM_time> ] [ {
TABLE_database_host_detail <interface> <encap> <flags> <state> [ <vsi_id> ] } ] ] ] [
TABLE_extranet_vrf_entries { <vrf> <l3_vni> <state> <profile> <instance> } ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
host	Host to profile mapping
detail	(Optional) Show VDP hosts and interfaces
vni	(Optional) Virtual Network Identifier
<i>vni-id</i>	(Optional)
dot1q	(Optional) Dot1Q Encapsulation
<i>vlan-id</i>	(Optional)
internal	(Optional) Internal command
<i>__readonly__</i>	(Optional) Read Only
TABLE_database_host	(Optional) table show fabric database host {dot1q vni}
<i>trigger_source</i>	(Optional) TODO
<i>client_type</i>	(Optional) TODO

<i>got_trigger_at</i>	(Optional) TODO
<i>number_of_vdp_hosts</i>	(Optional) TODO
<i>number_of_associated_interfaces</i>	(Optional) TODO
<i>profile_be_un_applied_in_seconds</i>	(Optional) TODO
<i>new_vdp_requests_be_accepted_in_seconds</i>	(Optional) TODO
<i>recovered_profile_be_checked_for_validity_in_seconds</i>	(Optional) TODO
<i>sent_to_database_manager_at</i>	(Optional) TODO
<i>received_parameters_from_database_manager_at</i>	(Optional) TODO
<i>displaying_parameters_for_profile</i>	(Optional) TODO
<i>displaying_parameters_for_instance</i>	(Optional) TODO
<i>no_parameters_for_the_profile</i>	(Optional) TODO
<i>got_vlan_allocated_from_vlan_manager_at</i>	(Optional) TODO
<i>sent_apply_to_configuration_manager_at</i>	(Optional) TODO
<i>completed_executing_all_commands_at</i>	(Optional) TODO
<i>sent_to_vpc_peer_at</i>	(Optional) TODO
<i>completed_executing_all_commands_on_vpc_peer_at</i>	(Optional) TODO
<i>sent_un_apply_to_configuration_manager_at</i>	(Optional) TODO
<i>completed_unapplying_all_commands_at</i>	(Optional) TODO
<i>displaying_re_written_parameters_for_vpc_role</i>	(Optional) TODO
TABLE_parameter	(Optional) table show the parameters
<i>parameter_index</i>	(Optional) TODO
<i>parameter</i>	(Optional) TODO
TABLE_static_profile	(Optional) show static profile
<i>profile</i>	(Optional) TODO
<i>instance</i>	(Optional) TODO
<i>no_parameters_for_the_profile</i>	(Optional) TODO
TABLE_migrated_profile	(Optional) show migrated profile
<i>profile</i>	(Optional) TODO
<i>instance_index</i>	(Optional) TODO

<i>previous_profile</i>	(Optional) TODO
<i>previous_instance_index</i>	(Optional) TODO
TABLE_rollback_profile	(Optional) show rollback profile
<i>profile</i>	(Optional) TODO
<i>instance_index</i>	(Optional) TODO
TABLE_database_host_vni	(Optional) table show fabric database host vni based
<i>vni_id</i>	(Optional) TODO Add comment
<i>vlan_id</i>	(Optional) TODO Add comment
<i>state</i>	(Optional) TODO Add comment
<i>flag</i>	(Optional) TODO
<i>profile_name</i>	(Optional) TODO
<i>instance_name</i>	(Optional) TODO
<i>packet_arrival_time</i>	(Optional) TODO
<i>request_profile_time</i>	(Optional) TODO
<i>got_profile_time</i>	(Optional) TODO
<i>sent_to_PPM_time</i>	(Optional) TODO
<i>profile_apply_time</i>	(Optional) TODO
<i>del_to_PPM_time</i>	(Optional) TODO
TABLE_database_host_detail	(Optional) table show fabric database host detail
<i>interface</i>	(Optional) TODO
<i>encap</i>	(Optional) TODO
<i>flags</i>	(Optional) TODO
<i>state</i>	(Optional) TODO
<i>vsi_id</i>	(Optional) TODO
TABLE_database_host_vlan	(Optional) table show fabric database host vlan based
<i>vlan_id</i>	(Optional) TODO Add comment
<i>vni_id</i>	(Optional) TODO Add comment
<i>state</i>	(Optional) TODO Add comment
<i>flag</i>	(Optional) TODO

<i>profile_name</i>	(Optional) TODO
<i>instance_name</i>	(Optional) TODO
<i>packet_arrival_time</i>	(Optional) TODO
<i>request_profile_time</i>	(Optional) TODO
<i>got_profile_time</i>	(Optional) TODO
<i>sent_to_PPM_time</i>	(Optional) TODO
<i>profile_apply_time</i>	(Optional) TODO
<i>del_to_PPM_time</i>	(Optional) TODO
TABLE_database_host_detail	(Optional) table show fabric database host detail
<i>interface</i>	(Optional) TODO
<i>encap</i>	(Optional) TODO
<i>flags</i>	(Optional) TODO
<i>state</i>	(Optional) TODO
<i>vsi_id</i>	(Optional) TODO
TABLE_extranet_vrf_entries	(Optional) table extranet VRF entries
<i>vrf</i>	(Optional) TODO
<i>l3_vni</i>	(Optional) TODO
<i>state</i>	(Optional) TODO
<i>profile</i>	(Optional) TODO
<i>instance</i>	(Optional) TODO

Command Mode

- /exec

<i>duplicate_add_existing_host</i>	(Optional) TODO
<i>hmm_api_error_cannot_add_host</i>	(Optional) TODO
<i>existing_profile_new_host</i>	(Optional) TODO
<i>profile_apply_from_vpc_peer</i>	(Optional) TODO
<i>profile_un_apply_from_vpc_peer</i>	(Optional) TODO
<i>host_apply_from_vpc_peer</i>	(Optional) TODO
<i>host_un_apply_from_vpc_peer</i>	(Optional) TODO
<i>early_delete_cancel_add</i>	(Optional) TODO
<i>dhcp_requests</i>	(Optional) TODO
<i>dhcp_responses</i>	(Optional) TODO
<i>dhcp_error_responses</i>	(Optional) TODO
<i>adbm_requests</i>	(Optional) TODO
<i>adbm_responses</i>	(Optional) TODO
<i>adbm_error_responses</i>	(Optional) TODO
<i>adbm_error_requests</i>	(Optional) TODO
<i>vnseg_no_bridge_domain</i>	(Optional) TODO
<i>vnseg_encap_responses</i>	(Optional) TODO
<i>vnseg_vni_responses</i>	(Optional) TODO
<i>vnseg_unknown_responses</i>	(Optional) TODO
<i>vnseg_bd_down_notif</i>	(Optional) TODO
<i>no_mac_on_bd_notif</i>	(Optional) TODO
<i>refresh_failures</i>	(Optional) TODO
<i>profile_apply_received</i>	(Optional) TODO
<i>profile_vpc_queued</i>	(Optional) TODO
<i>profile_local_apply_queued</i>	(Optional) TODO
<i>profile_local_unapply_queued</i>	(Optional) TODO
<i>profile_apply_sent</i>	(Optional) TODO
<i>profile_apply_responses</i>	(Optional) TODO
<i>profile_apply_success</i>	(Optional) TODO

<i>profile_unapply_success</i>	(Optional) TODO
<i>profile_apply_failure</i>	(Optional) TODO
<i>profile_commands</i>	(Optional) TODO
<i>profile_error_incomplete_configs</i>	(Optional) TODO
<i>profile_api_error</i>	(Optional) TODO
<i>profile_unapply_sent</i>	(Optional) TODO
<i>profile_top_queue_adds</i>	(Optional) TODO
<i>profile_high_queue_adds</i>	(Optional) TODO
<i>profile_low_queue_adds</i>	(Optional) TODO
<i>profile_unapply_failure</i>	(Optional) TODO
<i>outstanding_vlan_requests</i>	(Optional) TODO
<i>outstanding_adbm_requests</i>	(Optional) TODO
<i>outstanding_profile_applies</i>	(Optional) TODO
<i>outstanding_vpc_profile_applies</i>	(Optional) TODO

Command Mode

- /exec

show fabric database host statistics

```
show fabric database host statistics [ __readonly__ [ TABLE_database_host_statistics { [ <data_snoop_triggers>
] [ <data_snoop_deletes> ] [ <vdp_association_requests> ] [ <vdp_deassociation_requests> ] [
<vdp_association_responses> ] [ <vdp_error_responses> ] [ <unsupported_interfaces> ] [
<no_profile_map_errors> ] [ <outstanding_delete_retry_add> ] [ <duplicate_add_existing_host> ] [
<hmm_api_error_cannot_add_host> ] [ <existing_profile_new_host> ] [ <profile_apply_from_vpc_peer> ]
[ <profile_un_apply_from_vpc_peer> ] [ <host_apply_from_vpc_peer> ] [ <host_un_apply_from_vpc_peer>
] [ <early_delete_cancel_add> ] [ <dhcp_requests> ] [ <dhcp_responses> ] [ <dhcp_error_responses> ] [
<adbm_requests> ] [ <adbm_responses> ] [ <adbm_error_responses> ] [ <adbm_error_requests> ] [
<vnseg_no_bridge_domain> ] [ <vnseg_encap_responses> ] [ <vnseg_vni_responses> ] [
<vnseg_unknown_responses> ] [ <refresh_failures> ] [ <profile_apply_received> ] [ <profile_vpc_queued>
] [ <profile_local_apply_queued> ] [ <profile_local_unapply_queued> ] [ <profile_apply_sent> ] [
<profile_apply_responses> ] [ <profile_apply_success> ] [ <profile_unapply_success> ] [
<profile_apply_failure> ] [ <profile_commands> ] [ <profile_error_incomplete_configs> ] [ <profile_api_error>
] [ <profile_unapply_sent> ] [ <profile_top_queue_adds> ] [ <profile_high_queue_adds> ] [
<profile_low_queue_adds> ] [ <profile_unapply_failure> ] [ <outstanding_vlan_requests> ] [
<outstanding_adbm_requests> ] [ <outstanding_profile_applies> ] [ <outstanding_vpc_profile_applies> ] }
] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
host	Auto-configured Hosts
statistics	Statistics - Mostly shows non-zero values
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_database_host_statistics</i>	(Optional) table show fabric database host statistics
<i>data_snoop_triggers</i>	(Optional) TODO
<i>data_snoop_deletes</i>	(Optional) TODO
<i>vdp_association_requests</i>	(Optional) TODO
<i>vdp_deassociation_requests</i>	(Optional) TODO
<i>vdp_association_responses</i>	(Optional) TODO
<i>vdp_error_responses</i>	(Optional) TODO
<i>unsupported_interfaces</i>	(Optional) TODO
<i>no_profile_map_errors</i>	(Optional) TODO
<i>outstanding_delete_retry_add</i>	(Optional) TODO

<i>duplicate_add_existing_host</i>	(Optional) TODO
<i>hmm_api_error_cannot_add_host</i>	(Optional) TODO
<i>existing_profile_new_host</i>	(Optional) TODO
<i>profile_apply_from_vpc_peer</i>	(Optional) TODO
<i>profile_un_apply_from_vpc_peer</i>	(Optional) TODO
<i>host_apply_from_vpc_peer</i>	(Optional) TODO
<i>host_un_apply_from_vpc_peer</i>	(Optional) TODO
<i>early_delete_cancel_add</i>	(Optional) TODO
<i>dhcp_requests</i>	(Optional) TODO
<i>dhcp_responses</i>	(Optional) TODO
<i>dhcp_error_responses</i>	(Optional) TODO
<i>adbm_requests</i>	(Optional) TODO
<i>adbm_responses</i>	(Optional) TODO
<i>adbm_error_responses</i>	(Optional) TODO
<i>adbm_error_requests</i>	(Optional) TODO
<i>vnseg_no_bridge_domain</i>	(Optional) TODO
<i>vnseg_encap_responses</i>	(Optional) TODO
<i>vnseg_vni_responses</i>	(Optional) TODO
<i>vnseg_unknown_responses</i>	(Optional) TODO
<i>refresh_failures</i>	(Optional) TODO
<i>profile_apply_received</i>	(Optional) TODO
<i>profile_vpc_queued</i>	(Optional) TODO
<i>profile_local_apply_queued</i>	(Optional) TODO
<i>profile_local_unapply_queued</i>	(Optional) TODO
<i>profile_apply_sent</i>	(Optional) TODO
<i>profile_apply_responses</i>	(Optional) TODO
<i>profile_apply_success</i>	(Optional) TODO
<i>profile_unapply_success</i>	(Optional) TODO
<i>profile_apply_failure</i>	(Optional) TODO

<i>profile_commands</i>	(Optional) TODO
<i>profile_error_incomplete_configs</i>	(Optional) TODO
<i>profile_api_error</i>	(Optional) TODO
<i>profile_unapply_sent</i>	(Optional) TODO
<i>profile_top_queue_adds</i>	(Optional) TODO
<i>profile_high_queue_adds</i>	(Optional) TODO
<i>profile_low_queue_adds</i>	(Optional) TODO
<i>profile_unapply_failure</i>	(Optional) TODO
<i>outstanding_vlan_requests</i>	(Optional) TODO
<i>outstanding_adbm_requests</i>	(Optional) TODO
<i>outstanding_profile_applies</i>	(Optional) TODO
<i>outstanding_vpc_profile_applies</i>	(Optional) TODO

Command Mode

- /exec

show fabric database host summary

```
show fabric database host summary [ __readonly__ [ TABLE_database_host_summary {
<number_of_instances_applied> <number_of_vdp_hosts> <recovery_timeout_minute>
<cleanup_timeout_minute> <vdp_add_suppression_timeout_minute> <mac_aging_timeout_minute> } ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
host	Auto-configured Hosts
summary	Summary
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_database_host_summary</i>	(Optional) table show fabric database host summary
<i>number_of_instances_applied</i>	(Optional) TODO
<i>number_of_vdp_hosts</i>	(Optional) TODO
<i>recovery_timeout_minute</i>	(Optional) TODO
<i>cleanup_timeout_minute</i>	(Optional) TODO
<i>vdp_add_suppression_timeout_minute</i>	(Optional) TODO
<i>mac_aging_timeout_minute</i>	(Optional) TODO

Command Mode

- /exec

show fabric database host summary

```
show fabric database host summary [ __readonly__ [ TABLE_database_host_summary {
<number_of_instances_applied> <number_of_vdp_hosts> <recovery_timeout_minute>
<cleanup_timeout_minute> <vdp_add_suppression_timeout_minute> } ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
host	Auto-configured Hosts
summary	Summary
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_database_host_summary</i>	(Optional) table show fabric database host summary
<i>number_of_instances_applied</i>	(Optional) TODO
<i>number_of_vdp_hosts</i>	(Optional) TODO
<i>recovery_timeout_minute</i>	(Optional) TODO
<i>cleanup_timeout_minute</i>	(Optional) TODO
<i>vdp_add_suppression_timeout_minute</i>	(Optional) TODO

Command Mode

- /exec

show fabric database profile-map

```
show fabric database profile-map { global | [ <id> | interface <interface-id> ] } [ __readonly__ [
TABLE_database_profile_map { <map> <proto> <vni> <dot1q> <flags> <profile_name> } ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
profile-map	Profile Map
global	Global profile (apply to all interfaces)
<i>id</i>	(Optional) Profile Map ID
interface	(Optional) Specified interface to display
<i>interface-id</i>	(Optional) Name of interface
<i>__readonly__</i>	(Optional) Read Only
TABLE_database_profile_map	(Optional) table show fabric database profile-map
<i>map</i>	(Optional) TODO
<i>proto</i>	(Optional) TODO
<i>vni</i>	(Optional) TODO
<i>dot1q</i>	(Optional) TODO
<i>flags</i>	(Optional) TODO
<i>profile_name</i>	(Optional) TODO

Command Mode

- /exec

show fabric database profile-map

```
show fabric database profile-map { global | [ <id> | interface <interface-id> ] } [ __readonly__ [
TABLE_database_profile_map { <map> <proto> <vni> <dot1q> <flags> <profile_name> } ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
profile-map	Profile Map
global	Global profile (apply to all interfaces)
<i>id</i>	(Optional) Profile Map ID
interface	(Optional) Specified interface to display
<i>interface-id</i>	(Optional) Name of interface
<i>__readonly__</i>	(Optional) Read Only
TABLE_database_profile_map	(Optional) table show fabric database profile-map
<i>map</i>	(Optional) TODO
<i>proto</i>	(Optional) TODO
<i>vni</i>	(Optional) TODO
<i>dot1q</i>	(Optional) TODO
<i>flags</i>	(Optional) TODO
<i>profile_name</i>	(Optional) TODO

Command Mode

- /exec

show fabric database statistics

```
show fabric database statistics [ type { network | profile | cabling | partition | bl-dci } ] [ __readonly__ {
TABLE_types <dbtype> <requests> <dispatched> <not_dispatched> <re_dispatched> } [ { TABLE_dbs
<is_active> <type> <prot> <serverdb> [ <reqs> <ok> <nores> <err> <tmout> <pend> } ] ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
database	Show Fabric Database
statistics	Show database statistics
type	(Optional) Enter database type
network	(Optional) Network Database
profile	(Optional) Port or Switch Profile Database
cabling	(Optional) Cable Management Database
partition	(Optional) Partition Database
bl-dci	(Optional) Border Leaf - DCI
__readonly__	(Optional)
TABLE_types	(Optional) totals by type
<i>dbtype</i>	(Optional) type of database
<i>requests</i>	(Optional) number of requests
<i>dispatched</i>	(Optional) number dispatched
<i>not_dispatched</i>	(Optional) number not dispatched
<i>re_dispatched</i>	(Optional) number re-dispatched
TABLE_dbs	(Optional) per-database stats
<i>is_active</i>	(Optional) active/inactive
<i>type</i>	(Optional) database type
<i>prot</i>	(Optional) database protocol
<i>serverdb</i>	(Optional) server database
<i>reqs</i>	(Optional) requests
<i>ok</i>	(Optional) OK

<i>nores</i>	(Optional) nores
<i>err</i>	(Optional) err
<i>tmout</i>	(Optional) tmout
<i>pend</i>	(Optional) pend

Command Mode

- /exec

show fabric forwarding host-db

```
show fabric forwarding host-db [ { vrf { <vrf-name> | <vrf-known-name> | all } } ] [ __readonly__ [
TABLE_forwarding_host_db_vrf { <vrf> <vrf_id> <vrf_state> <vrf_reason> <vni_id> <refcount>
<conversational_learning> [ TABLE_limit_type <limit_type> <enable> <threshold> <action> ] [ TABLE_ipv4
<address_family> <vrf> <table_id> <table_state> <refcount> <local_hosts> <remote_hosts> <aggregates>
[ TABLE_aggregate_list <aggregate_subnet_prefix_list> ] ] [ TABLE_ipv6 <address_family> <vrf> <table_id>
<table_state> <refcount> <local_hosts> <remote_hosts> <aggregates> [ TABLE_aggregate_list
<aggregate_subnet_prefix_list> ] ] ] ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
host-db	Host Database info
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional) Read Only
TABLE_forwarding_host_db_vrf	(Optional) table show fabric forwarding host-db vrf
<i>vrf</i>	(Optional) TODO
<i>vrf_id</i>	(Optional) TODO
<i>vrf_state</i>	(Optional) TODO
<i>vrf_reason</i>	(Optional) TODO
<i>vni_id</i>	(Optional) TODO
<i>refcount</i>	(Optional) TODO
<i>conversational_learning</i>	(Optional) TODO
TABLE_limit_type	(Optional) table for limit type
<i>limit_type</i>	(Optional) TODO
<i>enable</i>	(Optional) TODO
<i>threshold</i>	(Optional) TODO
<i>action</i>	(Optional) TODO

TABLE_ipv4	(Optional) Information for address family IPv4
<i>address_family</i>	(Optional) TODO
<i>vrf</i>	(Optional) TODO
<i>table_id</i>	(Optional) TODO
<i>table_state</i>	(Optional) TODO
<i>refcount</i>	(Optional) TODO
<i>local_hosts</i>	(Optional) TODO
<i>remote_hosts</i>	(Optional) TODO
<i>aggregates</i>	(Optional) TODO
TABLE_aggregate_list	(Optional) table for aggregate subnet prefix list
<i>aggregate_subnet_prefix_list</i>	(Optional) TODO
TABLE_ipv6	(Optional) Information for address family IPv6
<i>address_family</i>	(Optional) TODO
<i>vrf</i>	(Optional) TODO
<i>table_id</i>	(Optional) TODO
<i>table_state</i>	(Optional) TODO
<i>refcount</i>	(Optional) TODO
<i>local_hosts</i>	(Optional) TODO
<i>remote_hosts</i>	(Optional) TODO
<i>aggregates</i>	(Optional) TODO
TABLE_aggregate_list	(Optional) table for aggregate subnet prefix list
<i>aggregate_subnet_prefix_list</i>	(Optional) TODO

Command Mode

- /exec

show fabric forwarding ip

```
show fabric forwarding ip { { local-host-db | remote-host-db | aggregate-subnet-prefix } [ { vrf { <vrf-name>
| <vrf-known-name> | all } } ] [ <ip-prefix> ] } [ __readonly__ [ TABLE_forwarding_ip_local_host_db_vrf
{ <hmm_host> <vrf> <status_in> { TABLE_hosts <host> <mac_address> <svi> <flags_0x>
<physical_interface> <status> } } ] [ TABLE_forwarding_ip_remote_host_db_vrf { <hmm_host> <vrf>
<status_in> { TABLE_hosts <host> <source> <active> <flags_0x> <status> } } ] [
TABLE_forwarding_ip_aggregate_subnet_prefix_vrf { <hmm_host> <vrf> <status_in> { TABLE_hosts
<host> <type> <flags_0x> <status> } } ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
ip	Display IP information
local-host-db	HMM Local Host Database
remote-host-db	HMM Remote Host Database
aggregate-subnet-prefix	HMM Aggregate subnet prefix
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>ip-prefix</i>	(Optional) IP prefix in CIDR format
<i>__readonly__</i>	(Optional) Read Only
TABLE_forwarding_ip_local_host_db_vrf	(Optional) table show fabric forwarding ip local-host-db vrf
<i>hmm_host</i>	(Optional) TODO
<i>vrf</i>	(Optional) TODO
<i>status_in</i>	(Optional) TODO
TABLE_hosts	(Optional) table show information for each hosts
<i>host</i>	(Optional) TODO
<i>mac_address</i>	(Optional) TODO
<i>svi</i>	(Optional) TODO
<i>flags_0x</i>	(Optional) TODO

<i>physical_interface</i>	(Optional) TODO
<i>status</i>	(Optional) *-valid, x-deleted, a-aged out, c-cleaned
TABLE_forwarding_ip_remote_host_db_vrf	(Optional) table show fabric forwarding ip remote-host-db vrf
<i>hmm_host</i>	(Optional) TODO
<i>vrf</i>	(Optional) TODO
<i>status_in</i>	(Optional) TODO
TABLE_hosts	(Optional) table show information for each hosts
<i>host</i>	(Optional) TODO
<i>source</i>	(Optional) TODO
<i>active</i>	(Optional) TODO
<i>flags_0x</i>	(Optional) TODO
<i>status</i>	(Optional) *-valid, x-deleted, a-aged out, c-cleaned
TABLE_forwarding_ip_aggregate_subnet_prefix_vrf	(Optional) table show fabric forwarding ip aggregate-subnet-prefix vrf
<i>hmm_host</i>	(Optional) TODO
<i>vrf</i>	(Optional) TODO
<i>status_in</i>	(Optional) TODO
TABLE_hosts	(Optional) table show information for each hosts
<i>host</i>	(Optional) TODO
<i>type</i>	(Optional) TODO
<i>flags_0x</i>	(Optional) TODO
<i>status</i>	(Optional) *-valid, x-deleted, a-aged out, c-cleaned

Command Mode

- /exec

show fabric forwarding ipv6

```
show fabric forwarding ipv6 { { local-host-db | remote-host-db | aggregate-subnet-prefix } [ { vrf { <vrf-name>
| <vrf-known-name> | all } } ] [ <ipv6-prefix> ] [ __readonly__ [ TABLE_forwarding_ipv6_local_host_db_vrf
{ <hmm_host> <vrf> <status_in> { TABLE_hosts <host> <mac_address> <svi> <flags_0x>
<physical_interface> <status> } } ] [ TABLE_forwarding_ipv6_remote_host_db_vrf { <hmm_host> <vrf>
<status_in> { TABLE_hosts <host> <source> <active> <flags_0x> <status> } } ] [
TABLE_forwarding_ipv6_aggregate_subnet_prefix_vrf { <hmm_host> <vrf> <status_in> { TABLE_hosts
<host> <type> <flags_0x> <status> } } ] ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
ipv6	Display IPv6 information
local-host-db	HMM Local Host Database
remote-host-db	HMM Remote Host Database
aggregate-subnet-prefix	HMM Aggregate subnet prefix
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional) Read Only
TABLE_forwarding_ipv6_local_host_db_vrf	(Optional) table show fabric forwarding ipv6 local-host-db vrf
<i>hmm_host</i>	(Optional) TODO
<i>vrf</i>	(Optional) TODO
<i>status_in</i>	(Optional) TODO
TABLE_hosts	(Optional) table show information for each hosts
<i>host</i>	(Optional) TODO
<i>mac_address</i>	(Optional) TODO
<i>svi</i>	(Optional) TODO
<i>flags_0x</i>	(Optional) TODO
<i>physical_interface</i>	(Optional) TODO

<i>status</i>	(Optional) *-valid, x-deleted, a-aged out, c-cleaned
TABLE_forwarding_ipv6_remote_host_db_vrf	(Optional) table show fabric forwarding ipv6 remote-host-db vrf
<i>hmm_host</i>	(Optional) TODO
<i>vrf</i>	(Optional) TODO
<i>status_in</i>	(Optional) TODO
TABLE_hosts	(Optional) table show information for each hosts
<i>host</i>	(Optional) TODO
<i>source</i>	(Optional) TODO
<i>active</i>	(Optional) TODO
<i>flags_0x</i>	(Optional) TODO
<i>status</i>	(Optional) *-valid, x-deleted, a-aged out, c-cleaned
TABLE_forwarding_ipv6_aggregate_subnet_prefix_vrf	(Optional) table show fabric forwarding ipv6 aggregate-subnet-prefix vrf
<i>hmm_host</i>	(Optional) TODO
<i>vrf</i>	(Optional) TODO
<i>status_in</i>	(Optional) TODO
TABLE_hosts	(Optional) table show information for each hosts
<i>host</i>	(Optional) TODO
<i>type</i>	(Optional) TODO
<i>flags_0x</i>	(Optional) TODO
<i>status</i>	(Optional) *-valid, x-deleted, a-aged out, c-cleaned

Command Mode

- /exec

show fabric forwarding statistics conversational-learning

```
show fabric forwarding statistics conversational-learning [ ip | ipv6 ] { source-limit [ <ip-prefix> | <ipv6-prefix>
] | max-conversation-limit | port-limit [ <port> ] } [ { vrf { <vrf-name> | <vrf-known-name> | all } } ] [
__readonly__ [ TABLE_forwarding_stat_conv_learning_limit_stats_for_vrf { <vrf> <limit_type> <enable>
[ <threshold> ] [ <action> ] [ { TABLE_limit_type_src <hmm_conv_learning_stats_for_address_family>
<source> <in_add_q> <in_rib> <hit_threshold> } ] [ { TABLE_limit_type_total <type> <ipv4_r/p> <ipv6_r/p>
<total> <hit_threshold> } ] [ { TABLE_limit_type_port <port> <ipv4_r/p> <ipv6_r/p> <total> <hit_threshold>
} ] } ] ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
statistics	Statistics
conversational-learning	Conversational Learning statistics based FIB Route Download
ip	(Optional) Display IP information
ipv6	(Optional) Display IPv6 information
source-limit	Number of active conversations from a source host
<i>ip-prefix</i>	(Optional) IP prefix in CIDR format
max-conversation-limit	Number of active conversations
port-limit	Number of active conversations from a physical port
<i>port</i>	(Optional) Interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional) Read Only
TABLE_forwarding_stat_conv_learning_limit_stats_for_vrf	(Optional) table show fabric forwarding statistics conversational-learning
<i>vrf</i>	(Optional) TODO
<i>limit_type</i>	(Optional) TODO
<i>enable</i>	(Optional) TODO
<i>threshold</i>	(Optional) TODO

<i>action</i>	(Optional) TODO
TABLE_limit_type_src	(Optional) source-limit
<i>hmm_conv_learning_stats_for_address_family</i>	(Optional) TODO
<i>source</i>	(Optional) TODO
<i>in_add_q</i>	(Optional) TODO
<i>in_rib</i>	(Optional) TODO
<i>hit_threshold</i>	(Optional) TODO
TABLE_limite_type_total	(Optional) max-conversation-limit
<i>type</i>	(Optional) TODO
<i>ipv4_r/p</i>	(Optional) TODO
<i>ipv6_r/p</i>	(Optional) TODO
<i>total</i>	(Optional) TODO
<i>hit_threshold</i>	(Optional) TODO
TABLE_limit_type_port	(Optional) port-limit
<i>port</i>	(Optional) TODO
<i>ipv4_r/p</i>	(Optional) TODO
<i>ipv6_r/p</i>	(Optional) TODO
<i>total</i>	(Optional) TODO
<i>hit_threshold</i>	(Optional) TODO

Command Mode

- /exec

show fabricpath conflict

```
show fabricpath conflict { link | ftag | switch-id | transitions | all } [ detail ] [ __readonly__ <no_ports_up_str>
<no_swid_conflict_str> <no_ftag_conflict_str> <no_trans_str> <conflict_info_flag> <ports-hdr> {
TABLE_ports <if_index> <reason> } <swid-hdr> { TABLE_swid <switch-id> <system-id> <static> }
<ftag-hdr> { TABLE_ftag <ftag-id> <topology> <tree-id> } <trans-hdr> { TABLE_trans <old_swid>
<new_swid> <system-id> } ]
```

Syntax Description

fabricpath	fabricpath information
conflict	Conflicting resources
link	show links
ftag	show ftags
switch-id	show switch-ids
transitions	show transitions
all	show all
detail	(Optional) show detail
__readonly__	(Optional) Read Only
no_ports_up_str	(Optional) No ports coming up
no_swid_conflict_str	(Optional) No switch-id conflicts
no_ftag_conflict_str	(Optional) No Ftag Conflicts
no_trans_str	(Optional) No Transitions
conflict_info_flag	(Optional) Conflict Information
TABLE_ports	(Optional) Ports table
TABLE_swid	(Optional) Switch-id conflict Table
TABLE_ftag	(Optional) Ftag conflict Table
TABLE_trans	(Optional) Transition Table
ports-hdr	(Optional) Ports table start
swid-hdr	(Optional) Switch-id conflict table start
ftag-hdr	(Optional) Ftag conflict Table start
trans-hdr	(Optional) Transitions table start
if_index	(Optional) Interface

<i>reason</i>	(Optional) port down reason
<i>switch-id</i>	(Optional) Switch-id Value
<i>system-id</i>	(Optional) System ID
<i>static</i>	(Optional) Static or Dynamic switch-id
<i>ftag-id</i>	(Optional) Ftag value
<i>topology</i>	(Optional) Topology
<i>tree-id</i>	(Optional) Tree or graph ID
<i>old_swid</i>	(Optional) Old switch-id
<i>new_swid</i>	(Optional) New switch-id
<i>system-id</i>	(Optional) System ID

Command Mode

- /exec

show fabricpath counters dropped

```
show fabricpath counters dropped [ module <module> ] [ __readonly__ <mod_bmp> <vdc_id> <msg>
<is_brief> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
counters	Show fabricpath counters
dropped	Packets dropped due to various vlan errors
module	(Optional) Specify one module
<i>module</i>	(Optional) Module number
<i>__readonly__</i>	(Optional) Read Only
<i>mod_bmp</i>	(Optional) Bitmap of valid modules
<i>vdc_id</i>	(Optional) Current VDC id
<i>msg</i>	(Optional) Message to give details about command execution
<i>is_brief</i>	(Optional) Show summary for all modules or show counter for each module instance

Command Mode

- /exec

show fabricpath isis

```
show fabricpath isis [ <l2mp-isis-tag> ] [ protocol ] [ __readonly__ TABLE_process_tag <process-tag-out>
<system-id-out> <is-type-out> <fab-ctl-out> <sap-out> <qh-out> <mtu-out> <gr-status-out> <gr-state-out>
<last-gr-status-out> <gr-t3-timer-out> <metric-send-out> <metric-accept-out> <area-addr-out> <proc-state-out>
<vrf-id-out> [ <te-lvl-out> <te-ted-out> ] [ <mpls-te-out> ] [ TABLE_intf [ <intf-name-out> ] ] <auth-out>
[ <auth-chk-out> ] [ <auth-kchain-out> ] TABLE_afi_safi <afi-safi-out> <intf-num-out> <adj-check-out> [
<redist-pib-out> <redist-rpm-out> ] [ <dist-src-lvl-out> <dist-dest-lvl-out> <dist-leak-all-out> ] [ <dist-rpm-out>
] <admin-dist-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
protocol	(Optional) Display IS-IS process information
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_afi_safi	(Optional)
<i>afi-safi-out</i>	(Optional)
<i>system-id-out</i>	(Optional)
<i>is-type-out</i>	(Optional)
<i>fab-ctl-out</i>	(Optional)
<i>sap-out</i>	(Optional)
<i>mtu-out</i>	(Optional)
<i>qh-out</i>	(Optional)
<i>gr-t3-timer-out</i>	(Optional)
<i>gr-status-out</i>	(Optional)
<i>gr-state-out</i>	(Optional)
<i>last-gr-status-out</i>	(Optional)
<i>metric-send-out</i>	(Optional)
<i>metric-accept-out</i>	(Optional)

<i>area-addr-out</i>	(Optional)
<i>proc-state-out</i>	(Optional)
<i>vrf-id-out</i>	(Optional)
<i>te-lvl-out</i>	(Optional)
<i>te-ted-out</i>	(Optional)
<i>mpls-te-out</i>	(Optional)
TABLE_intf	(Optional)
<i>intf-name-out</i>	(Optional)
<i>intf-num-out</i>	(Optional)
<i>auth-out</i>	(Optional)
<i>auth-chk-out</i>	(Optional)
<i>auth-kchain-out</i>	(Optional)
<i>adj-check-out</i>	(Optional)
<i>redist-pib-out</i>	(Optional)
<i>redist-rpm-out</i>	(Optional)
<i>dist-src-lvl-out</i>	(Optional)
<i>dist-dest-lvl-out</i>	(Optional)
<i>dist-leak-all-out</i>	(Optional)
<i>dist-rpm-out</i>	(Optional)
<i>admin-dist-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis adjacency

```
show fabricpath isis [ <l2mp-isis-tag> ] [ topology <topo-id> ] adjacency [ <interface> [ p2p-level-1-2 ] ] {
[ system-id <sid> ] [ detail ] [ summary ] } [ __readonly__ TABLE_process_tag <process-tag-out>
<adj-summary-out> <adj-interface-out> [ <adj-interface-name-out> ] [ TABLE_sys_name <adj-sys-name-out>
<adj-sys-id-out> [ <adj-usage-out> ] [ <adj-level-out> ] <adj-state-out> <adj-hold-time-out>
<adj-intf-name-out> <adj-detail-set-out> [ { <adj-transitions-out> <adj-flap-out> [ <adj-flap-time-out> ]
<adj-ckt-type-out> <adj-bcast-out> [ { <adj-ckt-id-out> <adj-lan-prio-out> } ] <adj-resurrect-out> [ {
<adj-resurrect-count-out> <adj-resurrect-hwm-out> } ] [ TABLE_mt_id <adj-topoid-out> [ <adj-mtver-out>
] <adj-dataup-out> ] } ] [ TABLE_adj_summ <adj-summ-p2p-level-out> <adj-summ-p2p-state-out>
<adj-summ-p2p-count-out> ] ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
adjacency	Display IS-IS adjacency information
topology	(Optional) Display IS-IS Topology information
<i>topo-id</i>	(Optional) Specific topology information
<i>interface</i>	(Optional) IS-IS interface
system-id	(Optional) Hostname or System ID
<i>sid</i>	(Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX)
detail	(Optional) Display IS-IS adjacency detail information
p2p-level-1-2	(Optional) Display IS-IS point-to-point information at level-1-2
summary	(Optional) Display IS-IS adjacency summary information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>adj-summary-out</i>	(Optional)
<i>adj-interface-out</i>	(Optional)
<i>adj-interface-name-out</i>	(Optional)
TABLE_sys_name	(Optional)

<i>adj-sys-name-out</i>	(Optional)
<i>adj-sys-id-out</i>	(Optional)
<i>adj-usage-out</i>	(Optional)
<i>adj-level-out</i>	(Optional)
<i>adj-state-out</i>	(Optional)
<i>adj-hold-time-out</i>	(Optional)
<i>adj-intf-name-out</i>	(Optional)
<i>adj-detail-set-out</i>	(Optional)
<i>adj-transitions-out</i>	(Optional)
<i>adj-flap-out</i>	(Optional)
<i>adj-flap-time-out</i>	(Optional)
<i>adj-ckt-type-out</i>	(Optional)
<i>adj-bcast-out</i>	(Optional)
<i>adj-ckt-id-out</i>	(Optional)
<i>adj-lan-prio-out</i>	(Optional)
<i>adj-resurrect-out</i>	(Optional)
<i>adj-resurrect-count-out</i>	(Optional)
<i>adj-resurrect-hwm-out</i>	(Optional)
TABLE_mt_id	(Optional)
<i>adj-topoid-out</i>	(Optional)
<i>adj-dataup-out</i>	(Optional)
TABLE_adj_summ	(Optional)
<i>adj-summ-p2p-level-out</i>	(Optional)
<i>adj-summ-p2p-state-out</i>	(Optional)
<i>adj-summ-p2p-count-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis database

```
show fabricpath isis [ <l2mp-isis-tag> ] database [ <level> ] [ mgroup ] [ detail | advertise | summary ] [ <lid>
] { [ zero-sequence ] | [ router-id <rid> ] | [ adjacency <adj-id> ] } [ __readonly__ [ TABLE_process_tag
<process-tag-out> [ <dbase-hname-absent-out> ] [ TABLE_lsp_name <dbase-lsp-name-out>
<dbase-lsp-status-out> <dbase-lsp-absent-out> [ <dbase-lsp-seqnum-out> <dbase-lsp-cksum-out>
<dbase-lsp-lifetime-out> <dbase-att-out> <dbase-partition-out> <dbase-overload-out> <dbase-istype-out> ]
[ <dbase-lsp-instance-out> [ TABLE_lsp_tlv <dbase-lsp-tlv-name-out> [ <dbase-lsp-area-addr-out> ] [
<dbase-lsp-is-nbr-name-out> <dbase-lsp-is-nbr-metric-out> <dbase-lsp-is-nbr-ext-metric-out> ] [
<dbase-lsp-es-nbr-name-out> <dbase-lsp-es-nbr-metric-out> <dbase-lsp-es-nbr-ext-metric-out> ] [
<dbase-lsp-auth-type-out> <dbase-lsp-auth-len-out> ] [ <dbase-lsp-ext-is-name-out>
<dbase-lsp-ext-is-metric-out> ] [ <dbase-lsp-ip-ri-addr-out> <dbase-lsp-ip-ri-mask-out>
<dbase-lsp-ip-ri-metric-out> <dbase-lsp-ip-ri-ext-metric-out> <dbase-lsp-ip-ri-up-down-out> ] [
TABLE_lsp_nlpid <dbase-lsp-prot-support-out> ] [ <dbase-lsp-ip-addr-out> ] [ <dbase-lsp-ipv6-addr-out> ]
[ <dbase-lsp-hname-out> <dbase-lsp-hname-len-out> ] [ <dbase-lsp-tlv-unknown-out> <dbase-lsp-tlv-len-out>
] [ <dbase-lsp-extip-addr-out> <dbase-lsp-extip-prefix-len-out> <dbase-lsp-extip-metric-out>
<dbase-lsp-extip-up-down-out> ] [ <dbase-lsp-extip6-addr-out> <dbase-lsp-extip6-prefix-len-out>
<dbase-lsp-extip6-metric-out> <dbase-lsp-extip6-up-down-out> <dbase-lsp-extip6-ext-origin-out> ] [
TABLE_lsp_subtlv <dbase-lsp-subtlv-name-out> [ <dbase-lsp-extis-admin-group-out> ] [
<dbase-lsp-subtlv-ip-addr-out> ] [ <dbase-lsp-extis-bw-out> ] [ <dbase-lsp-extis-te-metric-out> ] [
<dbase-lsp-extis-pri1-out> ] [ <dbase-lsp-extis-pri1-val-out> ] [ <dbase-lsp-extis-pri2-out> ] [
<dbase-lsp-extis-pri2-val-out> ] [ <dbase-lsp-subtlv-len-out> ] [ <dbase-lsp-subtlv-unknown-out> ] ] [
<dbase-lsp-digest-out> ] ] [ <dbase-lsp-total-out> <dbase-lsp-empty-out> <dbase-lsp-zeroseq-out> ] ] ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
database	Display IS-IS database information
<i>level</i>	(Optional) IS-IS level
mgroup	(Optional) Display IS-IS GM database information
<i>lid</i>	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
detail	(Optional) Display detailed IS-IS information
advertise	(Optional) Display advertise tlv lsp-memory information
summary	(Optional) Display summary IS-IS information
zero-sequence	(Optional) LSP with zero sequence number
adjacency	(Optional) Adjacency filter
<i>adj-id</i>	(Optional) Single exact match adjacency filter

router-id	(Optional) Router-id filter
<i>rid</i>	(Optional) single exact match router-id filter
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>dbase-hname-absent-out</i>	(Optional)
TABLE_lsp_name	(Optional)
<i>dbase-lsp-name-out</i>	(Optional)
<i>dbase-lsp-status-out</i>	(Optional)
<i>dbase-lsp-absent-out</i>	(Optional)
<i>dbase-lsp-seqnum-out</i>	(Optional)
<i>dbase-lsp-cksum-out</i>	(Optional)
<i>dbase-lsp-lifetime-out</i>	(Optional)
<i>dbase-att-out</i>	(Optional)
<i>dbase-partition-out</i>	(Optional)
<i>dbase-overload-out</i>	(Optional)
<i>dbase-istype-out</i>	(Optional)
<i>dbase-lsp-instance-out</i>	(Optional)
TABLE_lsp_tlv	(Optional)
<i>dbase-lsp-tlv-name-out</i>	(Optional)
<i>dbase-lsp-digest-out</i>	(Optional)
<i>dbase-lsp-area-addr-out</i>	(Optional)
<i>dbase-lsp-is-nbr-name-out</i>	(Optional)
<i>dbase-lsp-is-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-is-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-name-out</i>	(Optional)
<i>dbase-lsp-es-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-auth-type-out</i>	(Optional)

<i>dbase-lsp-auth-len-out</i>	(Optional)
<i>dbase-lsp-ext-is-name-out</i>	(Optional)
<i>dbase-lsp-ext-is-metric-out</i>	(Optional)
TABLE_lsp_subtlv	(Optional)
<i>dbase-lsp-subtlv-name-out</i>	(Optional)
<i>dbase-lsp-extis-admin-group-out</i>	(Optional)
<i>dbase-lsp-subtlv-ip-addr-out</i>	(Optional)
<i>dbase-lsp-extis-bw-out</i>	(Optional)
<i>dbase-lsp-extis-te-metric-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-val-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-val-out</i>	(Optional)
<i>dbase-lsp-subtlv-unknown-out</i>	(Optional)
<i>dbase-lsp-subtlv-len-out</i>	(Optional)
<i>dbase-lsp-tlv-unknown-out</i>	(Optional)
<i>dbase-lsp-tlv-len-out</i>	(Optional)
<i>dbase-lsp-extip-addr-out</i>	(Optional)
<i>dbase-lsp-extip-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extip-metric-out</i>	(Optional)
<i>dbase-lsp-extip-up-down-out</i>	(Optional)
<i>dbase-lsp-extipv6-addr-out</i>	(Optional)
<i>dbase-lsp-extipv6-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extipv6-metric-out</i>	(Optional)
<i>dbase-lsp-extipv6-up-down-out</i>	(Optional)
<i>dbase-lsp-extipv6-ext-origin-out</i>	(Optional)
<i>dbase-lsp-ip-ri-addr-out</i>	(Optional)
<i>dbase-lsp-ip-ri-mask-out</i>	(Optional)
<i>dbase-lsp-ip-ri-metric-out</i>	(Optional)

<i>dbase-lsp-ip-ri-ext-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-up-down-out</i>	(Optional)
TABLE_lsp_nlpid	(Optional)
<i>dbase-lsp-prot-support-out</i>	(Optional)
<i>dbase-lsp-ip-addr-out</i>	(Optional)
<i>dbase-lsp-hname-out</i>	(Optional)
<i>dbase-lsp-hname-len-out</i>	(Optional)
<i>dbase-lsp-ipv6-addr-out</i>	(Optional)
<i>dbase-lsp-total-out</i>	(Optional)
<i>dbase-lsp-empty-out</i>	(Optional)
<i>dbase-lsp-zeroseq-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis ftag

```
show fabricpath isis [ <l2mp-isis-tag> ] [ topology <topo-id> ] ftag [ multideestination <tree-id> ] [ __readonly__
TABLE_process_tag <process-tag-out> TABLE_topo_id <ftag-topo-id-out> TABLE_graph_type
<ftag-graph-type-out> <ftag-graph-id-out> <ftag-primary-out> <ftag-primary-tentative-out>
<ftag-secondary-out> <ftag-secondary-tentative-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
topology	(Optional) Display IS-IS Topology information
<i>topo-id</i>	(Optional) Specific topology information
ftag	Display forwarding tag information
multideestination	(Optional) Display multideestination information
<i>tree-id</i>	(Optional) Specific tree identifier
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_topo_id	(Optional)
<i>ftag-topo-id-out</i>	(Optional)
TABLE_graph_type	(Optional)
<i>ftag-graph-type-out</i>	(Optional)
<i>ftag-graph-id-out</i>	(Optional)
<i>ftag-primary-out</i>	(Optional)
<i>ftag-primary-tentative-out</i>	(Optional)
<i>ftag-secondary-out</i>	(Optional)
<i>ftag-secondary-tentative-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis hostname

```
show fabricpath isis [ <l2mp-isis-tag> ] hostname [ detail | switch-id ] [ __readonly__ TABLE_process_tag
<process-tag-out> <hname-enabled-out> <hname-detail-out> TABLE_hname_id <hname-id-out>
<hname-level-out> <hname-id-mine-out> <hname-name-out> [ <hname-swid-id-out> ] ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
hostname	Display IS-IS hostname table information
detail	(Optional) Display detailed IS-IS information
switch-id	(Optional) Display IS-IS hostname table with Switch ID information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>hname-enabled-out</i>	(Optional)
<i>hname-detail-out</i>	(Optional)
TABLE_hname_id	(Optional)
<i>hname-id-out</i>	(Optional)
<i>hname-level-out</i>	(Optional)
<i>hname-id-mine-out</i>	(Optional)
<i>hname-name-out</i>	(Optional)
<i>hname-swid-id-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis interface

```
show fabricpath isis [ <l2mp-isis-tag> ] interface [ brief | <interface> ] [ __readonly__ TABLE_process_tag
<process-tag-out> <intf-name-out> <intf-status-out> <intf-mtu-out> <intf-state-out> <intf-internal-state-out>
<intf-cib-disabled-out> <intf-cid-invalid-out> <intf-ix-out> <intf-cid-out> <intf-ckt-type-out>
<intf-auth-info-out> <intf-auth-chk-info-out> <intf-auth-kchain-out> <intf-passive-mask-out>
<intf-passive-mask-lvl-out> <intf-mgrp-set-out> <intf-mgrp-state-out> <intf-mgrp-id-out> <intf-p2p-type-out>
<intf-p2p-ext-local-cid-out> <intf-p2p-cid-out> <intf-retx-intv-out> <intf-retx-throttle-out>
<intf-loopback-type-out> <intf-lsp-intv-out> <intf-hpad-state-out> <intf-p2p-pad-ts-out>
<intf-p2p-adj-count-out> <intf-p2p-adj-up-count-out> <intf-p2p-prio-out> <intf-p2p-hello-intv-out>
<intf-p2p-hello-multi-out> <intf-p2p-hello-next-out> <intf-p2p-lvl-out> <intf-p2p-adj-lvl-out>
<intf-p2p-adj-up-lvl-out> <intf-p2p-metric-lvl-out> <intf-p2p-csnp-lvl-out> <intf-p2p-csnp-nxt-lvl-out>
<intf-p2p-lspid-last-lvl-out> <intf-bcast-type-out> <intf-bcast-lvl-out> <intf-bcast-pad-ts-out>
<intf-bcast-lvl-dis-out> <intf-bcast-dis-ts-out> <intf-bcast-lvl-info-out> <intf-bcast-lvl-metric-out>
<intf-bcast-lvl-csnp-intv-out> <intf-bcast-lvl-csnp-next-out> <intf-bcast-lvl-iih-intv-out>
<intf-bcast-lvl-iih-multi-out> <intf-bcast-lvl-iih-next-out> <intf-bcast-lvl-value-out> <intf-bcast-lvl-adj-out>
<intf-bcast-lvl-adj-up-out> <intf-bcast-lvl-prio-out> <intf-bcast-lvl-ctid-out> <intf-bcast-lvl-ctid-ts-out>
<intf-loopback-lvl-out> <intf-loopback-lvl-metric-out> <intf-loopback-lvl-prio-out> <intf-loopback-lvl-adj-out>
<intf-loopback-lvl-adj-up-out> <intf-unknown-out> <intf-type-out> <intf-ready-state-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
brief	(Optional) Brief display of IS-IS interfaces
interface	Display IS-IS interface information
<i>interface</i>	(Optional) IS-IS interface
<i>__readonly__</i>	(Optional)
<i>TABLE_process_tag</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>intf-name-out</i>	(Optional)
<i>intf-status-out</i>	(Optional)
<i>intf-mtu-out</i>	(Optional)
<i>intf-state-out</i>	(Optional)
<i>intf-auth-info-out</i>	(Optional)
<i>intf-auth-chk-info-out</i>	(Optional)

<i>intf-auth-kchain-out</i>	(Optional)
<i>intf-internal-state-out</i>	(Optional)
<i>intf-cib-disabled-out</i>	(Optional)
<i>intf-cid-invalid-out</i>	(Optional)
<i>intf-ix-out</i>	(Optional)
<i>intf-cid-out</i>	(Optional)
<i>intf-ckt-type-out</i>	(Optional)
<i>intf-passive-mask-out</i>	(Optional)
<i>intf-passive-mask-lvl-out</i>	(Optional)
<i>intf-mgrp-set-out</i>	(Optional)
<i>intf-mgrp-state-out</i>	(Optional)
<i>intf-mgrp-id-out</i>	(Optional)
<i>intf-p2p-type-out</i>	(Optional)
<i>intf-p2p-ext-local-cid-out</i>	(Optional)
<i>intf-p2p-cid-out</i>	(Optional)
<i>intf-retx-intv-out</i>	(Optional)
<i>intf-retx-throttle-out</i>	(Optional)
<i>intf-loopback-type-out</i>	(Optional)
<i>intf-lsp-intv-out</i>	(Optional)
<i>intf-hpad-state-out</i>	(Optional)
<i>intf-p2p-pad-ts-out</i>	(Optional)
<i>intf-p2p-adj-count-out</i>	(Optional)
<i>intf-p2p-adj-up-count-out</i>	(Optional)
<i>intf-p2p-prio-out</i>	(Optional)
<i>intf-p2p-hello-intv-out</i>	(Optional)
<i>intf-p2p-hello-multi-out</i>	(Optional)
<i>intf-p2p-hello-next-out</i>	(Optional)
<i>intf-p2p-lvl-out</i>	(Optional)
<i>intf-p2p-adj-lvl-out</i>	(Optional)

<i>intf-p2p-adj-up-lvl-out</i>	(Optional)
<i>intf-p2p-metric-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-next-lvl-out</i>	(Optional)
<i>intf-p2p-lspid-last-lvl-out</i>	(Optional)
<i>intf-bcast-type-out</i>	(Optional)
<i>intf-bcast-lvl-out</i>	(Optional)
<i>intf-bcast-pad-ts-out</i>	(Optional)
<i>intf-bcast-lvl-dis-out</i>	(Optional)
<i>intf-bcast-dis-ts-out</i>	(Optional)
<i>intf-bcast-lvl-info-out</i>	(Optional)
<i>intf-bcast-lvl-metric-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-intv-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-next-out</i>	(Optional)
<i>intf-bcast-lvl-iih-intv-out</i>	(Optional)
<i>intf-bcast-lvl-iih-multi-out</i>	(Optional)
<i>intf-bcast-lvl-iih-next-out</i>	(Optional)
<i>intf-bcast-lvl-value-out</i>	(Optional)
<i>intf-bcast-lvl-adj-out</i>	(Optional)
<i>intf-bcast-lvl-adj-up-out</i>	(Optional)
<i>intf-bcast-lvl-prio-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-ts-out</i>	(Optional)
<i>intf-loopback-lvl-out</i>	(Optional)
<i>intf-loopback-lvl-metric-out</i>	(Optional)
<i>intf-loopback-lvl-prio-out</i>	(Optional)
<i>intf-loopback-lvl-adj-out</i>	(Optional)
<i>intf-loopback-lvl-adj-up-out</i>	(Optional)
<i>intf-unknown-out</i>	(Optional)

<i>intf-type-out</i>	(Optional)
<i>intf-ready-state-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis ip mroute

```
show fabricpath isis [ <l2mp-isis-tag> ] ip mroute [ vlan <vlan-id> ] [ group <gip-addr> ] [ source <sip-addr> ] [ omf ] [ flood ] [ __readonly__ TABLE_process_tag <process-tag-out> <mroute-ipv4-vlanid-out> <mroute-ipv4-source-addr-out> <mroute-ipv4-group-addr-out> <mroute-ipv4-type-out> <mroute-ipv4-oif-count-out> <mroute-ipv4-swid-hex-out> <mroute-ipv4-swid-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
ip	Display IS-IS IPv4 information
mroute	Display IS-IS multicast group information
vlan	(Optional) Display IS-IS VLAN information
<i>vlan-id</i>	(Optional) Display IS-IS VLAN information
group	(Optional) Display IS-IS Group information
source	(Optional) Display IS-IS Source information
omf	(Optional) Display IS-IS OMF information
flood	(Optional) Display IS-IS FLOOD information
<i>gip-addr</i>	(Optional) Display single IP redistribute route
<i>sip-addr</i>	(Optional) Display single IP redistribute route
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>mroute-ipv4-vlanid-out</i>	(Optional)
<i>mroute-ipv4-source-addr-out</i>	(Optional)
<i>mroute-ipv4-group-addr-out</i>	(Optional)
<i>mroute-ipv4-type-out</i>	(Optional)
<i>mroute-ipv4-oif-count-out</i>	(Optional)
<i>mroute-ipv4-swid-hex-out</i>	(Optional)

<i>mroute-ipv4-swid-out</i>	(Optional)
-----------------------------	------------

Command Mode

- /exec

show fabricpath isis ip redistribute mroute

```
show fabricpath isis [ <l2mp-isis-tag> ] ip redistribute mroute [ vlan <vlan-id> ] [ group <gip-addr> ] [ source
<sip-addr> ] [ omf ] [ flood ] [ __readonly__ TABLE_process_tag <process-tag-out>
<redist-ipv4-mrouter-vlanid-out> <redist-ipv4-vlanid-out> <redist-ipv4-source-addr-out>
<redist-ipv4-group-addr-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
redistribute	Display IS-IS redistribute information
mroute	Display IS-IS multicast group information
vlan	(Optional) Display IS-IS VLAN information
<i>vlan-id</i>	(Optional) Display IS-IS VLAN information
group	(Optional) Display IS-IS Group information
source	(Optional) Display IS-IS Source information
omf	(Optional) Display IS-IS OMF information
flood	(Optional) Display IS-IS FLOOD information
ip	Display IS-IS IPv4 information
<i>gip-addr</i>	(Optional) Display single IP redistribute route
<i>sip-addr</i>	(Optional) Display single IP redistribute route
<i>__readonly__</i>	(Optional)
<i>TABLE_process_tag</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>redist-ipv4-mrouter-vlanid-out</i>	(Optional)
<i>redist-ipv4-vlanid-out</i>	(Optional)
<i>redist-ipv4-source-addr-out</i>	(Optional)
<i>redist-ipv4-group-addr-out</i>	(Optional)

Command Mode

show fabricpath isis ip redistribute mroute

- /exec

show fabricpath isis ip redistribute route show fabricpath isis ipv6 redistribute route

```
show fabricpath isis [ <l2mp-isis-tag> ] ip redistribute route [ [ summary | <ip-addr> | <ip-prefix> [
longer-prefixes [ summary ] ] ] ] [ direct-mask ] | show fabricpath isis [ <l2mp-isis-tag> ] ipv6 redistribute
route [ summary | <ipv6-addr> | <ipv6-prefix> [ longer-prefixes [ summary ] ] ] [ direct-mask ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ip	Display IS-IS IPv4 information
ipv6	Display IS-IS IPv6 information
<i>ip-addr</i>	(Optional) Display single IP redistribute route
<i>ip-prefix</i>	(Optional) Display single exact match IP redistribute route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
direct-mask	(Optional) Display routes with direct-mask set
<i>l2mp-isis-tag</i>	(Optional)

Command Mode

- /exec

show fabricpath isis ip route show fabricpath isis ipv6 route

```
show fabricpath isis [ <l2mp-isis-tag> ] ip route [ [ summary | <ip-addr> | <ip-prefix> [ longer-prefixes [
summary ] ] ] ] | show fabricpath isis [ <l2mp-isis-tag> ] ipv6 route [ summary | <ipv6-addr> | <ipv6-prefix>
[ longer-prefixes [ summary ] ] ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
route	Display ISIS redistribute route
ip	Display IS-IS IPv4 information
ipv6	Display IS-IS IPv6 information
<i>ip-addr</i>	(Optional) Display single IP redistribute route
<i>ip-prefix</i>	(Optional) Display single exact match IP redistribute route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
<i>l2mp-isis-tag</i>	(Optional)

Command Mode

- /exec

show fabricpath isis ipv6 mroute

```
show fabricpath isis [ <l2mp-isis-tag> ] ipv6 mroute [ vlan <vlan-id> ] [ group <gip-addr> ] [ source <sip-addr> ] [ __readonly__ TABLE_process_tag <process-tag-out> <mroute-ipv6-vlanid-out> <mroute-ipv6-source-addr-out> <mroute-ipv6-group-addr-out> <mroute-ipv6-oif-count-out> <mroute-ipv6-swid-hex-out> <mroute-ipv6-swid-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
ipv6	Display IS-IS IPv6 information
mroute	Display IS-IS multicast group information
vlan	(Optional) Display IS-IS VLAN information
<i>vlan-id</i>	(Optional) Display IS-IS VLAN information
group	(Optional) Display IS-IS Group information
source	(Optional) Display IS-IS Source information
<i>__readonly__</i>	(Optional)
<i>TABLE_process_tag</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>mroute-ipv6-vlanid-out</i>	(Optional)
<i>mroute-ipv6-source-addr-out</i>	(Optional)
<i>mroute-ipv6-group-addr-out</i>	(Optional)
<i>mroute-ipv6-oif-count-out</i>	(Optional)
<i>mroute-ipv6-swid-hex-out</i>	(Optional)
<i>mroute-ipv6-swid-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis ipv6 redistribute mroute

```
show fabricpath isis [ <l2mp-isis-tag> ] ipv6 redistribute mroute [ vlan <vlan-id> ] [ group <gip-addr> ] [
source <sip-addr> ] [ __readonly__ TABLE_process_tag <process-tag-out> <redist-ipv6-mrouter-vlanid-out>
<redist-ipv6-vlanid-out> <redist-ipv6-source-addr-out> <redist-ipv6-group-addr-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
redistribute	Display IS-IS redistribute information
mroute	Display IS-IS multicast group information
vlan	(Optional) Display IS-IS VLAN information
<i>vlan-id</i>	(Optional) Display IS-IS VLAN information
group	(Optional) Display IS-IS Group information
source	(Optional) Display IS-IS Source information
ipv6	Display IS-IS IPv6 information
<i>__readonly__</i>	(Optional)
<i>TABLE_process_tag</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>redist-ipv6-mrouter-vlanid-out</i>	(Optional)
<i>redist-ipv6-vlanid-out</i>	(Optional)
<i>redist-ipv6-source-addr-out</i>	(Optional)
<i>redist-ipv6-group-addr-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis mac mroute

```
show fabricpath isis [ <l2mp-isis-tag> ] mac mroute [ vlan <vlan-id> ] [ group <gmac-addr> ] [ source
<smac-addr> ] [ __readonly__ TABLE_process_tag <process-tag-out> <mroute-mac-vlanid-out>
<mroute-mac-source-addr-out> <mroute-mac-group-addr-out> <mroute-mac-oif-count-out>
<mroute-mac-swid-hex-out> <mroute-mac-swid-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
mac	Display IS-IS MAC information
mroute	Display IS-IS multicast group information
vlan	(Optional) Display IS-IS VLAN information
<i>vlan-id</i>	(Optional) Display IS-IS VLAN information
group	(Optional) Display IS-IS Group information
source	(Optional) Display IS-IS Source information
<i>gmac-addr</i>	(Optional) Display single MAC redistribute route
<i>smac-addr</i>	(Optional) Display single MAC redistribute route
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>mroute-mac-vlanid-out</i>	(Optional)
<i>mroute-mac-source-addr-out</i>	(Optional)
<i>mroute-mac-group-addr-out</i>	(Optional)
<i>mroute-mac-oif-count-out</i>	(Optional)
<i>mroute-mac-swid-hex-out</i>	(Optional)
<i>mroute-mac-swid-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis mac redistribute mroute

```
show fabricpath isis [ <l2mp-isis-tag> ] mac redistribute mroute [ vlan <vlan-id> ] [ group <gmac-addr> ] [
source <smac-addr> ] [ __readonly__ TABLE_process_tag <process-tag-out> <redist-mac-mrouter-vlanid-out>
<redist-mac-vlanid-out> <redist-mac-source-addr-out> <redist-mac-group-addr-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
redistribute	Display IS-IS redistribute information
mroute	Display IS-IS multicast group information
vlan	(Optional) Display IS-IS VLAN information
<i>vlan-id</i>	(Optional) Display IS-IS VLAN information
group	(Optional) Display IS-IS Group information
source	(Optional) Display IS-IS Source information
mac	Display IS-IS MAC information
<i>gmac-addr</i>	(Optional) Display single MAC redistribute route
<i>smac-addr</i>	(Optional) Display single MAC redistribute route
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>redist-mac-mrouter-vlanid-out</i>	(Optional)
<i>redist-mac-vlanid-out</i>	(Optional)
<i>redist-mac-source-addr-out</i>	(Optional)
<i>redist-mac-group-addr-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis mesh-group

```
show fabricpath isis [ <l2mp-isis-tag> ] mesh-group [ <mesh-id> ] [ __readonly__ TABLE_process_tag
<process-tag-out> <mesh-id-set-out> <mesh-id-out> <mesh-set-id-out> <mesh-id-intf-name-out>
<mesh-id-none-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
mesh-group	Display IS-IS mesh-groups
<i>mesh-id</i>	(Optional) Display a single mesh-group
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>mesh-id-set-out</i>	(Optional)
<i>mesh-id-out</i>	(Optional)
<i>mesh-set-id-out</i>	(Optional)
<i>mesh-id-intf-name-out</i>	(Optional)
<i>mesh-id-none-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis route

```
show fabricpath isis [ <l2mp-isis-tag> ] [ topology <topo-id> ] route [ summary | detail | is | ip2mac ] [
__readonly__ TABLE_process_tag <process-tag-out> TABLE_mt_id <route-topoid-out> TABLE_graph_id
<route-graphid-out> <route-afi-safi-out> TABLE_route_entry <route-route-id-out> <route-absent-out>
<route-lvl-absent-out> <route-prefix-out> <route-level-out> <route-summ-discard-addr-out>
<route-discard-addr-out> <route-addr-print-out> <route-header-level-out> <route-direct-print-out>
<route-direct-out> <route-direct-via-out> <route-direct-if-name-out> <route-direct-metric-out>
<route-direct-level-out> <route-direct-instance-out> <route-marker-out> <route-addr-valid-out>
TABLE_if_entry <route-ifname-out> <route-metric-out> <route-pref-out> <route-no-def-prefix-out>
<route-instance-out> <route-discard-mask-out> <route-sum-prefix-out> <route-sum-prefix-len-out>
<route-total-out> <route-paths-total-out> <route-paths-best-out> <route-paths-backup-out> <route-sum-lvl-out>
<route-sum-total-out> <route-sum-direct-out> <route-sum-normal-out> <route-sum-missing-out>
<route-best-pend-num-out> <route-bestpaths-out> <route-backuppaths-out> <route-path-sum-lvl-out>
<route-path-sum-total-out> <route-path-sum-direct-out> <route-path-sum-normal-out>
<route-bestroutes-per-mask-out> <route-best-mask-val-out> <route-best-mask-count-out>
<route-pend-q-count-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
topology	(Optional) Display IS-IS Topology information
<i>topo-id</i>	(Optional) Specific topology information
is	(Optional) Display IS route
ip2mac	(Optional) Display reachable IP/MAC mapping information
route	Display IS-IS route information
summary	(Optional) Display route counts
detail	(Optional) Display detail route information
<u>__readonly__</u>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_mt_id	(Optional)
<i>route-topoid-out</i>	(Optional)
TABLE_graph_id	(Optional)

<i>route-graphid-out</i>	(Optional)
<i>route-afi-safi-out</i>	(Optional)
TABLE_route_entry	(Optional)
<i>route-route-id-out</i>	(Optional)
<i>route-absent-out</i>	(Optional)
<i>route-lvl-absent-out</i>	(Optional)
<i>route-prefix-out</i>	(Optional)
<i>route-level-out</i>	(Optional)
<i>route-summ-discard-addr-out</i>	(Optional)
<i>route-discard-addr-out</i>	(Optional)
<i>route-addr-print-out</i>	(Optional)
<i>route-header-level-out</i>	(Optional)
<i>route-direct-print-out</i>	(Optional)
<i>route-direct-out</i>	(Optional)
<i>route-direct-via-out</i>	(Optional)
<i>route-direct-if-name-out</i>	(Optional)
<i>route-direct-metric-out</i>	(Optional)
<i>route-direct-level-out</i>	(Optional)
<i>route-direct-instance-out</i>	(Optional)
<i>route-marker-out</i>	(Optional)
<i>route-addr-valid-out</i>	(Optional)
TABLE_if_entry	(Optional)
<i>route-ifname-out</i>	(Optional)
<i>route-metric-out</i>	(Optional)
<i>route-pref-out</i>	(Optional)
<i>route-instance-out</i>	(Optional)
<i>route-no-def-prefix-out</i>	(Optional)
<i>route-discard-mask-out</i>	(Optional)
<i>route-sum-prefix-out</i>	(Optional)

<i>route-sum-prefix-len-out</i>	(Optional)
<i>route-total-out</i>	(Optional)
<i>route-paths-total-out</i>	(Optional)
<i>route-paths-best-out</i>	(Optional)
<i>route-paths-backup-out</i>	(Optional)
<i>route-sum-lvl-out</i>	(Optional)
<i>route-sum-total-out</i>	(Optional)
<i>route-sum-direct-out</i>	(Optional)
<i>route-sum-normal-out</i>	(Optional)
<i>route-sum-missing-out</i>	(Optional)
<i>route-best-pend-num-out</i>	(Optional)
<i>route-bestpaths-out</i>	(Optional)
<i>route-backuppaths-out</i>	(Optional)
<i>route-path-sum-lvl-out</i>	(Optional)
<i>route-path-sum-total-out</i>	(Optional)
<i>route-path-sum-direct-out</i>	(Optional)
<i>route-path-sum-normal-out</i>	(Optional)
<i>route-bestroutes-per-mask-out</i>	(Optional)
<i>route-best-mask-val-out</i>	(Optional)
<i>route-best-mask-count-out</i>	(Optional)
<i>route-pend-q-count-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis rrm

```
show fabricpath isis [ <l2mp-isis-tag> ] rrm [ gm ] <interface> [ __readonly__ TABLE_process_tag
<process-tag-out> <rrm-if-out> <rrm-if-p2p-out> <rrm-level-out> <rrm-retx-interval-out>
<rrm-retx-throttle-out> <rrm-retx-queue-len-out> <rrm-next-retx-out> <rrm-retx-queue-hwm-out>
<rrm-queue-exceed-out> <rrm-if-lsp-out> <rrm-lsp-name-out> <rrm-lsp-status-out> <rrm-lsp-absent-out>
<rrm-lsp-seqnum-out> <rrm-lsp-cksum-out> <rrm-lsp-lifetime-out> <rrm-lsp-attached-out>
<rrm-lsp-partition-out> <rrm-lsp-overload-out> <rrm-lsp-istype-out> <rrm-last-sent-time-out>
<rrm-invalid-retx-out> <rrm-invalid-db-out> <rrm-set-out> <rrm-srm-set-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
rrm	Display IS-IS Retransmit-Routing-Message information
gm	(Optional) Display IS-IS GM Retransmit-Routing-Message information
<i>interface</i>	IS-IS interface
<i>__readonly__</i>	(Optional)
<i>TABLE_process_tag</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>rrm-if-out</i>	(Optional)
<i>rrm-if-p2p-out</i>	(Optional)
<i>rrm-level-out</i>	(Optional)
<i>rrm-retx-interval-out</i>	(Optional)
<i>rrm-retx-throttle-out</i>	(Optional)
<i>rrm-retx-queue-len-out</i>	(Optional)
<i>rrm-next-retx-out</i>	(Optional)
<i>rrm-retx-queue-hwm-out</i>	(Optional)
<i>rrm-queue-exceed-out</i>	(Optional)
<i>rrm-if-lsp-out</i>	(Optional)
<i>rrm-lsp-name-out</i>	(Optional)
<i>rrm-lsp-status-out</i>	(Optional)

<i>rrm-lsp-absent-out</i>	(Optional)
<i>rrm-lsp-seqnum-out</i>	(Optional)
<i>rrm-lsp-cksum-out</i>	(Optional)
<i>rrm-lsp-lifetime-out</i>	(Optional)
<i>rrm-lsp-attached-out</i>	(Optional)
<i>rrm-lsp-partition-out</i>	(Optional)
<i>rrm-lsp-overload-out</i>	(Optional)
<i>rrm-lsp-istype-out</i>	(Optional)
<i>rrm-last-sent-time-out</i>	(Optional)
<i>rrm-invalid-retx-out</i>	(Optional)
<i>rrm-invalid-db-out</i>	(Optional)
<i>rrm-set-out</i>	(Optional)
<i>rrm-srm-set-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis spf-log

```
show fabricpath isis [ <l2mp-isis-tag> ] spf-log [ detail ] [ __readonly__ TABLE_process_tag [
<process-tag-out> ] [ <spflog-calc-out> <spflog-size-out> <spflog-maxsize-out> ] [ TABLE_spflog_entry
<spflog-entry-num-out> <spflog-ago-time-out> <spflog-lvl-out> <spflog-reason-out> <spflog-count-out>
<spflog-elapsed-ts-out> ] [ TABLE_spflog_detail <spflog-log-num-out> <spflog-ts-detail-out>
<spflog-date-detail-out> <spflog-lvl-detail-out> <spflog-instance-detail-out> <spflog-init-ts-detail-out>
<spflog-spf-ts-detail-out> <spflog-detail-ts-is-out> <spflog-detail-ts-urib-out> <spflog-detail-ts-elapsed-out>
<spflog-detail-lvl-out> <spflog-detail-node-out> <spflog-detail-spf-cnt-out> <spflog-detail-sync-cnt-out>
<spflog-detail-spf-reason-out> ] ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
spf-log	Display IS-IS SPF information
detail	(Optional) Display detail ISIS SPF information
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>spflog-calc-out</i>	(Optional)
<i>spflog-size-out</i>	(Optional)
<i>spflog-maxsize-out</i>	(Optional)
TABLE_spflog_entry	(Optional)
<i>spflog-entry-num-out</i>	(Optional)
<i>spflog-ago-time-out</i>	(Optional)
<i>spflog-lvl-out</i>	(Optional)
<i>spflog-reason-out</i>	(Optional)
<i>spflog-count-out</i>	(Optional)
<i>spflog-elapsed-ts-out</i>	(Optional)
TABLE_spflog_detail	(Optional)
<i>spflog-log-num-out</i>	(Optional)

<i>spflog-ts-detail-out</i>	(Optional)
<i>spflog-date-detail-out</i>	(Optional)
<i>spflog-lvl-detail-out</i>	(Optional)
<i>spflog-instance-detail-out</i>	(Optional)
<i>spflog-init-ts-detail-out</i>	(Optional)
<i>spflog-spf-ts-detail-out</i>	(Optional)
<i>spflog-detail-ts-is-out</i>	(Optional)
<i>spflog-detail-ts-urib-out</i>	(Optional)
<i>spflog-detail-ts-elapsed-out</i>	(Optional)
<i>spflog-detail-lvl-out</i>	(Optional)
<i>spflog-detail-node-out</i>	(Optional)
<i>spflog-detail-spf-cnt-out</i>	(Optional)
<i>spflog-detail-sync-cnt-out</i>	(Optional)
<i>spflog-detail-spf-reason-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis srm

```
show fabricpath isis [ <l2mp-isis-tag> ] srm [ gm ] <interface> [ __readonly__ TABLE_process_tag
<process-tag-out> <srm-if-out> <srm-level-out> <srm-if-flood-out> <srm-if-stopped-out>
<srm-lsp-interval-out> <srm-next-lsp-out> [ TABLE_srm_lsp <srm-lsp-name-out> <srm-lsp-status-out> [
<srm-lsp-absent-out> ] [ <srm-lsp-seqnum-out> <srm-lsp-cksum-out> ] [ <srm-lsp-lifetime-out> ] [
<srm-lsp-attached-out> <srm-lsp-partition-out> <srm-lsp-overload-out> <srm-lsp-istype-out> ] [
<srm-txlist-status> ] ] ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
srm	Display IS-IS Send-Routing-Message information
gm	(Optional) Display IS-IS GM-Send-Routing-Message information
<i>interface</i>	IS-IS interface
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>srm-if-out</i>	(Optional)
<i>srm-level-out</i>	(Optional)
<i>srm-if-flood-out</i>	(Optional)
<i>srm-if-stopped-out</i>	(Optional)
<i>srm-lsp-interval-out</i>	(Optional)
<i>srm-next-lsp-out</i>	(Optional)
TABLE_srm_lsp	(Optional)
<i>srm-lsp-name-out</i>	(Optional)
<i>srm-lsp-status-out</i>	(Optional)
<i>srm-lsp-absent-out</i>	(Optional)
<i>srm-lsp-seqnum-out</i>	(Optional)
<i>srm-lsp-cksum-out</i>	(Optional)

<i>srm-lsp-lifetime-out</i>	(Optional)
<i>srm-lsp-attached-out</i>	(Optional)
<i>srm-lsp-partition-out</i>	(Optional)
<i>srm-lsp-overload-out</i>	(Optional)
<i>srm-lsp-istype-out</i>	(Optional)
<i>srm-txlist-status</i>	(Optional)

Command Mode

- /exec

show fabricpath isis ssn

```
show fabricpath isis [ <l2mp-isis-tag> ] ssn [ gm ] <interface> [ __readonly__ TABLE_process_tag
<process-tag-out> <ssn-if-out> <ssn-level-out> <ssn-psnp-capable-out> <ssn-next-psnp-out>
<ssn-lsp-name-out> <ssn-lsp-status-out> <ssn-lsp-absent-out> <ssn-lsp-seqnum-out> <ssn-lsp-cksum-out>
<ssn-lsp-lifetime-out> <ssn-lsp-attached-out> <ssn-lsp-partition-out> <ssn-lsp-overload-out>
<ssn-lsp-istype-out> <ssn-txlist-status-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
ssn	Display IS-IS Send-Sequence-Number information
gm	(Optional) Display IS-IS GM-Send-Sequence-Number information
<i>interface</i>	IS-IS interface
<i>__readonly__</i>	(Optional)
<i>TABLE_process_tag</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>ssn-if-out</i>	(Optional)
<i>ssn-level-out</i>	(Optional)
<i>ssn-psnp-capable-out</i>	(Optional)
<i>ssn-next-psnp-out</i>	(Optional)
<i>ssn-lsp-name-out</i>	(Optional)
<i>ssn-lsp-status-out</i>	(Optional)
<i>ssn-lsp-absent-out</i>	(Optional)
<i>ssn-lsp-seqnum-out</i>	(Optional)
<i>ssn-lsp-cksum-out</i>	(Optional)
<i>ssn-lsp-lifetime-out</i>	(Optional)
<i>ssn-lsp-attached-out</i>	(Optional)
<i>ssn-lsp-partition-out</i>	(Optional)
<i>ssn-lsp-overload-out</i>	(Optional)

<i>ssn-lsp-istype-out</i>	(Optional)
<i>ssn-txlist-status-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis statistics

```
show fabricpath isis [ <l2mp-isis-tag> ] statistics [ free ] [ __readonly__ TABLE_process_tag <process-tag-out>
<stat-spf-calc-out> <stat-lsp-sourced-out> <stat-lsp-refresh-out> <stat-lsp-purge-out> <stat-dis-elections-out>
]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
statistics	Display IS-IS protocol statistics
free	(Optional) Show free buffers
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>stat-spf-calc-out</i>	(Optional)
<i>stat-lsp-sourced-out</i>	(Optional)
<i>stat-lsp-refresh-out</i>	(Optional)
<i>stat-lsp-purge-out</i>	(Optional)
<i>stat-dis-elections-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis switch-id

```
show fabricpath isis [ <l2mp-isis-tag> ] [ topology <topo-id> ] switch-id [ ip2mac ] [ detail ] [ __readonly__
TABLE_process_tag <process-tag-out> TABLE_mt_id <swid-topoid-out> [ TABLE_sys_id <swid-sysid-out>
<swid-sysid-own-out> <swid-primary-out> <swid-primary-tentative-out> <swid-secondary-out>
<swid-secondary-tentative-out> <swid-topo-reachable-out> <swid-priority-out> <swid-es-out>
<swid-sticky-out> [ <swid-hostname-out> ] ] ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
topology	(Optional) Display IS-IS Topology information
<i>topo-id</i>	(Optional) Specific topology information
switch-id	Display Switch-ID Database
ip2mac	(Optional) Display IP to MAC entries
detail	(Optional) Display Hostname information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_mt_id	(Optional)
<i>swid-topoid-out</i>	(Optional)
TABLE_sys_id	(Optional)
<i>swid-sysid-out</i>	(Optional)
<i>swid-sysid-own-out</i>	(Optional)
<i>swid-primary-out</i>	(Optional)
<i>swid-primary-tentative-out</i>	(Optional)
<i>swid-secondary-out</i>	(Optional)
<i>swid-secondary-tentative-out</i>	(Optional)
<i>swid-topo-reachable-out</i>	(Optional)
<i>swid-priority-out</i>	(Optional)

<i>swid-es-out</i>	(Optional)
<i>swid-sticky-out</i>	(Optional)
<i>swid-hostname-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis topology

```
show fabricpath isis [ <l2mp-isis-tag> ] topology [ <topo-id> ] [ summary | view ] [ __readonly__
TABLE_process_tag <process-tag-out> [ TABLE_topology [ <topo-id-out> ] [ <topo-block-absent-out> ] [
TABLE_if_name <topo-if-name-out> ] [ <topo-ce-gateway-out> ] [ <topo-fcoe-capable-out> ] [
<topo-graphs-count-out> ] [ <topo-supp-graphs-count-out> ] [ TABLE_graph_id <topo-graph-id-out>
<topo-ftag-out> <topo-ftag-out-inactive> <topo-root-sys-out> ] [ <topo-source-system-name-out> ] [
<topo-dest-system-name-out> ] [ <topo-neighbor-count-out> ] ] ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
topology	Display IS-IS Topology information
<i>topo-id</i>	(Optional) Specific topology information
summary	(Optional) Display summary topology information
view	(Optional) Display global connectivity information
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_topology	(Optional)
<i>topo-id-out</i>	(Optional)
<i>topo-block-absent-out</i>	(Optional)
TABLE_if_name	(Optional)
<i>topo-if-name-out</i>	(Optional)
<i>topo-ce-gateway-out</i>	(Optional)
<i>topo-fcoe-capable-out</i>	(Optional)
<i>topo-graphs-count-out</i>	(Optional)
<i>topo-supp-graphs-count-out</i>	(Optional)
TABLE_graph_id	(Optional)
<i>topo-graph-id-out</i>	(Optional)

<i>topo-ftag-out</i>	(Optional)
<i>topo-root-sys-out</i>	(Optional)
<i>topo-ftag-out-inactive</i>	(Optional)
<i>topo-source-system-name-out</i>	(Optional)
<i>topo-dest-system-name-out</i>	(Optional)
<i>topo-neighbor-count-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis traffic

```
show fabricpath isis [ <l2mp-isis-tag> ] traffic [ <interface> ] [ mbuf-priority ] [ __readonly__
TABLE_process_tag <process-tag-out> <traffic-if-out> [ <traffic-if-name-out> ] <traffic-p2p-iih-out>
<traffic-p2p-iih-rcv-out> <traffic-p2p-iih-xmit-out> <traffic-p2p-iih-rcv-auth-err-out>
<traffic-p2p-iih-rcv-err-out> <traffic-p2p-iih-rexmit-out> <traffic-csnp-out> <traffic-csnp-rcv-out>
<traffic-csnp-xmit-out> <traffic-csnp-rcv-auth-err-out> <traffic-csnp-rcv-err-out> <traffic-csnp-rexmit-out>
<traffic-psnp-out> <traffic-psnp-rcv-out> <traffic-psnp-xmit-out> <traffic-psnp-rcv-auth-err-out>
<traffic-psnp-rcv-err-out> <traffic-psnp-rexmit-out> <traffic-lsp-out> <traffic-lsp-rcv-out>
<traffic-lsp-flood-out> <traffic-lsp-rcv-auth-err-out> <traffic-lsp-rcv-err-out> <traffic-lsp-rexmit-out>
<traffic-gmlsp-out> <traffic-gmlsp-rcv-out> <traffic-gmlsp-flood-out> <traffic-gmlsp-rcv-auth-err-out>
<traffic-gmlsp-rcv-err-out> <traffic-gmlsp-rexmit-out> [ <traffic-xmit-err-out> ] [
<traffic-unknown-pdu-rcv-out> ] ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
traffic	Display IS-IS traffic information
<i>interface</i>	(Optional) IS-IS interface
mbuf-priority	(Optional) Display mbuf priorities for received PDUs
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>traffic-if-out</i>	(Optional)
<i>traffic-if-name-out</i>	(Optional)
<i>traffic-p2p-iih-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-out</i>	(Optional)
<i>traffic-p2p-iih-xmit-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-auth-err-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-err-out</i>	(Optional)
<i>traffic-p2p-iih-rexmit-out</i>	(Optional)
<i>traffic-csnp-out</i>	(Optional)

<i>traffic-csnp-rcv-out</i>	(Optional)
<i>traffic-csnp-xmit-out</i>	(Optional)
<i>traffic-csnp-rcv-auth-err-out</i>	(Optional)
<i>traffic-csnp-rcv-err-out</i>	(Optional)
<i>traffic-csnp-rexmit-out</i>	(Optional)
<i>traffic-psnp-out</i>	(Optional)
<i>traffic-psnp-rcv-out</i>	(Optional)
<i>traffic-psnp-xmit-out</i>	(Optional)
<i>traffic-psnp-rcv-auth-err-out</i>	(Optional)
<i>traffic-psnp-rcv-err-out</i>	(Optional)
<i>traffic-psnp-rexmit-out</i>	(Optional)
<i>traffic-lsp-out</i>	(Optional)
<i>traffic-lsp-rcv-out</i>	(Optional)
<i>traffic-lsp-flood-out</i>	(Optional)
<i>traffic-lsp-rcv-auth-err-out</i>	(Optional)
<i>traffic-lsp-rcv-err-out</i>	(Optional)
<i>traffic-lsp-rexmit-out</i>	(Optional)
<i>traffic-gmlsp-out</i>	(Optional)
<i>traffic-gmlsp-rcv-out</i>	(Optional)
<i>traffic-gmlsp-flood-out</i>	(Optional)
<i>traffic-gmlsp-rcv-auth-err-out</i>	(Optional)
<i>traffic-gmlsp-rcv-err-out</i>	(Optional)
<i>traffic-gmlsp-rexmit-out</i>	(Optional)
<i>traffic-xmit-err-out</i>	(Optional)
<i>traffic-unknown-pdu-rcv-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis trees

```
show fabricpath isis [ <l2mp-isis-tag> ] [ topology <topo-id> ] trees [ [ multideestination <tree-id> ] [ is | detail ] ] [ __readonly__ TABLE_process_tag <process-tag-out> TABLE_mt_id <graph-topoid-out> TABLE_graph_id <graph-id-out> <graph-afi-safi-out> TABLE_route_entry <graph-route-id-out> <graph-lvl-absent-out> <graph-prefix-out> <graph-level-out> <graph-summ-discard-addr-out> <graph-discard-addr-out> <graph-addr-print-out> <graph-header-level-out> <graph-direct-print-out> <graph-direct-out> <graph-direct-via-out> <graph-direct-if-name-out> <graph-direct-metric-out> <graph-direct-level-out> <graph-direct-instance-out> <graph-marker-out> <graph-addr-valid-out> TABLE_if_entry <graph-ifname-out> <graph-metric-out> <graph-pref-out> <graph-no-def-prefix-out> <graph-instance-out> <graph-discard-mask-out> <graph-sum-prefix-out> <graph-sum-prefix-len-out> <graph-total-out> <graph-paths-total-out> <graph-paths-best-out> <graph-paths-backup-out> <graph-sum-lvl-out> <graph-sum-total-out> <graph-sum-direct-out> <graph-sum-normal-out> <graph-sum-missing-out> <graph-best-pend-num-out> <graph-bestpaths-out> <graph-backuppaths-out> <graph-bestroutes-per-mask-out> <graph-best-mask-val-out> <graph-best-mask-count-out> <graph-pend-q-count-out> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
topology	(Optional) Display IS-IS Topology information
<i>topo-id</i>	(Optional) Specific topology information
trees	Display IS-IS tree information
multideestination	(Optional) Display multideestination information
<i>tree-id</i>	(Optional) Specific tree identifier
is	(Optional) Shows the ISes
detail	(Optional) Show annotated output with direct neighbor info
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_mt_id	(Optional)
<i>graph-topoid-out</i>	(Optional)
TABLE_graph_id	(Optional)
<i>graph-id-out</i>	(Optional)

<i>graph-afi-safi-out</i>	(Optional)
TABLE_route_entry	(Optional)
<i>graph-route-id-out</i>	(Optional)
<i>graph-lvl-absent-out</i>	(Optional)
<i>graph-prefix-out</i>	(Optional)
<i>graph-level-out</i>	(Optional)
<i>graph-summ-discard-addr-out</i>	(Optional)
<i>graph-discard-addr-out</i>	(Optional)
<i>graph-addr-print-out</i>	(Optional)
<i>graph-header-level-out</i>	(Optional)
<i>graph-direct-print-out</i>	(Optional)
<i>graph-direct-out</i>	(Optional)
<i>graph-direct-via-out</i>	(Optional)
<i>graph-direct-if-name-out</i>	(Optional)
<i>graph-direct-metric-out</i>	(Optional)
<i>graph-direct-level-out</i>	(Optional)
<i>graph-direct-instance-out</i>	(Optional)
<i>graph-marker-out</i>	(Optional)
<i>graph-addr-valid-out</i>	(Optional)
<i>graph-no-def-prefix-out</i>	(Optional)
TABLE_if_entry	(Optional)
<i>graph-ifname-out</i>	(Optional)
<i>graph-metric-out</i>	(Optional)
<i>graph-pref-out</i>	(Optional)
<i>graph-instance-out</i>	(Optional)
<i>graph-discard-mask-out</i>	(Optional)
<i>graph-sum-prefix-out</i>	(Optional)
<i>graph-sum-prefix-len-out</i>	(Optional)
<i>graph-total-out</i>	(Optional)

<i>graph-paths-total-out</i>	(Optional)
<i>graph-paths-best-out</i>	(Optional)
<i>graph-paths-backup-out</i>	(Optional)
<i>graph-sum-lvl-out</i>	(Optional)
<i>graph-sum-total-out</i>	(Optional)
<i>graph-sum-direct-out</i>	(Optional)
<i>graph-sum-normal-out</i>	(Optional)
<i>graph-sum-missing-out</i>	(Optional)
<i>graph-best-pend-num-out</i>	(Optional)
<i>graph-bestpaths-out</i>	(Optional)
<i>graph-backuppaths-out</i>	(Optional)
<i>graph-bestroutes-per-mask-out</i>	(Optional)
<i>graph-best-mask-val-out</i>	(Optional)
<i>graph-best-mask-count-out</i>	(Optional)
<i>graph-pend-q-count-out</i>	(Optional)

Command Mode

- /exec

show fabricpath isis vlan-range

```
show fabricpath isis [ <l2mp-isis-tag> ] [ topology <topo-id> ] vlan-range [ __readonly__ TABLE_process_tag
<process-tag> [ TABLE_topology <topo-id> [ <vlan-id> ] ] ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
<i>l2mp-isis-tag</i>	(Optional) Fabricpath domain tag
topology	(Optional) Display IS-IS Topology information
<i>topo-id</i>	(Optional) Specific topology information
vlan-range	Displays vlans in the topology
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag</i>	(Optional)
TABLE_topology	(Optional)
<i>topo-id</i>	(Optional)
<i>vlan-id</i>	(Optional)

Command Mode

- /exec

show fabricpath load-balance

show fabricpath load-balance [*__readonly__* <is_mcast> <algo> [<pref>] <rotate_amount> <use_vlan> <xor_warn>]

Syntax Description

show	Show running system information
fabricpath	fabricpath information
load-balance	Show FabricPath load-balance information
<i>__readonly__</i>	(Optional) Read Only
<i>is_mcast</i>	(Optional) Is mcast config
<i>algo</i>	(Optional) Hash type used
<i>pref</i>	(Optional) Layer preference
<i>rotate_amount</i>	(Optional) Rotate ammount
<i>use_vlan</i>	(Optional) Use VLAN in hash
<i>xor_warn</i>	(Optional) XOR Warning

Command Mode

- /exec

show fabricpath load-balance multicast ftag-selected flow-type vlan module

```
show fabricpath load-balance multicast ftag-selected flow-type { l2 { { dst-mac <dst-mac> | src-mac <src-mac> } + { ether-type <ether-type> } } | l3 { dst-ip <dst-ip> | src-ip <src-ip> | dst-ipv6 <dst-ipv6> | src-ipv6 <src-ipv6> } + | l4 { { l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> } + [ dst-ip <dst-ip> | src-ip <src-ip> | dst-ipv6 <dst-ipv6> | src-ipv6 <src-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> ] + } } { vlan <vlan> } { module <mod-no> } [ __readonly__ <cmd_string> <is_dce_module> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
load-balance	Show FabricPath load-balance information
multicast	Show FabricPath multicast load-balance information
ftag-selected	ftag information
module	Ingress module at Fabricpath edge
<i>mod-no</i>	module number
flow-type	indicate flow type as L2 or L3 or L4
l4	indicate Layer 4 flow
l3	indicate Layer 3 flow
l2	indicate Layer 2 flow
dst-mac	Destination MAC Address
<i>dst-mac</i>	Mac Address
src-mac	Source MAC Address
<i>src-mac</i>	Mac Address
vlan	Virtual LAN
<i>vlan</i>	VLAN id
ether-type	Ether Type
<i>ether-type</i>	Ether Type id
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ip	Source IPv4 address

<i>src-ip</i>	Source IP address in format i.i.i.i
<i>dst-ipv6</i>	Destination IPv6 address
<i>src-ipv6</i>	Source IPv6 address
<i>l4-src-port</i>	Source L4 port
<i>l4-src-port</i>	L4 port number
<i>l4-dst-port</i>	Destination l4 port
<i>l4-dst-port</i>	L4 port number
<i>__readonly__</i>	(Optional) Read Only
<i>cmd_string</i>	(Optional) Command String
<i>is_dce_module</i>	(Optional) Whether Module is DCE

Command Mode

- /exec

show fabricpath load-balance unicast forwarding-path ftag switchid flow-type module

```
show fabricpath load-balance unicast forwarding-path ftag <ftag> switchid <swid> flow-type { l2 { { dst-mac <dst-mac> | src-mac <src-mac> } + { ether-type <ether-type> } } | l3 { dst-ip <dst-ip> | src-ip <src-ip> | dst-ipv6 <dst-ipv6> | src-ipv6 <src-ipv6> } + | l4 { { l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> } + [ dst-ip <dst-ip> | src-ip <src-ip> | dst-ipv6 <dst-ipv6> | src-ipv6 <src-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> ] + } } [ vlan <vlan> ] { module <mod-no> } [ __readonly__ <cmd_string> <is_dce_module> ]
```

Syntax Description

show	Show running system information
fabricpath	fabricpath information
load-balance	Show FabricPath load-balance information
unicast	Show FabricPath unicast load-balance information
forwarding-path	forwarding-path
module	Ingress module
<i>mod-no</i>	module number
ftag	ftag
<i>ftag</i>	ftag
switchid	switchid
<i>swid</i>	switch id
flow-type	indicate flow type as L2 or L3 or L4
l4	indicate Layer 4 flow
l3	indicate Layer 3 flow
l2	indicate Layer 2 flow
src-mac	Source MAC Address
<i>src-mac</i>	Mac Address
dst-mac	Destination MAC Address
<i>dst-mac</i>	Mac Address
vlan	(Optional) Virtual LAN
<i>vlan</i>	(Optional) VLAN id

ether-type	Ether Type
<i>ether-type</i>	Ether Type id
src-ip	Source IPv4 address
<i>src-ip</i>	Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
dst-ipv6	Destination IPv6 address
l4-src-port	Source L4 port
<i>l4-src-port</i>	L4 port number
l4-dst-port	Destination l4 port
<i>l4-dst-port</i>	L4 port number
<i>__readonly__</i>	(Optional) Read Only
<i>cmd_string</i>	(Optional) Command String
<i>is_dce_module</i>	(Optional) Whether Module is DCE

Command Mode

- /exec

show fabricpath switch-id local

```
show fabricpath switch-id local [ __readonly__ <swid_value> <system_id_value> <error_message> ]
```

Syntax Description

fabricpath	fabricpath information
switch-id	Switch ID
local	local switch-id
__readonly__	(Optional) Read Only
<i>swid_value</i>	(Optional) Switch Id
<i>system_id_value</i>	(Optional) System Id
<i>error_message</i>	(Optional) Error message

Command Mode

- /exec

show fabricpath switch

```
show fabricpath { switch-id | ftag } [ __readonly__ <no_value_str> <no_switch-ids> <local_swid_present>
<swid-hdr> { TABLE_swid <swid-value> <system-id> <swid-flags> <swid-state> <static> <emulated>
<localswid> } <ftag-hdr> { TABLE_ftag <ftag-value> <system-id-ftag> <tree-id> <topology-id> <ftag-flags>
<ftag-state> } ]
```

Syntax Description

fabricpath	fabricpath information
switch-id	Switch ID
ftag	Ftag
__readonly__	(Optional) Read Only
TABLE_swid	(Optional) Switch-id Table
TABLE_ftag	(Optional) Ftag Table
<i>system-id</i>	(Optional) Mac Address
<i>system-id-ftag</i>	(Optional) MAC Address
<i>swid-value</i>	(Optional) Switch ID
<i>ftag-value</i>	(Optional) FTAG ID
<i>swid-flags</i>	(Optional) switch-id flags
<i>ftag-flags</i>	(Optional) switch-id flags
<i>tree-id</i>	(Optional) tree-id
<i>topology-id</i>	(Optional) topology-id
<i>swid-state</i>	(Optional) Switch-id state
<i>ftag-state</i>	(Optional) Ftag state
<i>static</i>	(Optional) Static Switch-id
<i>emulated</i>	(Optional) Emulated Switch-id
<i>localswid</i>	(Optional) Local Switch-id
<i>swid-hdr</i>	(Optional) Switch-id Header
<i>ftag-hdr</i>	(Optional) Ftag Header
<i>no_value_str</i>	(Optional) no value passed
<i>no_switch-ids</i>	(Optional) Number of switch-ids

<i>local_swid_present</i>	(Optional) Local swid is known
---------------------------	--------------------------------

Command Mode

- /exec

show fabricpath system-id

show fabricpath system-id <system-id> [*__readonly__* <switch_id> <no_value_str> <state>]

Syntax Description

fabricpath	fabricpath information
system-id	System-id
<i>system-id</i>	MAC Address
<i>__readonly__</i>	(Optional) Read Only
<i>switch_id</i>	(Optional) Switch-ID
<i>state</i>	(Optional) Status of Switch-id
<i>no_value_str</i>	(Optional) no value passed

Command Mode

- /exec

show fabricpath timers

```
show fabricpath timers [ __readonly__ <allocate_delay> <transition_delay> <linkup_delay> ]
```

Syntax Description

<code>fabricpath</code>	fabricpath information
<code>timers</code>	fabricpath Timers
<code>__readonly__</code>	(Optional) Read Only
<code>allocate_delay</code>	(Optional) Allocation delay timer
<code>transition_delay</code>	(Optional) Transition delay timer
<code>linkup_delay</code>	(Optional) Delay in link up

Command Mode

- /exec

show fabricpath topology-id

show fabricpath topology-id <topology-id> [__readonly__ <ftag> <tree_id> <no_value_str>]

Syntax Description

fabricpath	fabricpath information
topology-id	Topology-id
<i>topology-id</i>	Topology-id
__readonly__	(Optional) Read Only
<i>ftag</i>	(Optional) ftag
<i>tree_id</i>	(Optional) tree-id
<i>no_value_str</i>	(Optional) no value passed

Command Mode

- /exec

show fabricpath topology

```
show fabricpath topology [ detail ] [ passive ] [ __readonly__ TABLE_tpg <name> <id> <state> [ <reason>
<pend> ] ]
```

Syntax Description

show	Show running system information
fabricpath	Configure fabricpath topology
topology	Configure fabricpath topology
detail	(Optional) Detailed information
passive	(Optional) Detailed passive topology information
__readonly__	(Optional)
TABLE_tpg	(Optional)
<i>name</i>	(Optional)
<i>id</i>	(Optional)
<i>state</i>	(Optional)
<i>reason</i>	(Optional)
<i>pend</i>	(Optional)

Command Mode

- /exec

show fabricpath topology ftag

```
show fabricpath topology [ <tpg-id> ] ftag [ unicast | multicast | active | internal snmp cfptTopologyTreeTable
topo-id <tpg_index-in> tree-id <tree_id-in> ] [ __readonly__ TABLE_tpg_ftag <tpg_name> <tpg_id>
<graph_id> <ftag_id> <unicast> <multicast> <active> <tpg_index-in> <tpg_index-out> <tree_id-in>
<tree_id-out> <cfptTopologyTreeFtag> <cfptTopologyTreeState> <cfptTopologyTreeType> ]
```

Syntax Description

show	Show running system information
fabricpath	Configure fabricpath topology
topology	Configure fabricpath topology
<i>tpg-id</i>	(Optional) Fabricpath Topology ID 0-63
ftag	Forwarding tag of a graph
unicast	(Optional) Show unicast ftags
multicast	(Optional) Show multicast ftags
active	(Optional) Show active multicast ftags
internal	(Optional) Commands for internal use
snmp	(Optional) Display snmp info
cfptTopologyTreeTable	(Optional)
topo-id	(Optional) Topology index
tree-id	(Optional) Tree index
__readonly__	(Optional)
TABLE_tpg_ftag	(Optional)
<i>tpg_name</i>	(Optional)
<i>tpg_id</i>	(Optional)
<i>graph_id</i>	(Optional)
<i>ftag_id</i>	(Optional)
<i>unicast</i>	(Optional)
<i>multicast</i>	(Optional)
<i>active</i>	(Optional)
<i>tpg_index-in</i>	(Optional) topology index

<i>tpg_index-out</i>	(Optional) topology index
<i>tree_id-in</i>	(Optional) tree index
<i>tree_id-out</i>	(Optional) tree index
<i>cfptTopologyTreeFtag</i>	(Optional) ftag
<i>cfptTopologyTreeState</i>	(Optional) state
<i>cfptTopologyTreeType</i>	(Optional) row status
<i>tpg_index-in</i>	(Optional) <tree_id-in>

Command Mode

- /exec

show fabricpath topology interface

```
show fabricpath topology [ <tpg-id> ] interface [ <interface> | all ] [ __readonly__ TABLE_tpg_if <if_name>
<tpg_name> <tpg_id> <tpg_if_state> ]
```

Syntax Description

show	Show running system information
fabricpath	Configure fabricpath topology
topology	Configure fabricpath topology
<i>tpg-id</i>	(Optional) Fabricpath Topology ID 0-63
interface	Display interface topology information
<i>interface</i>	(Optional) Display interface topology information
all	(Optional) Display all DCE and non-DCE interfaces
<i>__readonly__</i>	(Optional)
TABLE_tpg_if	(Optional)
<i>if_name</i>	(Optional)
<i>tpg_name</i>	(Optional)
<i>tpg_id</i>	(Optional)
<i>tpg_if_state</i>	(Optional)

Command Mode

- /exec

show fabricpath topology interface vlan

```
show fabricpath topology interface [ <interface> | all ] vlan [ active ] [ __readonly__ TABLE_if_vlan <if_name>
<tpg_name> <tpg_id> <vlan_range> ]
```

Syntax Description

show	Show running system information
fabricpath	Configure fabricpath topology
topology	Configure fabricpath topology
interface	Display interface topology information
<i>interface</i>	(Optional) Display interface topology information
all	(Optional) Display all DCE and non-DCE interfaces
vlan	Show vlans configured on the interface
active	(Optional) Show active vlans
__readonly__	(Optional)
TABLE_if_vlan	(Optional)
<i>if_name</i>	(Optional)
<i>tpg_name</i>	(Optional)
<i>tpg_id</i>	(Optional)
<i>vlan_range</i>	(Optional)

Command Mode

- /exec

show fabricpath topology vlan

```
show fabricpath topology [ <tpg-id> ] vlan [ active ] [ __readonly__ TABLE_tpg_vlan <tpg_name> <tpg_id>
<vlan_range> ]
```

Syntax Description

show	Show running system information
fabricpath	Configure fabricpath topology
topology	Configure fabricpath topology
<i>tpg-id</i>	(Optional) Fabricpath Topology ID 0-63
vlan	VLANS in a L2 topology
active	(Optional) Shows all active VLANs of the L2 topology
__readonly__	(Optional)
TABLE_tpg_vlan	(Optional)
<i>tpg_name</i>	(Optional)
<i>tpg_id</i>	(Optional)
<i>vlan_range</i>	(Optional)

Command Mode

- /exec

show feature-set

```
show feature-set [ <name> ] [ <id> ] [ __readonly__ TABLE_cfcFeatureSetTable <cfcFeatureSetIndex>
<cfcFeatureSetName> <cfcFeatureSetAction> <cfcFeatureSetLastAction> <cfcFeatureSetLastActionResult>
<cfcFeatureSetLastFailureReason> <cfcFeatureSetOpStatus> <cfcFeatureSetOpStatusReason> ]
```

Syntax Description

show	Show running system information
feature-set	Show feature set status
<i>name</i>	(Optional) feature-set name
<i>id</i>	(Optional) feature-set id
<i>__readonly__</i>	(Optional)
<i>TABLE_cfcFeatureSetTable</i>	(Optional) feature-set table
<i>cfcFeatureSetIndex</i>	(Optional) feature-set table index
<i>cfcFeatureSetName</i>	(Optional) feature-set name
<i>cfcFeatureSetAction</i>	(Optional) action
<i>cfcFeatureSetLastAction</i>	(Optional) last action
<i>cfcFeatureSetLastActionResult</i>	(Optional) last action result
<i>cfcFeatureSetLastFailureReason</i>	(Optional) last failure reason
<i>cfcFeatureSetOpStatus</i>	(Optional) operation status
<i>cfcFeatureSetOpStatusReason</i>	(Optional) operation status

Command Mode

- /exec

show feature-set services

```
show feature-set services <s0> [ __readonly__ { TABLE_services <service_name> } { <count> <feature_set> } ]
```

Syntax Description

show	Show running system information
feature-set	Show feature set status
services	Show services in feature set
__readonly__	(Optional)
TABLE_services	(Optional) all service names in feature set
<i>service_name</i>	(Optional) name of the service
<i>count</i>	(Optional) number of services in the feature set
<i>feature_set</i>	(Optional) feature set name
<i>s0</i>	Name of feature set

Command Mode

- /exec

show feature

```
show feature [ __readonly__ [ { TABLE_cfcFeatureCtrlTable <cfcFeatureCtrlIndex2>
<cfcFeatureCtrlInstanceNum2> <cfcFeatureCtrlName2> <cfcFeatureCtrlAction2> <cfcFeatureCtrlLastAction2>
<cfcFeatureCtrlLastActionResult2> <cfcFeatureCtrlLastFailureReason2> <cfcFeatureCtrlOpStatus2>
<cfcFeatureCtrlOpStatusReason2> <cfcFeatureCtrlTag2> } ] ]
```

Syntax Description

show	Show running system information
feature	Show feature status
__readonly__	(Optional)
TABLE_cfcFeatureCtrlTable	(Optional) feature table
<i>cfcFeatureCtrlIndex2</i>	(Optional) feature table index
<i>cfcFeatureCtrlInstanceNum2</i>	(Optional) instance number
<i>cfcFeatureCtrlName2</i>	(Optional) feature name
<i>cfcFeatureCtrlAction2</i>	(Optional) Action to be triggered for the feature
<i>cfcFeatureCtrlLastAction2</i>	(Optional) Last action triggered for the feature
<i>cfcFeatureCtrlLastActionResult2</i>	(Optional) The result of execution of the last action
<i>cfcFeatureCtrlLastFailureReason2</i>	(Optional) Failure Reason
<i>cfcFeatureCtrlOpStatus2</i>	(Optional) operation status
<i>cfcFeatureCtrlOpStatusReason2</i>	(Optional) Reason for current operation status
<i>cfcFeatureCtrlTag2</i>	(Optional) Name of the instance in string format in case of multinstance feature

Command Mode

- /exec

show fex

```
show fex [ __readonly__ TABLE_fex <fex_number> <chas_vendor> <fex_model> <chas_ser> <mod_model>
<fex_ser> <module_no> <mod_partno> <fex_descr> <fex_state> ]
```

Syntax Description

show	Show running system information
fex	Show FEX information
__readonly__	(Optional)
TABLE_fex	(Optional) Fex table
<i>fex_number</i>	(Optional) Configured FEX number
<i>chas_vendor</i>	(Optional) Chassis Vendor
<i>fex_model</i>	(Optional) Fex Model
<i>chas_ser</i>	(Optional) Chassis Serial number
<i>mod_model</i>	(Optional) IO Module model
<i>fex_ser</i>	(Optional) IO Module serial
<i>module_no</i>	(Optional) Module number
<i>mod_partno</i>	(Optional) Module Part Number
<i>fex_descr</i>	(Optional) FEX description
<i>fex_state</i>	(Optional) Module State

Command Mode

- /exec

show fex

```
show fex <chas_no> [ detail | ports | event-history ] [ __readonly__ { TABLE_fex_info <chas_id> <descr>
<fex_state> <fex_ver> <sw_ver> <fex_interim_ver> <sw_interim_ver> <model> <serial> <part_no> <card_id>
<mac> <num_macs> <bay> <rack> <enclosure> <enclosure_ser> <rack_id> <fex_sw_gen> <sw_sw_gen>
<pin_mode> <max_link> <post_level> <fbr_port_control> <fcoe_admin> <fcoe_oper> <fex_aa_configured>
} { TABLE_fbr_state <fbr_index> <fbr_oper_state> <fsm_state> } { TABLE_fex_port <fex_port>
<fex_port_oper_state> <fbr_port> <primary_fabric> } { TABLE_logs <log> } ]
```

Syntax Description

show	Show running system information
fex	Show FEX information
<i>chas_no</i>	FEX number
detail	(Optional) Detailed information
ports	(Optional) all FEX port information
event-history	(Optional) FEX event history
<i>__readonly__</i>	(Optional)
TABLE_fex_info	(Optional) FEX information
<i>chas_id</i>	(Optional) Configured FEX number
<i>descr</i>	(Optional) Description
<i>fex_state</i>	(Optional) FEX State
<i>fex_ver</i>	(Optional) FEX version
<i>sw_ver</i>	(Optional) Switch version
<i>fex_interim_ver</i>	(Optional) FEX interim version
<i>sw_interim_ver</i>	(Optional) Switch interim version
<i>model</i>	(Optional) FEX model
<i>serial</i>	(Optional) FEX serial
<i>part_no</i>	(Optional) Part number
<i>card_id</i>	(Optional) Card id
<i>mac</i>	(Optional) Mac address
<i>num_macs</i>	(Optional) Number of macs
<i>bay</i>	(Optional) Bay Number

<i>rack</i>	(Optional) Rack Name
<i>enclosure</i>	(Optional) Enclosure Name
<i>enclosure_ser</i>	(Optional) Enclosure serial
<i>rack_id</i>	(Optional) Rack id
<i>fex_sw_gen</i>	(Optional) Fex software gen
<i>sw_sw_gen</i>	(Optional) Switch software gen
<i>pin_mode</i>	(Optional) Pinning mode
<i>max_link</i>	(Optional) Maximum links
<i>post_level</i>	(Optional) Post level
<i>fbr_port_control</i>	(Optional) Fabric port for control traffic
<i>fcoe_admin</i>	(Optional) FCoE Admin
<i>fcoe_oper</i>	(Optional) FCoE Oper
<i>fex_aa_configured</i>	(Optional) FCoE Oper
TABLE_fbr_state	(Optional) Fabric port state
<i>fbr_index</i>	(Optional) Fabric port interface
<i>fbr_oper_state</i>	(Optional) Fabric port operational state
<i>fsm_state</i>	(Optional) Fabric FSM state
TABLE_fex_port	(Optional) FEX port
<i>fex_port</i>	(Optional) FEX port
<i>fex_port_oper_state</i>	(Optional) Operational state
<i>fbr_port</i>	(Optional) Fabric port
<i>primary_fabric</i>	(Optional) Primary fabric port
TABLE_logs	(Optional) FEX logs
<i>log</i>	(Optional) FEX log

Command Mode

- /exec

show fex detail

```
show fex detail [ __readonly__ TABLE_fex_info <chas_id> <descr> <fex_state> <fex_ver> <sw_ver>
<fex_interim_ver> <sw_interim_ver> <model> <serial> <part_no> <card_id> <mac> <num_macs> <bay>
<rack> <enclosure> <enclosure_ser> <rack_id> <fex_sw_gen> <sw_sw_gen> <pin_mode> <max_link>
<post_level> <fbr_port_control> { TABLE_fbr_state <fbr_index> <fbr_oper_state> <fsm_state> } {
TABLE_fex_port <fex_port> <fex_port_oper_state> <fbr_port> <primary_fabric> } { TABLE_logs <log>
} ]
```

Syntax Description

show	Show running system information
fex	Show FEX information
detail	Detailed information
__readonly__	(Optional)
TABLE_fex_info	(Optional) FEX information
<i>chas_id</i>	(Optional) Configured FEX number
<i>descr</i>	(Optional) Description
<i>fex_state</i>	(Optional) FEX State
<i>fex_ver</i>	(Optional) FEX version
<i>sw_ver</i>	(Optional) Switch version
<i>fex_interim_ver</i>	(Optional) FEX interim version
<i>sw_interim_ver</i>	(Optional) Switch interim version
<i>model</i>	(Optional) FEX model
<i>serial</i>	(Optional) FEX serial
<i>part_no</i>	(Optional) Part number
<i>card_id</i>	(Optional) Card id
<i>mac</i>	(Optional) Mac address
<i>num_macs</i>	(Optional) Number of macs
<i>bay</i>	(Optional) Bay Number
<i>rack</i>	(Optional) Rack Name
<i>enclosure</i>	(Optional) Enclosure Name
<i>enclosure_ser</i>	(Optional) Enclosure serial

<i>rack_id</i>	(Optional) Rack id
<i>fex_sw_gen</i>	(Optional) Fex software gen
<i>sw_sw_gen</i>	(Optional) Switch software gen
<i>pin_mode</i>	(Optional) Pinning mode
<i>max_link</i>	(Optional) Maximum links
<i>post_level</i>	(Optional) Post level
<i>fbr_port_control</i>	(Optional) Fabric port for control traffic
TABLE_fbr_state	(Optional) Fabric port state
<i>fbr_index</i>	(Optional) Fabric port interface
<i>fbr_oper_state</i>	(Optional) Fabric port operational state
<i>fsm_state</i>	(Optional) Fabric FSM state
TABLE_fex_port	(Optional) FEX port
<i>fex_port</i>	(Optional) FEX port
<i>fex_port_oper_state</i>	(Optional) Operational state
<i>fbr_port</i>	(Optional) Fabric port
<i>primary_fabric</i>	(Optional) Primary fabric port
TABLE_logs	(Optional) FEX logs
<i>log</i>	(Optional) FEX log

Command Mode

- /exec

show fex transceiver

show fex <chas_no> transceiver [calibration | detail]

Syntax Description

show	Show running system information
fex	Show FEX information
<i>chas_no</i>	FEX number
transceiver	Show FEX
calibration	(Optional) Show FEX transceiver calibration information
detail	(Optional) show FEX transceiver detail information

Command Mode

- /exec

show fex version

show fex <i> version

Syntax Description

show	Show running system information
version	Show the software version
fex	Show fex software version
<i>i</i>	FEX number

Command Mode

- /exec

show fhrp

```
show fhrp [ <intf> ] [ __readonly__ { TABLE_brief <intf_name> <intf_state> <ipv4_state> <ipv6_state>
<hardware_status> <refcount> } ]
```

Syntax Description

<code>fhrp</code>	FHRP Show commands
<code>show</code>	Show running system information
<code>intf</code>	(Optional) Specify a single interface
<code>__readonly__</code>	(Optional)
<code>TABLE_brief</code>	(Optional) Show brief FHRP interface information
<code>intf_name</code>	(Optional) Interface name
<code>intf_state</code>	(Optional) Interface state
<code>ipv4_state</code>	(Optional) Interface IPv4 state
<code>ipv6_state</code>	(Optional) Interface IPv6 state
<code>hardware_status</code>	(Optional) Interface hardware status
<code>refcount</code>	(Optional) Interface refcount

Command Mode

- /exec

show fhrp verbose

```
show fhrp [ <intf> ] verbose [ __readonly__ { TABLE_det <intf_name> <handle> <refcount> { TABLE_clients
<client_id> <client_name> } <running> <expired> <v_retries> <v_time> <r_delay> <min_delay>
<remaining_delay> <i_state> <ipv4_state> <ipv6_state> <h_state> <int_l2> } ]
```

Syntax Description

fhrp	FHRP Show commands
show	Show running system information
<i>intf</i>	(Optional) Specify a single interface
verbose	Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_det	(Optional) Detailed FHRP interface information
<i>intf_name</i>	(Optional) Interface name
<i>handle</i>	(Optional) Interface handle
<i>refcount</i>	(Optional) Reference count
TABLE_clients	(Optional) FHRP clients present on interface
<i>client_id</i>	(Optional) FHRP client id
<i>client_name</i>	(Optional) FHRP client name
<i>running</i>	(Optional) Time verify up timer running
<i>expired</i>	(Optional) Verify up timer has expired
<i>v_retries</i>	(Optional) Verify retries
<i>v_time</i>	(Optional) Verify remaining time
<i>r_delay</i>	(Optional) Reload delay
<i>min_delay</i>	(Optional) Min delay
<i>remaining_delay</i>	(Optional) Remaining delay
<i>i_state</i>	(Optional) Interface state
<i>ipv4_state</i>	(Optional) Interface IPv4 state
<i>ipv6_state</i>	(Optional) Interface IPv6 state
<i>h_state</i>	(Optional) Interface hardware state
<i>int_l2</i>	(Optional) Interface is L2-only

Command Mode

- /exec

show file

```
show file <uri0> [ cksum | md5sum | sha256sum | sha512sum ] [ __readonly__ { [ <file_content> ] + [ <file_content_cksum> ] [ <file_content_md5sum> ] [ <file_content_sha256sum> ] [ <file_content_sha512sum> ] } ]
```

Syntax Description

show	Show running system information
file	Displays content of files
<i>uri0</i>	Filename to be displayed
cksum	(Optional) Displays CRC checksum for a file
md5sum	(Optional) Displays MD5 checksum for a file
sha256sum	(Optional) Displays SHA256 checksum for a file
sha512sum	(Optional) Displays SHA512 checksum for a file
<i>__readonly__</i>	(Optional) Read only
<i>file_content</i>	(Optional) uri file content buffer string
<i>file_content_cksum</i>	(Optional) uri file content checksum
<i>file_content_md5sum</i>	(Optional) uri file content md5sum
<i>file_content_sha256sum</i>	(Optional) uri file content sha256sum
<i>file_content_sha512sum</i>	(Optional) uri file content sha512sum

Command Mode

- /exec

show fips status

```
show fips status [ __readonly__ { operation_status <o_status> } { mode_state <m_state> } { TABLE_sessions
<lc_num> <lc_status> } ]
```

Syntax Description

show	Show running system information
fips	Show if FIPS mode is enabled or disabled
status	Whether FIPS mode is enabled or disabled
__readonly__	(Optional)
operation_status	(Optional) run-time information about fips
<i>o_status</i>	(Optional) operational status of fips
mode_state	(Optional) mode state
<i>m_state</i>	(Optional) fips or non-fips state
TABLE_sessions	(Optional) all lc status
<i>lc_num</i>	(Optional) the lc number
<i>lc_status</i>	(Optional) the lc status

Command Mode

- /exec

show flow cache

show flow cache [ipv4 | ipv6 | ce]

Syntax Description

show	Show running system information
flow	Show NetFlow information
cache	Show NetFlow Exporter Cache
ipv4	(Optional) Show ipv4 cache entries
ipv6	(Optional) Show ipv6 cache entries
ce	(Optional) Show ce cache entries

Command Mode

- /exec

show flow exporter

```
show flow exporter [ name ] [ <exportername> ] [ __readonly__ <exporter> <description> <dest> <vrf>
<vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <dscp> <exp_ver> <seqnum>
<samp_table_to> <if_table_to> <stats_to> <temp_to> <rec_sent> <temp_sent> <pkts_sent> <bytes_sent>
<dest_unreach> <buff_events> <pkts_drop_no_route> <pkts_drop_other> <pkts_drop_lc_rp>
<pkts_drop_op_drops> <time_last_cleared> ]
```

Syntax Description

show	Show running system information
flow	Show NetFlow information
exporter	Show NetFlow Exporter Configuration and Statistics
name	(Optional) Show a specific Flow Exporter
<i>exportername</i>	(Optional) Specify an exporter
<i>__readonly__</i>	(Optional)
<i>exporter</i>	(Optional)
<i>description</i>	(Optional)
<i>dest</i>	(Optional)
<i>vrf</i>	(Optional)
<i>vrf_id</i>	(Optional)
<i>vrf_resolved</i>	(Optional)
<i>dest_udp</i>	(Optional)
<i>source_intf</i>	(Optional)
<i>source_ip</i>	(Optional)
<i>dscp</i>	(Optional)
<i>seqnum</i>	(Optional)
<i>exp_ver</i>	(Optional)
<i>samp_table_to</i>	(Optional)
<i>if_table_to</i>	(Optional)
<i>stats_to</i>	(Optional)
<i>temp_to</i>	(Optional)
<i>rec_sent</i>	(Optional)

<i>temp_sent</i>	(Optional)
<i>pkts_sent</i>	(Optional)
<i>bytes_sent</i>	(Optional)
<i>dest_unreach</i>	(Optional)
<i>buff_events</i>	(Optional)
<i>pkts_drop_no_route</i>	(Optional)
<i>pkts_drop_other</i>	(Optional)
<i>pkts_drop_lc_rp</i>	(Optional)
<i>pkts_drop_op_drops</i>	(Optional)
<i>time_last_cleared</i>	(Optional)

Command Mode

- /exec

show flow glbl-pkt-cnt

show flow glbl-pkt-cnt

Syntax Description

show	Show running system information
flow	Show NetFlow information
glbl-pkt-cnt	Show global packet count

Command Mode

- /exec

show flow interface

```
show flow interface [ <intf> ] [ __readonly__ <intf_name> <vlan_id> <v4in_mon_name> <v4in_samp_name>
<v4out_mon_name> <v4out_samp_name> <v6in_mon_name> <v6in_samp_name> <v6out_mon_name>
<v6out_samp_name> <l2in_mon_name> <l2in_samp_name> <l2out_mon_name> <l2out_samp_name> ]
```

Syntax Description

show	Show running system information
flow	Show NetFlow information
interface	Flow interface information
<i>intf</i>	(Optional) Interface
<i>__readonly__</i>	(Optional)
<i>intf_name</i>	(Optional) Interface
<i>vlan_id</i>	(Optional) VLAN ID
<i>v4in_mon_name</i>	(Optional) IPv4 Input monitor name
<i>v4in_samp_name</i>	(Optional) IPv4 Input sampler name
<i>v4out_mon_name</i>	(Optional) IPv4 Output monitor name
<i>v4out_samp_name</i>	(Optional) IPv4 Output sampler name
<i>v6in_mon_name</i>	(Optional) IPv6 Input monitor name
<i>v6in_samp_name</i>	(Optional) IPv6 Input sampler name
<i>v6out_mon_name</i>	(Optional) IPv6 Output monitor name
<i>v6out_samp_name</i>	(Optional) IPv6 Output sampler name
<i>l2in_mon_name</i>	(Optional) l2 Input monitor name
<i>l2in_samp_name</i>	(Optional) l2 Input sampler name
<i>l2out_mon_name</i>	(Optional) l2 Output monitor name
<i>l2out_samp_name</i>	(Optional) l2 Output sampler name

Command Mode

- /exec

show flow monitor

```
show flow monitor [ name ] [ <monitorname> [ cache [ detailed ] ] ] [ __readonly__ <monitor> <use_count>
<description> <record> <exporter1> <exporter2> <src_addr> <dest_addr> <direction> <pkt_count>
<byte_count> ]
```

Syntax Description

show	Show running system information
flow	Show NetFlow information
monitor	Show Monitor Configuration
name	(Optional) Show a specific Flow Monitor
<i>monitorname</i>	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents
<i>__readonly__</i>	(Optional)
<i>monitor</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>record</i>	(Optional)
<i>exporter1</i>	(Optional)
<i>exporter2</i>	(Optional)
<i>src_addr</i>	(Optional)
<i>dest_addr</i>	(Optional)
<i>direction</i>	(Optional)
<i>pkt_count</i>	(Optional)
<i>byte_count</i>	(Optional)

Command Mode

- /exec

show flow record

```
show flow record [ name ] [ { <recordname> } | { netflow-original } | { netflow { protocol-port | layer2-switched
{ input } | { ipv4 | ipv6 | l2 } { original-input | original-output } } } ] [ __readonly__ <record> <description>
<use_count> <template> ]
```

Syntax Description

show	Show running system information
flow	Show NetFlow information
record	Show Record Configuration
name	(Optional) Show the configuration for a specific Flow Record
<i>recordname</i>	(Optional) Specify a record
netflow-original	(Optional) Traditional IPv4 input NetFlow with origin ASs
netflow	(Optional) Traditional NetFlow collection schemes
ipv4	(Optional) IPv4 collection schemes
ipv6	(Optional) IPv6 collection schemes
l2	(Optional) L2 collection schemes
layer2-switched	(Optional) Layer2-Switched collection schemes
original-input	(Optional) Input NetFlow
original-output	(Optional) Output NetFlow
input	(Optional) Input NetFlow
protocol-port	(Optional) Protocol and Ports aggregation scheme
<i>__readonly__</i>	(Optional)
<i>record</i>	(Optional)
<i>description</i>	(Optional)
<i>use_count</i>	(Optional)
<i>template</i>	(Optional)

Command Mode

- /exec

show flow sw-monitor

```
show flow sw-monitor [ name ] [ <monitorname> [ cache [ detailed ] ] ]
```

Syntax Description

show	Show running system information
flow	Show NetFlow information
sw-monitor	Show Monitor Configuration
name	(Optional) Show a specific Flow Monitor
<i>monitorname</i>	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents

Command Mode

- /exec

show flow timeout

```
show flow timeout [ __readonly__ <active_to> <inactive_to> <fast_to> <th_pkts> <agg_age_to>
<flush_cache_to> ]
```

Syntax Description

show	Show running system information
flow	Show NetFlow information
timeout	Show NetFlow flow cache timeout values
<i>__readonly__</i>	(Optional)
<i>active_to</i>	(Optional)
<i>inactive_to</i>	(Optional)
<i>fast_to</i>	(Optional)
<i>th_pkts</i>	(Optional)
<i>agg_age_to</i>	(Optional)
<i>flush_cache_to</i>	(Optional)

Command Mode

- /exec

show forwarding adjacency

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] adjacency [ mpls ] [ lisp ] [ nve ] [ <aif> ] [ <anh> ] [ detail | stats | platform ] [ module <module> ] [ __readonly__ TABLE_adj <adj-count> <fec> <nexthop> <rewinfo> <interface> <bgp_rnh> <bgp_orig_as> <bgp_peer_as> <pkts> <bytes> <exp> <src_addr> <dest_addr> <lisp_flags> <lisp_inst_id> <pltfm_key> <hh> <refcount> ]
```

Syntax Description

show	
forwarding	display fib information
ip	(Optional) ipv4
ipv4	(Optional) ipv4
adjacency	display adjacency information
platform	(Optional) one command to show pi and pd info together
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
mpls	(Optional) mpls adjacency information
lisp	(Optional) LISP adjacency information
nve	(Optional) VxLAN tunnel adjacency information
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next hop
detail	(Optional) detail
stats	(Optional) adjacency statistics
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
TABLE_adj	(Optional) Table Adjacency
<i>adj-count</i>	(Optional) total adj count
<i>fec</i>	(Optional) FEC info

<i>nexthop</i>	(Optional) next hop address
<i>rewinfo</i>	(Optional) rewrite information
<i>interface</i>	(Optional) output interface
<i>bgp_rnh</i>	(Optional) next hop address
<i>bgp_orig_as</i>	(Optional) bgp orig as
<i>bgp_peer_as</i>	(Optional) bgp peer as
<i>exp</i>	(Optional) exp mapping
<i>pkts</i>	(Optional) packet stats
<i>bytes</i>	(Optional) bytes stats
<i>src_addr</i>	(Optional) src address
<i>dest_addr</i>	(Optional) dest address
<i>lisp_flags</i>	(Optional) lisp flags
<i>lisp_inst_id</i>	(Optional) lisp instance id
<i>pltfm_key</i>	(Optional) platform key
<i>hh</i>	(Optional) Hardware Handle
<i>refcount</i>	(Optional) reference count

Command Mode

- /exec

show forwarding bypass-hardware

show forwarding bypass-hardware [module <module>]

Syntax Description

show	
forwarding	fib information
bypass-hardware	bypass hardware
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show forwarding capture

show forwarding capture [module <module>] [__readonly__ <type><len><data>]

Syntax Description

show	
forwarding	display fib information
capture	display capture buffer
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)

Command Mode

- /exec

show forwarding distribution capture

show forwarding distribution capture [__readonly__ <type><len><data>]

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution info
capture	unicast capture buffer
__readonly__	(Optional)

Command Mode

- /exec

show forwarding distribution clients

show forwarding distribution clients [__readonly__ <id><pid><name><shms><shme><shmn>]

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution info
clients	unicast client information
__readonly__	(Optional)

Command Mode

- /exec

show forwarding distribution fib-state

```
show forwarding distribution fib-state [ __readonly__ <slot> <state><ttc><tprc><tv4ac><tv6ac> {
TABLE_fib_state <tid><tafi><prc><pc><tname> } ]
```

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution info
fib-state	unicast fib state info
__readonly__	(Optional)
<i>slot</i>	(Optional) slot number
TABLE_fib_state	(Optional) fib-state table

Command Mode

- /exec

show forwarding distribution ip igmp snooping

```
show forwarding distribution ip igmp snooping [ vlan <vlan-id> [ group [ <grpaddr> | <mac-grpaddr> ] [
source <srcaddr> ] ] ] [ detail ] [ __readonly__ <refcount> <oiflist_id> <last_oiflist_id> <ftag-id> ]
```

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
ip	IPV4 information
igmp	MFDM IGMP information
snooping	L2 mcast snooping related information
vlan	(Optional) Info specific to a vlan
<i>vlan-id</i>	(Optional) Vlan id value
group	(Optional) Group specific information
<i>grpaddr</i>	(Optional) Group address
<i>mac-grpaddr</i>	(Optional) Group MAC address
source	(Optional) (G,S) specific information
<i>srcaddr</i>	(Optional) Source address
detail	(Optional) Detailed display
<i>__readonly__</i>	(Optional)
<i>refcount</i>	(Optional) Reference Count
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>last_oiflist_id</i>	(Optional) Last OIF list Identifier
<i>ftag-id</i>	(Optional) ftag Id

Command Mode

- /exec

show forwarding distribution ipv6 multicast route

```
show forwarding distribution ipv6 multicast route [ table <table_id> | vrf <vrf-name> ] [ [ group { <group>
} ] [ source { <source> } ] | summary ] [ __readonly__ <table_type> <num_routes> <num_starg_routes>
<num_sg_routes> <num_gprefix_routes> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal>
<rpfi> <address> <flag> <route_pkts> <route_bytes> <mti_src_if> <mti_grp_ip> <mti_src_ip> ]
```

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	display fib distribution information
ipv6	IPv6 related information
multicast	display IPv6 multicast information
route	display routing table
vrf	(Optional) display routes for a specific VRF
<i>vrf-name</i>	(Optional) VRF name
table	(Optional) table
<i>table_id</i>	(Optional) table number
group	(Optional) Multicast IPv6 Group Address
source	(Optional) Multicast IPv6 Source Address
summary	(Optional) display route counts
__readonly__	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>num_routes</i>	(Optional) Number of routes
<i>num_starg_routes</i>	(Optional) Number of (*,G) routes
<i>num_sg_routes</i>	(Optional) Number of (S,G) routes
<i>num_gprefix_routes</i>	(Optional) Number of (*,G-prefix) routes
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>address</i>	(Optional) Ipv6 address string
<i>src_len</i>	(Optional) Source Address Mask

<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>flag</i>	(Optional) Route type flag
<i>route_pkts</i>	(Optional) Route packet count
<i>route_bytes</i>	(Optional) Route bytes
<i>mti_src_if</i>	(Optional) MTI Source Ifindex
<i>mti_grp_ip</i>	(Optional) MTI Group IP Address
<i>mti_src_ip</i>	(Optional) MTI Source IP Address

Command Mode

- /exec

show forwarding distribution l2 multicast

```
show forwarding distribution l2 multicast [ ip-based | mac-based ] [ vlan <vlan-id> [ { group <grpaddr> [
source <srcaddr> ] } | destination-mac <dmac> ] ] [ summary ] [ __readonly__ <refcount> <oiflist_id>
<last_oiflist_id> <ftag-id> <src_str> <grp_str> <vlan> <num_routes> <num_starg_routes> <num_sg_routes>
<num_gprefix_routes> ]
```

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
l2	L2 information
multicast	L2 multicast information
ip-based	(Optional) IPv4 based
mac-based	(Optional) MAC based
vlan	(Optional) Info specific to a vlan
<i>vlan-id</i>	(Optional) Vlan id value
group	(Optional) Group specific information
<i>grpaddr</i>	(Optional) Group address
source	(Optional) (G,S) specific information
<i>srcaddr</i>	(Optional) Source address
destination-mac	(Optional) Destination MAC specific information
<i>dmac</i>	(Optional) Destination MAC address
summary	(Optional) display route counts
<i>__readonly__</i>	(Optional)
<i>refcount</i>	(Optional) Reference Count
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>last_oiflist_id</i>	(Optional) Last OIF list Identifier
<i>ftag-id</i>	(Optional) ftag Id
<i>src_str</i>	(Optional) Source
<i>grp_str</i>	(Optional) Group

<i>vlan</i>	(Optional) <i>vlan_id</i>
<i>num_routes</i>	(Optional) Number of routes
<i>num_starg_routes</i>	(Optional) Number of (*,G) routes
<i>num_sg_routes</i>	(Optional) Number of (S,G) routes
<i>num_gprefix_routes</i>	(Optional) Number of (*,G-prefix) routes

Command Mode

- /exec

show forwarding distribution lisp counters

show forwarding distribution lisp counters [*__readonly__* <count>]

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution information
lisp	for lisp application
counters	counters
<i>__readonly__</i>	(Optional)
<i>count</i>	(Optional) count

Command Mode

- /exec

show forwarding distribution lisp vrf enabled

```
show forwarding distribution lisp vrf enabled [ __readonly__ { TABLE_lisp_vrf_enabled <vrf> <lisp_enabled>
<req_id> <operation> } ]
```

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution information
lisp	for lisp application
vrf	vrf
enabled	enabled
<i>__readonly__</i>	(Optional)
<i>TABLE_lisp_vrf_enabled</i>	(Optional)
<i>vrf</i>	(Optional) vrf key
<i>lisp_enabled</i>	(Optional) lisp enabled status
<i>req_id</i>	(Optional) req id
<i>operation</i>	(Optional) operation

Command Mode

- /exec

show forwarding distribution logging

show forwarding distribution logging [enable | disable]

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution information
logging	enable/disable file logging
enable	(Optional) start file logging
disable	(Optional) stop file logging

Command Mode

- /exec

show forwarding distribution multicast

```
show forwarding distribution multicast [ messages ] [ __readonly__ <fibstate> <slot> <accepting_routes>
<num_accepting_routes> ]
```

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
messages	(Optional) Outstanding Message Information
<i>__readonly__</i>	(Optional)
<i>fibstate</i>	(Optional) IP Multicast FIB process state
<i>slot</i>	(Optional) Slot
<i>accepting_routes</i>	(Optional) Indicates whether FIB is accepting routes
<i>num_accepting_routes</i>	(Optional) Number of fibs accepting routes

Command Mode

- /exec

show forwarding distribution multicast client-ack-db

```
show forwarding distribution multicast client-ack-db [ __readonly__ <xid> <num_recepients> <num_responses> ]
```

Syntax Description

show	show
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast
client-ack-db	Displays the client ack db
<i>__readonly__</i>	(Optional)
<i>xid</i>	(Optional) XID
<i>num_recepients</i>	(Optional) Number of recepients
<i>num_responses</i>	(Optional) Number of responses

Command Mode

- /exec

show forwarding distribution multicast client

show forwarding distribution multicast client [*__readonly__* <num-clients> <client-name> <client-id> <shmem-name>]

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast information
client	Show multicast distribution client information
<i>__readonly__</i>	(Optional)
<i>num-clients</i>	(Optional) Number of Clients registered
<i>client-name</i>	(Optional) Client Name
<i>client-id</i>	(Optional) Client-id
<i>shmem-name</i>	(Optional) Shared Memory Segment Name

Command Mode

- /exec

show forwarding distribution multicast download

show forwarding distribution multicast download

Syntax Description

show	
forwarding	forwarding information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
download	show download queues

Command Mode

- /exec

show forwarding distribution multicast mfib

```
show forwarding distribution multicast { mfib-txlist [ vrf <vrf-name> ] | mfib-buffers }
```

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast information
mfib-txlist	Show MFIB transmission-list information
vrf	(Optional) Specify VRF
<i>vrf-name</i>	(Optional) Specify VRF name
mfib-buffers	Show MFIB route buffer information

Command Mode

- /exec

show forwarding distribution multicast outgoing-interface-list

```
show forwarding distribution multicast outgoing-interface-list { L2 | L3 | OTV } [ <index> ] [ __readonly__
<platform_index> <ref_count> <num_oif> <oif> ]
```

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
outgoing-interface-list	Outgoing interface list
L2	Layer 2 oiflist
L3	Layer 3 oiflist
OTV	OTV oiflist
<i>index</i>	(Optional) Outgoing Interface List index
<i>__readonly__</i>	(Optional)
<i>platform_index</i>	(Optional) Platform index
<i>ref_count</i>	(Optional) Reference count
<i>num_oif</i>	(Optional) Number of outgoing interfaces
<i>oif</i>	(Optional) OIF name

Command Mode

- /exec

show forwarding distribution multicast resp-ack-timer-msgs

show forwarding distribution multicast resp-ack-timer-msgs

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast information
resp-ack-timer-msgs	show response ack timers for MFDM

Command Mode

- /exec

show forwarding distribution multicast route

```
show forwarding distribution [ ip ] multicast route [ table <id> | vrf { <vrf_name> | all } ] [ [ group { <gaddr>
[ <mask> ] | <gprefix> } ] [ source { <saddr> [ <smask> ] | <sprefix> } ] | summary ] [ __readonly__
<table_name> <num_routes> <num_starg_routes> <num_sg_routes> <num_gprefix_routes> <src_len>
<grp_len> <df_ordinal> <rpfif> <rpf_ifname> <flag> <flag_value> <num_groups> <num_sources> <refcount>
<oiflist_id> <oif_count> <oif_name> <oif_ifindex> <bytecnt> <pktcnt> <mti_src_if> <mti_grp_ip>
<mti_src_ip> ]
```

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
ip	(Optional) IPV4 information
multicast	Multicast information
route	Multicast route related information
vrf	(Optional) Specify VRF
<i>vrf_name</i>	(Optional) Specify VRF name
all	(Optional) Display information for all VRFs
table	(Optional) Specify Multicast Routing Table
<i>id</i>	(Optional) Multicast Routing Table Identifier
group	(Optional) IPv4 Multicast Group specific
<i>gaddr</i>	(Optional) IPv4 Multicast Group Address
<i>mask</i>	(Optional) mask for group ip address
<i>gprefix</i>	(Optional) IPv4 Multicast Group Prefix
source	(Optional) IPv4 Multicast Source specific
<i>saddr</i>	(Optional) IPv4 Source Address
<i>smask</i>	(Optional) mask for group ip address
<i>sprefix</i>	(Optional) IPv4 Multicast Source Prefix
summary	(Optional) display route counts
__readonly__	(Optional)
<i>table_name</i>	(Optional) Table name

<i>num_routes</i>	(Optional) Number of routes
<i>num_starg_routes</i>	(Optional) Number of (*,G) routes
<i>num_sg_routes</i>	(Optional) Number of (S,G) routes
<i>num_gprefix_routes</i>	(Optional) Number of (*,G-prefix) routes
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifname</i>	(Optional) RPF Interface ifName
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>refcount</i>	(Optional) Reference Count
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>oif_count</i>	(Optional) Number of OIFs
<i>oif_name</i>	(Optional) OIF Name
<i>oif_ifindex</i>	(Optional) OIF ifIndex
<i>bytecnt</i>	(Optional) Current Byte counter
<i>pktcnt</i>	(Optional) Current Packet counter
<i>mti_src_if</i>	(Optional) MTI Source Ifindex
<i>mti_grp_ip</i>	(Optional) MTI Group IP Address
<i>mti_src_ip</i>	(Optional) MTI Source IP Address

Command Mode

- /exec

show forwarding distribution nve overlay-vlan

show forwarding distribution nve overlay-vlan [__readonly__ <str>]

Syntax Description

show	Show running system information
forwarding	forwarding information
distribution	fib distribution info
nve	nve distribution info
overlay-vlan	overlay-vlan adjacency info
__readonly__	(Optional)
<i>str</i>	(Optional)

Command Mode

- /exec

show forwarding distribution otv multicast route

```
show forwarding distribution otv multicast route [ vlan <vlan-id> ] [ __readonly__ <refcount> <oiflist_id>
<src_ip> <grp_ip> <address> <grp_length> <external_intf> <ds> <dg> <if_index> ]
```

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
otv	OTV information
multicast	Multicast information
route	Multicast route information
vlan	(Optional) Info specific to a vlan
<i>vlan-id</i>	(Optional) Vlan id value
<i>__readonly__</i>	(Optional)
<i>refcount</i>	(Optional) Reference Count
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>src_ip</i>	(Optional) Source IP
<i>grp_ip</i>	(Optional) Group IP
<i>address</i>	(Optional) IPv6 address string
<i>grp_length</i>	(Optional) Group length
<i>external_intf</i>	(Optional) External interface
<i>ds</i>	(Optional) Delivery source IP
<i>dg</i>	(Optional) Delivery group IP
<i>if_index</i>	(Optional) Interface Index

Command Mode

- /exec

show forwarding distribution pauz

show forwarding distribution { pauz | rezum }

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution information
pauz	start black-holing routes
rezum	stop black-holing routes

Command Mode

- /exec

show forwarding distribution peer-id

```
show forwarding distribution peer-id [ vpls | otv ] [ __readonly__ <header> TABLE_peer_id <app> <vlan>
<id> <peer_id> ]
```

Syntax Description

show	Show running system information
forwarding	forwarding information
distribution	fib distribution info
peer-id	HW Peer-id allocation info
vpls	(Optional) VPLS
otv	(Optional) OTV
__readonly__	(Optional)
<i>header</i>	(Optional) Header
TABLE_peer_id	(Optional) Peer ID table
<i>app</i>	(Optional) OTV/VPLS
<i>vlan</i>	(Optional) VLAN
<i>id</i>	(Optional) ID
<i>peer_id</i>	(Optional) Peer-ID

Command Mode

- /exec

show forwarding distribution test on

show forwarding distribution test { on | off }

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution information
test	show test variable
on	set variable
off	reset variable

Command Mode

- /exec

show forwarding distribution trace

show forwarding distribution trace

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	fib distribution info
trace	unicast trace information

Command Mode

- /exec

show forwarding dvif primary

show forwarding dvif primary

Syntax Description

show	show
forwarding	forwarding
dvif	simulate dvif region role change
primary	role has become primary

Command Mode

- /exec

show forwarding dvif secondary

show forwarding dvif secondary

Syntax Description

show	show
forwarding	forwarding
dvif	simulate dvif region role change
secondary	role has become secondary

Command Mode

- /exec

show forwarding ecmp

```
show forwarding ecmp [ { [ vrf { <vrf-name> | <vrf-known-name> } ] lisp } ] [ platform ] [ module <module> ] [ partial ] [ redir ] [ __readonly__ <header> <ecmp_hash> <intf> <nh> <v6nh> <hw_index> <num_mpls> <holder> <refcount> <num_paths> <sw_ptr> <ecmp_partial> ]
```

Syntax Description

show	
forwarding	Display fib information
ecmp	Show information about ECMPs
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
lisp	(Optional) Show information about LISP ECMPs
platform	(Optional) one command to show pi and pd info together
module	(Optional) slot
partial	(Optional) Show partially installed ECMPs
redir	(Optional) Show ecmp behind vobj only
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) o/p header
<i>ecmp_hash</i>	(Optional) ecmp hash
<i>intf</i>	(Optional) interface
<i>nh</i>	(Optional) next hop
<i>v6nh</i>	(Optional) V6 next hop
<i>hw_index</i>	(Optional) Hw index
<i>num_mpls</i>	(Optional) No of MPLS ecmp
<i>holder</i>	(Optional) holder bitmap
<i>refcount</i>	(Optional) refcount
<i>sw_ptr</i>	(Optional) Software pointer
<i>num_paths</i>	(Optional) No of paths

<i>ecmp_partial</i>	(Optional) partial ecmp
---------------------	-------------------------

Command Mode

- /exec

show forwarding ecmp recursive

```
show forwarding ecmp recursive [ platform ] [ max-display-count <display_count> ] [ module <module> ] [
partial ] [ __readonly__ <header> <num_pfxs> <rnh_table_id> <nh> <rnh_len> <v6nh> <hw_instance>
<nh_vpn_label> <nh_weight> <cnh_intf> <ecmp_partial> ]
```

Syntax Description

show	
forwarding	Display fib information
ecmp	Show information about ECMPs
recursive	Show information about recursive ECMPs
platform	(Optional) one command to show pi and pd info together
module	(Optional) slot
partial	(Optional) Show partially installed ECMPs
<i>module</i>	(Optional) slot number
max-display-count	(Optional) displays max # of routes
<i>display_count</i>	(Optional) count
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) o/p header
<i>num_pfxs</i>	(Optional) Number of prefixes using this virtual object
<i>rnh_table_id</i>	(Optional) The table id where the RNHs are present
<i>nh</i>	(Optional) Next hop info
<i>rnh_len</i>	(Optional) Next hop mask length
<i>v6nh</i>	(Optional) V6 Next hop info
<i>hw_instance</i>	(Optional) Hardware instance info
<i>nh_vpn_label</i>	(Optional) NH VPN label
<i>nh_weight</i>	(Optional) weighted ecmp info
<i>cnh_intf</i>	(Optional) cnh output interface
<i>ecmp_partial</i>	(Optional) partial ecmp

Command Mode

- /exec

show forwarding file-log disable

show forwarding file-log disable

Syntax Description

show	show
forwarding	forwarding
file-log	logging to tmp file
disable	disable

Command Mode

- /exec

show forwarding file-log enable

show forwarding file-log enable

Syntax Description

show	show
forwarding	forwarding
file-log	logging to tmp file
enable	enable

Command Mode

- /exec

show forwarding interfaces

```
show forwarding interfaces [ module <module> ] [ __readonly__ <intf> <v4adjcnt> <v6adjcnt> <rpfmode>
<mac> ]
```

Syntax Description

show	
forwarding	fib information
interfaces	show fib interface info
__readonly__	(Optional)
<i>intf</i>	(Optional) interface name
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>v4adjcnt</i>	(Optional) count of v4 adjacencies
<i>v6adjcnt</i>	(Optional) count of v6 adjacencies
<i>mac</i>	(Optional) mac address
<i>rpfmode</i>	(Optional) uRPF mode

Command Mode

- /exec

show forwarding ipv6 adjacency

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 adjacency [ mpls ] [ <aif> ] [ <anh> ] [ detail | stats | platform ] [ module <module> ] [ __readonly__ TABLE_adj <adj-count> <fec> <nexthop> <rewinfo> <interface> <pkts> <bytes> <bgp_rnh> <bgp_orig_as> <bgp_peer_as> <hh> <refcount> ]
```

Syntax Description

show	
forwarding	display fib information
ipv6	ipv6
adjacency	display adjacency information
platform	(Optional) one command to show pi and pd info together
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
mpls	(Optional) mpls adjacency information
<i>aif</i>	(Optional) adjacency output interface
detail	(Optional) detail
stats	(Optional) adjacency statistics
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
TABLE_adj	(Optional) Table Adjacency
<i>adj-count</i>	(Optional) total adj count
<i>fec</i>	(Optional) FEC info
<i>nexthop</i>	(Optional) next hop address
<i>rewinfo</i>	(Optional) rewrite information
<i>interface</i>	(Optional) output interface
<i>pkts</i>	(Optional) packet stats

<i>bytes</i>	(Optional) bytes stats
<i>bgp_rnh</i>	(Optional) next hop address
<i>bgp_orig_as</i>	(Optional) bgp orig as
<i>bgp_peer_as</i>	(Optional) bgp peer as
<i>hh</i>	(Optional) Hardware Handle
<i>refcount</i>	(Optional) reference count

Command Mode

- /exec

show forwarding ipv6 multicast route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | all } | table <tab_id> ] ipv6 multicast route { [
group { <group> | <group_addr> } | source { <source> | <source_addr> } | module <module> | vrf { <vrf-name>
| all } ] + | summary [ module <module> | vrf { <vrf-name> | <vrf-known-name> | all } ] + } [ __readonly__
<table_type> <num_routes> <num_starg_routes> <num_sg_routes> <num_gprefix_routes>
<num_prefix_insert_fail> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal> <rpflf> <address>
<flag> <route_pkts> <route_bytes> ]
```

Syntax Description

show	
forwarding	display fib information
ipv6	ipv6
multicast	IPV6 related Multicast information
route	Multicast route information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>tab_id</i>	(Optional) table number
group	(Optional) Multicast IPv6 Group Address
source	(Optional) Multicast IPv6 Source Address
summary	display route counts
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>num_routes</i>	(Optional) Number of routes
<i>num_starg_routes</i>	(Optional) Number of (*,G) routes
<i>num_sg_routes</i>	(Optional) Number of (S,G) routes
<i>num_gprefix_routes</i>	(Optional) Number of (*,G-prefix) routes

<i>num_prefix_insert_fail</i>	(Optional) Prefix insert fail count
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>address</i>	(Optional) Ipv6 address string
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>flag</i>	(Optional) Route type flag
<i>route_pkts</i>	(Optional) Route packet count
<i>route_bytes</i>	(Optional) Route bytes

Command Mode

- /exec

show forwarding ipv6 pss route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> } | table <table_id> ] ipv6 pss route [ module
<module> ]
```

Syntax Description

show	show
forwarding	forwarding
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
ipv6	ipv6
pss	display info from pss
route	route
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show forwarding ipv6 route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] ipv6 { route | rnhdb
} [ recursive ] [ detail | summary | platform | partial | <prefix> [ longer-prefixes ] [ detail | platform ] | <address>
[ detail | platform ] | interface <interface> | next-hop <nh> | attached | unresolved | adjacency { <aif> <anh>
| drop | glean | punt } ] [ max-display-count <display_count> ] [ module <module> | vrf { <vrf-name> |
<vrf-known-name> | <vrf-all> } ] + [ __readonly__ TABLE_vrf <vrfname> <tblname> <prefix_count>
TABLE_prefix <pfx> TABLE_path [ <nexthop> | <special> ] <intf> <route_count> <path_count>
<mask_length> <routes_per_mask> ]
```

Syntax Description

show	
forwarding	display fib information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table id in hex
ipv6	ipv6
route	display IP routing table
platform	(Optional) one command to show pi and pd info together
rnhdb	rnhdb
recursive	(Optional) display routes with recursive next hops
detail	(Optional) show detailed information about the routes
summary	(Optional) display route counts
partial	(Optional) display routes with partial ECMPs
longer-prefixes	(Optional) display longer prefixes
interface	(Optional) display routes with this output i/f only
<i>interface</i>	(Optional) output interface
next-hop	(Optional) display routes with this next-hop only
attached	(Optional) display directly connected routes
unresolved	(Optional) display unresolved routes

<i>adjacency</i>	(Optional) display routes via specified adjacency
<i>aif</i>	(Optional) adjacency output interface
<i>drop</i>	(Optional) display routes via drop adjacency
<i>glean</i>	(Optional) display routes via glean adjacency
<i>punt</i>	(Optional) display routes via punt adjacency
<i>module</i>	(Optional) slot
<i>module</i>	(Optional) slot number
<i>max-display-count</i>	(Optional) displays max # of routes
<i>display_count</i>	(Optional) count
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional) vrf table
<i>vrfname</i>	(Optional) VRF name
<i>tblname</i>	(Optional) table name
<i>prefix_count</i>	(Optional) total number of prefix in VRF
<i>TABLE_prefix</i>	(Optional) all xml prefix entries
<i>px</i>	(Optional) ipv6 prefix
<i>TABLE_path</i>	(Optional) path table
<i>nexthop</i>	(Optional) next hop address
<i>special</i>	(Optional) special adjacencies
<i>intf</i>	(Optional) output interface
<i>route_count</i>	(Optional) total number of routes in VRF
<i>path_count</i>	(Optional) total number of paths in VRF
<i>mask_length</i>	(Optional) length of mask
<i>routes_per_mask</i>	(Optional)

Command Mode

- /exec

show forwarding kvfib cache on

show forwarding kvfib cache { on | off }

Syntax Description

show	
forwarding	fib information
kvfib	kvfib
cache	cache
on	set variable
off	reset variable

Command Mode

- /exec

show forwarding l2 multicast

```
show forwarding l2 multicast { [ { vlan <vlan-id> [ { group <grpaddr> source <srcaddr> } | destination-mac
<dstmac> ] } ] } [ vdc <vdc-id> ] [ module <num> ] [ __readonly__ <epoch> <resource_id> <dest_index>
<hw_handle> <dmac> <text> <value> ]
```

Syntax Description

show	Show running system information
forwarding	Forwarding information
l2	L2 related information
multicast	Multicast related information
vlan	(Optional) Information Specific to a Vlan
<i>vlan-id</i>	(Optional) Vlan id value
group	(Optional) (S,G) specific information
<i>grpaddr</i>	(Optional) Group address
source	(Optional) source specific information
<i>srcaddr</i>	(Optional) Source address
destination-mac	(Optional) Destination MAC address
<i>dstmac</i>	(Optional) Ethernet MAC address
vdc	(Optional) VDC
<i>vdc-id</i>	(Optional) VDC id
module	(Optional) Slot
<i>num</i>	(Optional) Slot number
<i>__readonly__</i>	(Optional)
<i>resource_id</i>	(Optional) Resource Identifier
<i>dest_index</i>	(Optional) Destination Index Identifier
<i>epoch</i>	(Optional) Epoch number
<i>hw_handle</i>	(Optional) Hardware Handle
<i>dmac</i>	(Optional) Destination MAC address
<i>text</i>	(Optional) String
<i>value</i>	(Optional) Value

Command Mode

- /exec

show forwarding l2vpn ipv6 multicast route

```
show forwarding l2vpn ipv6 multicast route [ [ vlan <vlan-id> ] ] [ softwarebd <software-bd> ] [ module <module> ]
```

Syntax Description

show	show
forwarding	forwarding
l2vpn	Layer 2 VPN
ipv6	ipv6
multicast	Multicast IPv6 information
route	Mcast route information
vlan	(Optional) vlan
softwarebd	(Optional) Software Bridge Domain
<i>vlan-id</i>	(Optional) vlan id
<i>software-bd</i>	(Optional) Software bd
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show forwarding l2vpn label vpls

show forwarding l2vpn label [<label_id>] vpls [module module] [__readonly__ <label_id>]

Syntax Description

show	show
forwarding	forwarding
l2vpn	l2vpn forwarding
label	VC label
<i>label_id</i>	(Optional) VC label
vpls	VPLS
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>label_id</i>	(Optional) Label ID

Command Mode

- /exec

show forwarding l2vpn label xconnect

show forwarding l2vpn label [<label_id>] xconnect [module module] [__readonly__ <label_id>]

Syntax Description

show	show
forwarding	forwarding
l2vpn	l2vpn forwarding
label	VC label
<i>label_id</i>	(Optional) VC label
xconnect	xconnect or VPWS
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>label_id</i>	(Optional) Label ID

Command Mode

- /exec

show forwarding l2vpn multicast outgoing-interface-list

show forwarding l2vpn multicast outgoing-interface-list [index <oiflist-index>]

Syntax Description

show	
forwarding	Forwarding information
l2vpn	Layer 2 VPN
multicast	Multicast IPv4 information
outgoing-interface-list	show outgoing interface list info
index	(Optional) oiflist index
<i>oiflist-index</i>	(Optional) oiflist-index

Command Mode

- /exec

show forwarding l2vpn multicast route

```
show forwarding l2vpn multicast route [ [ vlan <vlan-id> ] ] [ softwarebd <software-bd> ] [ module <module> ]
```

Syntax Description

show	show
forwarding	forwarding
l2vpn	Layer 2 VPN
multicast	Multicast IPv4 information
route	Meast route information
vlan	(Optional) vlan
softwarebd	(Optional) Software Bridge Domain
<i>vlan-id</i>	(Optional) vlan id
<i>software-bd</i>	(Optional) Software bd
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show forwarding l2vpn service vpls

```
show forwarding l2vpn service vpls { { service_id { <service_id> | all } } | { vlan { <vlan_id> | vlan_all } }
| { peer { { interface <intf-name> | next-hop <addr> | peer_all } } } } [ module <module> ] [ detail ]
```

Syntax Description

show	show
forwarding	display fib information
l2vpn	l2vpn forwarding
service	Services
vpls	Vpls
service_id	Specifies a service_id
<i>service_id</i>	service ID
all	all VPLS services
vlan	VLAN info
<i>vlan_id</i>	VLAN number
vlan_all	all VPLS services
peer	define the peer
peer_all	all peers
interface	PW interface for peer
<i>intf-name</i>	interface name
next-hop	Next hop to reach the peer
<i>addr</i>	IP address
module	(Optional) slot
<i>module</i>	(Optional) slot number
detail	(Optional) Display detailed information

Command Mode

- /exec

show forwarding l2vpn service xconnect

```
show forwarding l2vpn service xconnect { service_id { <service_id> | all } } [ module <module> ] [ detail ]
```

Syntax Description

show	show
forwarding	display fib information
l2vpn	l2vpn forwarding
service	Services
xconnect	xconnect or VPWS
service_id	Specify a service_id in hex
<i>service_id</i>	service ID
all	All service-id will be displayed
module	(Optional) slot
<i>module</i>	(Optional) slot number
detail	(Optional) Display detailed information

Command Mode

- /exec

show forwarding l2vpn vlan

show forwarding l2vpn vlan [<vlan_id>] [module <module>] [__readonly__ <vlan>]

Syntax Description

show	show
forwarding	forwarding
l2vpn	l2vpn forwarding
vlan	vlan
<i>vlan_id</i>	(Optional) vlan id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>vlan</i>	(Optional) vlan

Command Mode

- /exec

show forwarding mpls

```
show forwarding mpls [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } [ label <label-id> | <prefix> | <v6prefix> ] | table <table_id> [ label <label-id> | <prefix> | <v6prefix> ] | label-space <label-space-id> | label <label-id> | <prefix> | <v6prefix> ] [ stats ] [ module <module> ] [ implicit ] [ platform ] [ __readonly__ { TABLE_mpls <label> <in-pkts> <in-bytes> <out-pkts> <out-bytes> TABLE_label_nh [ <out-table-id> <fec> <out-ip> <out-intf> <out-op> <out-label> <hh> <ref-count> } } ]
```

Syntax Description

show	show
forwarding	forwarding
mpls	mpls forwarding
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known vrf name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
label-space	(Optional) label space
<i>label-space-id</i>	(Optional) label space id
label	(Optional) mpls labels
<i>label-id</i>	(Optional) mpls label value
<i>prefix</i>	(Optional) Labels for single exact match route
module	(Optional) slot
<i>module</i>	(Optional) slot number
stats	(Optional) Label Statistics
implicit	(Optional) Display implicit label
platform	(Optional) Display platform information
<i>__readonly__</i>	(Optional)
TABLE_mpls	(Optional)
<i>label</i>	(Optional) mpls label value
TABLE_label_nh	(Optional)

<i>out-table-id</i>	(Optional) Output table-id
<i>fec</i>	(Optional) Prefix/Tunnel ID
<i>out-ip</i>	(Optional) Output Next Hop
<i>out-intf</i>	(Optional) Output Interface
<i>out-op</i>	(Optional) Output Label op
<i>out-label</i>	(Optional) Output Label
<i>hh</i>	(Optional) Hardware Handle
<i>ref-count</i>	(Optional) Ref Count
<i>in-pkts</i>	(Optional) Label Input Packet Stats
<i>in-bytes</i>	(Optional) Label Input Bytes Stats
<i>out-pkts</i>	(Optional) Label Output Packet Stats
<i>out-bytes</i>	(Optional) Label Output Bytes Stats

Command Mode

- /exec

show forwarding mpls aggregate

```
show forwarding mpls aggregate [ label { <label-id> | all } ] [ detail ] [ module <module> ] [ __readonly__
[ { TABLE_label_info <label> <id> [ <sw_index> } ] ] ]
```

Syntax Description

show	
forwarding	display fib information
mpls	mpls forwarding
aggregate	aggregate label
label	(Optional) label
<i>label-id</i>	(Optional) label-id
all	(Optional) all
detail	(Optional) detail
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
TABLE_label_info	(Optional)
<i>label</i>	(Optional)
<i>id</i>	(Optional)
<i>sw_index</i>	(Optional)

Command Mode

- /exec

show forwarding mpls cbts

```
show forwarding mpls cbts [ module <module> ] [ __readonly__ [ { TABLE_cbts <label> [ <out-intf> ] [ <out-table-id> ] [ <out-ip> ] [ <out-op> ] } ] ]
```

Syntax Description

show	show
forwarding	forwarding
mpls	mpls forwarding
cbts	cbts labels
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
TABLE_cbts	(Optional)
<i>label</i>	(Optional) mpls label value
<i>out-intf</i>	(Optional) Output Interface
<i>out-table-id</i>	(Optional) Output table-id
<i>out-ip</i>	(Optional) Output Next Hop
<i>out-op</i>	(Optional) Output Label op

Command Mode

- /exec

show forwarding mpls drop-stats

show forwarding mpls drop-stats [platform | label0-fwd-stats] [__readonly__ <pkts> <bytes>]

Syntax Description

show	show
forwarding	forwarding
mpls	mpls forwarding
drop-stats	MPLS dropped packets
platform	(Optional) command to display stats per chip
label0-fwd-stats	(Optional) command to display stats for label0
__readonly__	(Optional)
<i>pkts</i>	(Optional) Label Packet Stats
<i>bytes</i>	(Optional) Label Bytes Stats

Command Mode

- /exec

show forwarding mpls ecmp

```
show forwarding mpls ecmp [ module <module> ] [ platform ] [ __readonly__ [ { TABLE_ecmp <type>
<num_paths> <ip_paths> <mpls_paths> <ecmp_hash> <holder> <refcount> <hw_index> [ {
TABLE_ecmp_paths <out-intf> <out-ip> <label_info> } } ] ] ] ]
```

Syntax Description

show	show
forwarding	display fib information
mpls	mpls forwarding
ecmp	mpls ecmps
module	(Optional) slot
<i>module</i>	(Optional) slot number
platform	(Optional) show pd info
<i>__readonly__</i>	(Optional)
TABLE_ecmp	(Optional)
<i>type</i>	(Optional) ecmp type
<i>num_paths</i>	(Optional) No of paths
<i>ip_paths</i>	(Optional) No of ip paths
<i>mpls_paths</i>	(Optional) No of mpls paths
<i>ecmp_hash</i>	(Optional) ecmp hash
<i>holder</i>	(Optional) holder bitmap
<i>refcount</i>	(Optional) refcount
<i>hw_index</i>	(Optional) Hw index
TABLE_ecmp_paths	(Optional)
<i>label_info</i>	(Optional) rew info
<i>out-intf</i>	(Optional) Output Interface
<i>out-ip</i>	(Optional) Output Next Hop

Command Mode

- /exec

show forwarding mpls option_b

```
show forwarding mpls option_b [ label <label> ] [ module <module> ] [ platform ] [ __readonly__ [ {
TABLE_mpls_opt_b <label> [ <prefix> ] [ <v6prefix> ] [ <nxhop> ] [ <out-interface> ] [ <out-op> } ] ] ]
```

Syntax Description

show	show
forwarding	forwarding
mpls	mpls forwarding
option_b	Option B
label	(Optional) mpls labels
<i>label</i>	(Optional) mpls label value
module	(Optional) slot
<i>module</i>	(Optional) slot number
platform	(Optional) show pd info
__readonly__	(Optional)
TABLE_mpls_opt_b	(Optional)
<i>label</i>	(Optional) mpls label value
<i>prefix</i>	(Optional) Output Interface
<i>nxhop</i>	(Optional) Output Next Hop
<i>out-interface</i>	(Optional) Output Label op
<i>out-op</i>	(Optional) Output Label op

Command Mode

- /exec

show forwarding mpls summary

```
show forwarding mpls summary [ module <module> ] [ __readonly__ [ { TABLE_labels <space> <count>
} <total_deagg_labels> ] ]
```

Syntax Description

show	show
forwarding	display fib information
mpls	mpls forwarding
summary	summary
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
TABLE_labels	(Optional)
<i>space</i>	(Optional) label space
<i>count</i>	(Optional) number of labels
<i>total_deagg_labels</i>	(Optional) total deagg labels

Command Mode

- /exec

show forwarding mpls te

```
show forwarding mpls te [ <te_if> ] [ detail ] [ module <module> ] [ __readonly__ { TABLE_te <id> [
<midpoint_source> ] [ <dest> ] [ <tunnel_id> ] [ <ext_tunnel_id> ] [ <lisp_id> ] [ <adjacency> ] [ <hh> ] [
<lfib_adj> ] [ <adj_refcount> ] [ <obj_refcount> ] [ <te_state> ] [ <next_hop> ] [ <next_if_index> ] [
<op_label> ] [ <backup_tunnel> ] [ <adj_key_id> ] [ <fir_label> ] [ <local_label> ] [ <adj_count> ] [ <type>
] [ <out_if> ] [ <out_lbl> ] [ <backup_if> ] [ <backup_lbl> ] } }
```

Syntax Description

show	
forwarding	display fib information
mpls	mpls forwarding
te	Traffic Engineering
detail	(Optional) detail
module	(Optional) slot
<i>te_if</i>	(Optional) tunnel-te number
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
TABLE_te	(Optional)
<i>id</i>	(Optional) headend if index
<i>midpoint_source</i>	(Optional)
<i>dest</i>	(Optional)
<i>tunnel_id</i>	(Optional)
<i>ext_tunnel_id</i>	(Optional)
<i>lisp_id</i>	(Optional)
<i>adjacency</i>	(Optional)
<i>hh</i>	(Optional) HH
<i>lfib_adj</i>	(Optional) lfib adjacency is drop
<i>adj_refcount</i>	(Optional)
<i>obj_refcount</i>	(Optional)
<i>te_state</i>	(Optional)
<i>next_hop</i>	(Optional)

<i>next_if_index</i>	(Optional)
<i>op_label</i>	(Optional)
<i>backup_tunnel</i>	(Optional)
<i>adj_key_id</i>	(Optional)
<i>frr_label</i>	(Optional)
<i>local_label</i>	(Optional)
<i>adj_count</i>	(Optional) te related adj count
<i>type</i>	(Optional)
<i>out_if</i>	(Optional)
<i>out_lbl</i>	(Optional)
<i>backup_if</i>	(Optional)
<i>backup_lbl</i>	(Optional)

Command Mode

- /exec

show forwarding multicast outgoing-interface-list L2

```
show forwarding multicast outgoing-interface-list { L2 | L3 } [ platform ] [ module <module> ] [ <index> ]
[ __readonly__ <refcount> <num_oif> <intf> <encap_id> ]
```

Syntax Description

show	
forwarding	Forwarding information
multicast	Multicast IPv4 information
outgoing-interface-list	show outgoing interface list info
L2	Layer 2 oiflist
L3	Layer 3 oiflist
platform	(Optional) Display PI/PD
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>index</i>	(Optional) Outgoing Interface List Index
<i>__readonly__</i>	(Optional)
<i>refcount</i>	(Optional) Reference count
<i>num_oif</i>	(Optional) Number of outgoing interfaces
<i>intf</i>	(Optional) OIF name
<i>encap_id</i>	(Optional) encap_id

Command Mode

- /exec

show forwarding multicast route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | all } | table <table_id> ] [ ip | ipv4 ] multicast
route [ platform ] { [ group { <gaddr> [ <mask> ] | <gprefix> } | source { <saddr> [ <smask> ] | <sprefix> }
| module <module> | vrf { <vrf-name> | <vrf-known-name> | all } ] + | summary [ module <module> | vrf {
<vrf-name> | <vrf-known-name> | all } ] + } [ _readonly_ <table_type> <vrfname> <num_routes>
<num_starg_routes> <num_sg_routes> <num_gprefix_routes> <num_prefix_insert_fail> <num_groups>
<num_sources> <src_len> <grp_len> <df_ordinal> <rpfif> <rpf_ifindex> <flag> <flag_value> <route_pkts>
<route_bytes> <oiflist_id> <platform_id> <oif_count> <refcount> <oifname> <oifindex> <oif_pkts>
<oif_bytes> ]
```

Syntax Description

show	
forwarding	Forwarding information
ip	(Optional) ipv4
ipv4	(Optional) ipv4
multicast	Multicast IPv4 information
route	Mcast route information
platform	(Optional) Platform Details
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
group	(Optional) Multicast IPv4 Group specific info
<i>gaddr</i>	(Optional) Multicast IPv4 Group Address
<i>mask</i>	(Optional) Multicast IPv4 Group Address mask
<i>gprefix</i>	(Optional) Multicast IPv4 Group Prefix
source	(Optional) Multicast IPv4 Source specific info
<i>saddr</i>	(Optional) Multicast IPv4 Source Address
<i>smask</i>	(Optional) Multicast IPv4 Source Address mask
<i>sprefix</i>	(Optional) Multicast IPv4 Source Prefix

<i>summary</i>	display route counts
<i>module</i>	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>vrfname</i>	(Optional) VRF name
<i>num_routes</i>	(Optional) Number of routes
<i>num_starg_routes</i>	(Optional) Number of (*,G) routes
<i>num_sg_routes</i>	(Optional) Number of (S,G) routes
<i>num_gprefix_routes</i>	(Optional) Number of (*,G-prefix) routes
<i>num_prefix_insert_fail</i>	(Optional) Prefix insert fail count
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifindex</i>	(Optional) RPF Interface ifIndex
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>route_pkts</i>	(Optional) Route packet count
<i>route_bytes</i>	(Optional) Route bytes
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>platform_id</i>	(Optional) Platform-index
<i>oif_count</i>	(Optional) Number of OIFs
<i>refcount</i>	(Optional) OIF list Reference Count
<i>oifname</i>	(Optional) OIF Interface name
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>oif_pkts</i>	(Optional) OIF packets

<i>oif_bytes</i>	(Optional) OIF bytes
------------------	----------------------

Command Mode

- /exec

show forwarding nve l2 ingress-replication-peers

show forwarding nve l2 ingress-replication-peers [<peer_ip>]

Syntax Description

show	show
forwarding	display fib information
nve	nve related info
l2	L2 info
ingress-replication-peers	ingress replication peer info
<i>peer_ip</i>	(Optional) show detailed info of a peer

Command Mode

- /exec

show forwarding nve l3 adjacency tunnel

```
show forwarding nve l3 adjacency tunnel <tunnel_id> [ bd <bd_id> | detail | module <num> | table <table_id>
] [ __readonly__ <tunnel_id> <bd_id> <table_id> <VNI> <Drop> <Refcount> <Origin> <State> <Del> ]
```

Syntax Description

show	
forwarding	display fib information
nve	nve related info
l3	Layer 3
adjacency	Adjacency info
tunnel	VXLAN tunnel
<i>tunnel_id</i>	tunnel_id
bd	(Optional) BD info
<i>bd_id</i>	(Optional) bd id
detail	(Optional) Show detailed information
module	(Optional) Slot/module
<i>num</i>	(Optional) Slot/module number
table	(Optional) Tenant table-id
<i>table_id</i>	(Optional) tenant table-id
<i>__readonly__</i>	(Optional)
<i>tunnel_id</i>	(Optional) tunnel_id
<i>bd_id</i>	(Optional) bd id
<i>table_id</i>	(Optional) tenant table-id
<i>VNI</i>	(Optional) vni
<i>Drop</i>	(Optional) Drop
<i>Refcount</i>	(Optional) Refcount
<i>Origin</i>	(Optional) origin
<i>State</i>	(Optional) state
<i>Del</i>	(Optional) del

Command Mode

- /exec

show forwarding nve l3 ecmp

show forwarding nve l3 ecmp

Syntax Description

show	
forwarding	display fib information
nve	nve related info
l3	Layer 3
ecmp	nve ecmp info

Command Mode

- /exec

show forwarding nve l3 peers

```
show forwarding nve l3 peers [ peers <peer_id> | tunnel <tunnel_id> | detail | module <num> ] + [ __readonly__
<tunnel_id> <peer_id> <peer_address> <interface> <rmac> <origin> <state> <del> <count> ]
```

Syntax Description

show	show
forwarding	display fib information
nve	nve related info
l3	Layer 3
peers	nve peers
<i>peer_id</i>	(Optional) nve peer-id
tunnel	(Optional) VXLAN tunnel
<i>tunnel_id</i>	(Optional) Unique identifier for the tunnel
detail	(Optional) Show detailed information
module	(Optional) Slot/module
<i>num</i>	(Optional) Slot/module number
<i>__readonly__</i>	(Optional)
<i>tunnel_id</i>	(Optional) tunnel_id
<i>peer_id</i>	(Optional) peer_id
<i>peer_address</i>	(Optional) peer_address
<i>interface</i>	(Optional) interface
<i>rmac</i>	(Optional) rmac
<i>origin</i>	(Optional) origin
<i>state</i>	(Optional) state
<i>del</i>	(Optional) del
<i>count</i>	(Optional) count

Command Mode

- /exec

show forwarding otv

```
show forwarding otv <intf> [ peer <peer-id> ] [ module <module> ] [ __readonly__ <vlan> <peer-id>
<peer_vlan_count><tunnel_ifindex><tunnel_ifname> ]
```

Syntax Description

show	
forwarding	fib information
otv	overlay-transport-virtualization
<i>intf</i>	overlay interface
peer	(Optional) overlay peer
<i>peer-id</i>	(Optional) overlay peer-id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>vlan</i>	(Optional) Vlan information
<i>peer-id</i>	(Optional) peer-id

Command Mode

- /exec

show forwarding otv ipv6 multicast route

```
show forwarding otv ipv6 multicast route [ vlan <vlan_id> ] [ module <module> ] [ __readonly__ [ <table_type> ] [ <vlan-id> ] [ <replicator> ] [ <num_routes> ] [ <num_starg_routes> ] [ <num_sg_routes> ] [ <num_gprefix_routes> ] [ <num_prefix_insert_fail> ] [ <num_groups> ] [ <num_sources> ] [ { TABLE_otv_mroute [ <src_addr> ] [ <src_len> ] [ <grp_addr> ] [ <grp_len> ] [ <df_ordinal> ] [ <rpfif> ] [ <flag> ] [ <route_pkts> ] [ <route_bytes> ] [ <otv_route_pkts> ] [ <otv_route_bytes> ] [ { TABLE_OIF <oif_count> [ <oiflist_id> ] [ <index> ] [ <refcount> ] [ { TABLE_OIFLIST <oifindex> [ <oif_pkts> ] [ <oif_bytes> ] [ <src_addr> ] [ <src_len> ] [ <oifname> ] [ <vlanid> ] [ <grp_addr> ] [ <grp_len> ] [ <otv_src_addr> ] [ <otv_grp_addr> ] } } ] } ] }
```

Syntax Description

show	show
forwarding	forwarding
otv	over-the-top virtualization
ipv6	ipv6
multicast	Multicast IPv6 information
route	Mcast route information
vlan	(Optional) vlan
<i>vlan_id</i>	(Optional) vlan id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>vlan-id</i>	(Optional) vlan id
<i>replicator</i>	(Optional) replicator name
<i>num_routes</i>	(Optional) Number of routes
<i>num_starg_routes</i>	(Optional) Number of (*,G) routes
<i>num_sg_routes</i>	(Optional) Number of (S,G) routes
<i>num_gprefix_routes</i>	(Optional) Number of (*,G-prefix) routes
<i>num_prefix_insert_fail</i>	(Optional) Prefix insert fail count
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address

TABLE_otv_mroute	(Optional)
<i>src_addr</i>	(Optional) Ipv6 address string
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_addr</i>	(Optional) Ipv6 address string
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>flag</i>	(Optional) Route type flag
<i>route_pkts</i>	(Optional) Route packet count
<i>route_bytes</i>	(Optional) Route bytes
<i>otv_route_pkts</i>	(Optional) OTV Route packet count
<i>otv_route_bytes</i>	(Optional) OTV Route bytes
TABLE_OIF	(Optional)
<i>oif_count</i>	(Optional) Number of OIFs
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>index</i>	(Optional) outgoing interface list index
<i>refcount</i>	(Optional) reference count
TABLE_OIFLIST	(Optional)
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>oif_pkts</i>	(Optional) OIF packets
<i>oif_bytes</i>	(Optional) OIF bytes
<i>src_addr</i>	(Optional) Multicast IPv4 Source Address
<i>src_len</i>	(Optional) Source Address Mask
<i>oifname</i>	(Optional) OIF Interface name
<i>vlanid</i>	(Optional) vlan id of the route
<i>grp_addr</i>	(Optional) Multicast IPv4 Group Address
<i>grp_len</i>	(Optional) Group address Mask
<i>otv_src_addr</i>	(Optional) Multicast IPv4 Source Address
<i>otv_grp_addr</i>	(Optional) Multicast IPv4 Group Address

Command Mode

- /exec

show forwarding otv multicast outgoing-interface-list

```
show forwarding otv multicast outgoing-interface-list [ __readonly__ { TABLE_OIF <index> [ <refcount>
] [ <intf> ] [ { TABLE_OIFLIST <oifindex> [ <src_addr> ] [ <src_len> ] [ <oifname> ] [ <vlanid> ] [
<grp_addr> ] [ <grp_len> ] } } ] ]
```

Syntax Description

show	
forwarding	Forwarding information
otv	over-the-top virtualization
multicast	Multicast IPv4 information
outgoing-interface-list	show outgoing interface list info
<i>__readonly__</i>	(Optional)
TABLE_OIF	(Optional) outgoing interface list table
<i>index</i>	(Optional) outgoing interface list index
<i>refcount</i>	(Optional) reference count
<i>intf</i>	(Optional) interface name
TABLE_OIFLIST	(Optional) outgoing interface list table
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>src_addr</i>	(Optional) Multicast IPv4 Source Address
<i>src_len</i>	(Optional) Source Address Mask
<i>oifname</i>	(Optional) OIF Interface name
<i>vlanid</i>	(Optional) vlan id of the route
<i>grp_addr</i>	(Optional) Multicast IPv4 Group Address
<i>grp_len</i>	(Optional) Group address Mask

Command Mode

- /exec

show forwarding otv multicast route

```
show forwarding otv multicast route [ [ vlan <vlan-id> ] ] [ softwarebd <software-bd> ] [ module <module> ] [ __readonly__ <replicator> ]
```

Syntax Description

show	show
forwarding	forwarding
otv	over-the-top virtualization
multicast	Multicast IPv4 information
route	Meast route information
vlan	(Optional) vlan
<i>vlan-id</i>	(Optional) vlan id
softwarebd	(Optional) Software Bridge Domain
<i>software-bd</i>	(Optional) Software bd
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>replicator</i>	(Optional) replicator name

Command Mode

- /exec

show forwarding otv vlan

show forwarding otv vlan [<vlan_id>] [module <module>] [__readonly__ <vlan>]

Syntax Description

show	show
forwarding	forwarding
otv	otv
vlan	vlan
<i>vlan_id</i>	(Optional) vlan id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>vlan</i>	(Optional) vlan

Command Mode

- /exec

show forwarding pss route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> } | table <table_id> ] [ ip | ipv4 ] pss route [ module <module> ]
```

Syntax Description

show	show
forwarding	forwarding
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
ip	(Optional) ipv4
ipv4	(Optional) ipv4
pss	display info from pss
route	route
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show forwarding restart

show forwarding restart [module <module>]

Syntax Description

show	
forwarding	fib information
restart	restart fib
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show forwarding route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ ip | ipv4 ] { route
| rnhdb } [ recursive ] [ summary | detail | platform | partial | <prefix> [ longer-prefixes ] [ detail | platform ]
| <address> [ detail | platform ] |
```

Syntax Description

show	
forwarding	display fib information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table id in hex
ip	(Optional) ipv4
ipv4	(Optional) ipv4
route	display IP routing table
rnhdb	rnh-db
recursive	(Optional) display routes with recursive next hops
partial	(Optional) display routes with partial ECMPs
summary	(Optional) display route counts
<i>prefix</i>	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
<i>address</i>	(Optional) display single longest match route
detail	(Optional) show detailed information about the routes
platform	(Optional) one command to show pi and pd info together

Command Mode

- /exec

show forwarding security group-tag

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> | vlan <vlan_id> ] [
ip | ipv4 ] security group-tag [ <addr> ] [ module <num> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ <header> <vrfname> <tid> <pfx-count> <ipa> <tag> <tv> <vid> ]
```

Syntax Description

show	
forwarding	display fib information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
vlan	(Optional) vlan
<i>vlan_id</i>	(Optional) vlan number
ip	(Optional) ipv4
ipv4	(Optional) ipv4
security	display IP security information
group-tag	ip_address->security_group_tag
<i>addr</i>	(Optional) specific ip address
module	(Optional) slot
__readonly__	(Optional)
<i>header</i>	(Optional) header string
<i>vrfname</i>	(Optional) VRF name
<i>tid</i>	(Optional) table identifier
<i>num</i>	(Optional) module number
<i>pfx-count</i>	(Optional) total prefix count in VRF
<i>ipa</i>	(Optional) ip address
<i>tag</i>	(Optional) security group tag

<i>tv</i>	(Optional) sgt valid
<i>vid</i>	(Optional) vlan indentifier

Command Mode

- /exec

show forwarding security mac

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ ip | ipv4 ] security
mac [ <addr> ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] + [ __readonly__
<header> <vrfname> <tid> <pfx-count> <ipa> <mac> <p> <m> <v> <intf> ]
```

Syntax Description

show	
forwarding	display fib information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
ip	(Optional) ipv4
ipv4	(Optional) ipv4
security	display IP security information
mac	ip_address->mac_address
<i>addr</i>	(Optional) specific ip address
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) header string
<i>vrfname</i>	(Optional) VRF name
<i>tid</i>	(Optional) table identifier
<i>pfx-count</i>	(Optional) total prefix count in VRF
<i>ipa</i>	(Optional) ip address
<i>mac</i>	(Optional) mac address
<i>p</i>	(Optional) 1 => ip->port binding
<i>m</i>	(Optional) 1 => ip->mac binding

<i>v</i>	(Optional) 1 => ip->vlan binding
<i>intf</i>	(Optional) ip->port interface

Command Mode

- /exec

show forwarding test on

show forwarding test { on | off } [module <module>]

Syntax Description

show	
forwarding	fib information
test	show test variable
on	set variable
off	reset variable
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show forwarding trace

show forwarding trace [clear] [module <module>] [__readonly__ <op>]

Syntax Description

show	
forwarding	display fib information
trace	display trace buffer
clear	(Optional) clear the trace buffer
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>op</i>	(Optional) output

Command Mode

- /exec

show forwarding trace profile

show forwarding trace profile

Syntax Description

show	
forwarding	display fib information
trace	display trace buffer
profile	show the collection profiling information

Command Mode

- /exec

show forwarding trace profile funcstats

show forwarding trace profile funcstats [enable | disable] [module <module>] [__readonly__ <op>]

Syntax Description

show	
forwarding	display fib information
trace	display trace buffer
profile	show the collection profiling information
funcstats	function statistics
enable	(Optional) enable function statistics
disable	(Optional) disable function statistics
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>op</i>	(Optional) output

Command Mode

- /exec

show forwarding trace profile funcstats



G Commands

- [show glbp](#), on page 614
- [show glbp brief](#), on page 619
- [show glbp capability](#), on page 621
- [show guestshell](#), on page 622

show glbp

```
show glbp [ vrf <vrf-name> ] [ interface <int-num> ] [ group <group-num> ] [ active | standby | disabled | init
| listen ] + [ __readonly__ <show_glbp_start> { TABLE_grp_detail <sg_nsf_state> <sg_print_nsf_state>
<sg_nsf_end> <sg_if_index> <sg_group_num> <sg_state> <sg_state_reason> <sg_state_count>
<sg_state_last_change> <sg_vip> <sg_vip_attr> <sg_num_vip_sec> { TABLE_grp_vip_sec <sg_vip_sec>
<sg_vip_sec_attr> } <sg_vip_sec_end> <sg_active_addr> <sg_cur_hello> <sg_cfg_hello> <sg_active_hello>
<sg_cur_hold> <sg_cfg_hold> <sg_active_hold> <sg_is_hello_timer_running> <sg_next_hello>
<sg_cur_redirect_time> <sg_cfg_redirect_time> <sg_active_redirect_time> <sg_cur_sec_holdtime>
<sg_cfg_sec_holdtime> <sg_active_sec_holdtime> <sg_cfg_ext_holdtime> <sg_timer_end>
<sg_auth_data_type> <sg_auth_data> <sg_preempt> <sg_preempt_min_delay>
<sg_is_preempt_timer_running> <sg_preempt_ts> <sg_delay_end> <sg_active_priority> <sg_active_timer>
<sg_standby_addr> <sg_standby_priority> <sg_standby_timer> <sg_router_end> <sg_grp_priority>
<sg_grp_priority_attr> <sg_weighting> <sg_weighting_attr> <sg_weighting_satisfied> <sg_weighting_max>
<sg_weighting_lower> <sg_weighting_upper> <sg_track_object> <sg_track_state> <sg_track_decrement>
<sg_weighting_end> <sg_load_bal> <sg_red_name> <sg_mem_count> <sg_mem_start> {
TABLE_grp_members <sg_mem_local_mac> <sg_mem_local_ip> <sg_mem_mac> <sg_mem_ip>
<sg_is_mem_local> <sg_is_mem_authenticated> } <sg_mem_end> <sg_all_mem_end> <sg_fwd_count>
<sg_active_fwd_count> { <sg_fwd_start> { TABLE_fwd_detail <sg_fwd_num> <sg_fwd_state>
<sg_fwd_state_change_count> <sg_fwd_last_state_change> <sg_fwd_mac> <sg_fwd_mac_type>
<sg_fwd_cfg_mac> <sg_fwd_owner> <sg_fwd_redirect> <sg_fwd_redirect_timer> <sg_fwd_is_sec_tmr_run>
<sg_fwd_sec_timer> <sg_fwd_ttl> <sg_fwd_ttr> <sg_fwd_pre> <sg_fwd_pre_min_delay>
<sg_fwd_is_pre_min_run> <sg_fwd_pre_min_val> <sg_fwd_active_router> <sg_fwd_active_router_attr>
<sg_fwd_weighting> <sg_fwd_active_addr> <sg_fwd_active_prio> <sg_fwd_active_prio_attr>
<sg_fwd_active_prio_weight_attr> <sg_fwd_active_timer_val> <sg_fwd_arp_replies> <sg_fwd_redirection>
<sg_fwd_preempt> } <sg_fwd_end> <sg_all_fwd_end> } } <show_glbp_end> ]
```

Syntax Description

show	Show running system information
glbp	Show GLBP
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Interface
<i>int-num</i>	(Optional) Interface type and number
group	(Optional) Group number
<i>group-num</i>	(Optional) Group number
active	(Optional) Groups in active state
standby	(Optional) Groups in standby state
disabled	(Optional) Groups in disabled state
init	(Optional) Groups in init state

<i>listen</i>	(Optional) Groups in listen state
<i>__readonly__</i>	(Optional) Read only
<i>show_glbp_start</i>	(Optional) show glbp start
<i>TABLE_grp_detail</i>	(Optional) Group table detail
<i>sg_nsf_state</i>	(Optional) show nsf state
<i>sg_print_nsf_state</i>	(Optional) Print NSF state
<i>sg_nsf_end</i>	(Optional) End of NSF details
<i>sg_if_index</i>	(Optional) Interface type and number
<i>sg_group_num</i>	(Optional) Group number
<i>sg_state</i>	(Optional) glbp state
<i>sg_state_reason</i>	(Optional) Reason
<i>sg_state_count</i>	(Optional) Number of state changes
<i>sg_state_last_change</i>	(Optional) Time of last state change
<i>sg_vip</i>	(Optional) Virtual IP address
<i>sg_vip_attr</i>	(Optional) Virtual IP address attribute
<i>sg_num_vip_sec</i>	(Optional) Number of Secondary virtual IP address
<i>TABLE_grp_vip_sec</i>	(Optional) Group secondary ip address
<i>sg_vip_sec</i>	(Optional) Secondary virtual IP address
<i>sg_vip_sec_attr</i>	(Optional) Secondary Virtual IP address attribute
<i>sg_vip_sec_end</i>	(Optional) End of Secondary Virtual IP addresses
<i>sg_active_addr</i>	(Optional) Active IP address
<i>sg_cur_hello</i>	(Optional) Current Hello Time
<i>sg_cfg_hello</i>	(Optional) Configured Hello Time
<i>sg_active_hello</i>	(Optional) Active Hello Time
<i>sg_cur_hold</i>	(Optional) Current Hold Time
<i>sg_cfg_hold</i>	(Optional) Configured Hold Time
<i>sg_active_hold</i>	(Optional) Active Hold Time
<i>sg_is_hello_timer_running</i>	(Optional) Hello Timer
<i>sg_next_hello</i>	(Optional) Time for next hello

<i>sg_cur_redirect_time</i>	(Optional) Current redirect time
<i>sg_cfg_redirect_time</i>	(Optional) Configured redirect time
<i>sg_active_redirect_time</i>	(Optional) Active redirect time
<i>sg_cur_sec_holdtime</i>	(Optional) Current secondary hold time
<i>sg_cfg_sec_holdtime</i>	(Optional) Configured secondary hold time
<i>sg_active_sec_holdtime</i>	(Optional) Active secondary hold time
<i>sg_cfg_ext_holdtime</i>	(Optional) Configured Extended hold time
<i>sg_timer_end</i>	(Optional) End of GLBP Timer values
<i>sg_auth_data_type</i>	(Optional) Authentication data type
<i>sg_auth_data</i>	(Optional) Authentication data
<i>sg_preempt</i>	(Optional) Preemption enabled
<i>sg_preempt_min_delay</i>	(Optional) Preemption min delay
<i>sg_is_preempt_timer_running</i>	(Optional) Preemption timer running
<i>sg_preempt_ts</i>	(Optional) Preemption timestamp
<i>sg_delay_end</i>	(Optional) End of delay values
<i>sg_active_priority</i>	(Optional) Active router priority
<i>sg_active_timer</i>	(Optional) Active timer value
<i>sg_standby_addr</i>	(Optional) Standby address
<i>sg_standby_priority</i>	(Optional) Standby priority
<i>sg_standby_timer</i>	(Optional) Standby timer value
<i>sg_router_end</i>	(Optional) End of Routers
<i>sg_grp_priority</i>	(Optional) Group priority
<i>sg_grp_priority_attr</i>	(Optional) Group priority attribute
<i>sg_weighting</i>	(Optional) Weighting
<i>sg_weighting_attr</i>	(Optional) Weighting attribute
<i>sg_weighting_satisfied</i>	(Optional) Weighting satisfied
<i>sg_weighting_max</i>	(Optional) Weighting max
<i>sg_weighting_lower</i>	(Optional) Weighting lower
<i>sg_weighting_upper</i>	(Optional) Weighting upper

<i>sg_track_object</i>	(Optional) Track
<i>sg_track_state</i>	(Optional) Track state
<i>sg_track_decrement</i>	(Optional) Track decrement
<i>sg_weighting_end</i>	(Optional) End of weighting
<i>sg_load_bal</i>	(Optional) Load balancing
<i>sg_red_name</i>	(Optional) IP redundancy name
<i>sg_mem_count</i>	(Optional) Membership count
<i>sg_mem_start</i>	(Optional) Start of membership attributes
TABLE_grp_members	(Optional) Group members
<i>sg_mem_local_mac</i>	(Optional) Member's local mac address
<i>sg_mem_local_ip</i>	(Optional) Member's local ip address
<i>sg_mem_mac</i>	(Optional) Member's mac address
<i>sg_mem_ip</i>	(Optional) Member's ip address
<i>sg_is_mem_local</i>	(Optional) Local
<i>sg_is_mem_authenticated</i>	(Optional) Is Member authenticated
<i>sg_mem_end</i>	(Optional) End of membership attributes
<i>sg_all_mem_end</i>	(Optional) End of all members
<i>sg_fwd_count</i>	(Optional) Number of forwarders in the group
<i>sg_active_fwd_count</i>	(Optional) Number of active forwarders in group
<i>sg_fwd_start</i>	(Optional) Forwarder Start attribute
TABLE_fwd_detail	(Optional) Forwarder table detail
<i>sg_fwd_num</i>	(Optional) Forwarder Number
<i>sg_fwd_state</i>	(Optional) Forwarder State
<i>sg_fwd_state_change_count</i>	(Optional) Forwarder State Change count
<i>sg_fwd_last_state_change</i>	(Optional) Time of last State Change
<i>sg_fwd_mac</i>	(Optional) Forwarder MAC address
<i>sg_fwd_mac_type</i>	(Optional) Forwarder MAC address type
<i>sg_fwd_cfg_mac</i>	(Optional) Configured Forwarder MAC address
<i>sg_fwd_owner</i>	(Optional) Forwarder owner

<i>sg_fwd_redirect</i>	(Optional) Forwarder redirection enabled
<i>sg_fwd_redirect_timer</i>	(Optional) Forwarder redirection timer
<i>sg_fwd_is_sec_tmr_run</i>	(Optional) Is Forwarder secondary timer running
<i>sg_fwd_sec_timer</i>	(Optional) Forwarder secondary timer
<i>sg_fwd_ttl</i>	(Optional) Forwarder ttl
<i>sg_fwd_ttr</i>	(Optional) Forwarder ttr
<i>sg_fwd_pre</i>	(Optional) Forwarder preemption enabled
<i>sg_fwd_pre_min_delay</i>	(Optional) Forwarder preempt min delay
<i>sg_fwd_is_pre_min_run</i>	(Optional) Is Forwarder preempt min running
<i>sg_fwd_pre_min_val</i>	(Optional) Forwarder preempt min value
<i>sg_fwd_active_router</i>	(Optional) Forwarder active router address
<i>sg_fwd_active_router_attr</i>	(Optional) Forwarder active router attribute
<i>sg_fwd_weighting</i>	(Optional) Forwarder weighting
<i>sg_fwd_active_addr</i>	(Optional) Forwarder active address
<i>sg_fwd_active_prio</i>	(Optional) Forwarder active priority
<i>sg_fwd_active_prio_attr</i>	(Optional) Forwarder priority attribute
<i>sg_fwd_active_prio_weight_attr</i>	(Optional) Forwarder priority weight attribute
<i>sg_fwd_active_timer_val</i>	(Optional) Forwarder active timer val
<i>sg_fwd_arp_replies</i>	(Optional) Forwarder arp replies
<i>sg_fwd_redirection</i>	(Optional) Forwarder redirection string
<i>sg_fwd_preempt</i>	(Optional) Forwarder preemption string
<i>sg_fwd_end</i>	(Optional) Forwarder End attribute
<i>sg_all_fwd_end</i>	(Optional) All Forwarders End attribute
<i>show_glbp_end</i>	(Optional) End of Group

Command Mode

- /exec

show glbp brief

```
show glbp [ vrf <vrf-name> ] [ interface <int-num> ] [ group <group-num> ] [ active | standby | disabled | init
| listen ] + brief [ __readonly__ { <sg_brf_start> <sg_brf_show_header> { TABLE_grp <sg_brf_int>
<sg_brf_group> <sg_brf_pri> <sg_brf_state> <sg_brf_vip> <sg_brf_act> <sg_brf_stdby> }
<sg_brf_gener_end> <sg_brf_fwd_start> { TABLE_fwd <sg_brf_fwd_int> <sg_brf_fwd_group>
<sg_brf_fwd_num> <sg_brf_fwd_pri> <sg_brf_fwd_state> <sg_brf_fwd_mac> <sg_brf_fwd_act> }
<sg_brf_fwd_end> <sg_brf_all_fwd_end> <sg_brf_end> } ]
```

Syntax Description

show	Show running system information
glbp	Show GLBP
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Interface
<i>int-num</i>	(Optional) Interface type and number
group	(Optional) Group number
<i>group-num</i>	(Optional) Group number
active	(Optional) Groups in active state
standby	(Optional) Groups in standby state
disabled	(Optional) Groups in disabled state
init	(Optional) Groups in init state
listen	(Optional) Groups in listen state
brief	Brief output
<i>__readonly__</i>	(Optional) Read only
<i>sg_brf_start</i>	(Optional) Start of group brief
<i>sg_brf_show_header</i>	(Optional) Show brief header
TABLE_grp	(Optional) Group table
<i>sg_brf_int</i>	(Optional) Interface type and number
<i>sg_brf_group</i>	(Optional) Group number
<i>sg_brf_pri</i>	(Optional) Group priority
<i>sg_brf_state</i>	(Optional) Group state

<i>sg_brf_vip</i>	(Optional) Virtual IP address
<i>sg_brf_act</i>	(Optional) Active router
<i>sg_brf_stdby</i>	(Optional) Standby router
<i>sg_brf_gener_end</i>	(Optional) End of generic configuration for group
<i>sg_brf_fwd_start</i>	(Optional) Start of forwarder brief
TABLE_fwd	(Optional) Forwarder table
<i>sg_brf_fwd_int</i>	(Optional) Forwarder interface
<i>sg_brf_fwd_group</i>	(Optional) Forwarder group number
<i>sg_brf_fwd_num</i>	(Optional) Forwarder number
<i>sg_brf_fwd_pri</i>	(Optional) Forwarder priority
<i>sg_brf_fwd_state</i>	(Optional) Forwarder state
<i>sg_brf_fwd_mac</i>	(Optional) Forwarder MAC address
<i>sg_brf_fwd_act</i>	(Optional) Forwarder active address
<i>sg_brf_fwd_end</i>	(Optional) End of forwarder brief
<i>sg_brf_all_fwd_end</i>	(Optional) End of all forwarders in group
<i>sg_brf_end</i>	(Optional) End of group brief

Command Mode

- /exec

show glbp capability

```
show glbp capability [ interface <int-num> ] [ __readonly__ <sg_cap_header> <sg_cap_start> { TABLE_cap
<sg_cap_int> <sg_cap_int_type> <sg_cap_support> <sg_cap_max_groups> } <sg_cap_end>
<sg_cap_all_if_end> ]
```

Syntax Description

show	Show running system information
glbp	GLBP
capability	GLBP capability
interface	(Optional) Interface
<i>int-num</i>	(Optional) Interface type and number
<i>__readonly__</i>	(Optional) Read only
<i>sg_cap_header</i>	(Optional) GLBP capability header
<i>sg_cap_start</i>	(Optional) Start of GLBP capability
TABLE_cap	(Optional) Capability table
<i>sg_cap_int</i>	(Optional) Interface
<i>sg_cap_int_type</i>	(Optional) Interface type
<i>sg_cap_support</i>	(Optional) Is GLBP supported
<i>sg_cap_max_groups</i>	(Optional) Maximum number of GLBP groups
<i>sg_cap_end</i>	(Optional) End of GLBP capability for interface
<i>sg_cap_all_if_end</i>	(Optional) End of GLBP capability for all interfaces

Command Mode

- /exec

show guestshell

```
show guestshell [ { detail } ] [ __readonly__ [ TABLE_detail <name> <package_name> <application_name>
<application_version> <application_description> <key_type> <signing_method> <licensing_name>
<licensing_version> <ova_path> <state> <disk_reservation> <memory_reservation> <cpu_reservation>
TABLE_attached_devices <type> <name> <alias> ] ]
```

Syntax Description

show	Show running system information
guestshell	Display guest shell service information
detail	(Optional) Detailed guest shell service information
__readonly__	(Optional) Read Only
TABLE_detail	(Optional) Virtual service detail table
<i>name</i>	(Optional) Virtual service name
<i>package_name</i>	(Optional) Virtual service package name
<i>application_name</i>	(Optional) Name of the application
<i>application_version</i>	(Optional) Version of the application
<i>application_description</i>	(Optional) Description of the application
<i>key_type</i>	(Optional) Virtual service key type
<i>signing_method</i>	(Optional) Method used to sign the package
<i>licensing_name</i>	(Optional) Name of the license
<i>licensing_version</i>	(Optional) Version of the license
<i>ova_path</i>	(Optional) Virtual service OVA path
<i>state</i>	(Optional) Virtual service state
<i>disk_reservation</i>	(Optional) Virtual service disk reservation
<i>memory_reservation</i>	(Optional) Virtual service memory reservation
<i>cpu_reservation</i>	(Optional) Virtual service CPU reservation
TABLE_attached_devices	(Optional) Attached devices table
<i>type</i>	(Optional) Type of the attached device
<i>name</i>	(Optional) Name of the attached device
<i>alias</i>	(Optional) Alias for the attached device

Command Mode

- /exec



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show hardware

```
show hardware [ __readonly__ <header_str> <bios_ver_str> [ <loader_ver_str> ] <kickstart_ver_str> [
<sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <kick_cmpl_time> <kick_tmstamp> [ <isan_file_name>
] [ <isan_cmpl_time> ] [ <isan_tmstamp> ] <chassis_id> <module_id> <cpu_name> <memory> <mem_type>
<proc_board_id> [ <host_name> ] <bootflash_size> [ <slot0_size> ] <kern_uptm_days> <kern_uptm_hrs>
<kern_uptm_mins> <kern_uptm_secs> <rr_usec> <rr_ctime> <rr_reason> [ <rr_sys_ver> ] [ <rr_service>
] [ <manufacturer> ] { TABLE_slot [ TABLE_slot_info [ [ <num_slot_str> ] [ <status_ok_empty> ] [ [ <type>
[ <num_submods> ] ] <model_num> <hw_ver> <part_num> <part_revision> <manuf_date> <serial_num>
<CLEI_code> ] ] } }
```

Syntax Description

show	Show running system information
hardware	Show hardware information
<i>__readonly__</i>	(Optional)
<i>header_str</i>	(Optional)
<i>bios_ver_str</i>	(Optional)
<i>loader_ver_str</i>	(Optional)
<i>kickstart_ver_str</i>	(Optional)
<i>sys_ver_str</i>	(Optional)
<i>bios_cmpl_time</i>	(Optional)
<i>kick_file_name</i>	(Optional)
<i>kick_cmpl_time</i>	(Optional)
<i>kick_tmstamp</i>	(Optional)
<i>isan_file_name</i>	(Optional)
<i>isan_cmpl_time</i>	(Optional)
<i>isan_tmstamp</i>	(Optional)
<i>chassis_id</i>	(Optional)
<i>module_id</i>	(Optional)
<i>cpu_name</i>	(Optional)
<i>memory</i>	(Optional)
<i>mem_type</i>	(Optional)
<i>proc_board_id</i>	(Optional)

<i>bootflash_size</i>	(Optional)
<i>slot0_size</i>	(Optional)
<i>host_name</i>	(Optional)
<i>kern_uptm_days</i>	(Optional)
<i>kern_uptm_hrs</i>	(Optional)
<i>kern_uptm_mins</i>	(Optional)
<i>kern_uptm_secs</i>	(Optional)
<i>rr_usecs</i>	(Optional)
<i>rr_ctime</i>	(Optional)
<i>rr_reason</i>	(Optional)
<i>rr_sys_ver</i>	(Optional)
<i>rr_service</i>	(Optional)
<i>manufacturer</i>	(Optional)
TABLE_slot	(Optional) Slot
<i>num_slot_str</i>	(Optional) Number of elements
TABLE_slot_info	(Optional) Slot Info
<i>status_ok_empty</i>	(Optional) Status (Present or Absent)
<i>type</i>	(Optional) Description of the element
<i>num_submods</i>	(Optional) Number of Submodules
<i>model_num</i>	(Optional) Model Number
<i>hw_ver</i>	(Optional) Hardware version
<i>part_num</i>	(Optional) Part Number
<i>part_revision</i>	(Optional) Part revision
<i>manuf_date</i>	(Optional) Manufacturing date
<i>serial_num</i>	(Optional) Serial Number
<i>CLEI_code</i>	(Optional) CLEI code

Command Mode

- /exec

show hardware access-list lou resource threshold

```
show hardware access-list lou resource threshold [ __readonly__ { current [ { lou [ { resource [ { threshold [
{ <threshold_value> } ] } ] } ] } ] } ] }
```

Syntax Description

show	Show running system information
hardware	Show hardware information
access-list	Access Control List
lou	LOU
resource	hardware resource
threshold	port expansion threshold
<i>__readonly__</i>	(Optional)
current	(Optional)
lou	(Optional)
resource	(Optional)
threshold	(Optional)
<i>threshold_value</i>	(Optional)

Command Mode

- /exec

show hardware access-list resource pooling

show hardware access-list resource pooling [*__readonly__* <mod-num> <status>]

Syntax Description

show	Show running system information
hardware	Show hardware information
access-list	Access Control List
resource	Hardware resource
pooling	ACL programming across TCAM banks
<i>__readonly__</i>	(Optional)
<i>mod-num</i>	(Optional) module number
<i>status</i>	(Optional) Banchaining status

Command Mode

- /exec

show hardware access-list tcam

```
show hardware access-list tcam { { template { nfe | nfe2 | l2-l3 | l3 | <name> | all } } | { region } } [
__readonly__ { TCAM_Region [ { TABLE_Sizes <type> <tcam_size> <tcam_width> } ] } ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
access-list	Access Control List
tcam	Show tcam parameters
region	Show tcam region sizes
__readonly__	(Optional)
TCAM_Region	(Optional)
TABLE_Sizes	(Optional)
<i>type</i>	(Optional)
<i>tcam_size</i>	(Optional)
<i>tcam_width</i>	(Optional)
template	Specify template name
nfe	NFE (Trident2) TCAM template
nfe2	NFE2 (Tomahawk) tcam template
l2-l3	L2-L3 default tcam template
l3	L3 default tcam template
<i>name</i>	Name of custom template to be displayed
all	Display all custom templates

Command Mode

- /exec

show hardware capacity

show hardware capacity

Syntax Description

show	Show running system information
hardware	Hardware related
capacity	Hardware usage levels for Power, Switching Fabric, Flash, etc

Command Mode

- /exec

show hardware capacity eobc

```
show hardware capacity eobc [ __readonly__ { eobc_usage <eobc_rx_packets> <eobc_rx_dropped>
<eobc_rx_pps> <eobc_tx_packets> <eobc_tx_dropped> <eobc_tx_pps> } ]
```

Syntax Description

show	Show running system information
hardware	Hardware related
capacity	resource inventory and/or usage level
eobc	EOBC resources
<i>__readonly__</i>	(Optional)
<i>eobc_usage</i>	(Optional)
<i>eobc_rx_packets</i>	(Optional)
<i>eobc_rx_dropped</i>	(Optional)
<i>eobc_rx_pps</i>	(Optional)
<i>eobc_tx_packets</i>	(Optional)
<i>eobc_tx_dropped</i>	(Optional)
<i>eobc_tx_pps</i>	(Optional)

Command Mode

- /exec

show hardware capacity fabric-utilization

show hardware capacity fabric-utilization

Syntax Description

show	Show running system information
hardware	Show hardware information
capacity	resource inventory and/or usage level
fabric-utilization	Show per module Fabric utilization

Command Mode

- /exec

show hardware capacity forwarding

show hardware capacity forwarding

Syntax Description

show	Show running system information
hardware	Hardware related
capacity	Hardware usage levels for Power, Switching Fabric, Flash, etc
forwarding	L2/L3 Forwarding resources

Command Mode

- /exec

show hardware capacity interface

```
show hardware capacity interface [ __readonly__ { TABLE_module_drops <module_drops> <tx_drops>
<rx_drops> <max_tx_port> <max_rx_port> } { TABLE_module_buffers <module_buffers> <tx_buffers>
<rx_buffers> } ]
```

Syntax Description

show	Show running system information
hardware	Hardware related
capacity	Usage levels
interface	Interface Resources - Tx/Rx drops and Tx/Rx buffers
__readonly__	(Optional) Read Only
<i>module_drops</i>	(Optional) Module number for Tx/Rx drops
TABLE_module_drops	(Optional) show module
<i>tx_drops</i>	(Optional) Tx drops
<i>rx_drops</i>	(Optional) Rx drops
<i>max_tx_port</i>	(Optional) Port with max Tx drops
<i>max_rx_port</i>	(Optional) Port with max Rx drops
<i>module_buffers</i>	(Optional) Module number for Tx/Rx buffers
TABLE_module_buffers	(Optional) show module
<i>tx_buffers</i>	(Optional) Tx buffers
<i>rx_buffers</i>	(Optional) Rx buffers

Command Mode

- /exec

show hardware capacity module

```
show hardware capacity module [ __readonly__ { sup_ha_status <sup_ha_admin_status> <sup_ha_oper_status>
<dual_sup_hw_state> <redundancy_state> } { switch_resouces { TABLE_lcinfo <mod_num> <model_num>
<part_num> <serial_num> } { TABLE_xbarinfo <mod_num1> <model_num1> <part_num1> <serial_num1>
} } { TABLE_flash_nvram_info <mod_num2> <dev_name> <total_bytes> <free_bytes> <percent_used> }
]
```

Syntax Description

show	Show running system information
hardware	Hardware related
capacity	resource inventory and/or usage level
module	SUP, LC, XBAR
<i>__readonly__</i>	(Optional)
<i>sup_ha_status</i>	(Optional)
<i>sup_ha_admin_status</i>	(Optional)
<i>sup_ha_oper_status</i>	(Optional)
<i>dual_sup_hw_state</i>	(Optional)
<i>redundancy_state</i>	(Optional)
<i>switch_resouces</i>	(Optional)
<i>TABLE_lcinfo</i>	(Optional)
<i>mod_num</i>	(Optional)
<i>model_num</i>	(Optional)
<i>part_num</i>	(Optional)
<i>serial_num</i>	(Optional)
<i>TABLE_xbarinfo</i>	(Optional)
<i>mod_num1</i>	(Optional)
<i>model_num1</i>	(Optional)
<i>part_num1</i>	(Optional)
<i>serial_num1</i>	(Optional)
<i>TABLE_flash_nvram_info</i>	(Optional)
<i>mod_num2</i>	(Optional)

<i>dev_name</i>	(Optional)
<i>total_bytes</i>	(Optional)
<i>free_bytes</i>	(Optional)
<i>percent_used</i>	(Optional)

Command Mode

- /exec

show hardware capacity power

```
show hardware capacity power [ __readonly__ { power_summary <ps_redun_mode_admin>
<ps_redun_mode_oper> <power_total> <power_rsvd> <power_rsvd_percent> <power_given_mod>
<power_given_mod_percent> <power_avail> <power_avail_percent> <power_out_actual_draw>
<power_input_actual_draw> } ]
```

Syntax Description

show	Show running system information
hardware	Hardware related
capacity	resource inventory and/or usage level
power	power summary
__readonly__	(Optional)
power_summary	(Optional)
<i>ps_redun_mode_admin</i>	(Optional) Mode: Redundant or Non-redundant
<i>ps_redun_mode_oper</i>	(Optional) Mode: Redundant or Non-redundant
<i>power_total</i>	(Optional)
<i>power_rsvd</i>	(Optional)
<i>power_rsvd_percent</i>	(Optional)
<i>power_given_mod</i>	(Optional)
<i>power_given_mod_percent</i>	(Optional)
<i>power_avail</i>	(Optional)
<i>power_avail_percent</i>	(Optional)
<i>power_out_actual_draw</i>	(Optional) Total Power Output, Actuals
<i>power_input_actual_draw</i>	(Optional) Total Power Input, Actuals

Command Mode

- /exec

show hardware fabricpath mac-learning module

```
show hardware fabricpath mac-learning module <module> [ __readonly__ { [ { TABLE_module
<module_num> <port_group> <mac_learning> } ] } ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
fabricpath	Fabric Path
mac-learning	MAC Learning
module	Specify a module number
<i>module</i>	Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_module	(Optional)
<i>module_num</i>	(Optional) Specify a module number
<i>port_group</i>	(Optional)
<i>mac_learning</i>	(Optional)

Command Mode

- /exec

show hardware feature-capability

```
show hardware feature-capability [ detailed ] [ __readonly__ [ TABLE_feature_support <feature_name> [
TABLE_module_support <mod_inst> <support> ] ] ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
feature-capability	show registered features supported
detailed	(Optional) detailed
__readonly__	(Optional)
TABLE_feature_support	(Optional) show features supported
<i>feature_name</i>	(Optional) feature name
TABLE_module_support	(Optional) show registered features supported
<i>mod_inst</i>	(Optional) module instance
<i>support</i>	(Optional) support details

Command Mode

- /exec

show hardware flow aging

show hardware flow aging [instance <inst>] [module <num>]

Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
aging	Aging Info
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

show hardware flow entry address type

show hardware flow entry address <addr> type { ip | ipv6 | l2 | mpls } [instance <inst>] [module <num>]

Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
entry	Netflow Table Entry
address	Netflow Table Address
<i>addr</i>	Netflow Table Address
type	Flow Type
ip	Internet Protocol Version 4
ipv6	Internet Protocol Version 6
l2	Layer 2 Protocol
mpls	MPLS Protocol
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

show hardware flow ip

```
show hardware flow ip [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
ip	Internet Protocol Version 4
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

show hardware flow ipmac

```
show hardware flow ipmac [ { { profile <prof_id> } | { vlan <vlan_id> } | { interface <interface> } } ] [
instance <inst> ] [ detail ] [ module <num> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
ipmac	IPv4+MAC
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

show hardware flow ipv6

```
show hardware flow ipv6 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
ipv6	Internet Protocol Version 6
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

show hardware flow l2

```
show hardware flow l2 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } } ] [ instance
<inst> ] [ detail ] [ module <num> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
l2	Layer 2 Protocol
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

show hardware flow mpls

```
show hardware flow mpls [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
mpls	MPLS Protocol
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

show hardware flow sampler

```
show hardware flow sampler { all | count | index <index> | name <sname> } [ detail ] [ instance <inst> ] [ module <num> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
sampler	Flow Sampler
all	Netflow Sampler Usage
count	Netflow Sampler Utilization
index	Netflow Sampler Index
<i>index</i>	Netflow Sampler Index
name	Netflow Sampler Name
<i>sname</i>	Netflow Sampler Name
detail	(Optional) Detailed Output Display
instance	(Optional) Instance
<i>inst</i>	(Optional) Clipper Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

show hardware flow utilization

show hardware flow utilization [instance <inst>] [module <num>]

Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
utilization	NT Table Utilization
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

show hardware forwarding interface statistics mode

```
show hardware forwarding interface statistics mode [ __readonly__ { system [ { <sysmode> } ] [ {
TABLE_module <module> <modmode> } ] } ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	Show hardware information for forwarding path
interface	Interface
statistics	Statistics
mode	Statistics mode
__readonly__	(Optional)
system	(Optional)
<i>sysmode</i>	(Optional)
TABLE_module	(Optional)
<i>module</i>	(Optional) Specify a module number
<i>modmode</i>	(Optional)

Command Mode

- /exec

show hardware forwarding memory health detail

show hardware forwarding memory health detail

Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	forwarding information
memory	memory information
health	memory health information
detail	show the detail

Command Mode

- /exec

show hardware forwarding memory health summary

show hardware forwarding memory health summary

Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	forwarding information
memory	memory information
health	memory health information
summary	show the summary

Command Mode

- /exec

show hardware ip verify

show hardware [forwarding] ip verify [module <module>] [__readonly__ <info_str>]

Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	(Optional) Show hardware information for forwarding path
ip	IP
verify	Show IP packet verification checks enabled in hardware
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
<i>info_str</i>	(Optional) IDS Check Stats

Command Mode

- /exec

show hardware profile status

```
show hardware profile status [ module <module> ] [ detail ] [ __readonly__ { <total_lpm> <total_host>
<reserved_lpm> <max_host4_limit> <max_host6_limit> <max_mcast_limit> <max_mcast6_limit>
<used_lpm_total> <used_v4_lpm> <used_v6_lpm> <used_v6_lpm_128> <used_host_lpm_total>
<used_host_v4_lpm> <used_host_v6_lpm> <used_mcast> <used_mcast6> <used_mcast_oifl>
<used_host_in_host_total> <used_host4_in_host> <used_host6_in_host> <mfib_fd_status>
<mfib_fd_maxroute> <mfib_fd_count> <max_v6_lpm_65_to_127_limit> <max_v6_lpm_limit>
<max_ecmp_table_limit> <used_ecmp_table> <lpm_to_host_migrate_table> <host_to_lpm_migrate_table>
<max_mcast_transit_route_limit> <used_mcast_transit_routes> <max_ecmp_nh_table_limit>
<used_ecmp_nh_table> } ]
```

Syntax Description

show	Show running system information
hardware	Show hardware usage settings
profile	Show current table usage
status	Show status of dynamic resource allocation
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
detail	(Optional) Show detailed information
<i>__readonly__</i>	(Optional) Read only
<i>total_lpm</i>	(Optional) Total LPM Entries
<i>total_host</i>	(Optional) Total Host Entries
<i>reserved_lpm</i>	(Optional) Reserved LPM Entries
<i>max_host4_limit</i>	(Optional) Max Host4 Limit Entries
<i>max_host6_limit</i>	(Optional) Max Host6 Limit Entries
<i>max_mcast_limit</i>	(Optional) Max Mcast Limit Entries
<i>max_mcast6_limit</i>	(Optional) Max IPv6 Mcast Limit Entries
<i>used_lpm_total</i>	(Optional) Used LPM Entries (Total)
<i>used_v4_lpm</i>	(Optional) Used IPv4 LPM Entries
<i>used_v6_lpm</i>	(Optional) Used IPv6 LPM Entries
<i>used_v6_lpm_128</i>	(Optional) Used IPv6 LPM_128 Entries
<i>used_host_lpm_total</i>	(Optional) Used Host Entries in LPM (Total)
<i>used_host_v4_lpm</i>	(Optional) Used Host4 Entries in LPM

<i>used_host_v6_lpm</i>	(Optional) Used Host6 Entries in LPM
<i>used_mcast</i>	(Optional) Used Mcast Entries
<i>used_mcast6</i>	(Optional) Used IPv6 Mcast Entries
<i>used_mcast_oifl</i>	(Optional) Used Mcast OIFL Entries
<i>used_host_in_host_total</i>	(Optional) Used Host Entries in Host (Total)
<i>used_host4_in_host</i>	(Optional) Used Host4 Entries in Host
<i>used_host6_in_host</i>	(Optional) Used Host6 Entries in Host
<i>mfib_fd_status</i>	(Optional) MFIB fd status
<i>mfib_fd_maxroute</i>	(Optional) MFIB fd maxroute
<i>mfib_fd_count</i>	(Optional) MFIB fd count
<i>max_v6_lpm_65_to_127_limit</i>	(Optional) Max Ucast IPv6 LPM_65_to_127 Limit Entries
<i>max_v6_lpm_limit</i>	(Optional) Max Ucast IPv6 LPM Limit Entries
<i>max_ecmp_table_limit</i>	(Optional) Max ECMP table Limit Entries
<i>used_ecmp_table</i>	(Optional) Used ECMP Table Entries
<i>lpm_to_host_migrate_table</i>	(Optional) Times Route Migrated from LPM to Host Table
<i>host_to_lpm_migrate_table</i>	(Optional) Times Route Migrated from Host to LPM Table
<i>max_mcast_transit_route_limit</i>	(Optional) Max Mcast Transit Route Limit Entries
<i>used_mcast_transit_routes</i>	(Optional) Used Mcast Transit Routes
<i>max_ecmp_nh_table_limit</i>	(Optional) Max ECMP NH table Limit Entries
<i>used_ecmp_nh_table</i>	(Optional) Used ECMP NH Table Entries

Command Mode

- /exec

show hardware profile tcam region

```
show hardware profile tcam region [ __readonly__ { TCAM_Region [ { TABLE_Sizes <tcam_compat_type>
<tcam_compat_size> <tcam_compat_width> } ] } ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
profile	profile
tcam	Show tcam parameters
region	Show tcam region sizes
<i>__readonly__</i>	(Optional)
TCAM_Region	(Optional)
TABLE_Sizes	(Optional)
<i>tcam_compat_type</i>	(Optional)
<i>tcam_compat_size</i>	(Optional)
<i>tcam_compat_width</i>	(Optional)

Command Mode

- /exec

show hardware qos afd profile

```
show hardware qos afd profile [ module <module> ] [ __readonly__ TABLE_qos_afd_profile <module>
<prof-desc> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
afd	Show Approximate Fair Dropping config
profile	Show AFD profile config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_afd_profile	(Optional) the xml qos_afd_profile configuration
<i>prof-desc</i>	(Optional) profile description

Command Mode

- /exec

show hardware qos burst-detect max-records

show hardware qos burst-detect max-records [__readonly__ TABLE_qos_burstdetect_maxrecords]

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
burst-detect	Show oobst burst-detect info
max-records	Show oobst burst-detect max-records
__readonly__	(Optional)
TABLE_qos_burstdetect_maxrecords	(Optional) the xml qos_burst-detect max-records configuration

Command Mode

- /exec

show hardware qos eoq stats-class

```
show hardware qos eoq stats-class [ module <module> ] [ __readonly__ TABLE_qos_eoq_stats_class <module>
<eoq-stats-class-desc> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show QoS related information
eoq	Show Extended Output Queue(EOQ) related information
stats-class	Show EOQ Statistics class selection config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_eoq_stats_class	(Optional) the xml qos_eoq_stats_class configuration
<i>eoq-stats-class-desc</i>	(Optional) selected class description

Command Mode

- /exec

show hardware qos include ipg

show hardware qos include ipg [module <module>] [__readonly__ TABLE_qos_include_ipg <module>]

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
include	Show include config
ipg	Show whether to include IPG in Shaping/Policing config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
__readonly__	(Optional)
TABLE_qos_include_ipg	(Optional) the xml qos_include_ipg configuration

Command Mode

- /exec

show hardware qos ing-pg-hdrm-reserve

```
show hardware qos ing-pg-hdrm-reserve [ module <module> ] [ __readonly__
TABLE_qos_ing_pg_hdrm_reserve <module> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-hdrm-reserve	Show ing-pg-hdrm-reserve config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ing_pg_hdrm_reserve	(Optional) the xml qos_ing_pg_hdrm_reserve configuration

Command Mode

- /exec

show hardware qos ing-pg-no-min

```
show hardware qos ing-pg-no-min [ module <module> ] [ __readonly__ TABLE_qos_ing_pg_no_min
<module> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-no-min	Show ing-pg-no-min config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ing_pg_no_min	(Optional) the xml qos_ing_pg_no_min configuration

Command Mode

- /exec

show hardware qos ing-pg-share

```
show hardware qos ing-pg-share [ module <module> ] [ __readonly__ TABLE_qos_ing_pg_share <module> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-share	Show ing-pg-share config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ing_pg_share	(Optional) the xml qos_ing_pg_share configuration

Command Mode

- /exec

show hardware qos min-buffer

```
show hardware qos min-buffer [ module <module> ] [ __readonly__ TABLE_qos_min_buffer_profile
<module> <buff-prof-desc> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
min-buffer	Show min-buffer config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_min_buffer_profile	(Optional) the xml qos_min_buffer_profile configuration
<i>buff-prof-desc</i>	(Optional) buffer profile description

Command Mode

- /exec

show hardware qos ns-buffer-profile

```
show hardware qos ns-buffer-profile [ module <module> ] [ __readonly__ TABLE_qos_ns_buffer_profile
<module> <buff-prof-desc> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ns-buffer-profile	Show ns-buffer-profile config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ns_buffer_profile	(Optional) the xml qos_ns_buffer_profile configuration
<i>buff-prof-desc</i>	(Optional) buffer profile description

Command Mode

- /exec

show hardware qos ns-mcq3-alias

```
show hardware qos ns-mcq3-alias [ module <module> ] [ __readonly__ TABLE_qos_ns_mcq3_alias <module>
<ns-mcq3-alias-desc> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show QoS related information
ns-mcq3-alias	Show NS mc-queue-3 alias class selection config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ns_mcq3_alias	(Optional) the xml qos_ns_mcq3_alias configuration
<i>ns-mcq3-alias-desc</i>	(Optional) selected class description

Command Mode

- /exec

show hardware rate-limiter

```
show hardware rate-limiter [ module <module> ] [ layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2
<l2-opts> | <opts> | fl <f1-opts> | span-egress ] [ __readonly__ TABLE hardware_rate_limiter
<rate-limit-class> <class-descr> <module> <rate-limit-configured> <rate-limit-allowed> <rate-limit-dropped>
<rate-limit-total> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
rate-limiter	Show Rate-Limiter configs and statistics
layer-3	(Optional) Layer-3 control and Routed packets
<i>l3-opts</i>	(Optional)
multicast	(Optional) Multicast data packets
<i>mcast-opts</i>	(Optional)
layer-2	(Optional) Layer-2 control and Bridged packets
<i>l2-opts</i>	(Optional)
<i>opts</i>	(Optional)
fl	(Optional) Control packets from F1 modules to supervisor
<i>f1-opts</i>	(Optional)
span-egress	(Optional) SPAN/ERSPAN egress packets
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE hardware_rate_limiter	(Optional) the xml Rate-Limiter configuration and statistics
<i>rate-limit-class</i>	(Optional) the xml rate limiter class
<i>class-descr</i>	(Optional) class description
<i>module</i>	(Optional) the xml module number
<i>rate-limit-configured</i>	(Optional) the xml rate-limit-configured
<i>rate-limit-allowed</i>	(Optional) the xml rate-limit-allowed
<i>rate-limit-dropped</i>	(Optional) the xml rate-limit-dropped

<i>rate-limit-total</i>	(Optional) the xml rate-limit-total
-------------------------	-------------------------------------

Command Mode

- /exec

show hardware rate-limiter span-egress

show hardware rate-limiter span-egress

Syntax Description

show	Show running system information
hardware	Show hardware information
rate-limiter	Show Rate-Limiter configs and statistics
span-egress	SPAN/ERSPAN egress packets

Command Mode

- /exec

show hardware rl snmp class-id

```
show hardware rl snmp class-id <class-id> [ __readonly__ TABLE-classRateLimiterTable <class-id-out>
<class-descr> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
rl	Show Rate-Limiter configs and statistics
snmp	Show Rate-Limiter snmp information
class-id	rate-limiter class-id
<i>class-id</i>	rate-limiter class
<i>__readonly__</i>	(Optional)
TABLE-classRateLimiterTable	(Optional) Class Rate Limiter Table
<i>class-id-out</i>	(Optional) class if out
<i>class-descr</i>	(Optional) class description

Command Mode

- /exec

show hardware rl snmp global class-id

show hardware rl snmp global class-id <class-id> [__readonly__ TABLE-globalRateLimiterTable
<class-id-out> <rate-limit-configured> <rate-limit-allowed> <rate-limit-dropped> <rate-limit-total>]

Syntax Description

show	Show running system information
hardware	Show hardware information
rl	Show Rate-Limiter configs and statistics
snmp	Show Rate-Limiter snmp information
global	Show Global information
class-id	rate-limiter class-id
<i>class-id</i>	rate-limiter class
<i>__readonly__</i>	(Optional)
TABLE-globalRateLimiterTable	(Optional) Global Rate Limiter Table
<i>class-id-out</i>	(Optional) class if out
<i>rate-limit-configured</i>	(Optional) rate-limit-configured
<i>rate-limit-allowed</i>	(Optional) rate-limit-allowed
<i>rate-limit-dropped</i>	(Optional) rate-limit-dropped
<i>rate-limit-total</i>	(Optional) rate-limit-total

Command Mode

- /exec

show hardware rl snmp local snmp-index class-id

```
show hardware rl snmp local snmp-index <snmp-index> class-id <class-id> [ __readonly__
TABLE-localRateLimiterTable <snmp-index-out> <class-id-out> <rate-limit-configured>
<rate-limit-configured-source> <rate-limit-allowed> <rate-limit-dropped> <rate-limit-total> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
rl	Show Rate-Limiter configs and statistics
snmp	Show Rate-Limiter snmp information
local	Show Local information
snmp-index	snmp physical index
<i>snmp-index</i>	physical index
class-id	rate-limiter class-id
<i>class-id</i>	rate-limiter class
__readonly__	(Optional)
TABLE-localRateLimiterTable	(Optional) Local Rate Limiter Table
<i>snmp-index-out</i>	(Optional) snmp index out
<i>class-id-out</i>	(Optional) class if out
<i>rate-limit-configured</i>	(Optional) rate-limit-configured
<i>rate-limit-configured-source</i>	(Optional) rate-limit-configured-source
<i>rate-limit-allowed</i>	(Optional) rate-limit-allowed
<i>rate-limit-dropped</i>	(Optional) rate-limit-dropped
<i>rate-limit-total</i>	(Optional) rate-limit-total

Command Mode

- /exec

show hostname

```
show { hostname | switchname } [ __readonly__ { <hostname> } ]
```

Syntax Description

show	Show running system information
hostname	show the system's hostname
switchname	show the system's hostname
__readonly__	(Optional) Read Only
<i>hostname</i>	(Optional)

Command Mode

- /exec

show hosts

```
show hosts [ __readonly__ [ <dnslookup> ] [ <dnsnameservice> ] [ { TABLE_vrf <vrfname> [
<defaultdomains> ] [ <additionaldomainserver> ] [ <domainservers> ] [ <nameservice> ] [ <dhcpdomains>
] [ <dhcpdomainservers> ] } ] [ { TABLE_dnsconfigvrf <dnsvrfname> [ <usevrf> ] [ <token> ] [ {
TABLE_dnsconfigvrfconfig <config> } ] } ] [ { TABLE_hosts <host> [ <address> } ] }
```

Syntax Description

show	Show running system information
hosts	Show information about DNS
<i>__readonly__</i>	(Optional)
<i>dnslookup</i>	(Optional) dns lookup enable status
<i>dnsnameservice</i>	(Optional) name service
TABLE_vrf	(Optional) vrf domain servers
<i>vrfname</i>	(Optional) vrf name
<i>defaultdomains</i>	(Optional) default domain
<i>additionaldomainserver</i>	(Optional) additionaldomain
<i>domainservers</i>	(Optional) domain server
<i>nameservice</i>	(Optional) name service
<i>dhcpdomains</i>	(Optional) dhcp domains
<i>dhcpdomainservers</i>	(Optional) dhcpservers
TABLE_dnsconfigvrf	(Optional) dns config vrf
<i>dnsvrfname</i>	(Optional) vrfname
<i>usevrf</i>	(Optional) usevrf
<i>token</i>	(Optional) token
TABLE_dnsconfigvrfconfig	(Optional) dns config vrf config
<i>config</i>	(Optional) token
TABLE_hosts	(Optional) all configured dns hosts
<i>host</i>	(Optional) xml host information
<i>address</i>	(Optional) xml address information

Command Mode

- /exec

show hsrp

```
show hsrp [ interface <interface-id> ] [ group <group-number> ] [ active | init | learn | listen | speak | standby
] + [ all ] [ brief [ all ] | detail ] [ ipv4 | ipv6 ] [ __readonly__ <show_hsrp_start> { TABLE_grp_detail
<sh_if_index> <sh_group_num> <sh_group_type> <sh_group_version> <sh_group_state> <sh_state_reason>
<sh_prio> <sh_cfg_prio> <sh_fwd_lower_threshold> <sh_fwd_upper_threshold> <sh_can_forward>
<sh_preempt> <sh_preempt_min_delay> <sh_preempt_min_delay_active> <sh_preempt_reload_delay>
<sh_preempt_reload_delay_active> <sh_preempt_sync_delay> <sh_preempt_sync_delay_active>
<sh_cur_hello> <sh_cur_hello_attr> <sh_cfg_hello> <sh_cfg_hello_attr> <sh_active_hello> <sh_cur_hold>
<sh_cur_hold_attr> <sh_cfg_hold> <sh_cfg_hold_attr> <sh_vip> <sh_vip_v6> <sh_vip_attr>
<sh_num_vip_sec> { TABLE_grp_vip_sec <sh_vip_sec> <sh_vip_sec_v6> } <sh_active_router_addr>
<sh_active_router_addr_v6> <sh_active_router_prio> <sh_active_router_timer> <sh_standby_router_addr>
<sh_standby_router_addr_v6> <sh_standby_router_prio> <sh_authentication_type> <sh_authentication_data>
<sh_keystring_attr> <sh_keystring_timeout> <sh_keystring_cur_valid> <sh_vmac> <sh_vmac_attr>
<sh_num_of_state_changes> <sh_last_state_change> <sh_num_of_total_state_changes>
<sh_last_total_state_change> <sh_num_track_obj> { TABLE_grp_track_obj <sh_track_obj>
<sh_track_obj_state> <sh_track_obj_prio> } <sh_ip_redund_name> <sh_ip_redund_name_attr> }
<show_hsrp_end> ]
```

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
active	(Optional) Groups in active state
init	(Optional) Groups in init state
listen	(Optional) Groups in listen state
standby	(Optional) Groups in standby state
learn	(Optional) Groups in learn state
speak	(Optional) Groups in speak state
group	(Optional) Group number
<i>group-number</i>	(Optional) Group Number
all	(Optional) Include groups in disabled state
brief	(Optional) Brief output
detail	(Optional) Detailed output
ipv4	(Optional) HSRP V4 Groups
ipv6	(Optional) HSRP V6 Groups

all	(Optional) Display all VIPs
__readonly__	(Optional) Read only
show_hsrp_start	(Optional) Show hsrp start
TABLE_grp_detail	(Optional) Group table detail
sh_if_index	(Optional) Interface type and number
sh_group_num	(Optional) Group number
sh_group_state	(Optional) HSRP state
sh_state_reason	(Optional) Reason
sh_group_type	(Optional) Group type
sh_group_version	(Optional) Group version
sh_prio	(Optional) Priority
sh_cfg_prio	(Optional) Configured priority
sh_fwd_lower_threshold	(Optional) Lower threshold value
sh_fwd_upper_threshold	(Optional) Upper threshold value
sh_can_forward	(Optional) Current forwarding status
sh_preempt	(Optional) Preemption enabled/not
sh_preempt_min_delay	(Optional) Preemption min delay
sh_preempt_min_delay_active	(Optional) Active preemption min delay
sh_preempt_reload_delay	(Optional) Preemption reload delay
sh_preempt_reload_delay_active	(Optional) Active preemption reload delay
sh_preempt_sync_delay	(Optional) Preemption sync delay
sh_preempt_sync_delay_active	(Optional) Active preemption sync delay
sh_cur_hello	(Optional) Current hello time
sh_cur_hello_attr	(Optional) Hello time in ms/not
sh_cfg_hello	(Optional) Configured hello time
sh_cfg_hello_attr	(Optional) Hello time in ms/not
sh_active_hello	(Optional) Active hello time
sh_cur_hold	(Optional) Current hold time
sh_cur_hold_attr	(Optional) Hello time in ms/not

<i>sh_cfg_hold</i>	(Optional) Configured hold time
<i>sh_cfg_hold_attr</i>	(Optional) Hello time in ms/not
<i>sh_vip</i>	(Optional) Virtual IP address
<i>sh_vip_attr</i>	(Optional) Virtual IP address attribute
<i>sh_num_vip_sec</i>	(Optional) Number of Secondary virtual IP address
TABLE_grp_vip_sec	(Optional) Group secondary ip address
<i>sh_vip_sec</i>	(Optional) Secondary virtual IP address
<i>sh_active_router_addr</i>	(Optional) Active router address
<i>sh_active_router_prio</i>	(Optional) Active router priority
<i>sh_active_router_timer</i>	(Optional) Active router expiry timer
<i>sh_standby_router_addr</i>	(Optional) Standby router address
<i>sh_standby_router_prio</i>	(Optional) Standby router priority
<i>sh_authentication_type</i>	(Optional) Authentication type
<i>sh_authentication_data</i>	(Optional) Authentication data
<i>sh_keystring_attr</i>	(Optional) Keystring attribute
<i>sh_keystring_timeout</i>	(Optional) Keystring timeout
<i>sh_keystring_cur_valid</i>	(Optional) Keystring current valid time
<i>sh_vmac</i>	(Optional) Virtual MAC
<i>sh_vmac_attr</i>	(Optional) Virtual MAC attribute
<i>sh_num_of_state_changes</i>	(Optional) Number of state changes
<i>sh_last_state_change</i>	(Optional) Last state change time
<i>sh_num_of_total_state_changes</i>	(Optional) Number of total state changes
<i>sh_last_total_state_change</i>	(Optional) Last total state change time
<i>sh_num_track_obj</i>	(Optional) Number of tracked objects
TABLE_grp_track_obj	(Optional) Group tracked objects
<i>sh_track_obj</i>	(Optional) Tracked object
<i>sh_track_obj_state</i>	(Optional) State of tracked object
<i>sh_track_obj_prio</i>	(Optional) Tracked object priority decrement
<i>sh_ip_redund_name</i>	(Optional) IP redundancy name

<i>sh_ip_redund_name_attr</i>	(Optional) IP redundancy name attribute
<i>show_hsrp_end</i>	(Optional) End of Group

Command Mode

- /exec

show hsrp anycast

```
show hsrp anycast [ <id> { ipv4 | ipv6 | both } ] [ brief ]
```

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
<i>id</i>	(Optional) Bundle number
ipv4	(Optional) Associate IP Version 4 for the bundle
ipv6	(Optional) Associate IP Version 6 for the bundle
both	(Optional) Associate IP Version 4 and 6 for the bundle
brief	(Optional) Brief output

Command Mode

- /exec

show hsrp anycast interface vlan

show hsrp anycast interface { vlan | bdi } <id>

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
interface	Bundle on this interface Interface
vlan	VLAN interface
bdi	Bridge-Domain interface
<i>id</i>	VLAN number

Command Mode

- /exec

show hsrp anycast remote-db

```
show hsrp anycast remote-db [ <id> { ipv4 | ipv6 | both } ]
```

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
remote-db	Remote data base for the bundle
<i>id</i>	(Optional) Bundle number
ipv4	(Optional) Associate IP Version 4 for the bundle
ipv6	(Optional) Associate IP Version 6 for the bundle
both	(Optional) Associate IP Version 4 and 6 for the bundle

Command Mode

- /exec

show hsrp anycast summary

show hsrp anycast summary

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
summary	Show HSRP summary

Command Mode

- /exec

show hsrp bfd-sessions

```
show hsrp bfd-sessions [ interface <interface-id> [ to <ipaddress> ] ] [ __readonly__ TABLE_bfd_sess
<interface> <list_size> { <src_addr> | <src_addr_v6> } { <dst_addr> | <dst_addr_v6> } <ref_count> {
TABLE_ref_groups <ref_group_id> } { TABLE_hist_groups <hist_group_id> <hist_operation>
<hist_rel_time> <hist_abs_time> <hist_ref_count> <hist_group_state> <hist_status> <hist_op_reason> } ]
```

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
bfd-sessions	BFD sessions
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
to	(Optional) To IP address
<i>ipaddress</i>	(Optional) Sessions to IP address
<i>__readonly__</i>	(Optional)
TABLE_bfd_sess	(Optional)
<i>interface</i>	(Optional) Interface
<i>list_size</i>	(Optional) List size
<i>src_addr</i>	(Optional) IPv4 Source address
<i>dst_addr</i>	(Optional) IPv4 Destination address
<i>ref_count</i>	(Optional) Ref count
TABLE_ref_groups	(Optional)
<i>ref_group_id</i>	(Optional) Group id
TABLE_hist_groups	(Optional)
<i>hist_group_id</i>	(Optional) Group id
<i>hist_operation</i>	(Optional) Operation
<i>hist_rel_time</i>	(Optional) Relative time
<i>hist_abs_time</i>	(Optional) Absolute time
<i>hist_ref_count</i>	(Optional) Ref count
<i>hist_group_state</i>	(Optional) Group state

<i>hist_status</i>	(Optional) Status
<i>hist_op_reason</i>	(Optional) Op reason

Command Mode

- /exec

show hsrp bfd-sessions

```
show hsrp bfd-sessions [ interface <interface-id> [ to <ipaddress> ] ]
```

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
bfd-sessions	BFD sessions
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
to	(Optional) To IP address
<i>ipaddress</i>	(Optional) Sessions to IP address

Command Mode

- /exec

show hsrp delay

```
show hsrp delay [ interface <interface-id> ] [ __readonly__ TABLE_delay <interface> <min_delay>
<reload_delay> ]
```

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
delay	Group initialisation delay
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
<i>__readonly__</i>	(Optional)
TABLE_delay	(Optional)
<i>interface</i>	(Optional) Interface
<i>min_delay</i>	(Optional) Min delay
<i>reload_delay</i>	(Optional) Reload delay

Command Mode

- /exec

show hsrp ext-mib sec-addr

```
show hsrp ext-mib sec-addr [ <ifindex-in> <group-id-in> <ip1-in> <ip2-in> <ip3-in> <ip4-in> ] [ __readonly__
TABLE_cHsrpExtSecAddrTable <ifindex-out> <group-id-out> <ip1-out> <ip2-out> <ip3-out> <ip4-out> {
<cHsrpExtSecAddrTable> <cHsrpExtSecAddrAddress> <cHsrpExtSecAddrRowStatus> } ]
```

Syntax Description

<code>__readonly__</code>	(Optional) Read Only
<code>show</code>	Show running system information
<code>hsrp</code>	Hot Standby Router Protocol (HSRP) information
<code>ext-mib</code>	Show hsrp extended mib specific configuration
<code>sec-addr</code>	Secondary virtual address
<i>ifindex-in</i>	(Optional) hsrp group ifindex
<i>group-id-in</i>	(Optional) hsrp group id
<i>group-id-out</i>	(Optional) hsrp group num
<i>ifindex-out</i>	(Optional) hsrp group interface index
<i>ip1-in</i>	(Optional) first part of vip
<i>ip2-in</i>	(Optional) second part of vip
<i>ip3-in</i>	(Optional) third part of vip
<i>ip4-in</i>	(Optional) fourth part of vip
<i>ip1-out</i>	(Optional) first part of vip out
<i>ip2-out</i>	(Optional) second part of vip out
<i>ip3-out</i>	(Optional) third part of vip out
<i>ip4-out</i>	(Optional) fourth part of vip out
<code>TABLE_cHsrpExtSecAddrTable</code>	(Optional) Hsrp extended mib secondary address table
<i>cHsrpExtSecAddrTable</i>	(Optional) Hsrp extended mib Secondary address table
<i>cHsrpExtSecAddrAddress</i>	(Optional) Hsrp extended mib Secondary Address
<i>cHsrpExtSecAddrRowStatus</i>	(Optional) Hsrp extended mib secondary address row status

Command Mode

- /exec

show hsrp ext-mib use-bia

```
show hsrp ext-mib use-bia [ <ifindex-in> ] [ __readonly__ TABLE_cHsrpExtIfEntry <ifindex-out> {
<cHsrpExtIfUseBIA> <cHsrpExtIfRowStatus> } ]
```

Syntax Description

<code>__readonly__</code>	(Optional) Read Only
<code>show</code>	Show running system information
<code>hsrp</code>	Hot Standby Router Protocol (HSRP) information
<code>ext-mib</code>	Show hsrp extended mib specific configuration
<code>use-bia</code>	Use BIA
<code>ifindex-in</code>	(Optional) hsrp group ifindex
<code>ifindex-out</code>	(Optional) hsrp group ifindex
<code>TABLE_cHsrpExtIfEntry</code>	(Optional) Use BIA info table
<code>cHsrpExtIfUseBIA</code>	(Optional) Use BIA enabled
<code>cHsrpExtIfRowStatus</code>	(Optional) Use BIA row status

Command Mode

- /exec

show hsrp mgo

```
show hsrp mgo [ name <name> | brief ] [ __readonly__ TABLE_hsrp_mgo <master_name> <master_interface>
<master_address_family> <master_group_id> [ <master_version> ] <master_state> [ <master_down_reason>
] [ { TABLE_slave <slave_interface> <slave_group_id> <slave_state> [ <slave_down_reason> } ] [
<num_slave_group> ] ]
```

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
mgo	Show HSRP mgo details
name	(Optional) Redundancy name string
<i>name</i>	(Optional) name string
brief	(Optional) show HSPR mgo brief
<i>__readonly__</i>	(Optional)
TABLE_hsrp_mgo	(Optional)
<i>master_name</i>	(Optional) HSRP master name
<i>master_interface</i>	(Optional) HSRP master interface
<i>master_address_family</i>	(Optional) HSRP master AF
<i>master_group_id</i>	(Optional) HSRP master group ID
<i>master_version</i>	(Optional) HSRP master version
<i>master_state</i>	(Optional) HSRP master state
<i>master_down_reason</i>	(Optional) HSRP master down reason
TABLE_slave	(Optional) Slave table
<i>slave_interface</i>	(Optional) HSRP slave interface
<i>slave_group_id</i>	(Optional) HSRP slave group id
<i>slave_state</i>	(Optional) HSRP slave state
<i>slave_down_reason</i>	(Optional) HSRP slave down reason
<i>num_slave_group</i>	(Optional) HSRP number of slave groups

Command Mode

- /exec

show hsrp summary

```
show hsrp summary [ __readonly__ <switchover_notify_rxed> <bfd_enabled> <num_of_groups>
<num_of_v4_v1_groups> <num_of_v4_v2_groups> <num_of_v6_v2_groups> <num_of_active_groups>
<num_of_standby_groups> <num_of_listen_groups> <num_of_v6_active_groups>
<num_of_v6_standby_groups> <num_of_v6_listen_groups> <num_of_hsrp_enabled_ifs> <counter_pkts_tx>
<counter_pkts_tx_failure> <counter_pkts_in> <counter_pkts_bad_vr> <counter_mts_rx> ]
```

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
summary	Show HSRP summary
<i>__readonly__</i>	(Optional)
<i>switchover_notify_rxed</i>	(Optional) Switchover notification received (1 => active)
<i>bfd_enabled</i>	(Optional) BFD status
<i>num_of_groups</i>	(Optional) Total number of groups
<i>num_of_v4_v1_groups</i>	(Optional) Number of IPv4 V1 groups
<i>num_of_v4_v2_groups</i>	(Optional) Number of IPv4 V2 groups
<i>num_of_v6_v2_groups</i>	(Optional) Number of IPv6 V2 groups
<i>num_of_active_groups</i>	(Optional) Number of active groups
<i>num_of_standby_groups</i>	(Optional) Number of standby groups
<i>num_of_listen_groups</i>	(Optional) Number of listen groups
<i>num_of_v6_active_groups</i>	(Optional) Number of IPv6 active groups
<i>num_of_v6_standby_groups</i>	(Optional) Number of IPv6 standby groups
<i>num_of_v6_listen_groups</i>	(Optional) Number of IPv6 listen groups
<i>num_of_hsrp_enabled_ifs</i>	(Optional) Number of HSRP enabled interfaces
<i>counter_pkts_tx</i>	(Optional) Number of packet transmission successes
<i>counter_pkts_tx_failure</i>	(Optional) Number of packet transmission failure
<i>counter_pkts_in</i>	(Optional) Number of packets received successfully
<i>counter_pkts_bad_vr</i>	(Optional) Number of packets for unknown groups
<i>counter_mts_rx</i>	(Optional) Number of MTS messages received

Command Mode

- /exec



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show ieth-header-decode

show ieth-header-decode <ieth>

Syntax Description

show	Show running system information
ieth-header-decode	Show decode of ieth header
<i>ieth</i>	ieth header in hex (0xFF...) or string (FF..) form

Command Mode

- /exec

show incompatibility-all system

```
show incompatibility-all { system <uri0> | nxos <uri1> } [ __readonly__ { [ TABLE_incompat_all <Str1> [
<Serv> ] [ <Cap> ] [ <Desc> ] [ <Req> ] [ <Enable> ] ] [ <Dynamic> ] } ]
```

Syntax Description

show	Show running system information
incompatibility-all	Show incompatible configurations for the entire system
system	show incompatibilities with an image
<i>uri0</i>	Enter image uri
nxos	show incompatibilities with an image
<i>uri1</i>	Enter image uri
<i>__readonly__</i>	(Optional)
TABLE_incompat_all	(Optional) Show incompatibility system table
<i>Str1</i>	(Optional)
<i>Serv</i>	(Optional)
<i>Cap</i>	(Optional)
<i>Desc</i>	(Optional)
<i>Req</i>	(Optional)
<i>Enable</i>	(Optional)
<i>Dynamic</i>	(Optional)

Command Mode

- /exec

show incompatibility system

```
show incompatibility { system <uri0> | nxos <uri1> } [ __readonly__ { [ TABLE_incompat <Str1> [ <Serv>
] [ <Cap> ] [ <Desc> ] [ <Req> ] [ <Enable> ] [ <Dynamic> ] } ]
```

Syntax Description

show	Show running system information
incompatibility	Show incompatible configurations
system	show incompatibilities with an image
<i>uri0</i>	Enter image uri
nxos	show incompatibilities with an image
<i>uri1</i>	Enter image uri
<i>__readonly__</i>	(Optional)
TABLE_incompat	(Optional) Show incompatibility system table
<i>Str1</i>	(Optional)
<i>Serv</i>	(Optional)
<i>Cap</i>	(Optional)
<i>Desc</i>	(Optional)
<i>Req</i>	(Optional)
<i>Enable</i>	(Optional)
<i>Dynamic</i>	(Optional)

Command Mode

- /exec

show install

```
show install { inactive | active [ brief ] | committed } [ __readonly__ { <curr_nxos_image> [ TABLE_smu_list
<install_smu_id> + ] [ TABLE_package_list <package_id> ] } ]
```

Syntax Description

show	Show running system information
install	Install related show commands
inactive	Inactive packages
active	Active packages
brief	(Optional) Brief
committed	Committed packages
__readonly__	(Optional)
<i>curr_nxos_image</i>	(Optional) NXOS image
TABLE_smu_list	(Optional)
<i>install_smu_id</i>	(Optional) install operation smu identifier
TABLE_package_list	(Optional)
<i>package_id</i>	(Optional) Package name

Command Mode

- /exec

show install all failed-standby

show install all failed-standby [__readonly__ { [TABLE_installFailStandby <Str1>] }]

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	Show install all information
failed-standby	show log from failed standby
__readonly__	(Optional)
TABLE_installFailStandby	(Optional) Install failed-standby table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show install all failure-reason

```
show install all failure-reason [ __readonly__ { [ TABLE_installFailReason <installFailReasonStr> ] } ]
```

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
failure-reason	Show failure reason for the last install all
__readonly__	(Optional)
TABLE_installFailReason	(Optional) Install failure-reason table
<i>installFailReasonStr</i>	(Optional)

Command Mode

- /exec

show install all impact

show install all impact [nxos <uri>] + [non-disruptive]

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
impact	show impact of the install all command
nxos	(Optional) boot-variable name
<i>uri</i>	(Optional) Enter image uri
non-disruptive	(Optional) non-disruptive show install

Command Mode

- /exec

show install all impact epld

show install all impact epld <uri1>

Syntax Description

show	Show running system information
install	Show the software install status
all	show install all information
impact	show impact of the install all epld command
epld	Show EPLD install information
<i>uri1</i>	Local URI containing EPLD Image

Command Mode

- /exec

show install all status

show install all status

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
status	show status of the current or last install all

Command Mode

- /exec

show install epld status

show install epld status

Syntax Description

show	Show running system information
install	Show the software install status
epld	Show EPLD install information
status	Show status of previous EPLD upgrades

Command Mode

- /exec

show install impact

show install impact <uri0>

Syntax Description

show	Show running system information
install	Show the software install impact between two images
impact	impact system_uri {active_system_uri/active_kickstart_uri}
<i>uri0</i>	Enter system URI

Command Mode

- /exec

show install impact

show install impact <uri0> <uri1>

Syntax Description

show	Show running system information
install	Show the software install impact between two images
impact	impact system_uri {active_system_uri/active_kickstart_uri}
<i>uri0</i>	Enter system URI
<i>uri1</i>	Enter active URI

Command Mode

- /exec

show install impact detail

show install impact <uri0> detail

Syntax Description

show	Show running system information
install	Show the software install impact between two images
impact	impact system_uri {active_system_uri/active_kickstart_uri}
<i>uri0</i>	Enter system URI
detail	Show detailed install impact of given system image

Command Mode

- /exec

show install log

```
show install log { [ <id> | from <id1> ] [ detail ] [ reverse ] [ last ] } [ __readonly__ { current_time <curr_time>
[ TABLE_show_log_output <install_id> <install_log_entry> + ] } ]
```

Syntax Description

show	Show running system information
install	Install related show commands
log	log
<i>id</i>	(Optional) Install Identifies
from	(Optional) Starting at this install identifier
<i>id1</i>	(Optional) Install Identifier
detail	(Optional) Detailed information including impacted processes
reverse	(Optional) Displays the logs in reverse order
last	(Optional) Display the logs for last install operation
__readonly__	(Optional)
current_time	(Optional) current time
<i>curr_time</i>	(Optional) current time
TABLE_show_log_output	(Optional)
<i>install_id</i>	(Optional) install operation id
<i>install_log_entry</i>	(Optional) install log entry

Command Mode

- /exec

show install packages

```
show install packages [ __readonly__ { <curr_nxos_image> [ TABLE_package_list <package_name>
<version> <state> ] } ]
```

Syntax Description

show	Show running system information
install	Install related show commands
packages	All packages
<i>__readonly__</i>	(Optional)
<i>curr_nxos_image</i>	(Optional) NXOS image
TABLE_package_list	(Optional)
<i>package_name</i>	(Optional) Package name
<i>version</i>	(Optional) Package version
<i>state</i>	(Optional) package state

Command Mode

- /exec

show install patches

```
show install patches [ __readonly__ { <curr_nxos_image> [ TABLE_smu_list <install_smu_id>
<install_smu_state> [ TABLE_module_list <install_modno> <install_mod_smu_state> ] ] } ]
```

Syntax Description

show	Show running system information
install	Install related show commands
patches	All Patches
<i>__readonly__</i>	(Optional)
<i>TABLE_smu_list</i>	(Optional)
<i>curr_nxos_image</i>	(Optional) NXOS image
<i>install_smu_id</i>	(Optional) install operation smu identifier
<i>install_smu_state</i>	(Optional) install operation smu state
<i>TABLE_module_list</i>	(Optional)
<i>install_modno</i>	(Optional) install operation module number
<i>install_mod_smu_state</i>	(Optional) install operation module state

Command Mode

- /exec

show interface

```

show interface <ifid> [ brief|quick ] [ __readonly__ TABLE_interface <interface> [ <desc> ] [ <svi_if_index>
] [ <svi_admin_state> ] [ <svi_rsn_desc> ] [ <svi_line_proto> ] [ <svi_hw> ] [ <svi_mac> ] [ <svi_desc> ] [
<svi_ip_addr> ] [ <svi_ip_mask> ] [ <svi_mtu> ] [ <svi_bw> ] [ <svi_delay> ] [ <svi_tx_load> ] [
<svi_rx_load> ] [ <svi_carrier_delay_sec> ] [ <svi_carrier_delay_msec> ] [ <svi_arp_type> ] [
<svi_arp_timeout> ] [ <svi_time_last_cleared> ] { [ TABLE_sec_vlan ] [ <sec_vlan> ] [ <sec_vlan_type> ]
} [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [ <eth_load_interval1_tx> ] [
<eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [ <eth_inrate2_bits> ] [
<eth_inrate2_pkts> ] [ <eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_load_interval3> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [ <eth_outrate3_pkts> ] [ <eth_l2_ucastpkts>
] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [
<eth_l2_bcastbytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [
<eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [
<eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [
<eth_l3out_bcastbytes> ] [ <eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts>
] [ <eth_l3out_routed_bytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes>
] [ <eth_l3avg1_outpkts> ] [ <eth_l3avg2_inbytes> ] [ <eth_l3avg2_inpkts> ] [ <eth_l3avg2_outbytes> ] [
<eth_l3avg2_outpkts> ] [ <eth_l3avg3_inbytes> ] [ <eth_l3avg3_inpkts> ] [ <eth_l3avg3_outbytes> ] [
<eth_l3avg3_outpkts> ] [ <eth_inpkts> ] [ <eth_inbytes> ] [ <eth_nobuf> ] [ <eth_inbcast> ] [ <eth_inmcast>
] [ <eth_inucast> ] [ <eth_ingiants> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [ <eth_insw_switched> ] [
<eth_runts> ] [ <eth_storm_supp> ] [ <eth_throtles> ] [ <eth_inerr> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_frame>
] [ <eth_overrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_outbcast> ] [ <eth_outmcast> ] [
<eth_outucast> ] [ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ] [ <eth_in_ifdown_drops> ] [
<eth_bad_eth> ] [ <eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_underrun> ] [
<eth_outhw_switched> ] [ <eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_resets> ] [
<eth_babbles> ] [ <eth_latecoll> ] [ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_outpause>
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_single_coll>
] [ <eth_multi_coll> ] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_indiscard> ] [
<eth_bad_encap> ] [ <eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ] [ <eth_inb64>
] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [
<eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ] [
<eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [
<eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost>
] [ <eth_cos2_outlost> ] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [
<eth_cos6_outlost> ] [ <eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [ <eth_fcoe_in_octets> ] [
<eth_fcoe_out_pkts> ] [ <eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [ <eth_nfcoe_in_octets> ] [
<eth_nfcoe_out_pkts> ] [ <eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [ <eth_eee_arcv_lpi_msec>
] [ <eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [ <eth_phy_ber_count> ] [
<eth_phy_errblks_count> ] [ <svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out> ] [
<svi_routed_bytes_out> ] [ <svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [
<svi_mcast_bytes_in> ] [ <svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [
<svi_mcast_bytes_out> ] [ <svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [
<svi_ipv4_ucast_pkts_out> ] [ <svi_ipv4_ucast_bytes_out> ] [ <svi_ipv4_mcast_pkts_in> ] [
<svi_ipv4_mcast_bytes_in> ] [ <svi_ipv4_mcast_pkts_out> ] [ <svi_ipv4_mcast_bytes_out> ] [
<svi_ipv6_ucast_pkts_in> ] [ <svi_ipv6_ucast_bytes_in> ] [ <svi_ipv6_ucast_pkts_out> ] [
<svi_ipv6_ucast_bytes_out> ] [ <svi_ipv6_mcast_pkts_in> ] [ <svi_ipv6_mcast_bytes_in> ] [
<svi_ipv6_mcast_pkts_out> ] [ <svi_ipv6_mcast_bytes_out> ] [ <svi_average_input_bits> ] [
<svi_average_input_packets> ] [ <svi_average_output_bits> ] [ <svi_average_output_packets> ] [
<svi_rate_in_mins> ] [ <svi_reliability> ] <switchport> ]

```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid</i>	Enter interface type and number in module/slot format
brief	(Optional) Show brief info of interface
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>desc</i>	(Optional) Interface description
<i>switchport</i>	(Optional) Switchport enabled
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed
<i>svi_line_proto</i>	(Optional)
<i>svi_hw</i>	(Optional) Hardware
<i>svi_mac</i>	(Optional) Address
<i>svi_desc</i>	(Optional) Interface Description
<i>svi_ip_addr</i>	(Optional) IP Address
<i>svi_ip_mask</i>	(Optional) IP address mask
<i>svi_mtu</i>	(Optional) MTU size in bytes
<i>svi_bw</i>	(Optional) Bandwidth in kilobits
<i>svi_delay</i>	(Optional) Throughput delay (tens of microseconds)
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_carrier_delay_sec</i>	(Optional) carrier delay value in seconds
<i>svi_carrier_delay_msec</i>	(Optional) carrier delay value in milli-seconds
<i>svi_arp_type</i>	(Optional) ARP type
<i>svi_arp_timeout</i>	(Optional) ARP timeout value

<i>svi_time_last_cleared</i>	(Optional) Time last cleared
TABLE_sec_vlan	(Optional) secondary vlans
<i>sec_vlan</i>	(Optional) vlan id
<i>sec_vlan_type</i>	(Optional) secondary vlan type
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts

<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts

<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched

<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes

<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets

<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter
<i>svi_reliability</i>	(Optional) Reliability

Command Mode

- /exec

show interface

```
show interface <ifmgmt> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <share_state> ] [ <eth_bundle> ] [ <eth_dce_mode> ] [
<vpc_status> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [ <eth_ip_addr> ] [
<eth_ip_mask> ] [ <eth_ip_prefix> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_encap_vlan> ] [ <eth_dly> ] [
<eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [ <eth_loopback> ] [ <eth_keepalive> ] [ <eth_duplex>
] [ <eth_speed> ] [ <eth_mode> ] [ <eth_ratemode> ] [ <eth_autoneg> ] [ <eth_beacon> ] [ <eth_media> ] [
<eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_sw_t_monitor> ] [ <eth_ethertype> ] [
<eth_members> ] [ <eth_clk_mode> ] [ <eth_arp_type> ] [ <eth_arp_timeout> ] [ <eth_last_in> ] [
<eth_last_out> ] [ <eth_out_hang> ] [ <eth_clear_counters> ] [ <eth_link_flapped> ] [ <eth_inq_size> ] [
<eth_inq_max> ] [ <eth_inq_drops> ] [ <eth_inq_flush> ] [ <eth_out_drop> ] [ <eth_q_strategy> ] [
<eth_outq_size> ] [ <eth_outq_max> ] [ <eth_reset_cnt> ] [ <mgmt_hw_desc> ] [ <mgmt_hw_addr> ] [
<mgmt_ip_addr> ] [ <mgmt_ip_mask> ] [ <mgmt_mtu> ] [ <mgmt_speed> ] [ <mgmt_duplex> ] [
<vdc_lvl_in_avg_bits> ] [ <vdc_lvl_in_avg_pkts> ] [ <vdc_lvl_out_avg_bits> ] [ <vdc_lvl_out_avg_pkts>
] [ <vdc_lvl_in_pkts> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [ <vdc_lvl_in_bcast> ] [
<vdc_lvl_in_bytes> ] [ <vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_out_pkts> ] [ <vdc_lvl_out_ucast>
] [ <vdc_lvl_out_mcast> ] [ <vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_bps> ] [
<vdc_lvl_out_pps> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt</i>	Enter interface type and number in module/slot format
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>share_state</i>	(Optional) Interface ownership
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_dce_mode</i>	(Optional) DCE mode description
<i>vpc_status</i>	(Optional) VPC status
<i>eth_hw_desc</i>	(Optional) HW description

<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_loopback</i>	(Optional) Loopback
<i>eth_keepalive</i>	(Optional) Keepalive
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_mode</i>	(Optional) Port mode
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_media</i>	(Optional) Media type
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_sw_t_monitor</i>	(Optional) Switchport Monitor
<i>eth_etherstype</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_clk_mode</i>	(Optional) Clock mode

<i>eth_arp_type</i>	(Optional) ARP type
<i>eth_arp_timeout</i>	(Optional) ARP timeout
<i>eth_last_in</i>	(Optional) Last input
<i>eth_last_out</i>	(Optional) Last output
<i>eth_out_hang</i>	(Optional) Last output hang
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_inq_size</i>	(Optional) Input queue size
<i>eth_inq_max</i>	(Optional) Input queue max
<i>eth_inq_drops</i>	(Optional) Input queue drops
<i>eth_inq_flush</i>	(Optional) Input queue flushes
<i>eth_out_drop</i>	(Optional) Output drops
<i>eth_q_strategy</i>	(Optional) Queuing strategy
<i>eth_outq_size</i>	(Optional) Output queue size
<i>eth_outq_max</i>	(Optional) Output queue max
<i>eth_reset_ctr</i>	(Optional) Interface resets
<i>mgmt_hw_desc</i>	(Optional) HW description
<i>mgmt_hw_addr</i>	(Optional) HW address
<i>mgmt_ip_addr</i>	(Optional) IP address
<i>mgmt_ip_mask</i>	(Optional) IP address mask
<i>mgmt_mtu</i>	(Optional) MTU
<i>mgmt_speed</i>	(Optional) Speed
<i>mgmt_duplex</i>	(Optional) Duplex
<i>vdc_lvl_in_avg_bits</i>	(Optional) VDC level average input bits
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_out_avg_bits</i>	(Optional) VDC level average output bits
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets

<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second

Command Mode

- /exec

show interface

```

show interface [ controller | quick ] [ _readonly_ TABLE interface <interface> [ <state> ] [ <state_rsn_desc>
] [ <state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <admin_state> ] [ <share_state> ] [ <parent_interface>
] [ <vpc_status> ] [ <eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [
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<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_load_interval3> ] [ <eth_inrate3_bits> ] [
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] [ <eth_inerr> ] [ <eth_frame> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [ <eth_watchdog>
] [ <eth_bad_eth> ] [ <eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_dribble> ] [ <eth_indiscard> ] [
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] [ <mgmt_excess_col> ] [ <mgmt_carri_sen> ] [ <mgmt_runts> ] [ <mgmt_giants> ] [ <mgmt_sqetest_err>
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<loop_out_carriers> ] <admin-state> { <tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type>
<keepalive-period> <keepalive-retries> { <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> }
<dest-hostname> <vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu>
<tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate>
<tunnel_tx_pkt_count> <tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter> [ <svi_if_index>
] [ <svi_admin_state> ] [ <svi_rsn_desc> ] [ <svi_line_proto> ] [ <svi_hw> ] [ <svi_mac> ] [ <svi_desc> ] [

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<svi_ip_addr> ][ <svi_ip_mask> ][ <svi_mtu> ][ <svi_bw> ][ <svi_delay> ][ <svi_tx_load> ][
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<svi_arp_timeout> ][ <svi_time_last_cleared> ] { [ TABLE_sec_vlan ][ <sec_vlan> ][ <sec_vlan_type> ]
} [ <svi_routed_pkts_in> ][ <svi_routed_bytes_in> ][ <svi_routed_pkts_out> ][ <svi_routed_bytes_out> ]
[ <svi_ucast_pkts_in> ][ <svi_ucast_bytes_in> ][ <svi_mcast_pkts_in> ][ <svi_mcast_bytes_in> ][
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][ <overlay_vrf> ][ <overlay_src_addr> ][ <overlay_dst_addr> ][ <overlay_last_link_flap> ][
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][ <overlay_tx_bcastpkts> ][ <overlay_tx_bcastbytes> ][ <overlay_tx_pkts> ][ <overlay_tx_bytes> ][
<overlay_tx_bitrate> ][ <overlay_tx_pktrate> ] <switchport> ]

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Syntax Description

show	Show running system information
interface	Show interface status and information
controller	(Optional) Show controller configured interfaces
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>switchport</i>	(Optional) Switchport enabled
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>admin_state</i>	(Optional) admin state
<i>share_state</i>	(Optional) Interface ownership
<i>parent_interface</i>	(Optional) parent interface

<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>medium</i>	(Optional) medium type
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_sw_t_monitor</i>	(Optional) Switchport Monitor
<i>eth_ethertype</i>	(Optional) EtherType

<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>eth_load_interval1</i>	(Optional) interval 1 timer value in sec
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts

<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_jumbo_inpkts</i>	(Optional) Incoming jumbo pkts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_runts</i>	(Optional) runts

<i>eth_giants</i>	(Optional) giants
<i>eth_crc</i>	(Optional) CRC
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inerr</i>	(Optional) input errors
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_indiscard</i>	(Optional) discards
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_jumbo_outpkts</i>	(Optional) Outgoing jumbo pkts
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_deferred</i>	(Optional) deferred
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_outdiscard</i>	(Optional) output discard

<i>eth_outpause</i>	(Optional) PAUSE output
<i>mgmt_hw_desc</i>	(Optional) HW description
<i>mgmt_hw_addr</i>	(Optional) HW address
<i>mgmt_ip_addr</i>	(Optional) IP address
<i>mgmt_ip_mask</i>	(Optional) IP address mask
<i>mgmt_mtu</i>	(Optional) MTU
<i>mgmt_speed</i>	(Optional) Speed
<i>mgmt_duplex</i>	(Optional) Duplex
<i>vdc_lvl_in_avg_bits</i>	(Optional) VDC level average input bits
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_out_avg_bits</i>	(Optional) VDC level average output bits
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames

<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx

<i>mgmt_symbol_err</i>	(Optional) Symbol error
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>wccp_header</i>	(Optional) wccp header

<i>tth_val</i>	(Optional) tunnel time to live value
<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time
<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received
<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received
<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed
<i>svi_line_proto</i>	(Optional)
<i>svi_hw</i>	(Optional) Hardware
<i>svi_mac</i>	(Optional) Address
<i>svi_desc</i>	(Optional) Interface Description
<i>svi_ip_addr</i>	(Optional) IP Address
<i>svi_ip_mask</i>	(Optional) IP address mask
<i>svi_mtu</i>	(Optional) MTU size in bytes
<i>svi_bw</i>	(Optional) Bandwidth in kilobits
<i>svi_delay</i>	(Optional) Throughput delay (tens of microseconds)
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_carrier_delay_sec</i>	(Optional) carrier delay value in seconds
<i>svi_carrier_delay_msec</i>	(Optional) carrier delay value in milli-seconds
<i>svi_arp_type</i>	(Optional) ARP type

<i>svi_arp_timeout</i>	(Optional) ARP timeout value
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
TABLE_sec_vlan	(Optional) secondary vlans
<i>sec_vlan</i>	(Optional) vlan id
<i>sec_vlan_type</i>	(Optional) secondary vlan type
<i>svi_reliability</i>	(Optional) Reliability
<i>overlay_addr</i>	(Optional) Overlay address
<i>overlay_addr_mask</i>	(Optional) Overlay address mask
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_encap_str</i>	(Optional) Encap type
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address
<i>overlay_last_link_flap</i>	(Optional) Last link flap
<i>overlay_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes

<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes
<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted bcast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pkrate</i>	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface

```
show interface <ifloop> [ __readonly__ TABLE_interface <interface> [ <state> ] [ <admin_state> ] [
<share_state> ] [ <state_rsn> ] [ <state_rsn_desc> ] [ <desc> ] [ <eth_bundle> ] [ <mgmt_sfp> ] [ <mgmt_type>
] [ <eth_eee_state> ] [ <eth_dce_mode> ] [ <vpc_status> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [
<eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix>
] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_encap_vlan> ] [ <eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [
<eth_rxload> ] [ <eth_loopback> ] [ <eth_keepalive> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_mode> ] [
<eth_ratemode> ] [ <eth_autoneg> ] [ <eth_beacon> ] [ <eth_media> ] [ <eth_in_flowctrl> ] [
<eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_sw_t_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [
<eth_clk_mode> ] [ <eth_arp_type> ] [ <eth_arp_timeout> ] [ <eth_last_in> ] [ <eth_last_out> ] [
<eth_out_hang> ] [ <eth_clear_counters> ] [ <eth_link_flapped> ] [ <eth_inq_size> ] [ <eth_inq_max> ] [
<eth_inq_drops> ] [ <eth_inq_flush> ] [ <eth_out_drop> ] [ <eth_q_strategy> ] [ <eth_outq_size> ] [
<eth_outq_max> ] [ <eth_reset_cntr> ] [ <loop_in_pkts> ] [ <loop_in_bytes> ] [ <loop_in_mcast> ] [
<loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame> ] [ <loop_in_overrun> ] [ <loop_in_fifo>
] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns> ] [ <loop_out_errors> ] [
<loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop</i>	Enter interface type and number in module/slot format
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>admin_state</i>	(Optional) Interface admin state
<i>share_state</i>	(Optional) Interface ownership
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>mgmt_sfp</i>	(Optional) mgmt sfp
<i>mgmt_type</i>	(Optional) mgmt type
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_dce_mode</i>	(Optional) DCE mode description

<i>vpc_status</i>	(Optional) VPC status
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP Prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_loopback</i>	(Optional) Loopback
<i>eth_keepalive</i>	(Optional) Keepalive
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_mode</i>	(Optional) Port mode
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_media</i>	(Optional) Media type
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_sw_t_monitor</i>	(Optional) Switchport Monitor

<i>eth_etherType</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_clk_mode</i>	(Optional) Clock mode
<i>eth_arp_type</i>	(Optional) ARP type
<i>eth_arp_timeout</i>	(Optional) ARP timeout
<i>eth_last_in</i>	(Optional) Last input
<i>eth_last_out</i>	(Optional) Last output
<i>eth_out_hang</i>	(Optional) Last output hang
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_inq_size</i>	(Optional) Input queue size
<i>eth_inq_max</i>	(Optional) Input queue max
<i>eth_inq_drops</i>	(Optional) Input queue drops
<i>eth_inq_flush</i>	(Optional) Input queue flushes
<i>eth_out_drop</i>	(Optional) Output drops
<i>eth_q_strategy</i>	(Optional) Queueing strategy
<i>eth_outq_size</i>	(Optional) Output queue size
<i>eth_outq_max</i>	(Optional) Output queue max
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes

<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors

Command Mode

- /exec

show interface

```
show interface <iftun_desc> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<desc> ] <admin-state> { <tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type>
<keepalive-period> <keepalive-retries> { <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> }
<dest-hostname> <vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu>
<tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate>
<tunnel_tx_pkt_count> <tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_desc</i>	Enter tunnel interface number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv3 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>wccp_header</i>	(Optional) wccp header

<i>ttn_val</i>	(Optional) tunnel time to live value
<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time
<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received
<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received
<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters

Command Mode

- /exec

show interface

```
show interface <ifeth> [ quick ] [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ]
[ <state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <admin_state> ] [ <share_state> ] [ <parent_interface>
] [ <vpc_status> ] [ <eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [
<eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_dly> ] [
<eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [ <eth_encap_vlan> ] [ <medium> ] [ <eth_mode> ] [
<eth_duplex> ] [ <eth_speed> ] [ <eth_media> ] [ <eth_beacon> ] [ <eth_autoneg> ] [ <eth_in_flowctrl> ] [
<eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_ratemode> ] [ <eth_swt_monitor> ] [ <eth_ethertype> ] [
<eth_eee_state> ] [ <eth_members> ] [ <eth_link_flapped> ] [ <eth_clear_counters> ] [ <eth_reset_cntr> ] [
<eth_load_interval1> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_load_interval3> ] [ <eth_inrate3_bits> ] [
<eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [ <eth_outrate3_pkts> ] [ <eth_l2_ucastpkts> ] [
<eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [
<eth_l2_bcastbytes> ] [ <eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ]
[ <eth_l3out_routed_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [
<eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [
<eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [
<eth_l3out_bcastbytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [
<eth_l3avg1_outpkts> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_inpkts> ] [ <eth_inbytes>
] [ <eth_jumbo_inpkts> ] [ <eth_storm_supp> ] [ <eth_runts> ] [ <eth_giants> ] [ <eth_crc> ] [ <eth_nobuf>
] [ <eth_inerr> ] [ <eth_frame> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [ <eth_watchdog>
] [ <eth_bad_eth> ] [ <eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_dribble> ] [ <eth_indiscard> ] [
<eth_inpause> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outpkts> ] [ <eth_outbytes>
] [ <eth_jumbo_outpkts> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_deferred> ] [ <eth_latecoll> ] [
<eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_babbles> ] [ <eth_outdiscard> ] [ <eth_outpause> ] <switchport>
]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth</i>	Enter interface type and number in module/slot format
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason

<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>admin_state</i>	(Optional) admin state
<i>share_state</i>	(Optional) Interface ownership
<i>parent_interface</i>	(Optional) parent interface
<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>medium</i>	(Optional) medium type
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol

<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_swt_monitor</i>	(Optional) Switchport Monitor
<i>eth_etherType</i>	(Optional) EtherType
<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>eth_load_interval1</i>	(Optional) interval 1 timer value in sec
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec

<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts

<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_jumbo_inpkts</i>	(Optional) Incoming jumbo pkts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_runts</i>	(Optional) runts
<i>eth_giants</i>	(Optional) giants
<i>eth_crc</i>	(Optional) CRC
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inerr</i>	(Optional) input errors
<i>eth_frame</i>	(Optional) frame
<i>eth_overnrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_indiscard</i>	(Optional) discards
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_jumbo_outpkts</i>	(Optional) Outgoing jumbo pkts
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_deferred</i>	(Optional) deferred

<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_outdiscard</i>	(Optional) output discard
<i>eth_outpause</i>	(Optional) PAUSE output
<i>switchport</i>	(Optional) Switchport enabled

Command Mode

- /exec

show interface

```
show interface <ifrange> [ __readonly__ TABLE_interface <interface> <state> <state_rsn> <state_rsn_desc>
<desc> [ <overlay_addr> ] [ <overlay_addr_mask> ] [ <overlay_mtu> ] [ <overlay_bandwidth> ] [
<overlay_encap_str> ] [ <overlay_vrf> ] [ <overlay_src_addr> ] [ <overlay_dst_addr> ] [
<overlay_last_link_flap> ] [ <overlay_clear_counters> ] [ <overlay_load_interval> ] [ <overlay_rx_ucastpkts>
] [ <overlay_rx_ucastbytes> ] [ <overlay_rx_mcastpkts> ] [ <overlay_rx_mcastbytes> ] [ <overlay_rx_pkts>
] [ <overlay_rx_bytes> ] [ <overlay_rx_bcastpkts> ] [ <overlay_rx_bcastbytes> ] [ <overlay_rx_bitrate> ] [
<overlay_rx_pktrate> ] [ <overlay_tx_ucastpkts> ] [ <overlay_tx_ucastbytes> ] [ <overlay_tx_mcastpkts> ]
[ <overlay_tx_mcastbytes> ] [ <overlay_tx_bcastpkts> ] [ <overlay_tx_bcastbytes> ] [ <overlay_tx_pkts> ]
[ <overlay_tx_bytes> ] [ <overlay_tx_bitrate> ] [ <overlay_tx_pktrate> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>overlay_addr</i>	(Optional) Overlay address
<i>overlay_addr_mask</i>	(Optional) Overlay address mask
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_encap_str</i>	(Optional) Encap type
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address
<i>overlay_last_link_flap</i>	(Optional) Last link flap
<i>overlay_clear_counters</i>	(Optional) Last clearing of show interface counters

<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes
<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted bcast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pktrate</i>	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface

```
show interface <ifrange> [ __readonly__ TABLE interface <interface> <state> [ <state_rsn_desc> ] [
<state_rsn> ] [ <admin_state> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <share_state> ] [ <vpc_status> ] [
<eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [ <eth_ip_addr> ] [
<eth_ip_mask> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [ <eth_rxload>
] [ <eth_encap_vlan> ] [ <eth_mode> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_media> ] [ <eth_beacon> ]
[ <eth_autoneg> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_ratemode> ] [
<eth_sw_t_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [ <eth_link_flapped> ] [ <eth_clear_counters>
] [ <eth_reset_cntr> ] [ <nve_addr> ] [ <nve_addr_mask> ] [ <nve_vcid> ] [ <nve_mtu> ] [ <nve_bandwidth>
] [ <nve_encap_str> ] [ <nve_vrf> ] [ <nve_src_addr> ] [ <nve_dst_addr> ] [ <nve_last_link_flap> ] [
<nve_clear_counters> ] [ <nve_load_interval> ] [ <nve_rx_ucastpkts> ] [ <nve_rx_ucastbytes> ] [
<nve_rx_mcastpkts> ] [ <nve_rx_mcastbytes> ] [ <nve_rx_pkts> ] [ <nve_rx_bytes> ] [ <nve_rx_bcastpkts>
] [ <nve_rx_bcastbytes> ] [ <nve_rx_bitrate> ] [ <nve_rx_pktrate> ] [ <nve_tx_ucastpkts> ] [
<nve_tx_ucastbytes> ] [ <nve_tx_mcastpkts> ] [ <nve_tx_mcastbytes> ] [ <nve_tx_bcastpkts> ] [
<nve_tx_bcastbytes> ] [ <nve_tx_pkts> ] [ <nve_tx_bytes> ] [ <nve_tx_bitrate> ] [ <nve_tx_pktrate> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>admin_state</i>	(Optional) admin state
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>share_state</i>	(Optional) Interface ownership
<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address

<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_swt_monitor</i>	(Optional) Switchport Monitor
<i>eth_etherstype</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>nve_addr</i>	(Optional) Peer address
<i>nve_addr_mask</i>	(Optional) Peer address mask
<i>nve_vcid</i>	(Optional) VCID

<i>nve_mtu</i>	(Optional) MTU
<i>nve_bandwidth</i>	(Optional) Bandwidth
<i>nve_encap_str</i>	(Optional) Encap type
<i>nve_vrf</i>	(Optional) VRF
<i>nve_src_addr</i>	(Optional) Source address
<i>nve_dst_addr</i>	(Optional) Destination address
<i>nve_last_link_flap</i>	(Optional) Last link flap
<i>nve_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>nve_load_interval</i>	(Optional) Load interval
<i>nve_rx_ucastpkts</i>	(Optional) Received unicast pkts
<i>nve_rx_ucastbytes</i>	(Optional) Received unicast bytes
<i>nve_rx_mcastpkts</i>	(Optional) Received multicast pkts
<i>nve_rx_mcastbytes</i>	(Optional) Received multicast bytes
<i>nve_rx_bcastpkts</i>	(Optional) Received broadcast pkts
<i>nve_rx_bcastbytes</i>	(Optional) Received broadcast bytes
<i>nve_rx_pkts</i>	(Optional) Total received pkts
<i>nve_rx_bytes</i>	(Optional) Total received bytes
<i>nve_rx_bitrate</i>	(Optional) Receive bit rate
<i>nve_rx_pktrate</i>	(Optional) Receive pkt rate
<i>nve_tx_ucastpkts</i>	(Optional) Transmitted unicast pkts
<i>nve_tx_ucastbytes</i>	(Optional) Transmitted unicast bytes
<i>nve_tx_mcastpkts</i>	(Optional) Transmitted multicast pkts
<i>nve_tx_mcastbytes</i>	(Optional) Transmitted multicast bytes
<i>nve_tx_bcastpkts</i>	(Optional) Transmitted broadcast pkts
<i>nve_tx_bcastbytes</i>	(Optional) Transmitted broadcast bytes
<i>nve_tx_pkts</i>	(Optional) Total transmitted pkts
<i>nve_tx_bytes</i>	(Optional) Total transmitted bytes
<i>nve_tx_bitrate</i>	(Optional) Transmit bit rate
<i>nve_tx_pktrate</i>	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface brief

```
show interface <ifpch_brf> brief [ __readonly__ TABLE_interface <interface> [ <vlan> ] <type> <portmode>
<state> <state_rsn_desc> <speed> <ratemode> [ <proto> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifpch_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vlan</i>	(Optional) Vlan
<i>type</i>	(Optional) Type
<i>portmode</i>	(Optional) Port mode
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>speed</i>	(Optional) Speed
<i>ratemode</i>	(Optional) Interface port speed
<i>proto</i>	(Optional) Port Channel Protocol

Command Mode

- /exec

show interface brief

```
show interface brief [ controller | cli ] [ __readonly__ TABLE_interface [ <interface> ] [ <vlan> ] [ <type> ]
[ <portmode> ] [ <state> ] [ <state_rsn> ] [ <state_rsn_desc> ] [ <desc> ] [ <vrf> ] [ <ipv6_addr> ] [ <ip_addr>
] [ <speed> ] [ <mtu> ] [ <ratemode> ] [ <portchan> ] [ <proto> ] [ <interface_vfc> ] [ <vsan_brief> ] [
<admin_mode> ] [ <admin_trunk_mode> ] [ <status> ] [ <fcot_info> ] [ <bind_info> ] [ <bind_type> ] [
<port_rate_mode> ] [ <oper_speed> ] [ <port_channel> ] [ <ip_addr1> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
brief	Show brief info of interface
controller	(Optional) Show controller configured interfaces
cli	(Optional) Show CLI configured interfaces
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>vrf</i>	(Optional) Vrf membership
<i>ip_addr</i>	(Optional) IP address
<i>mtu</i>	(Optional) MTU
<i>speed</i>	(Optional) Speed
<i>vlan</i>	(Optional) Vlan
<i>type</i>	(Optional) Type
<i>portmode</i>	(Optional) Port mode
<i>ratemode</i>	(Optional) Interface port speed
<i>portchan</i>	(Optional) Port Channel Membership
<i>proto</i>	(Optional) Port Channel Protocol
<i>interface_vfc</i>	(Optional) Interface index

<i>vsan_brief</i>	(Optional) vsan brief
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>status</i>	(Optional) status
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_type</i>	(Optional) bind type
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>port_channel</i>	(Optional) port channel number
<i>ip_addr1</i>	(Optional) IP address

Command Mode

- /exec

show interface brief

```
show interface <ifloop_brf> brief [ __readonly__ TABLE_interface <interface> <state> [ <desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>desc</i>	(Optional) Interface description

Command Mode

- /exec

show interface brief

```
show interface <iftunnel_brf> brief [ __readonly__ TABLE_interface <interface> <state> <admin-state> {
<tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type> <keepalive-period> <keepalive-retries>
{ <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> } <dest-hostname> <vrf_name>
<wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu> <tunnel_pmtud>
<tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate> <tunnel_tx_pkt_count>
<tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftunnel_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>wccp_header</i>	(Optional) wccp header
<i>ttl_val</i>	(Optional) tunnel time to live value

<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time
<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received
<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received
<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters

Command Mode

- /exec

show interface brief

```
show interface <ifmgmt_brf> brief [ __readonly__ TABLE_interface <interface> [ <vrf> ] <state> [
<ipv6_addr> ] [ <ip_addr> ] <mtu> <speed> [ <duplex> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vrf</i>	(Optional) Vrf membership
<i>state</i>	(Optional) Interface state
<i>ip_addr</i>	(Optional) IP address
<i>mtu</i>	(Optional) MTU
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex

Command Mode

- /exec

show interface brief

```
show interface <ifeth_brf> brief [ __readonly__ TABLE_interface <interface> [ <vlan> ] <type> <portmode>
<state> <state_rsn_desc> <speed> <ratemode> [ <portchan> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vlan</i>	(Optional) Vlan
<i>type</i>	(Optional) Type
<i>portmode</i>	(Optional) Port mode
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>speed</i>	(Optional) Speed
<i>ratemode</i>	(Optional) Interface port speed
<i>portchan</i>	(Optional) Port Channel Membership

Command Mode

- /exec

show interface brief

```
show interface <ifrange> brief [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] [
<state_rsn_desc> ] [ <overlay_mtu> ] [ <overlay_bandwidth> ] [ <overlay_vrf> ] [ <overlay_src_addr> ] [
<overlay_dst_addr> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address

Command Mode

- /exec

show interface brief

```
show interface <ifrange> brief [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] [
<state_rsn_desc> ] [ <admin_state> ] [ <nve_addr> ] [ <nve_vcid> ] [ <nve_mtu> ] [ <nve_bandwidth> ] [
<nve_vrf> ] [ <nve_src_addr> ] [ <nve_dst_addr> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>admin_state</i>	(Optional) admin state
<i>nve_addr</i>	(Optional) Peer address
<i>nve_vcid</i>	(Optional) VCID
<i>nve_mtu</i>	(Optional) MTU
<i>nve_bandwidth</i>	(Optional) Bandwidth
<i>nve_vrf</i>	(Optional) VRF
<i>nve_src_addr</i>	(Optional) Source address
<i>nve_dst_addr</i>	(Optional) Destination address

Command Mode

- /exec

show interface cable-diagnostics-tdr

```
show interface <ifid_tdr> cable-diagnostics-tdr [ __readonly__ TABLE_interface <interface> <speed>
<distance1> <pair1_status> <distance2> <pair2_status> <distance3> <pair3_status> <distance4> <pair4_status>
]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_tdr</i>	Enter interface type and number in module/slot format
cable-diagnostics-tdr	Show interface tdr test information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>speed</i>	(Optional) Speed
<i>distance1</i>	(Optional) Distance to fault for pair 1
<i>distance2</i>	(Optional) Distance to fault for pair 2
<i>distance3</i>	(Optional) Distance to fault for pair 3
<i>distance4</i>	(Optional) Distance to fault for pair 4
<i>pair1_status</i>	(Optional) Pair1 status
<i>pair2_status</i>	(Optional) Pair2 status
<i>pair3_status</i>	(Optional) Pair3 status
<i>pair4_status</i>	(Optional) Pair4 status

Command Mode

- /exec

show interface capabilities

```
show interface <ifid_eth_cap> capabilities [ __readonly__ TABLE_interface <interface> <model> <type>
<speed> <duplex> <trunk_encap> <dce_capable> <channel> <bcast_supp> <flo_ctrl> <rate_mode>
<port_mode> [ <fast_start> ] <qos_scheduling> <cos_rewrite> <tos_rewrite> [ <inline_power> ] <span>
<udld> [ <mdix> ] [ <tdr> ] <lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [
<pvlan_trunk_mode> ] [ <port_group> ] [ <port_group_members> ] <eee_capable> <pfc_capable>
<speed_group_capable> <buffer_boost_capable> [ <bkout_capable> ] [ <macsec_capable> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_eth_cap</i>	Enter interface type and number in module/slot format
capabilities	Show interface capabilities information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>model</i>	(Optional) Model
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex
<i>trunk_encap</i>	(Optional) Trunk encap. type
<i>dce_capable</i>	(Optional) DCE mode capable
<i>channel</i>	(Optional) Channel
<i>bcast_supp</i>	(Optional) Broadcast suppression
<i>flo_ctrl</i>	(Optional) Flowcontrol
<i>rate_mode</i>	(Optional) Rate mode
<i>port_mode</i>	(Optional) Port mode
<i>fast_start</i>	(Optional) Fast start
<i>qos_scheduling</i>	(Optional) QOS scheduling
<i>cos_rewrite</i>	(Optional) CoS rewrite
<i>tos_rewrite</i>	(Optional) ToS rewrite

<i>inline_power</i>	(Optional) Inline power
<i>span</i>	(Optional) SPAN
<i>udld</i>	(Optional) UDLD
<i>mdix</i>	(Optional) MDIX
<i>tdr</i>	(Optional) TDR
<i>lnk_debounce</i>	(Optional) Link debounce
<i>lnk_debounce_time</i>	(Optional) Link debounce time
<i>fex_fabric</i>	(Optional) FEX Fabric
<i>dot1q_tunnel</i>	(Optional) dot1q-tunnel
<i>pvlan_trunk_mode</i>	(Optional) Private-vlan trunk mode
<i>port_group</i>	(Optional) Port Group
<i>port_group_members</i>	(Optional) Port Group Members
<i>eee_capable</i>	(Optional) EEE (efficient-eth)
<i>pfc_capable</i>	(Optional) PFC Capable:
<i>bkout_capable</i>	(Optional) Breakout Capable:
<i>buffer_boost_capable</i>	(Optional) Buffer Boost Capable:
<i>speed_group_capable</i>	(Optional) Speed group capable
<i>macsec_capable</i>	(Optional) MACSEC capable

Command Mode

- /exec

show interface capabilities

```
show interface capabilities [ __readonly__ TABLE_interface <interface> <model> <type> <speed> <duplex>
<trunk_encap> <dce_capable> <channel> <bcast_supp> <flo_ctrl> <rate_mode> <port_mode> [ <fast_start>
] <qos_scheduling> <cos_rewrite> <tos_rewrite> [ <inline_power> ] <span> <udld> [ <mdix> ] [ <tdr> ]
<lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [ <pvlan_trunk_mode> ] [ <port_group>
] [ <port_group_members> ] <eee_capable> <pfc_capable> <speed_group_capable> <buffer_boost_capable>
[ <bkout_capable> ] [ <macsec_capable> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
capabilities	Show interface capabilities information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>model</i>	(Optional) Model
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex
<i>trunk_encap</i>	(Optional) Trunk encap. type
<i>dce_capable</i>	(Optional) DCE mode capable
<i>channel</i>	(Optional) Channel
<i>bcast_supp</i>	(Optional) Broadcast suppression
<i>flo_ctrl</i>	(Optional) Flowcontrol
<i>rate_mode</i>	(Optional) Rate mode
<i>port_mode</i>	(Optional) Port mode
<i>fast_start</i>	(Optional) Fast start
<i>qos_scheduling</i>	(Optional) QOS scheduling
<i>cos_rewrite</i>	(Optional) CoS rewrite
<i>tos_rewrite</i>	(Optional) ToS rewrite
<i>inline_power</i>	(Optional) Inline power

<i>span</i>	(Optional) SPAN
<i>udld</i>	(Optional) UDLD
<i>mdix</i>	(Optional) MDIX
<i>tdr</i>	(Optional) TDR
<i>lnk_debounce</i>	(Optional) Link debounce
<i>lnk_debounce_time</i>	(Optional) Link debounce time
<i>fex_fabric</i>	(Optional) FEX Fabric
<i>dot1q_tunnel</i>	(Optional) dot1q-tunnel
<i>pvlan_trunk_mode</i>	(Optional) Private-vlan trunk mode
<i>port_group</i>	(Optional) Port Group
<i>port_group_members</i>	(Optional) Port Group Members
<i>eee_capable</i>	(Optional) EEE (efficient-eth)
<i>pfc_capable</i>	(Optional) PFC Capable:
<i>bkout_capable</i>	(Optional) Breakout Capable:
<i>buffer_boost_capable</i>	(Optional) Buffer Boost Capable:
<i>speed_group_capable</i>	(Optional) Speed group capable
<i>macsec_capable</i>	(Optional) MACSEC capable

Command Mode

- /exec

show interface counters

```
show interface <ifid_ctr> counters [ snmp ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] } { TABLE_tx_counters
<interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast>
] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	(Optional) Show SNMP MIB values
<u>__readonly__</u>	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts

Command Mode

- /exec

show interface counters

```
show interface counters [ module <module> ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ]
[ <eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } } { TABLE_tx_counters
<interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast>
] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } }
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts

<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters

```
show interface counters [ non-zero ] [ __readonly__ { TABLE_rx_counters <interface_rx> [ <eth_inpkts> ]
[ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } } { TABLE_tx_counters
<interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast>
] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } }
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
non-zero	(Optional) To display only the non-zero counter values
__readonly__	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts

<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters

```
show interface <ifeth_ctr> counters [ snmp ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } } { TABLE_tx_counters
<interface_tx> [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes>
] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } }
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	(Optional) Show SNMP MIB values
<u>__readonly__</u>	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts input
<i>eth_inmcast</i>	(Optional) Multicasts input
<i>eth_inbcast</i>	(Optional) Broadcasts input
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts output
<i>eth_outmcast</i>	(Optional) Multicasts output
<i>eth_outbcast</i>	(Optional) Broadcasts output
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes

<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters

```
show interface <ifrange> counters [ __readonly__ TABLE_interface <interface> [ <overlay_load_interval>
] [ <overlay_rx_ucastpkts> ] [ <overlay_rx_ucastbytes> ] [ <overlay_rx_mcastpkts> ] [
<overlay_rx_mcastbytes> ] [ <overlay_rx_pkts> ] [ <overlay_rx_bytes> ] [ <overlay_rx_bcastpkts> ] [
<overlay_rx_bcastbytes> ] [ <overlay_rx_bitrate> ] [ <overlay_rx_pktrate> ] [ <overlay_tx_ucastpkts> ] [
<overlay_tx_ucastbytes> ] [ <overlay_tx_mcastpkts> ] [ <overlay_tx_mcastbytes> ] [ <overlay_tx_bcastpkts>
] [ <overlay_tx_bcastbytes> ] [ <overlay_tx_pkts> ] [ <overlay_tx_bytes> ] [ <overlay_tx_bitrate> ] [
<overlay_tx_pktrate> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
counters	Show interface counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes

<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted bcast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pktrate</i>	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface counters

```
show interface <ifrange> counters [ __readonly__ { TABLE_nve_counters <interface> [ <ucast_inbytes> ]
[ <ucast_inpkts> ] [ <ucast_outbytes> ] [ <ucast_outpkts> ] [ <mcast_inbytes> ] [ <mcast_inpkts> ] [
<mcast_outbytes> ] [ <mcast_outpkts> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
counters	Show interface counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_nve_counters	(Optional) show interface
<i>ucast_inbytes</i>	(Optional) ucast bytes input
<i>ucast_inpkts</i>	(Optional) ucast packets input
<i>ucast_outbytes</i>	(Optional) ucast bytes output
<i>ucast_outpkts</i>	(Optional) ucast packets output
<i>mcast_inbytes</i>	(Optional) mcast bytes input
<i>mcast_inpkts</i>	(Optional) mcast packets input
<i>mcast_outbytes</i>	(Optional) mcast bytes output
<i>mcast_outpkts</i>	(Optional) mcast packets output

Command Mode

- /exec

show interface counters brief

```
show interface <ifeth_ctr_brf> counters brief [ <counter_val> ] [ __readonly__ TABLE_interface <interface>
<eth_load_intv1> <eth_inrate1> <eth_inframes1> <eth_outrate1> <eth_outframes1> <eth_load_intv2>
<eth_inrate2> <eth_inframes2> <eth_outrate2> <eth_outframes2> <eth_load_intv3> <eth_inrate3>
<eth_inframes3> <eth_outrate3> <eth_outframes3> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_brf</i>	Enter interface type and number in module/slot format
counters	Show interface counters
brief	Show interface counters in brief
<i>counter_val</i>	(Optional) Specify a single load interval id to show the rates
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_load_intv1</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1</i>	(Optional) interval 1 input rate in mbps
<i>eth_inframes1</i>	(Optional) interval 1 input rate in frames (pkts)
<i>eth_outrate1</i>	(Optional) interval 1 output rate in mbps
<i>eth_outframes1</i>	(Optional) interval 1 output rate in output frames (pkts)
<i>eth_load_intv2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2</i>	(Optional) interval 2 input rate in mbps
<i>eth_inframes2</i>	(Optional) interval 2 input rate in frames (pkts)
<i>eth_outrate2</i>	(Optional) interval 2 output rate in mbps
<i>eth_outframes2</i>	(Optional) interval 2 output rate in output frames (pkts)
<i>eth_load_intv3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3</i>	(Optional) interval 3 input rate in mbps
<i>eth_inframes3</i>	(Optional) interval 3 input rate in frames (pkts)
<i>eth_outrate3</i>	(Optional) interval 3 output rate in mbps

<i>eth_outframes3</i>	(Optional) interval 3 output rate in output frames (pkts)
-----------------------	---

Command Mode

- /exec

show interface counters brief

```
show interface counters brief [ <counter_val> ] [ __readonly__ TABLE_interface <interface> <eth_inrate1>
<eth_inframes1> <eth_outrate1> <eth_outframes1> <eth_load_intv1> <eth_inrate2> <eth_inframes2>
<eth_outrate2> <eth_outframes2> <eth_load_intv2> <eth_inrate3> <eth_inframes3> <eth_outrate3>
<eth_outframes3> <eth_load_intv3> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
brief	Show interface counters in brief
<i>counter_val</i>	(Optional) Specify a single load interval id to show the rates
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_load_intv1</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1</i>	(Optional) interval 1 input rate in mbps
<i>eth_inframes1</i>	(Optional) interval 1 input rate in frames (pkts)
<i>eth_outrate1</i>	(Optional) interval 1 output rate in mbps
<i>eth_outframes1</i>	(Optional) interval 1 output rate in output frames (pkts)
<i>eth_load_intv2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2</i>	(Optional) interval 2 input rate in mbps
<i>eth_inframes2</i>	(Optional) interval 2 input rate in frames (pkts)
<i>eth_outrate2</i>	(Optional) interval 2 output rate in mbps
<i>eth_outframes2</i>	(Optional) interval 2 output rate in output frames (pkts)
<i>eth_load_intv3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3</i>	(Optional) interval 3 input rate in mbps
<i>eth_inframes3</i>	(Optional) interval 3 input rate in frames (pkts)
<i>eth_outrate3</i>	(Optional) interval 3 output rate in mbps
<i>eth_outframes3</i>	(Optional) interval 3 output rate in output frames (pkts)

Command Mode

- /exec

show interface counters detailed

```

show interface counters detailed [ snmp ] [ __readonly__ TABLE interface <interface> [ <vdc_lvl_in_pkts>
] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [ <vdc_lvl_in_bcast> ] [
<vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_in_avg_pkts> ] [ <vdc_lvl_in_avg_bytes> ] [
<vdc_lvl_out_pkts> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_ucast> ] [ <vdc_lvl_out_mcast> ] [
<vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] [ <vdc_lvl_out_avg_pkts> ] [
<vdc_lvl_out_avg_bytes> ] [ <mgmt_in_pkts> ] [ <mgmt_in_bytes> ] [ <mgmt_in_mcast> ] [
<mgmt_in_compressed> ] [ <mgmt_in_errors> ] [ <mgmt_in_frame> ] [ <mgmt_in_overrun> ] [
<mgmt_in_fifo> ] [ <mgmt_out_pkts> ] [ <mgmt_out_bytes> ] [ <mgmt_out_underruns> ] [
<mgmt_out_errors> ] [ <mgmt_out_collisions> ] [ <mgmt_out_fifo> ] [ <mgmt_out_carrier> ] [
<mgmt_align_err> ] [ <mgmt_fcs_err> ] [ <mgmt_xmit_err> ] [ <mgmt_rcv_err> ] [ <mgmt_undersize> ] [
<mgmt_outdisc> ] [ <mgmt_single_col> ] [ <mgmt_multi_col> ] [ <mgmt_late_col> ] [ <mgmt_excess_col>
] [ <mgmt_carri_sen> ] [ <mgmt_runs> ] [ <mgmt_giants> ] [ <mgmt_sqetest_err> ] [ <mgmt_deferred_tx>
] [ <mgmt_inmactx_err> ] [ <mgmt_inmacrx_err> ] [ <mgmt_symbol_err> ] [ <loop_in_pkts> ] [
<loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame>
] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns>
] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] [
<eth_load_interval1> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_load_interval3> ] [ <eth_inrate3_bits> ] [
<eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [ <eth_outrate3_pkts> ] [ <eth_inpkts> ] [ <eth_inucast> ] [
<eth_inmcast> ] [ <eth_inbcast> ] [ <eth_ingiants> ] [ <eth_inbytes> ] [ <eth_storm_supp> ] [ <eth_inb64>
] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [
<eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outpkts> ] [ <eth_outucast> ] [
<eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outgiants> ] [ <eth_outbytes> ] [ <eth_outb64> ] [
<eth_outb65_127> ] [ <eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [
<eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_nobuf> ] [ <eth_runs> ] [
<eth_crc> ] [ <eth_ecc> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_coll> ] [ <eth_latecoll> ] [ <eth_lostcarrier> ] [
<eth_nocarrier> ] [ <eth_babbles> ] [ <eth_watchdog> ] [ <eth_dribble> ] [ <eth_inerr> ] [ <eth_outerr> ] [
<eth_deferred> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_single_coll> ] [ <eth_multi_coll> ] [
<eth_excess_coll> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [ <eth_symbol> ] [
<eth_out_drops> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost>
] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [
<eth_cos7_outlost> ] [ <eth_inpause> ] [ <eth_outpause> ] [ <eth_resets> ] [ <eth_sqetest> ] [
<eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [
<eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [
<eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [
<eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [
<eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [
<eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [
<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [
<eth_insw_switched> ] [ <eth_throtles> ] [ <eth_frame> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched>
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_fcoe_in_pkts>
] [ <eth_fcoe_in_octets> ] [ <eth_fcoe_out_pkts> ] [ <eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [
<eth_nfcoe_in_octets> ] [ <eth_nfcoe_out_pkts> ] [ <eth_nfcoe_out_octets> ] [ <svi_routed_pkts_in> ] [
<svi_routed_bytes_in> ] [ <svi_routed_pkts_out> ] [ <svi_routed_bytes_out> ] [ <svi_ucast_pkts_in> ] [
<svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [ <svi_mcast_bytes_in> ] [ <svi_ucast_pkts_out> ] [

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<svi_ucast_bytes_out> ][ <svi_mcast_pkts_out> ][ <svi_mcast_bytes_out> ][ <svi_ipv4_ucast_pkts_in> ]
[ <svi_ipv4_ucast_bytes_in> ][ <svi_ipv4_ucast_pkts_out> ][ <svi_ipv4_ucast_bytes_out> ][
<svi_ipv4_mcast_pkts_in> ][ <svi_ipv4_mcast_bytes_in> ][ <svi_ipv4_mcast_pkts_out> ][
<svi_ipv4_mcast_bytes_out> ][ <svi_ipv6_ucast_pkts_in> ][ <svi_ipv6_ucast_bytes_in> ][
<svi_ipv6_ucast_pkts_out> ][ <svi_ipv6_ucast_bytes_out> ][ <svi_ipv6_mcast_pkts_in> ][
<svi_ipv6_mcast_bytes_in> ][ <svi_ipv6_mcast_pkts_out> ][ <svi_ipv6_mcast_bytes_out> ][
<svi_average_input_bits> ][ <svi_average_input_packets> ][ <svi_average_output_bits> ][
<svi_average_output_packets> ][ <svi_rate_in_mins> ][ <svi_time_last_cleared> ][ <svi_tx_load> ][
<svi_rx_load> ][ <svi_reliability> ][

```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
detailed	Show only non-zero counters
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second

<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense

<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors
<i>eth_load_intervall</i>	(Optional) interval 1 timer value in sec
<i>eth_load_intervall_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_intervall_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec

<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outucast</i>	(Optional) Unicasts

<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_runts</i>	(Optional) runts
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_coll</i>	(Optional) collisions
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_dribble</i>	(Optional) input packets with dribble condition

<i>eth_inerr</i>	(Optional) input errors
<i>eth_outerr</i>	(Optional) output errors
<i>eth_deferred</i>	(Optional) deferred
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_resets</i>	(Optional) interface resets
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts

<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avgl_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avgl_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avgl_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avgl_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_throtles</i>	(Optional) throttles
<i>eth_frame</i>	(Optional) frame
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched

<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_bufffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_reliability</i>	(Optional) Reliability

Command Mode

- /exec

show interface counters detailed

```
show interface <ifmgmt_ctr_dtl> counters detailed [ __readonly__ TABLE interface <interface> [
<vdc_lvl_in_pkts> ][ <vdc_lvl_in_bytes> ][ <vdc_lvl_in_ucast> ][ <vdc_lvl_in_mcast> ][
<vdc_lvl_in_bcast> ][ <vdc_lvl_in_bps> ][ <vdc_lvl_in_pps> ][ <vdc_lvl_in_avg_pkts> ][
<vdc_lvl_in_avg_bytes> ][ <vdc_lvl_out_pkts> ][ <vdc_lvl_out_bytes> ][ <vdc_lvl_out_ucast> ][
<vdc_lvl_out_mcast> ][ <vdc_lvl_out_bcast> ][ <vdc_lvl_out_bps> ][ <vdc_lvl_out_pps> ][
<vdc_lvl_out_avg_pkts> ][ <vdc_lvl_out_avg_bytes> ][ <mgmt_in_pkts> ][ <mgmt_in_bytes> ][
<mgmt_in_mcast> ][ <mgmt_in_compressed> ][ <mgmt_in_errors> ][ <mgmt_in_frame> ][
<mgmt_in_overrun> ][ <mgmt_in_fifo> ][ <mgmt_out_pkts> ][ <mgmt_out_bytes> ][
<mgmt_out_underruns> ][ <mgmt_out_errors> ][ <mgmt_out_collisions> ][ <mgmt_out_fifo> ][
<mgmt_out_carrier> ][ <mgmt_align_err> ][ <mgmt_fcs_err> ][ <mgmt_xmit_err> ][ <mgmt_rcv_err> ][
<mgmt_undersize> ][ <mgmt_outdisc> ][ <mgmt_single_col> ][ <mgmt_multi_col> ][ <mgmt_late_col>
][ <mgmt_excess_col> ][ <mgmt_carri_sen> ][ <mgmt_runs> ][ <mgmt_giants> ][ <mgmt_sqetest_err>
][ <mgmt_deferred_tx> ][ <mgmt_inmactx_err> ][ <mgmt_inmacrx_err> ][ <mgmt_symbol_err> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_ctr_dtl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets

<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard

<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error

Command Mode

- /exec

show interface counters detailed

```
show interface <ifloop_ctr_dtl> counters detailed [ __readonly__ TABLE_interface <interface> [
<loop_in_pkts> ] [ <loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ]
[ <loop_in_frame> ] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [
<loop_out_underruns> ] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [
<loop_out_carriers> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop_ctr_dtl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors

Command Mode

- /exec

show interface counters detailed

```
show interface <ifeth_ctr_dtl> counters detailed [ snmp ] [ __readonly__ TABLE_interface <interface> [
<eth_load_interval1> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_load_interval3> ] [ <eth_inrate3_bits> ] [
<eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [ <eth_outrate3_pkts> ] [ <eth_inpkts> ] [ <eth_inucast> ] [
<eth_inmcast> ] [ <eth_inbcast> ] [ <eth_ingiants> ] [ <eth_inbytes> ] [ <eth_storm_supp> ] [ <eth_inb64>
] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [
<eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outpkts> ] [ <eth_outucast> ] [
<eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outgiants> ] [ <eth_outbytes> ] [ <eth_outb64> ] [
<eth_outb65_127> ] [ <eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [
<eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_nobuf> ] [ <eth_runs> ] [
<eth_crc> ] [ <eth_ecc> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_coll> ] [ <eth_latecoll> ] [ <eth_lostcarrier> ] [
<eth_nocarrier> ] [ <eth_babbles> ] [ <eth_watchdog> ] [ <eth_dribble> ] [ <eth_inerr> ] [ <eth_outerr> ] [
<eth_deferred> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_single_coll> ] [ <eth_multi_coll> ] [
<eth_excess_coll> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [ <eth_symbol> ] [
<eth_out_drops> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost>
] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [
<eth_cos7_outlost> ] [ <eth_inpause> ] [ <eth_outpause> ] [ <eth_resets> ] [ <eth_sqetest> ] [
<eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [
<eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [
<eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ]
] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [
<eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [
<eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [
<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [
<eth_insw_switched> ] [ <eth_throtles> ] [ <eth_frame> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched>
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_dtl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
snmp	(Optional) Show SNMP MIB values
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface

<i>eth_load_interval1</i>	(Optional) interval 1 timer value in sec
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes

<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_runts</i>	(Optional) runts
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops

<i>eth_coll</i>	(Optional) collisions
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_inerr</i>	(Optional) input errors
<i>eth_outerr</i>	(Optional) output errors
<i>eth_deferred</i>	(Optional) deferred
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts

<i>eth_inpause</i>	(Optional) pause input
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_resets</i>	(Optional) interface resets
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes

<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_throtles</i>	(Optional) throttles
<i>eth_frame</i>	(Optional) frame
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifid_ctr_dtl_all> counters detailed all [ snmp ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
snmp	(Optional) Show SNMP MIB values

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifmgmt_ctr_dtl_all> counters detailed all [ __readonly__ TABLE_interface <interface> [
<vdc_lvl_in_pkts> ][ <vdc_lvl_in_bytes> ][ <vdc_lvl_in_ucast> ][ <vdc_lvl_in_mcast> ][
<vdc_lvl_in_bcast> ][ <vdc_lvl_in_bps> ][ <vdc_lvl_in_pps> ][ <vdc_lvl_in_avg_pkts> ][
<vdc_lvl_in_avg_bytes> ][ <vdc_lvl_out_pkts> ][ <vdc_lvl_out_bytes> ][ <vdc_lvl_out_ucast> ][
<vdc_lvl_out_mcast> ][ <vdc_lvl_out_bcast> ][ <vdc_lvl_out_bps> ][ <vdc_lvl_out_pps> ][
<vdc_lvl_out_avg_pkts> ][ <vdc_lvl_out_avg_bytes> ][ <mgmt_in_pkts> ][ <mgmt_in_bytes> ][
<mgmt_in_mcast> ][ <mgmt_out_pkts> ][ <mgmt_out_bytes> ][ <mgmt_in_errors> ][ <mgmt_out_errors> ]
][ <mgmt_in_fifo> ][ <mgmt_out_fifo> ][ <mgmt_in_compressed> ][ <mgmt_in_frame> ][
<mgmt_in_overrun> ][ <mgmt_out_underruns> ][ <mgmt_out_collisions> ][ <mgmt_out_carrier> ][
<mgmt_align_err> ][ <mgmt_fcs_err> ][ <mgmt_xmit_err> ][ <mgmt_rcv_err> ][ <mgmt_undersize> ][
<mgmt_outdisc> ][ <mgmt_single_col> ][ <mgmt_multi_col> ][ <mgmt_late_col> ][ <mgmt_excess_col> ]
][ <mgmt_carri_sen> ][ <mgmt_runts> ][ <mgmt_giants> ][ <mgmt_sqetest_err> ][ <mgmt_deferred_tx> ]
][ <mgmt_inmactx_err> ][ <mgmt_inmacrx_err> ][ <mgmt_symbol_err> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes

<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overnun</i>	(Optional) Input overrun
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize

<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifloop_ctr_dtl_all> counters detailed all [ __readonly__ TABLE_interface <interface> [
<rx_total_pkts> ] [ <tx_total_pkts> ] [ <rx_mcast_pkts> ] [ <rx_octets> ] [ <tx_octets> ] [ <loop_in_pkts> ]
[ <loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame>
] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns>
] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>rx_total_pkts</i>	(Optional) total input packets
<i>tx_total_pkts</i>	(Optional) total output packets
<i>rx_mcast_pkts</i>	(Optional) input multicasts
<i>rx_octets</i>	(Optional) input bytes
<i>tx_octets</i>	(Optional) output bytes
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets

<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifrange> counters detailed all [ snmp ] [ __readonly__ TABLE_interface <interface> [
<svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out> ] [ <svi_routed_bytes_out> ] [
<svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [ <svi_mcast_bytes_in> ] [
<svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [ <svi_mcast_bytes_out> ] [
<svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [ <svi_ipv4_ucast_pkts_out> ] [
<svi_ipv4_ucast_bytes_out> ] [ <svi_ipv4_mcast_pkts_in> ] [ <svi_ipv4_mcast_bytes_in> ] [
<svi_ipv4_mcast_pkts_out> ] [ <svi_ipv4_mcast_bytes_out> ] [ <svi_ipv6_ucast_pkts_in> ] [
<svi_ipv6_ucast_bytes_in> ] [ <svi_ipv6_ucast_pkts_out> ] [ <svi_ipv6_ucast_bytes_out> ] [
<svi_ipv6_mcast_pkts_in> ] [ <svi_ipv6_mcast_bytes_in> ] [ <svi_ipv6_mcast_pkts_out> ] [
<svi_ipv6_mcast_bytes_out> ] [ <svi_average_input_bits> ] [ <svi_average_input_packets> ] [
<svi_average_output_bits> ] [ <svi_average_output_packets> ] [ <svi_rate_in_mins> ] [
<svi_time_last_cleared> ] [ <svi_tx_load> ] [ <svi_rx_load> ] [ <svi_reliability> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	everything
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_reliability</i>	(Optional) Reliability

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifeth_ctr_dtl_all> counters detailed all [ snmp ] [ __readonly__ TABLE interface <interface>
[ <rx_total_pkts> ] [ <tx_total_pkts> ] [ <rx_ucast_pkts> ] [ <rx_mcast_pkts> ] [ <rx_bcast_pkts> ] [
<rx_octets> ] [ <tx_ucast_pkts> ] [ <tx_mcast_pkts> ] [ <tx_bcast_pkts> ] [ <tx_octets> ] [
<rxtx_pkts_64octets> ] [ <rxtx_pkts_65_127octets> ] [ <rxtx_pkts_128_255octets> ] [
<rxtx_pkts_256_511octets> ] [ <rxtx_pkts_512_1023octets> ] [ <rxtx_pkts_1024_1518octets> ] [
<rxtx_pkts_1519_1548octets> ] [ <rx_trunk_frames> ] [ <tx_trunk_frames> ] [ <rx_drop_events> ] [
<rxtx_giants> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [
<eth_load_interval3> ] [ <eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [
<eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_ucastpkts> ] [
<eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [
<eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [
<eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3in_routed_pkts> ]
[ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3avg1_inbytes> ]
[ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_l3avg2_inbytes> ] [
<eth_l3avg2_inpkts> ] [ <eth_l3avg2_outbytes> ] [ <eth_l3avg2_outpkts> ] [ <eth_l3avg3_inbytes> ] [
<eth_l3avg3_inpkts> ] [ <eth_l3avg3_outbytes> ] [ <eth_l3avg3_outpkts> ] [ <eth_inpkts> ] [ <eth_inbytes> ]
[ <eth_nobuf> ] [ <eth_inbcast> ] [ <eth_inmcast> ] [ <eth_inucast> ] [ <eth_ingiants> ] [ <eth_ipmcast> ]
[ <eth_inhw_switched> ] [ <eth_insw_switched> ] [ <eth_runts> ] [ <eth_storm_supp> ] [ <eth_throtles> ] [
<eth_inerr> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_frame> ] [ <eth_outrun> ] [ <eth_ignored> ] [ <eth_watchdog> ]
[ <eth_outbcast> ] [ <eth_outmcast> ] [ <eth_outucast> ] [ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ]
[ <eth_in_ifdown_drops> ] [ <eth_bad_eth> ] [ <eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [
<eth_underrun> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [
<eth_resets> ] [ <eth_babbles> ] [ <eth_latecoll> ] [ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ]
[ <eth_outpause> ] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ]
[ <eth_single_coll> ] [ <eth_multi_coll> ] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [
<eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ]
[ <eth_inb64> ] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ]
[ <eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ]
[ <eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [
<eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ]
[ <eth_cos2_outlost> ] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [
<eth_cos6_outlost> ] [ <eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [ <eth_fcoe_in_octets> ] [
<eth_fcoe_out_pkts> ] [ <eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [ <eth_nfcoe_in_octets> ] [
<eth_nfcoe_out_pkts> ] [ <eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [ <eth_eee_arcv_lpi_msec> ]
[ <eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [ <eth_phy_ber_count> ] [
<eth_phy_errblks_count> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters

detailed	Show only non-zero counters
all	everything
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
rx_total_pkts	(Optional) total input packets
tx_total_pkts	(Optional) total output packets
rx_ucast_pkts	(Optional) input unicasts
rx_mcast_pkts	(Optional) input multicasts
rx_bcast_pkts	(Optional) input broadcasts
rx_octets	(Optional) input bytes
tx_ucast_pkts	(Optional) output unicasts
tx_mcast_pkts	(Optional) output multicasts
tx_bcast_pkts	(Optional) output broadcasts
tx_octets	(Optional) output bytes
rxtx_pkts_64octets	(Optional) all pkts between 0 and 64 bytes
rxtx_pkts_65_127octets	(Optional) all pkts between 65 and 127 bytes
rxtx_pkts_128_255octets	(Optional) all pkts between 128 and 255 bytes
rxtx_pkts_256_511octets	(Optional) all pkts between 256 and 511 bytes
rxtx_pkts_512_1023octets	(Optional) all pkts between 512 and 1023 bytes
rxtx_pkts_1024_1518octets	(Optional) all pkts between 1024 and 1518 bytes
rxtx_pkts_1519_1548octets	(Optional) all pkts between 1519 and 1548 bytes
rx_trunk_frames	(Optional) input trunk pkts
tx_trunk_frames	(Optional) output trunk pkts
rx_drop_events	(Optional) dropped pkts
rxtx_giants	(Optional) giants
eth_load_interval1_rx	(Optional) interval 1 timer value in sec
eth_inrate1_bits	(Optional) interval 1 input rate bits/sec

<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts

<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcstpks</i>	(Optional) L3 out switched bcst pkts
<i>eth_l3out_bcstbytes</i>	(Optional) L3 out switched bcst bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcst</i>	(Optional) Broadcasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched

<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision

<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes

<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter

Command Mode

- /exec

show interface counters detailed cached

```
show interface <ifeth_ctr_dtl_all> counters detailed cached [ __readonly__ TABLE_interface <interface> [
<rx_total_pkts> ][ <tx_total_pkts> ][ <rx_ucast_pkts> ][ <rx_mcast_pkts> ][ <rx_bcast_pkts> ][ <rx_octets> ]
][ <tx_ucast_pkts> ][ <tx_mcast_pkts> ][ <tx_bcast_pkts> ][ <tx_octets> ][ <rxtx_pkts_64octets> ][
<rxtx_pkts_65_127octets> ][ <rxtx_pkts_128_255octets> ][ <rxtx_pkts_256_511octets> ][
<rxtx_pkts_512_1023octets> ][ <rxtx_pkts_1024_1518octets> ][ <rxtx_pkts_1519_1548octets> ][
<rx_trunk_frames> ][ <tx_trunk_frames> ][ <rx_drop_events> ][ <rxtx_giants> ][ <eth_load_interval1_rx>
][ <eth_inrate1_bits> ][ <eth_inrate1_pkts> ][ <eth_load_interval1_tx> ][ <eth_outrate1_bits> ][
<eth_outrate1_pkts> ][ <eth_load_interval2> ][ <eth_inrate2_bits> ][ <eth_inrate2_pkts> ][
<eth_outrate2_bits> ][ <eth_outrate2_pkts> ][ <eth_load_interval3> ][ <eth_inrate3_bits> ][
<eth_inrate3_pkts> ][ <eth_outrate3_bits> ][ <eth_outrate3_pkts> ][ <eth_l2_ucastpkts> ][
<eth_l2_ucastbytes> ][ <eth_l2_mcastpkts> ][ <eth_l2_mcastbytes> ][ <eth_l2_bcastpkts> ][
<eth_l2_bcastbytes> ][ <eth_l3in_ucastpkts> ][ <eth_l3in_ucastbytes> ][ <eth_l3in_mcastpkts> ][
<eth_l3in_mcastbytes> ][ <eth_l3in_bcastpkts> ][ <eth_l3in_bcastbytes> ][ <eth_l3out_ucastpkts> ][
<eth_l3out_ucastbytes> ][ <eth_l3out_mcastpkts> ][ <eth_l3out_mcastbytes> ][ <eth_l3out_bcastpkts> ][
<eth_l3out_bcastbytes> ][ <eth_l3in_routed_pkts> ][ <eth_l3in_routed_bytes> ][ <eth_l3out_routed_pkts>
][ <eth_l3out_routed_bytes> ][ <eth_l3avg1_inbytes> ][ <eth_l3avg1_inpkts> ][ <eth_l3avg1_outbytes>
][ <eth_l3avg1_outpkts> ][ <eth_l3avg2_inbytes> ][ <eth_l3avg2_inpkts> ][ <eth_l3avg2_outbytes> ][
<eth_l3avg2_outpkts> ][ <eth_l3avg3_inbytes> ][ <eth_l3avg3_inpkts> ][ <eth_l3avg3_outbytes> ][
<eth_l3avg3_outpkts> ][ <eth_inpkts> ][ <eth_inbytes> ][ <eth_nobuf> ][ <eth_inbcast> ][ <eth_inmcast>
][ <eth_inucast> ][ <eth_ingiants> ][ <eth_ipmcast> ][ <eth_inhw_switched> ][ <eth_insw_switched> ][
<eth_runs> ][ <eth_storm_supp> ][ <eth_throtles> ][ <eth_inerr> ][ <eth_crc> ][ <eth_ecc> ][ <eth_frame>
][ <eth_overrun> ][ <eth_ignored> ][ <eth_watchdog> ][ <eth_outbcast> ][ <eth_outmcast> ][
<eth_outucast> ][ <eth_outgiants> ][ <eth_inpause> ][ <eth_dribble> ][ <eth_in_ifdown_drops> ][
<eth_bad_eth> ][ <eth_bad_proto> ][ <eth_outpkts> ][ <eth_outbytes> ][ <eth_underrun> ][
<eth_outhw_switched> ][ <eth_outsw_switched> ][ <eth_outerr> ][ <eth_coll> ][ <eth_resets> ][
<eth_babbles> ][ <eth_latecoll> ][ <eth_deferred> ][ <eth_lostcarrier> ][ <eth_nocarrier> ][ <eth_outpause>
][ <eth_buffail> ][ <eth_bufswapped> ][ <eth_arpdrops> ][ <eth_out_ifdown_drops> ][ <eth_single_coll>
][ <eth_multi_coll> ][ <eth_excess_coll> ][ <eth_jabbers> ][ <eth_shortframe> ][ <eth_indiscard> ][
<eth_bad_encap> ][ <eth_outcrc> ][ <eth_symbol> ][ <eth_out_drops> ][ <eth_sqetest> ][ <eth_inb64>
][ <eth_inb65_127> ][ <eth_inb128_255> ][ <eth_inb256_511> ][ <eth_inb512_1023> ][
<eth_inb1024_1518> ][ <eth_inb1519_1548> ][ <eth_intrunk> ][ <eth_outb64> ][ <eth_outb65_127> ][
<eth_outb128_255> ][ <eth_outb256_511> ][ <eth_outb512_1023> ][ <eth_outb1024_1518> ][
<eth_outb1519_1548> ][ <eth_outtrunk> ][ <eth_bpdu_outlost> ][ <eth_cos0_outlost> ][ <eth_cos1_outlost>
][ <eth_cos2_outlost> ][ <eth_cos3_outlost> ][ <eth_cos4_outlost> ][ <eth_cos5_outlost> ][
<eth_cos6_outlost> ][ <eth_cos7_outlost> ][ <eth_fcoe_in_pkts> ][ <eth_fcoe_in_octets> ][
<eth_fcoe_out_pkts> ][ <eth_fcoe_out_octets> ][ <eth_nfcoe_in_pkts> ][ <eth_nfcoe_in_octets> ][
<eth_nfcoe_out_pkts> ][ <eth_nfcoe_out_octets> ][ <eth_eee_atx_lpi_msec> ][ <eth_eee_arcv_lpi_msec>
][ <eth_eee_atx_lpi_transitions> ][ <eth_eee_arcv_lpi_transitions> ][ <eth_phy_ber_count> ][
<eth_phy_errblks_count> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters

<i>detailed</i>	Show only non-zero counters
<i>cached</i>	everything cached
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_ <i>interface</i>	(Optional) show interface
<i>rx_total_pkts</i>	(Optional) total input packets
<i>tx_total_pkts</i>	(Optional) total output packets
<i>rx_ucast_pkts</i>	(Optional) input unicasts
<i>rx_mcast_pkts</i>	(Optional) input multicasts
<i>rx_bcast_pkts</i>	(Optional) input broadcasts
<i>rx_octets</i>	(Optional) input bytes
<i>tx_ucast_pkts</i>	(Optional) output unicasts
<i>tx_mcast_pkts</i>	(Optional) output multicasts
<i>tx_bcast_pkts</i>	(Optional) output broadcasts
<i>tx_octets</i>	(Optional) output bytes
<i>rxtx_pkts_64octets</i>	(Optional) all pkts between 0 and 64 bytes
<i>rxtx_pkts_65_127octets</i>	(Optional) all pkts between 65 and 127 bytes
<i>rxtx_pkts_128_255octets</i>	(Optional) all pkts between 128 and 255 bytes
<i>rxtx_pkts_256_511octets</i>	(Optional) all pkts between 256 and 511 bytes
<i>rxtx_pkts_512_1023octets</i>	(Optional) all pkts between 512 and 1023 bytes
<i>rxtx_pkts_1024_1518octets</i>	(Optional) all pkts between 1024 and 1518 bytes
<i>rxtx_pkts_1519_1548octets</i>	(Optional) all pkts between 1519 and 1548 bytes
<i>rx_trunk_frames</i>	(Optional) input trunk pkts
<i>tx_trunk_frames</i>	(Optional) output trunk pkts
<i>rx_drop_events</i>	(Optional) dropped pkts
<i>rxtx_giants</i>	(Optional) giants
<i>eth_load_intervall_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec

show interface counters detailed cached

<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes

<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts

show interface counters detailed cached

<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred

<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes

show interface counters detailed cached

<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter

Command Mode

- /exec

show interface counters errors

```
show interface <ifeth_ctr_errs> counters errors [ snmp ] [ __readonly__ TABLE_interface <interface> [
<eth_align_err> ] [ <eth_fcs_err> ] [ <eth_xmit_err> ] [ <eth_rcv_err> ] [ <eth_undersize> ] [ <eth_outdisc>
] [ <eth_single_col> ] [ <eth_multi_col> ] [ <eth_late_col> ] [ <eth_excess_col> ] [ <eth_carri_sen> ] [
<eth_runts> ] [ <eth_giants> ] [ <eth_sqetest_err> ] [ <eth_deferred_tx> ] [ <eth_inmactx_err> ] [
<eth_inmacrx_err> ] [ <eth_symbol_err> ] [ <eth_indisc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_errs</i>	Enter interface type and number in module/slot format
counters	Show interface counters
errors	Show interface error counters
snmp	(Optional) Show SNMP MIB values
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_align_err</i>	(Optional) Align error
<i>eth_fcs_err</i>	(Optional) FCS error
<i>eth_xmit_err</i>	(Optional) Transmit error
<i>eth_rcv_err</i>	(Optional) Receive error
<i>eth_undersize</i>	(Optional) Undersize
<i>eth_outdisc</i>	(Optional) Out discard
<i>eth_single_col</i>	(Optional) Single collision
<i>eth_multi_col</i>	(Optional) Multiple collision
<i>eth_late_col</i>	(Optional) Late collision
<i>eth_excess_col</i>	(Optional) Excess collision
<i>eth_carri_sen</i>	(Optional) Carrier sense
<i>eth_runts</i>	(Optional) Runts
<i>eth_giants</i>	(Optional) Giants
<i>eth_sqetest_err</i>	(Optional) SQETest error

<i>eth_deferred_tx</i>	(Optional) Deferred tx
<i>eth_inmactx_err</i>	(Optional) In MAC tx
<i>eth_inmacrx_err</i>	(Optional) In MAC rx
<i>eth_symbol_err</i>	(Optional) Symbol error
<i>eth_indisc</i>	(Optional) In discards

Command Mode

- /exec

show interface counters errors

```
show interface counters errors [ module <module> ] [ non-zero ] [ __readonly__ TABLE_interface <interface>
[ <eth_align_err> ] [ <eth_fcs_err> ] [ <eth_xmit_err> ] [ <eth_rcv_err> ] [ <eth_undersize> ] [ <eth_outdisc>
] [ <eth_single_col> ] [ <eth_multi_col> ] [ <eth_late_col> ] [ <eth_excess_col> ] [ <eth_carri_sen> ] [
<eth_runts> ] [ <eth_giants> ] [ <eth_sqetest_err> ] [ <eth_deferred_tx> ] [ <eth_inmacrx_err> ] [
<eth_inmactx_err> ] [ <eth_symbol_err> ] [ <eth_indisc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
errors	Show interface error counters
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
non-zero	(Optional) Display only the non-zero error values
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_align_err</i>	(Optional) Align error
<i>eth_fcs_err</i>	(Optional) FCS error
<i>eth_xmit_err</i>	(Optional) Transmit error
<i>eth_rcv_err</i>	(Optional) Receive error
<i>eth_undersize</i>	(Optional) Undersize
<i>eth_outdisc</i>	(Optional) Out discard
<i>eth_single_col</i>	(Optional) Single collision
<i>eth_multi_col</i>	(Optional) Multiple collision
<i>eth_late_col</i>	(Optional) Late collision
<i>eth_excess_col</i>	(Optional) Excess collision
<i>eth_carri_sen</i>	(Optional) Carrier sense
<i>eth_runts</i>	(Optional) Runts
<i>eth_giants</i>	(Optional) Giants

<i>eth_sqetest_err</i>	(Optional) SQETest error
<i>eth_deferred_tx</i>	(Optional) Deferred tx
<i>eth_inmacrx_err</i>	(Optional) In MAC rx
<i>eth_inmactx_err</i>	(Optional) In MAC tx
<i>eth_symbol_err</i>	(Optional) Symbol error
<i>eth_indisc</i>	(Optional) In discards

Command Mode

- /exec

show interface counters errors

show interface <loop_ctr_errs> counters errors

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>loop_ctr_errs</i>	Enter interface type and number in module/slot format
counters	Show interface counters
errors	Show interface error counters

Command Mode

- /exec

show interface counters errors fex

```
show interface counters errors fex <fex_num> [ __readonly__ TABLE_interface <interface> [ <eth_align_err>
][ <eth_fcs_err> ][ <eth_xmit_err> ][ <eth_rcv_err> ][ <eth_undersize> ][ <eth_outdisc> ][ <eth_single_col>
][ <eth_multi_col> ][ <eth_late_col> ][ <eth_excess_col> ][ <eth_carri_sen> ][ <eth_runts> ][ <eth_giants>
][ <eth_sqetest_err> ][ <eth_deferred_tx> ][ <eth_inmactx_err> ][ <eth_inmacrx_err> ][ <eth_symbol_err>
]]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
errors	Show interface error counters
fex	Limit display to interfaces on a FEX
<i>fex_num</i>	Enter FEX number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_align_err</i>	(Optional) Align error
<i>eth_fcs_err</i>	(Optional) FCS error
<i>eth_xmit_err</i>	(Optional) Transmit error
<i>eth_rcv_err</i>	(Optional) Receive error
<i>eth_undersize</i>	(Optional) Undersize
<i>eth_outdisc</i>	(Optional) Out discard
<i>eth_single_col</i>	(Optional) Single collision
<i>eth_multi_col</i>	(Optional) Multiple collision
<i>eth_late_col</i>	(Optional) Late collision
<i>eth_excess_col</i>	(Optional) Excess collision
<i>eth_carri_sen</i>	(Optional) Carrier sense
<i>eth_runts</i>	(Optional) Runts
<i>eth_giants</i>	(Optional) Giants
<i>eth_sqetest_err</i>	(Optional) SQETest error

<i>eth_deferred_tx</i>	(Optional) Deferred tx
<i>eth_inmactx_err</i>	(Optional) In MAC tx
<i>eth_inmacrx_err</i>	(Optional) In MAC rx
<i>eth_symbol_err</i>	(Optional) Symbol error

Command Mode

- /exec

show interface counters fex

```
show interface counters fex <mod_num> [ __readonly__ { TABLE_rx_counters <interface> <eth_inpkts> [
<eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] } { TABLE_tx_counters <interface> <eth_outpkts> [
<eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
fex	Enter fex ID
<i>mod_num</i>	Enter fex ID
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts

Command Mode

- /exec

show interface counters snmp

```
show interface counters snmp [ module <module> ] [ __readonly__ { TABLE_rx_counters <interface>
<eth_inpkts> [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [ <eth_l3in_ucastpkts>
] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } { TABLE_tx_counters <interface> <eth_outpkts> [
<eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
snmp	Show SNMP MIB values
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes

<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters snmp fex

```
show interface counters snmp fex <fex_num> [ __readonly__ { TABLE_rx_counters <interface> <eth_inpkts>
[ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] } { TABLE_tx_counters <interface> <eth_outpkts> [
<eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
snmp	Show SNMP MIB values
fex	Limit display to interfaces on a FEX
<i>fex_num</i>	Enter FEX number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts

Command Mode

- /exec

show interface counters storm-control

```
show interface <ifeth_ctr_stm_ctrl> counters storm-control [ __readonly__ TABLE_interface <interface>
<eth_ucast_supp> <eth_mcast_supp> <eth_bcast_supp> <eth_total_supp> <supp_action> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_stm_ctrl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
storm-control	Show interface storm-control counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_ucast_supp</i>	(Optional) Unicast suppression percentage
<i>eth_mcast_supp</i>	(Optional) Multicast suppression percentage
<i>eth_bcast_supp</i>	(Optional) Broadcast suppression percentage
<i>eth_total_supp</i>	(Optional) Total discarded due to suppression
<i>supp_action</i>	(Optional) Action to be taken on suppression

Command Mode

- /exec

show interface counters storm-control

```
show interface counters storm-control [ module <module> ] [ __readonly__ TABLE_interface <interface>
<eth_ucast_supp> <eth_mcast_supp> <eth_bcast_supp> <eth_total_supp> <supp_action> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
storm-control	Show interface storm-control counters
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_ucast_supp</i>	(Optional) Unicast suppression percentage
<i>eth_mcast_supp</i>	(Optional) Multicast suppression percentage
<i>eth_bcast_supp</i>	(Optional) Broadcast suppression percentage
<i>eth_total_supp</i>	(Optional) Total discarded due to suppression
<i>supp_action</i>	(Optional) Action to be taken on suppression

Command Mode

- /exec

show interface counters table

show interface counters table [verbose]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
table	format counters in a table
verbose	(Optional) show errors counts after counters

Command Mode

- /exec

show interface counters trunk

```
show interface <ifeth_ctr_trnk> counters trunk [ __readonly__ TABLE_interface <interface> [
<eth_trunk_frames_tx> ] [ <eth_trunk_frames_rx> ] [ <eth_wrong_encap> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_trnk</i>	Enter interface type and number in module/slot format
counters	Show interface counters
trunk	Show interface trunk counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>eth_trunk_frames_tx</i>	(Optional) Trunk frame transmitted
<i>eth_trunk_frames_rx</i>	(Optional) Trunk frames received
<i>eth_wrong_encap</i>	(Optional) Wrong encapsulation

Command Mode

- /exec

show interface debounce

```
show interface debounce [ __readonly__ TABLE_interface <interface> <debounce> <debounce_val> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
debounce	Show interface debounce time information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>debounce</i>	(Optional) Debounce time
<i>debounce_val</i>	(Optional) Value(ms)

Command Mode

- /exec

show interface debounce

```
show interface <ifeth_dbnc> debounce [ __readonly__ TABLE_interface <interface> <debounce>
<debounce_val> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_dbnc</i>	Enter interface type and number in module/slot format
debounce	Show interface debounce time information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>debounce</i>	(Optional) Debounce time
<i>debounce_val</i>	(Optional) Value(ms)

Command Mode

- /exec

show interface description

```
show interface description [ __readonly__ TABLE_interface <interface> [ <state> ] [ <type> ] [ <speed> ] [ <protocol> ] [ <desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
description	Show interface description
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <ifid_mgmt_loop> description [ __readonly__ TABLE_interface <interface> [ <state> ] [
<protocol> ] [ <desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_mgmt_loop</i>	Enter interface type and number in module/slot format
description	Show interface description
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <ifid_eth> description [ __readonly__ TABLE_interface <interface> [ <state> ] [ <type> ] [ <speed> ] [ <protocol> ] [ <desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_eth</i>	Enter interface type and number in module/slot format
description	Show interface description
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <iftun_desc> description [ __readonly__ TABLE_interface <interface> <state> <protocol>
<desc> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_desc</i>	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <ifrange> description [ __readonly__ TABLE_interface <interface> <state> <protocol> <desc> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <ifrange> description [ __readonly__ TABLE_interface <interface> <state> <protocol> <desc> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <ifid> description [ __readonly__ <start> <if_index> <LINE> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
description	Interface specific description
__readonly__	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>if_index</i>	(Optional) Interface
<i>LINE</i>	(Optional) Description

Command Mode

- /exec

show interface fcoe

```
show interface <ifeth_fcoe> fcoe [ __readonly__ TABLE_interface <interface> [ <state> ] [ <vfc> ] [ <vfc_bound> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_fcoe</i>	Enter interface type and number in module/slot format
fcoe	Show interface fcoe information
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>state</i>	(Optional) State of interface
<i>vfc</i>	(Optional) VFC
<i>vfc_bound</i>	(Optional) Binding information

Command Mode

- /exec

show interface fex-conf

```
show interface <if_id> fex-conf [ __readonly__ <fbr_if> <rchas_id> <rmod_no> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>if_id</i>	Enter interface type and number in module/slot format
fex-conf	Show interface fex information
__readonly__	(Optional) Read Only
<i>fbr_if</i>	(Optional) Interface name
<i>rchas_id</i>	(Optional) Configured fex number
<i>rmod_no</i>	(Optional) Configured fex module number

Command Mode

- /exec

show interface fex-fabric

```
show interface fex-fabric [ __readonly__ TABLE_fex_fabric <fex_no> <fbr_port> <fex_uplink>
<chas_vendor> <fex_model> <chas_ser> <mod_vendor> <mod_model> <fex_ser> <mod_no> <mgmt_inst>
<fbr_state> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
fex-fabric	Show all FEX fabric ports
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_fex_fabric</i>	(Optional) Discovered fex fabric ports
<i>fex_no</i>	(Optional) Configured chassis number
<i>fbr_port</i>	(Optional) Interface name
<i>fex_uplink</i>	(Optional) Remote Link id
<i>chas_vendor</i>	(Optional) Chassis Vendor
<i>fex_model</i>	(Optional) Chassis Model
<i>chas_ser</i>	(Optional) Chassis serial Number
<i>mod_vendor</i>	(Optional) Module Vendor
<i>mod_model</i>	(Optional) Module Model
<i>fex_ser</i>	(Optional) Module serial Number
<i>mod_no</i>	(Optional) Module Number(Left/Right module)
<i>mgmt_inst</i>	(Optional) Management instance
<i>fbr_state</i>	(Optional) Fabric port state

Command Mode

- /exec

show interface fex-intf

```
show interface <if_id> fex-intf [ __readonly__ TABLE_fabric_if <fbr_if> TABLE_sat_if <sat_if> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>if_id</i>	Enter interface type and number in module/slot format
fex-intf	Show FEX ports pinned to fabric port
__readonly__	(Optional) Read Only
TABLE_fabric_if	(Optional) Fabric interface satellite ports
<i>fbr_if</i>	(Optional) Fabric Interface name
TABLE_sat_if	(Optional) Satellite ports
<i>sat_if</i>	(Optional) FEX Interface name

Command Mode

- /exec

show interface flowcontrol

```
show interface flowcontrol [ module <module> ] [ __readonly__ TABLE_interface <interface> <send_admin>
<send_oper> <recv_admin> <recv_oper> <rxpause> <txpause> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
flowcontrol	Show interface flowcontrol information
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>send_admin</i>	(Optional) Send flowcontrol admin
<i>send_oper</i>	(Optional) Send flowcontrol oper
<i>recv_admin</i>	(Optional) Receive flowcontrol admin
<i>recv_oper</i>	(Optional) Receive flowcontrol oper
<i>rxpause</i>	(Optional) RxPause
<i>txpause</i>	(Optional) TxPause

Command Mode

- /exec

show interface flowcontrol

```
show interface <ifeth_fl_ctrl> flowcontrol [ __readonly__ TABLE_interface <interface> <send_admin>
<send_oper> <recv_admin> <recv_oper> <rxpause> <txpause> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_fl_ctrl</i>	Enter interface type and number in module/slot format
flowcontrol	Show interface flowcontrol information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>send_admin</i>	(Optional) Send flowcontrol admin
<i>send_oper</i>	(Optional) Send flowcontrol oper
<i>recv_admin</i>	(Optional) Receive flowcontrol admin
<i>recv_oper</i>	(Optional) Receive flowcontrol oper
<i>rxpause</i>	(Optional) RxPause
<i>txpause</i>	(Optional) TxPause

Command Mode

- /exec

show interface flowcontrol fex

```
show interface flowcontrol fex <fex_num> [ __readonly__ TABLE_interface <interface> <send_admin>
<send_oper> <recv_admin> <recv_oper> <rxpause> <txpause> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
flowcontrol	Show interface flowcontrol information
fex	Limit display to interfaces on a FEX
<i>fex_num</i>	Enter FEX number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>send_admin</i>	(Optional) Send flowcontrol admin
<i>send_oper</i>	(Optional) Send flowcontrol oper
<i>recv_admin</i>	(Optional) Receive flowcontrol admin
<i>recv_oper</i>	(Optional) Receive flowcontrol oper
<i>rxpause</i>	(Optional) RxPause
<i>txpause</i>	(Optional) TxPause

Command Mode

- /exec

show interface hardware-mappings

show interface hardware-mappings

Syntax Description

show	Show running system information
interface	Interface
hardware-mappings	Show hardware port number and unit information for interfaces

Command Mode

- /exec

show interface mac-address

show interface mac-address [*__readonly__* *TABLE_interface* <interface> <address> <bia_address>]

Syntax Description

show	Show running system information
interface	Show interface status and information
mac-address	Show interface MAC address
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>address</i>	(Optional) MAC Address
<i>bia_address</i>	(Optional) Burn-In MAC Address

Command Mode

- /exec

show interface mac-address

show interface <ifid_macaddr> mac-address [__readonly__ TABLE_interface <interface> <address>]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_macaddr</i>	Enter interface type and number in module/slot format
mac-address	Show interface MAC address
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>address</i>	(Optional) MAC Address

Command Mode

- /exec

show interface priority-flow-control

```
show interface [ <if_list> ] priority-flow-control [ detail ] [ module <module> ] [ __readonly__ [
TABLE_pfc_interface <if_name_str> <admin> <oper> <cos-list> <rx-stats> <tx-stats> <rx_ppp_cos_0>
<tx_ppp_cos_0> <ppp_cos_1> <ppp_cos_2> <ppp_cos_3> <ppp_cos_4> <ppp_cos_5> <ppp_cos_6>
<ppp_cos_7> ] ]
```

Syntax Description

show	commands to display
interface	Interface for displaying pfc information
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
priority-flow-control	Show interface PFC information
detail	(Optional) Show detailed per priority Tx/Rx PFC statistics
__readonly__	(Optional)
<i>if_name_str</i>	(Optional) interface name
TABLE_pfc_interface	(Optional) PFC information of an interface
<i>admin</i>	(Optional) PFC admin
<i>oper</i>	(Optional) PFC oper
<i>cos-list</i>	(Optional) List of class-of-service values

Command Mode

- /exec

show interface private-vlan mapping

```
show interface [ <if> ] private-vlan mapping [ __readonly__ [ <output-filtered> ] [ { TABLE_interf_mapp
<interface-id> [ <secondary-vlan> + ] [ <pvlan-type> } ] ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>if</i>	(Optional) Vlan Interface number
private-vlan	Show interface private vlan information
mapping	Show interface private vlan information
<i>__readonly__</i>	(Optional) Read Only
<i>output-filtered</i>	(Optional) the output is filtered for specified ifs
TABLE_interf_mapp	(Optional) Pvlan interface mapping table
<i>interface-id</i>	(Optional) Interface
<i>secondary-vlan</i>	(Optional) Secondary Vlan
<i>pvlan-type</i>	(Optional) PVLAN Type

Command Mode

- /exec

show interface pruning

```
show interface pruning [ __readonly__ <start> { TABLE_interface_pruning1 <if_index1> <rx_join> } {
TABLE_interface_pruning2 <if_index2> <cur_join> } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
pruning	Show interface trunk VTP pruning information
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
TABLE_interface_pruning1	(Optional) Interface pruning information in table format
<i>if_index1</i>	(Optional) Trunk
<i>rx_join</i>	(Optional) Vlans pruned for lack of request by neighbor
TABLE_interface_pruning2	(Optional) Interface pruning information in table format
<i>if_index2</i>	(Optional) Trunk
<i>cur_join</i>	(Optional) Vlan traffic requested of neighbor

Command Mode

- /exec

show interface snmp-ifindex

```
show interface snmp-ifindex [ __readonly__ TABLE_interface <interface> [ <ifindex-dec> ] <snmp-ifindex> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
snmp-ifindex	Show snmp ifindex list
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>snmp-ifindex</i>	(Optional) If Index in Hex
<i>ifindex-dec</i>	(Optional) If Index in Decimal

Command Mode

- /exec

show interface status

```
show interface status [ down | inactive | module <module> | up | auto-column ] [ __readonly__ TABLE_interface
<interface> [ <name> ] <state> <vlan> <duplex> <speed> [ <type> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
down	(Optional) Show interface down state
inactive	(Optional) Show interface inactive state
auto-column	(Optional) Show interface status auto-column adjusted
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
up	(Optional) Show interface up state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>vlan</i>	(Optional) Vlan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

Command Mode

- /exec

show interface status

```
show interface <ifid_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [ <vlan> ] [ <duplex> ] [ <speed> ] [ <type> ] ]
```

Syntax Description

<code>show</code>	Show running system information
<code>interface</code>	Show interface status and information
<i>ifid_status</i>	Enter interface type and number in module/slot format
<code>status</code>	Show interface line status
<code>__readonly__</code>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<code>TABLE_interface</code>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>vlan</i>	(Optional) Vlan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

Command Mode

- /exec

show interface status

```
show interface <ifeth_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [
<vlan> ] <duplex> <speed> [ <type> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_status</i>	Enter interface type and number in module/slot format
status	Show interface line status
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>vlan</i>	(Optional) Vlan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

Command Mode

- /exec

show interface status

```
show interface <iftun_status> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name>
<state> <state_rsn> <state_rsn_desc> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_status</i>	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status

```
show interface <ifrange> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name> <state>
<state_rsn> <state_rsn_desc> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status

```
show interface <ifrange> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name> <state>
<state_rsn> <state_rsn_desc> <admin_state> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>admin_state</i>	(Optional) admin state

Command Mode

- /exec

show interface status

show interface <ifid> status [__readonly__ <start> <if_index> <admin-state> <line-proto>]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
status	Interface status
__readonly__	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>if_index</i>	(Optional) Interface
<i>admin-state</i>	(Optional) Administrative State
<i>line-proto</i>	(Optional) Line Protocol

Command Mode

- /exec

show interface status err-disabled

```
show interface status err-disabled [ __readonly__ TABLE_interface <interface> [ <name> ] <state> [
<state_rsn> ] [ <state_rsn_desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
err-disabled	Show interface error disabled state
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status err-disabled

```
show interface <ifeth_errdis> status err-disabled [ __readonly__ TABLE_interface <interface> [ <name> ]
<state> [ <state_rsn> ] [ <state_rsn_desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
<i>ifeth_errdis</i>	Enter interface type and number in module/slot format
err-disabled	Show interface error disabled state
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status err-vlans

```
show interface status err-vlans [ __readonly__ TABLE_interface <interface> [ <name> ] { TABLE_vlan
<err_vlan> <err_vlan_status> <err_vlan_syserr> } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
err-vlans	Show errored vlans
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
TABLE_vlan	(Optional) show vlan
<i>err_vlan</i>	(Optional) Errored vlan
<i>err_vlan_status</i>	(Optional) Errored vlan status
<i>err_vlan_syserr</i>	(Optional) Errored vlan syserr name

Command Mode

- /exec

show interface status err-vlans

```
show interface <ifeth_errvlans> status err-vlans [ __readonly__ TABLE_interface <interface> [ <name> ] [
{ TABLE_vlan [ <err_vlan> ] [ <err_vlan_status> ] [ <err_vlan_syserr> } } ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_errvlans</i>	Enter interface type and number in module/slot format
status	Show interface line status
err-vlans	Show errored vlans
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>TABLE_vlan</i>	(Optional) show vlan
<i>err_vlan</i>	(Optional) Errored vlan
<i>err_vlan_status</i>	(Optional) Errored vlan status
<i>err_vlan_syserr</i>	(Optional) Errored vlan syserr name

Command Mode

- /exec

show interface status fex

```
show interface status fex <fex_num> [ __readonly__ TABLE_interface <interface> [ <name> ] <state> <vlan>
<duplex> <speed> [ <type> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
fex	Limit display to interfaces on a FEX
<i>fex_num</i>	Enter FEX number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>vlan</i>	(Optional) Vlan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

Command Mode

- /exec

show interface switchport

```
show interface switchport [ __readonly__ ] TABLE_interface <interface> <switchport> [ <switchport_monitor> ] [ <switchport_isolated> ] [ <switchport_block_unicast> ] [ <switchport_block_multicast> ] [ <oper_mode> ] [ <access_vlan> ] [ <access_vlan_name> ] [ <native_vlan> ] [ <native_vlan_name> ] [ <trunk_vlans> ] [ <fabricpath_topologies> ] [ <pruning_vlans> ] [ <admin_pvlan_pri_assoc> ] [ <admin_pvlan_sec_assoc> ] [ <admin_pvlan_pri_mapping> ] [ <admin_pvlan_sec_mapping> ] [ <admin_pvlan_trunk_native> ] [ <admin_pvlan_trunk_encap> ] [ <admin_pvlan_trunk_normal> ] [ <admin_pvlan_trunk_private> ] [ <oper_pvlan> ] [ <autostate_mode> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
switchport	Show interface switchport information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>switchport</i>	(Optional) Switchport enabled
<i>switchport_monitor</i>	(Optional) Switchport monitor enabled
<i>switchport_isolated</i>	(Optional) Switchport isolated enabled
<i>switchport_block_unicast</i>	(Optional) Switchport monitor enabled
<i>switchport_block_multicast</i>	(Optional) Switchport monitor enabled
<i>oper_mode</i>	(Optional) Operational mode
<i>access_vlan</i>	(Optional) Access mode VLAN
<i>access_vlan_name</i>	(Optional) Access mode VLAN name
<i>native_vlan</i>	(Optional) Trunking native mode VLAN
<i>native_vlan_name</i>	(Optional) Trunking native mode VLAN name
<i>trunk_vlans</i>	(Optional) Trunking VLANs Allowed
<i>fabricpath_topologies</i>	(Optional) FabricPath Topologies Allowed
<i>pruning_vlans</i>	(Optional) Pruning eligible VLANs
<i>admin_pvlan_pri_assoc</i>	(Optional) Administrative private-vlan primary host-association
<i>admin_pvlan_sec_assoc</i>	(Optional) Administrative private-vlan secondary host-association
<i>admin_pvlan_pri_mapping</i>	(Optional) Administrative private-vlan primary mapping

<i>admin_pvlan_sec_mapping</i>	(Optional) Administrative private-vlan secondary mapping
<i>admin_pvlan_trunk_native</i>	(Optional) Administrative private-vlan trunk native VLAN
<i>admin_pvlan_trunk_encap</i>	(Optional) Administrative private-vlan trunk encapsulation
<i>admin_pvlan_trunk_normal</i>	(Optional) Administrative private-vlan trunk normal VLANs
<i>admin_pvlan_trunk_private</i>	(Optional) Administrative private-vlan trunk private VLANs
<i>oper_pvlan</i>	(Optional) Operational private-vlan
<i>autostate_mode</i>	(Optional) SVI Autostate Exclude Info

Command Mode

- /exec

show interface switchport

```
show interface <ifeth_swch> switchport [ __readonly__ TABLE_interface <interface> <switchport> [
<switchport_monitor> ] [ <switchport_isolated> ] [ <switchport_block_unicast> ] [
<switchport_block_multicast> ] [ <oper_mode> ] [ <access_vlan> ] [ <access_vlan_name> ] [ <native_vlan>
] [ <native_vlan_name> ] [ <trunk_vlans> ] [ <fabricpath_topologies> ] [ <pruning_vlans> ] [
<admin_pvlan_pri_assoc> ] [ <admin_pvlan_sec_assoc> ] [ <admin_pvlan_pri_mapping> ] [
<admin_pvlan_sec_mapping> ] [ <admin_pvlan_trunk_native> ] [ <admin_pvlan_trunk_encap> ] [
<admin_pvlan_trunk_normal> ] [ <admin_pvlan_trunk_private> ] [ <oper_pvlan> ] [ <autostate_mode> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_swch</i>	Enter interface type and number in module/slot format
switchport	Show interface switchport information
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>switchport</i>	(Optional) Switchport enabled
<i>switchport_monitor</i>	(Optional) Switchport monitor enabled
<i>switchport_isolated</i>	(Optional) Switchport isolated enabled
<i>switchport_block_unicast</i>	(Optional) Switchport monitor enabled
<i>switchport_block_multicast</i>	(Optional) Switchport monitor enabled
<i>oper_mode</i>	(Optional) Operational mode
<i>access_vlan</i>	(Optional) Access mode VLAN
<i>access_vlan_name</i>	(Optional) Access mode VLAN name
<i>native_vlan</i>	(Optional) Trunking native mode VLAN
<i>native_vlan_name</i>	(Optional) Trunking native mode VLAN name
<i>trunk_vlans</i>	(Optional) Trunking VLANs Allowed
<i>fabricpath_topologies</i>	(Optional) FabricPath Topologies Allowed
<i>pruning_vlans</i>	(Optional) Pruning eligible VLANs
<i>admin_pvlan_pri_assoc</i>	(Optional) Administrative private-vlan primary host-association
<i>admin_pvlan_sec_assoc</i>	(Optional) Administrative private-vlan secondary host-association

<i>admin_pvlan_pri_mapping</i>	(Optional) Administrative private-vlan primary mapping
<i>admin_pvlan_sec_mapping</i>	(Optional) Administrative private-vlan secondary mapping
<i>admin_pvlan_trunk_native</i>	(Optional) Administrative private-vlan trunk native VLAN
<i>admin_pvlan_trunk_encap</i>	(Optional) Administrative private-vlan trunk encapsulation
<i>admin_pvlan_trunk_normal</i>	(Optional) Administrative private-vlan trunk normal VLANs
<i>admin_pvlan_trunk_private</i>	(Optional) Administrative private-vlan trunk private VLANs
<i>oper_pvlan</i>	(Optional) Operational private-vlan
<i>autostate_mode</i>	(Optional) SVI Autostate Exclude Info

Command Mode

- /exec

<i>details</i>	(Optional) Show interface transceiver detail information
<i>inventory</i>	(Optional) Show interface transceiver inventory
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_ <i>interface</i>	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>type</i>	(Optional) type
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_9</i>	(Optional) Link length supported for 9/125um fiber
<i>len_50</i>	(Optional) Link length supported for 50/125um fiber
<i>len_625</i>	(Optional) Link length supported for 62.5/125um fiber
<i>len_cu</i>	(Optional) Link length supported for copper
<i>len_50_OM3</i>	(Optional) Link length supported for 50/125um fiber in m
<i>txcvr_type</i>	(Optional)
<i>connector_type</i>	(Optional)
<i>bit_encoding</i>	(Optional)
<i>protocol_type</i>	(Optional)
<i>10gbe_code</i>	(Optional)
<i>fiber_type_byte0</i>	(Optional)
<i>fiber_type_byte1</i>	(Optional)
<i>tx_range</i>	(Optional)
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>cisco_part_number</i>	(Optional) Cisco part number
<i>cisco_product_id</i>	(Optional) Cisco product identifier

<i>cisco_vendor_id</i>	(Optional) Cisco vendor identifier
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0
TABLE_lane	(Optional) show lane
<i>lane_number</i>	(Optional) Lane number
<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_alarm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alarm_lo</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi</i>	(Optional) Temperature Warning High
<i>temp_warn_lo</i>	(Optional) Temperature Warning Low
<i>voltage</i>	(Optional) Voltage
<i>volt_flag</i>	(Optional) Voltage Flag
<i>volt_alarm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alarm_lo</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi</i>	(Optional) Voltage Warning High
<i>volt_warn_lo</i>	(Optional) Voltage Warning Low
<i>current</i>	(Optional) Current

<i>current_flag</i>	(Optional) Current Flag
<i>current_alm_hi</i>	(Optional) Current Alarm High
<i>current_alm_lo</i>	(Optional) Current Alarm Low
<i>current_warn_hi</i>	(Optional) Current Warning High
<i>current_warn_lo</i>	(Optional) Current Warning Low
<i>tx_pwr</i>	(Optional) Tx Power
<i>tx_pwr_flag</i>	(Optional) Tx Power Flag
<i>tx_pwr_alm_hi</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alm_lo</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo</i>	(Optional) Tx Power Warning Low
<i>rx_pwr</i>	(Optional) Rx Power
<i>rx_pwr_flag</i>	(Optional) Rx Power Flag
<i>rx_pwr_alm_hi</i>	(Optional) Rx Power Alarm High
<i>rx_pwr_alm_lo</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi</i>	(Optional) Rx Power Warning High
<i>rx_pwr_warn_lo</i>	(Optional) Rx Power Warning Low
<i>xmit_faults</i>	(Optional) Transmit Fault Count
<i>snr</i>	(Optional) RX Signal-to-Noise Ratio (SNR)
<i>snr_flag</i>	(Optional) SNR Flag
<i>snr_alm_hi</i>	(Optional) SNR Alarm High
<i>snr_alm_lo</i>	(Optional) SNR Alarm Low
<i>snr_warn_hi</i>	(Optional) SNR Warning High
<i>snr_warn_lo</i>	(Optional) SNR Warning Low
<i>isi</i>	(Optional) Residual-Dispersion(ISI)
<i>isi_flag</i>	(Optional) ISI Flag
<i>isi_alm_hi</i>	(Optional) ISI alarm high
<i>isi_alm_lo</i>	(Optional) ISI alarm low
<i>isi_warn_hi</i>	(Optional) ISI warning high

<i>isi_warn_lo</i>	(Optional) ISI warning low
<i>pam</i>	(Optional) PAM Transition
<i>pam_flag</i>	(Optional) PAM Flag
<i>pam_alrm_hi</i>	(Optional) PAM alarm high
<i>pam_alrm_lo</i>	(Optional) PAM alarm low
<i>pam_warn_hi</i>	(Optional) PAM warning high
<i>pam_warn_lo</i>	(Optional) PAM warning low
<i>pre_fec_ber</i>	(Optional) Pre-FEC BER
<i>pre_fec_ber_flag</i>	(Optional) Pre-FEC BER flag
<i>pre_fec_ber_alrm_hi</i>	(Optional) Pre-FEC BER alarm high
<i>pre_fec_ber_alrm_lo</i>	(Optional) Pre-FEC BER alarm low
<i>pre_fec_ber_warn_hi</i>	(Optional) Pre-FEC BER warning high
<i>pre_fec_ber_warn_lo</i>	(Optional) Pre-FEC BER warning low
<i>uncorrect_ber</i>	(Optional) Uncorrected BER
<i>uncorrect_ber_flag</i>	(Optional) Uncorrected BER flag
<i>uncorrect_ber_alrm_hi</i>	(Optional) Uncorrected BER alarm high
<i>uncorrect_ber_alrm_lo</i>	(Optional) Uncorrected BER alarm low
<i>uncorrect_ber_warn_hi</i>	(Optional) Uncorrected BER warning high
<i>uncorrect_ber_warn_lo</i>	(Optional) Uncorrected BER warning low
<i>tec_current</i>	(Optional) TEC Current
<i>tec_current_flag</i>	(Optional) TEC Current flag
<i>tec_current_alrm_hi</i>	(Optional) TEC Current Alarm High
<i>tec_current_alrm_lo</i>	(Optional) TEC Current Alarm Low
<i>tec_current_warn_hi</i>	(Optional) TEC Current Warning High
<i>tec_current_warn_lo</i>	(Optional) TEC Current Warning Low
<i>laser_freq</i>	(Optional) Laser Frequency
<i>laser_freq_flag</i>	(Optional) Laser Frequency flag
<i>laser_freq_alrm_hi</i>	(Optional) Laser Frequency Alarm High
<i>laser_freq_alrm_lo</i>	(Optional) Laser Frequency Alarm Low

<i>laser_freq_warn_hi</i>	(Optional) Laser Frequency Warning High
<i>laser_freq_warn_lo</i>	(Optional) Laser Frequency Warning Low
<i>laser_temp</i>	(Optional) Laser Temperature
<i>laser_temp_flag</i>	(Optional) Laser Temperature flag
<i>laser_temp_alm_hi</i>	(Optional) Laser Temperature Alarm High
<i>laser_temp_alm_lo</i>	(Optional) Laser Temperature Alarm Low
<i>laser_temp_warn_hi</i>	(Optional) Laser Temperature Warning High
<i>laser_temp_warn_lo</i>	(Optional) Laser Temperature Warning Low
<i>pre_fec_ber_acc</i>	(Optional) Pre-FEC BER Acc
<i>pre_fec_ber_acc_flag</i>	(Optional) Pre-FEC BER Acc flag
<i>pre_fec_ber_acc_alm_hi</i>	(Optional) Pre-FEC BER Acc alarm high
<i>pre_fec_ber_acc_alm_lo</i>	(Optional) Pre-FEC BER Acc alarm low
<i>pre_fec_ber_acc_warn_hi</i>	(Optional) Pre-FEC BER Acc warning high
<i>pre_fec_ber_acc_warn_lo</i>	(Optional) Pre-FEC BER Acc warning low
<i>pre_fec_ber_min</i>	(Optional) Pre-FEC BER Min
<i>pre_fec_ber_min_flag</i>	(Optional) Pre-FEC BER Min flag
<i>pre_fec_ber_min_alm_hi</i>	(Optional) Pre-FEC BER Min alarm high
<i>pre_fec_ber_min_alm_lo</i>	(Optional) Pre-FEC BER Min alarm low
<i>pre_fec_ber_min_warn_hi</i>	(Optional) Pre-FEC BER Min warning high
<i>pre_fec_ber_min_warn_lo</i>	(Optional) Pre-FEC BER Min warning low
<i>pre_fec_ber_max</i>	(Optional) Pre-FEC BER Max
<i>pre_fec_ber_max_flag</i>	(Optional) Pre-FEC BER Max flag
<i>pre_fec_ber_max_alm_hi</i>	(Optional) Pre-FEC BER Max alarm high
<i>pre_fec_ber_max_alm_lo</i>	(Optional) Pre-FEC BER Max alarm low
<i>pre_fec_ber_max_warn_hi</i>	(Optional) Pre-FEC BER Max warning high
<i>pre_fec_ber_max_warn_lo</i>	(Optional) Pre-FEC BER Max warning low
<i>pre_fec_ber_cur</i>	(Optional) Pre-FEC BER Cur
<i>pre_fec_ber_cur_flag</i>	(Optional) Pre-FEC BER Cur flag
<i>pre_fec_ber_cur_alm_hi</i>	(Optional) Pre-FEC BER Cur alarm high

<i>pre_fec_ber_cur_alrm_lo</i>	(Optional) Pre-FEC BER Cur alarm low
<i>pre_fec_ber_cur_warn_hi</i>	(Optional) Pre-FEC BER Cur warning high
<i>pre_fec_ber_cur_warn_lo</i>	(Optional) Pre-FEC BER Cur warning low
<i>uncorrect_ber_acc</i>	(Optional) Uncorrected BER Acc
<i>uncorrect_ber_acc_flag</i>	(Optional) Uncorrected BER Acc flag
<i>uncorrect_ber_acc_alrm_hi</i>	(Optional) Uncorrected BER Acc alarm high
<i>uncorrect_ber_acc_alrm_lo</i>	(Optional) Uncorrected BER Acc alarm low
<i>uncorrect_ber_acc_warn_hi</i>	(Optional) Uncorrected BER Acc warning high
<i>uncorrect_ber_acc_warn_lo</i>	(Optional) Uncorrected BER Acc warning low
<i>uncorrect_ber_min</i>	(Optional) Uncorrected BER Min
<i>uncorrect_ber_min_flag</i>	(Optional) Uncorrected BER Min flag
<i>uncorrect_ber_min_alrm_hi</i>	(Optional) Uncorrected BER Min alarm high
<i>uncorrect_ber_min_alrm_lo</i>	(Optional) Uncorrected BER Min alarm low
<i>uncorrect_ber_min_warn_hi</i>	(Optional) Uncorrected BER Min warning high
<i>uncorrect_ber_min_warn_lo</i>	(Optional) Uncorrected BER Min warning low
<i>uncorrect_ber_max</i>	(Optional) Uncorrected BER Max
<i>uncorrect_ber_max_flag</i>	(Optional) Uncorrected BER Max flag
<i>uncorrect_ber_max_alrm_hi</i>	(Optional) Uncorrected BER Max alarm high
<i>uncorrect_ber_max_alrm_lo</i>	(Optional) Uncorrected BER Max alarm low
<i>uncorrect_ber_max_warn_hi</i>	(Optional) Uncorrected BER Max warning high
<i>uncorrect_ber_max_warn_lo</i>	(Optional) Uncorrected BER Max warning low
<i>uncorrect_ber_cur</i>	(Optional) Uncorrected BER Cur
<i>uncorrect_ber_cur_flag</i>	(Optional) Uncorrected BER Cur flag
<i>uncorrect_ber_cur_alrm_hi</i>	(Optional) Uncorrected BER Cur alarm high
<i>uncorrect_ber_cur_alrm_lo</i>	(Optional) Uncorrected BER Cur alarm low
<i>uncorrect_ber_cur_warn_hi</i>	(Optional) Uncorrected BER Cur warning high
<i>uncorrect_ber_cur_warn_lo</i>	(Optional) Uncorrected BER Cur warning low

Command Mode

- /exec

show interface transceiver

```

show interface <ifid_transceiver> transceiver [ calibrations | details | sprom ] [ __readonly__ TABLE interface
<interface> [ <sfp> ] [ <type> ] [ <name> ] [ <partnum> ] [ <rev> ] [ <serialnum> ] [ <nom_bitrate> ] [
<len_9> ] [ <len_9_2> ] [ <len_50> ] [ <len_625> ] [ <len_cu> ] [ <len_50_OM3> ] [ <txcvr_type> ] [
<connector_type> ] [ <bit_encoding> ] [ <protocol_type> ] [ <10gbe_code> ] [ <fiber_type_byte0> ] [
<fiber_type_byte1> ] [ <tx_range> ] [ <ciscoid> ] [ <ciscoid_1> ] [ <cisco_part_number> ] [ <cisco_product_id>
] [ <cisco_vendor_id> ] [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ] [ <volt_offset> ] [ <curr_slope>
] [ <curr_offset> ] [ <tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ] [ <rx_pwr_2> ] [
<rx_pwr_1> ] [ <rx_pwr_0> ] [ TABLE lane [ <lane_number> ] [ <temperature> ] [ <temp_flag> ] [
<temp_alm_hi> ] [ <temp_alm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag>
] [ <volt_alm_hi> ] [ <volt_alm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag>
] [ <current_alm_hi> ] [ <current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [
<tx_pwr_flag> ] [ <tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ]
] [ <rx_pwr> ] [ <rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [
<rx_pwr_warn_lo> ] [ <xmit_faults> ] [ <snr> ] [ <snr_flag> ] [ <snr_alm_hi> ] [ <snr_alm_lo> ] [
<snr_warn_hi> ] [ <snr_warn_lo> ] [ <isi> ] [ <isi_flag> ] [ <isi_alm_hi> ] [ <isi_alm_lo> ] [ <isi_warn_hi>
] [ <isi_warn_lo> ] [ <pam> ] [ <pam_flag> ] [ <pam_alm_hi> ] [ <pam_alm_lo> ] [ <pam_warn_hi> ] [
<pam_warn_lo> ] [ <pre_fec_ber> ] [ <pre_fec_ber_flag> ] [ <pre_fec_ber_alm_hi> ] [ <pre_fec_ber_alm_lo>
] [ <pre_fec_ber_warn_hi> ] [ <pre_fec_ber_warn_lo> ] [ <uncorrect_ber> ] [ <uncorrect_ber_flag> ] [
<uncorrect_ber_alm_hi> ] [ <uncorrect_ber_alm_lo> ] [ <uncorrect_ber_warn_hi> ] [
<uncorrect_ber_warn_lo> ] [ <tec_current> ] [ <tec_current_flag> ] [ <tec_current_alm_hi> ] [
<tec_current_alm_lo> ] [ <tec_current_warn_hi> ] [ <tec_current_warn_lo> ] [ <laser_freq> ] [
<laser_freq_flag> ] [ <laser_freq_alm_hi> ] [ <laser_freq_alm_lo> ] [ <laser_freq_warn_hi> ] [
<laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [ <laser_temp_alm_hi> ] [
<laser_temp_alm_lo> ] [ <laser_temp_warn_hi> ] [ <laser_temp_warn_lo> ] [ <pre_fec_ber_acc> ] [
<pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alm_hi> ] [ <pre_fec_ber_acc_alm_lo> ] [
<pre_fec_ber_acc_warn_hi> ] [ <pre_fec_ber_acc_warn_lo> ] [ <pre_fec_ber_min> ] [ <pre_fec_ber_min_flag>
] [ <pre_fec_ber_min_alm_hi> ] [ <pre_fec_ber_min_alm_lo> ] [ <pre_fec_ber_min_warn_hi> ] [
<pre_fec_ber_min_warn_lo> ] [ <pre_fec_ber_max> ] [ <pre_fec_ber_max_flag> ] [
<pre_fec_ber_max_alm_hi> ] [ <pre_fec_ber_max_alm_lo> ] [ <pre_fec_ber_max_warn_hi> ] [
<pre_fec_ber_max_warn_lo> ] [ <pre_fec_ber_cur> ] [ <pre_fec_ber_cur_flag> ] [ <pre_fec_ber_cur_alm_hi>
] [ <pre_fec_ber_cur_alm_lo> ] [ <pre_fec_ber_cur_warn_hi> ] [ <pre_fec_ber_cur_warn_lo> ] [
<uncorrect_ber_acc> ] [ <uncorrect_ber_acc_flag> ] [ <uncorrect_ber_acc_alm_hi> ] [
<uncorrect_ber_acc_alm_lo> ] [ <uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [
<uncorrect_ber_min> ] [ <uncorrect_ber_min_flag> ] [ <uncorrect_ber_min_alm_hi> ] [
<uncorrect_ber_min_alm_lo> ] [ <uncorrect_ber_min_warn_hi> ] [ <uncorrect_ber_min_warn_lo> ] [
<uncorrect_ber_max> ] [ <uncorrect_ber_max_flag> ] [ <uncorrect_ber_max_alm_hi> ] [
<uncorrect_ber_max_alm_lo> ] [ <uncorrect_ber_max_warn_hi> ] [ <uncorrect_ber_max_warn_lo> ] [
<uncorrect_ber_cur> ] [ <uncorrect_ber_cur_flag> ] [ <uncorrect_ber_cur_alm_hi> ] [
<uncorrect_ber_cur_alm_lo> ] [ <uncorrect_ber_cur_warn_hi> ] [ <uncorrect_ber_cur_warn_lo> ] ] ]

```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_transceiver</i>	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information

calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
sprom	(Optional) Show interface transceiver sprom information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>type</i>	(Optional) type
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_9</i>	(Optional) Link length supported for 9/125um fiber in Km
<i>len_9_2</i>	(Optional) Link length supported for 9/125um fiber in m
<i>len_50</i>	(Optional) Link length supported for 50/125um fiber in m
<i>len_625</i>	(Optional) Link length supported for 62.5/125um fiber in m
<i>len_cu</i>	(Optional) Link length supported for copper sfp in m
<i>len_50_OM3</i>	(Optional) Link length supported for 50/125um fiber in m
<i>txcvr_type</i>	(Optional)
<i>connector_type</i>	(Optional)
<i>bit_encoding</i>	(Optional)
<i>protocol_type</i>	(Optional)
<i>10gbe_code</i>	(Optional)
<i>fiber_type_byte0</i>	(Optional)
<i>fiber_type_byte1</i>	(Optional)
<i>tx_range</i>	(Optional)
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number

<i>cisco_part_number</i>	(Optional) Cisco part number
<i>cisco_product_id</i>	(Optional) Cisco product identifier
<i>cisco_vendor_id</i>	(Optional) Cisco vendor identifier
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0
TABLE_lane	(Optional) show lane
<i>lane_number</i>	(Optional) Lane number
<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_alm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alm_lo</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi</i>	(Optional) Temperature Warning High
<i>temp_warn_lo</i>	(Optional) Temperature Warning Low
<i>voltage</i>	(Optional) Voltage
<i>volt_flag</i>	(Optional) Voltage Flag
<i>volt_alm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alm_lo</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi</i>	(Optional) Voltage Warning High

<i>volt_warn_lo</i>	(Optional) Voltage Warning Low
<i>current</i>	(Optional) Current
<i>current_flag</i>	(Optional) Current Flag
<i>current_alm_hi</i>	(Optional) Current Alarm High
<i>current_alm_lo</i>	(Optional) Current Alarm Low
<i>current_warn_hi</i>	(Optional) Current Warning High
<i>current_warn_lo</i>	(Optional) Current Warning Low
<i>tx_pwr</i>	(Optional) Tx Power
<i>tx_pwr_flag</i>	(Optional) Tx Power Flag
<i>tx_pwr_alm_hi</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alm_lo</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo</i>	(Optional) Tx Power Warning Low
<i>rx_pwr</i>	(Optional) Rx Power
<i>rx_pwr_flag</i>	(Optional) Rx Power Flag
<i>rx_pwr_alm_hi</i>	(Optional) Rx Power Alarm High
<i>rx_pwr_alm_lo</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi</i>	(Optional) Rx Power Warning High
<i>rx_pwr_warn_lo</i>	(Optional) Rx Power Warning Low
<i>xmit_faults</i>	(Optional) Transmit Fault Count
<i>snr</i>	(Optional) RX Signal-to-Noise Ratio (SNR)
<i>snr_flag</i>	(Optional) SNR Flag
<i>snr_alm_hi</i>	(Optional) SNR Alarm High
<i>snr_alm_lo</i>	(Optional) SNR Alarm Low
<i>snr_warn_hi</i>	(Optional) SNR Warning High
<i>snr_warn_lo</i>	(Optional) SNR Warning Low
<i>isi</i>	(Optional) Residual-Dispersion(ISI)
<i>isi_flag</i>	(Optional) ISI Flag
<i>isi_alm_hi</i>	(Optional) ISI alarm high

<i>isi_alrm_lo</i>	(Optional) ISI alarm low
<i>isi_warn_hi</i>	(Optional) ISI warning high
<i>isi_warn_lo</i>	(Optional) ISI warning low
<i>pam</i>	(Optional) PAM Transition
<i>pam_flag</i>	(Optional) PAM Flag
<i>pam_alrm_hi</i>	(Optional) PAM alarm high
<i>pam_alrm_lo</i>	(Optional) PAM alarm low
<i>pam_warn_hi</i>	(Optional) PAM warning high
<i>pam_warn_lo</i>	(Optional) PAM warning low
<i>pre_fec_ber</i>	(Optional) Pre-FEC BER
<i>pre_fec_ber_flag</i>	(Optional) Pre-FEC BER flag
<i>pre_fec_ber_alrm_hi</i>	(Optional) Pre-FEC BER alarm high
<i>pre_fec_ber_alrm_lo</i>	(Optional) Pre-FEC BER alarm low
<i>pre_fec_ber_warn_hi</i>	(Optional) Pre-FEC BER warning high
<i>pre_fec_ber_warn_lo</i>	(Optional) Pre-FEC BER warning low
<i>uncorrect_ber</i>	(Optional) Uncorrected BER
<i>uncorrect_ber_flag</i>	(Optional) Uncorrected BER flag
<i>uncorrect_ber_alrm_hi</i>	(Optional) Uncorrected BER alarm high
<i>uncorrect_ber_alrm_lo</i>	(Optional) Uncorrected BER alarm low
<i>uncorrect_ber_warn_hi</i>	(Optional) Uncorrected BER warning high
<i>uncorrect_ber_warn_lo</i>	(Optional) Uncorrected BER warning low
<i>tec_current</i>	(Optional) TEC Current
<i>tec_current_flag</i>	(Optional) TEC Current flag
<i>tec_current_alrm_hi</i>	(Optional) TEC Current Alarm High
<i>tec_current_alrm_lo</i>	(Optional) TEC Current Alarm Low
<i>tec_current_warn_hi</i>	(Optional) TEC Current Warning High
<i>tec_current_warn_lo</i>	(Optional) TEC Current Warning Low
<i>laser_freq</i>	(Optional) Laser Frequency
<i>laser_freq_flag</i>	(Optional) Laser Frequency flag

<i>laser_freq_alrm_hi</i>	(Optional) Laser Frequency Alarm High
<i>laser_freq_alrm_lo</i>	(Optional) Laser Frequency Alarm Low
<i>laser_freq_warn_hi</i>	(Optional) Laser Frequency Warning High
<i>laser_freq_warn_lo</i>	(Optional) Laser Frequency Warning Low
<i>laser_temp</i>	(Optional) Laser Temperature
<i>laser_temp_flag</i>	(Optional) Laser Temperature flag
<i>laser_temp_alrm_hi</i>	(Optional) Laser Temperature Alarm High
<i>laser_temp_alrm_lo</i>	(Optional) Laser Temperature Alarm Low
<i>laser_temp_warn_hi</i>	(Optional) Laser Temperature Warning High
<i>laser_temp_warn_lo</i>	(Optional) Laser Temperature Warning Low
<i>pre_fec_ber_acc</i>	(Optional) Pre-FEC BER Acc
<i>pre_fec_ber_acc_flag</i>	(Optional) Pre-FEC BER Acc flag
<i>pre_fec_ber_acc_alrm_hi</i>	(Optional) Pre-FEC BER Acc alarm high
<i>pre_fec_ber_acc_alrm_lo</i>	(Optional) Pre-FEC BER Acc alarm low
<i>pre_fec_ber_acc_warn_hi</i>	(Optional) Pre-FEC BER Acc warning high
<i>pre_fec_ber_acc_warn_lo</i>	(Optional) Pre-FEC BER Acc warning low
<i>pre_fec_ber_min</i>	(Optional) Pre-FEC BER Min
<i>pre_fec_ber_min_flag</i>	(Optional) Pre-FEC BER Min flag
<i>pre_fec_ber_min_alrm_hi</i>	(Optional) Pre-FEC BER Min alarm high
<i>pre_fec_ber_min_alrm_lo</i>	(Optional) Pre-FEC BER Min alarm low
<i>pre_fec_ber_min_warn_hi</i>	(Optional) Pre-FEC BER Min warning high
<i>pre_fec_ber_min_warn_lo</i>	(Optional) Pre-FEC BER Min warning low
<i>pre_fec_ber_max</i>	(Optional) Pre-FEC BER Max
<i>pre_fec_ber_max_flag</i>	(Optional) Pre-FEC BER Max flag
<i>pre_fec_ber_max_alrm_hi</i>	(Optional) Pre-FEC BER Max alarm high
<i>pre_fec_ber_max_alrm_lo</i>	(Optional) Pre-FEC BER Max alarm low
<i>pre_fec_ber_max_warn_hi</i>	(Optional) Pre-FEC BER Max warning high
<i>pre_fec_ber_max_warn_lo</i>	(Optional) Pre-FEC BER Max warning low
<i>pre_fec_ber_cur</i>	(Optional) Pre-FEC BER Cur

<i>pre_fec_ber_cur_flag</i>	(Optional) Pre-FEC BER Cur flag
<i>pre_fec_ber_cur_alm_hi</i>	(Optional) Pre-FEC BER Cur alarm high
<i>pre_fec_ber_cur_alm_lo</i>	(Optional) Pre-FEC BER Cur alarm low
<i>pre_fec_ber_cur_warn_hi</i>	(Optional) Pre-FEC BER Cur warning high
<i>pre_fec_ber_cur_warn_lo</i>	(Optional) Pre-FEC BER Cur warning low
<i>uncorrect_ber_acc</i>	(Optional) Uncorrected BER Acc
<i>uncorrect_ber_acc_flag</i>	(Optional) Uncorrected BER Acc flag
<i>uncorrect_ber_acc_alm_hi</i>	(Optional) Uncorrected BER Acc alarm high
<i>uncorrect_ber_acc_alm_lo</i>	(Optional) Uncorrected BER Acc alarm low
<i>uncorrect_ber_acc_warn_hi</i>	(Optional) Uncorrected BER Acc warning high
<i>uncorrect_ber_acc_warn_lo</i>	(Optional) Uncorrected BER Acc warning low
<i>uncorrect_ber_min</i>	(Optional) Uncorrected BER Min
<i>uncorrect_ber_min_flag</i>	(Optional) Uncorrected BER Min flag
<i>uncorrect_ber_min_alm_hi</i>	(Optional) Uncorrected BER Min alarm high
<i>uncorrect_ber_min_alm_lo</i>	(Optional) Uncorrected BER Min alarm low
<i>uncorrect_ber_min_warn_hi</i>	(Optional) Uncorrected BER Min warning high
<i>uncorrect_ber_min_warn_lo</i>	(Optional) Uncorrected BER Min warning low
<i>uncorrect_ber_max</i>	(Optional) Uncorrected BER Max
<i>uncorrect_ber_max_flag</i>	(Optional) Uncorrected BER Max flag
<i>uncorrect_ber_max_alm_hi</i>	(Optional) Uncorrected BER Max alarm high
<i>uncorrect_ber_max_alm_lo</i>	(Optional) Uncorrected BER Max alarm low
<i>uncorrect_ber_max_warn_hi</i>	(Optional) Uncorrected BER Max warning high
<i>uncorrect_ber_max_warn_lo</i>	(Optional) Uncorrected BER Max warning low
<i>uncorrect_ber_cur</i>	(Optional) Uncorrected BER Cur
<i>uncorrect_ber_cur_flag</i>	(Optional) Uncorrected BER Cur flag
<i>uncorrect_ber_cur_alm_hi</i>	(Optional) Uncorrected BER Cur alarm high
<i>uncorrect_ber_cur_alm_lo</i>	(Optional) Uncorrected BER Cur alarm low
<i>uncorrect_ber_cur_warn_hi</i>	(Optional) Uncorrected BER Cur warning high
<i>uncorrect_ber_cur_warn_lo</i>	(Optional) Uncorrected BER Cur warning low

Command Mode

- /exec

show interface transceiver fex-fabric

```
show interface transceiver fex-fabric [ calibrations | details ] [ __readonly__ TABLE_interface <interface> ]
[ <sf> ] [ <type> ] [ <name> ] [ <partnum> ] [ <rev> ] [ <serialnum> ] [ <nom_bitrate> ] [ <len_50> ] [
<len_625> ] [ <ciscoid> ] [ <ciscoid_1> ] [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ] [ <volt_offset> ]
] [ <curr_slope> ] [ <curr_offset> ] [ <tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ]
[ <rx_pwr_2> ] [ <rx_pwr_1> ] [ <rx_pwr_0> ] [ <lane_number> ] [ <temperature> ] [ <temp_flag> ] [
<temp_alm_hi> ] [ <temp_alm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag> ]
] [ <volt_alm_hi> ] [ <volt_alm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag> ]
] [ <current_alm_hi> ] [ <current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [
<tx_pwr_flag> ] [ <tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ]
] [ <rx_pwr> ] [ <rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [
<rx_pwr_warn_lo> ] [ <xmit_faults> ] [ <snr> ] [ <snr_flag> ] [ <snr_alm_hi> ] [ <snr_alm_lo> ] [
<snr_warn_hi> ] [ <snr_warn_lo> ] [ <isi> ] [ <isi_flag> ] [ <isi_alm_hi> ] [ <isi_alm_lo> ] [ <isi_warn_hi> ]
] [ <isi_warn_lo> ] [ <pam> ] [ <pam_flag> ] [ <pam_alm_hi> ] [ <pam_alm_lo> ] [ <pam_warn_hi> ] [
<pam_warn_lo> ] [ <pre_fec_ber> ] [ <pre_fec_ber_flag> ] [ <pre_fec_ber_alm_hi> ] [ <pre_fec_ber_alm_lo> ]
] [ <pre_fec_ber_warn_hi> ] [ <pre_fec_ber_warn_lo> ] [ <uncorrect_ber> ] [ <uncorrect_ber_flag> ] [
<uncorrect_ber_alm_hi> ] [ <uncorrect_ber_alm_lo> ] [ <uncorrect_ber_warn_hi> ] [
<uncorrect_ber_warn_lo> ] [ <tec_current> ] [ <tec_current_flag> ] [ <tec_current_alm_hi> ] [
<tec_current_alm_lo> ] [ <tec_current_warn_hi> ] [ <tec_current_warn_lo> ] [ <laser_freq> ] [
<laser_freq_flag> ] [ <laser_freq_alm_hi> ] [ <laser_freq_alm_lo> ] [ <laser_freq_warn_hi> ] [
<laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [ <laser_temp_alm_hi> ] [
<laser_temp_alm_lo> ] [ <laser_temp_warn_hi> ] [ <laser_temp_warn_lo> ] [ <pre_fec_ber_acc> ] [
<pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alm_hi> ] [ <pre_fec_ber_acc_alm_lo> ] [
<pre_fec_ber_acc_warn_hi> ] [ <pre_fec_ber_acc_warn_lo> ] [ <pre_fec_ber_min> ] [ <pre_fec_ber_min_flag> ]
] [ <pre_fec_ber_min_alm_hi> ] [ <pre_fec_ber_min_alm_lo> ] [ <pre_fec_ber_min_warn_hi> ] [
<pre_fec_ber_min_warn_lo> ] [ <pre_fec_ber_max> ] [ <pre_fec_ber_max_flag> ] [
<pre_fec_ber_max_alm_hi> ] [ <pre_fec_ber_max_alm_lo> ] [ <pre_fec_ber_max_warn_hi> ] [
<pre_fec_ber_max_warn_lo> ] [ <pre_fec_ber_cur> ] [ <pre_fec_ber_cur_flag> ] [ <pre_fec_ber_cur_alm_hi> ]
] [ <pre_fec_ber_cur_alm_lo> ] [ <pre_fec_ber_cur_warn_hi> ] [ <pre_fec_ber_cur_warn_lo> ] [
<uncorrect_ber_acc> ] [ <uncorrect_ber_acc_flag> ] [ <uncorrect_ber_acc_alm_hi> ] [
<uncorrect_ber_acc_alm_lo> ] [ <uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [
<uncorrect_ber_min> ] [ <uncorrect_ber_min_flag> ] [ <uncorrect_ber_min_alm_hi> ] [
<uncorrect_ber_min_alm_lo> ] [ <uncorrect_ber_min_warn_hi> ] [ <uncorrect_ber_min_warn_lo> ] [
<uncorrect_ber_max> ] [ <uncorrect_ber_max_flag> ] [ <uncorrect_ber_max_alm_hi> ] [
<uncorrect_ber_max_alm_lo> ] [ <uncorrect_ber_max_warn_hi> ] [ <uncorrect_ber_max_warn_lo> ] [
<uncorrect_ber_cur> ] [ <uncorrect_ber_cur_flag> ] [ <uncorrect_ber_cur_alm_hi> ] [
<uncorrect_ber_cur_alm_lo> ] [ <uncorrect_ber_cur_warn_hi> ] [ <uncorrect_ber_cur_warn_lo> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
transceiver	Show interface transceiver information
fex-fabric	Show FEX interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information

<i>details</i>	(Optional) Show interface transceiver detail information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_ <i>interface</i>	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>type</i>	(Optional) type
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_50</i>	(Optional) Link length supported for 50/125mm fiber
<i>len_625</i>	(Optional) Link length supported for 62.5/125mm fiber
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0
<i>lane_number</i>	(Optional) Lane number

<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_alarm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alarm_lo</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi</i>	(Optional) Temperature Warning High
<i>temp_warn_lo</i>	(Optional) Temperature Warning Low
<i>voltage</i>	(Optional) Voltage
<i>volt_flag</i>	(Optional) Voltage Flag
<i>volt_alarm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alarm_lo</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi</i>	(Optional) Voltage Warning High
<i>volt_warn_lo</i>	(Optional) Voltage Warning Low
<i>current</i>	(Optional) Current
<i>current_flag</i>	(Optional) Current Flag
<i>current_alarm_hi</i>	(Optional) Current Alarm High
<i>current_alarm_lo</i>	(Optional) Current Alarm Low
<i>current_warn_hi</i>	(Optional) Current Warning High
<i>current_warn_lo</i>	(Optional) Current Warning Low
<i>tx_pwr</i>	(Optional) Tx Power
<i>tx_pwr_flag</i>	(Optional) Tx Power Flag
<i>tx_pwr_alarm_hi</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alarm_lo</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo</i>	(Optional) Tx Power Warning Low
<i>rx_pwr</i>	(Optional) Rx Power
<i>rx_pwr_flag</i>	(Optional) Rx Power Flag
<i>rx_pwr_alarm_hi</i>	(Optional) Rx Power Alarm High
<i>rx_pwr_alarm_lo</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi</i>	(Optional) Rx Power Warning High

<i>rx_pwr_warn_lo</i>	(Optional) Rx Power Warning Low
<i>xmit_faults</i>	(Optional) Transmit Fault Count
<i>snr</i>	(Optional) RX Signal-to-Noise Ratio (SNR)
<i>snr_flag</i>	(Optional) SNR Flag
<i>snr_alm_hi</i>	(Optional) SNR Alarm High
<i>snr_alm_lo</i>	(Optional) SNR Alarm Low
<i>snr_warn_hi</i>	(Optional) SNR Warning High
<i>snr_warn_lo</i>	(Optional) SNR Warning Low
<i>isi</i>	(Optional) Residual-Dispersion(ISI)
<i>isi_flag</i>	(Optional) ISI Flag
<i>isi_alm_hi</i>	(Optional) ISI alarm high
<i>isi_alm_lo</i>	(Optional) ISI alarm low
<i>isi_warn_hi</i>	(Optional) ISI warning high
<i>isi_warn_lo</i>	(Optional) ISI warning low
<i>pam</i>	(Optional) PAM Transition
<i>pam_flag</i>	(Optional) PAM Flag
<i>pam_alm_hi</i>	(Optional) PAM alarm high
<i>pam_alm_lo</i>	(Optional) PAM alarm low
<i>pam_warn_hi</i>	(Optional) PAM warning high
<i>pam_warn_lo</i>	(Optional) PAM warning low
<i>pre_fec_ber</i>	(Optional) Pre-FEC BER
<i>pre_fec_ber_flag</i>	(Optional) Pre-FEC BER flag
<i>pre_fec_ber_alm_hi</i>	(Optional) Pre-FEC BER alarm high
<i>pre_fec_ber_alm_lo</i>	(Optional) Pre-FEC BER alarm low
<i>pre_fec_ber_warn_hi</i>	(Optional) Pre-FEC BER warning high
<i>pre_fec_ber_warn_lo</i>	(Optional) Pre-FEC BER warning low
<i>uncorrect_ber</i>	(Optional) Uncorrected BER
<i>uncorrect_ber_flag</i>	(Optional) Uncorrected BER flag
<i>uncorrect_ber_alm_hi</i>	(Optional) Uncorrected BER alarm high

<i>uncorrect_ber_alm_lo</i>	(Optional) Uncorrected BER alarm low
<i>uncorrect_ber_warn_hi</i>	(Optional) Uncorrected BER warning high
<i>uncorrect_ber_warn_lo</i>	(Optional) Uncorrected BER warning low
<i>tec_current</i>	(Optional) TEC Current
<i>tec_current_flag</i>	(Optional) TEC Current flag
<i>tec_current_alm_hi</i>	(Optional) TEC Current Alarm High
<i>tec_current_alm_lo</i>	(Optional) TEC Current Alarm Low
<i>tec_current_warn_hi</i>	(Optional) TEC Current Warning High
<i>tec_current_warn_lo</i>	(Optional) TEC Current Warning Low
<i>laser_freq</i>	(Optional) Laser Frequency
<i>laser_freq_flag</i>	(Optional) Laser Frequency flag
<i>laser_freq_alm_hi</i>	(Optional) Laser Frequency Alarm High
<i>laser_freq_alm_lo</i>	(Optional) Laser Frequency Alarm Low
<i>laser_freq_warn_hi</i>	(Optional) Laser Frequency Warning High
<i>laser_freq_warn_lo</i>	(Optional) Laser Frequency Warning Low
<i>laser_temp</i>	(Optional) Laser Temperature
<i>laser_temp_flag</i>	(Optional) Laser Temperature flag
<i>laser_temp_alm_hi</i>	(Optional) Laser Temperature Alarm High
<i>laser_temp_alm_lo</i>	(Optional) Laser Temperature Alarm Low
<i>laser_temp_warn_hi</i>	(Optional) Laser Temperature Warning High
<i>laser_temp_warn_lo</i>	(Optional) Laser Temperature Warning Low
<i>pre_fec_ber_acc</i>	(Optional) Pre-FEC BER Acc
<i>pre_fec_ber_acc_flag</i>	(Optional) Pre-FEC BER Acc flag
<i>pre_fec_ber_acc_alm_hi</i>	(Optional) Pre-FEC BER Acc alarm high
<i>pre_fec_ber_acc_alm_lo</i>	(Optional) Pre-FEC BER Acc alarm low
<i>pre_fec_ber_acc_warn_hi</i>	(Optional) Pre-FEC BER Acc warning high
<i>pre_fec_ber_acc_warn_lo</i>	(Optional) Pre-FEC BER Acc warning low
<i>pre_fec_ber_min</i>	(Optional) Pre-FEC BER Min
<i>pre_fec_ber_min_flag</i>	(Optional) Pre-FEC BER Min flag

<i>pre_fec_ber_min_alrm_hi</i>	(Optional) Pre-FEC BER Min alarm high
<i>pre_fec_ber_min_alrm_lo</i>	(Optional) Pre-FEC BER Min alarm low
<i>pre_fec_ber_min_warn_hi</i>	(Optional) Pre-FEC BER Min warning high
<i>pre_fec_ber_min_warn_lo</i>	(Optional) Pre-FEC BER Min warning low
<i>pre_fec_ber_max</i>	(Optional) Pre-FEC BER Max
<i>pre_fec_ber_max_flag</i>	(Optional) Pre-FEC BER Max flag
<i>pre_fec_ber_max_alrm_hi</i>	(Optional) Pre-FEC BER Max alarm high
<i>pre_fec_ber_max_alrm_lo</i>	(Optional) Pre-FEC BER Max alarm low
<i>pre_fec_ber_max_warn_hi</i>	(Optional) Pre-FEC BER Max warning high
<i>pre_fec_ber_max_warn_lo</i>	(Optional) Pre-FEC BER Max warning low
<i>pre_fec_ber_cur</i>	(Optional) Pre-FEC BER Cur
<i>pre_fec_ber_cur_flag</i>	(Optional) Pre-FEC BER Cur flag
<i>pre_fec_ber_cur_alrm_hi</i>	(Optional) Pre-FEC BER Cur alarm high
<i>pre_fec_ber_cur_alrm_lo</i>	(Optional) Pre-FEC BER Cur alarm low
<i>pre_fec_ber_cur_warn_hi</i>	(Optional) Pre-FEC BER Cur warning high
<i>pre_fec_ber_cur_warn_lo</i>	(Optional) Pre-FEC BER Cur warning low
<i>uncorrect_ber_acc</i>	(Optional) Uncorrected BER Acc
<i>uncorrect_ber_acc_flag</i>	(Optional) Uncorrected BER Acc flag
<i>uncorrect_ber_acc_alrm_hi</i>	(Optional) Uncorrected BER Acc alarm high
<i>uncorrect_ber_acc_alrm_lo</i>	(Optional) Uncorrected BER Acc alarm low
<i>uncorrect_ber_acc_warn_hi</i>	(Optional) Uncorrected BER Acc warning high
<i>uncorrect_ber_acc_warn_lo</i>	(Optional) Uncorrected BER Acc warning low
<i>uncorrect_ber_min</i>	(Optional) Uncorrected BER Min
<i>uncorrect_ber_min_flag</i>	(Optional) Uncorrected BER Min flag
<i>uncorrect_ber_min_alrm_hi</i>	(Optional) Uncorrected BER Min alarm high
<i>uncorrect_ber_min_alrm_lo</i>	(Optional) Uncorrected BER Min alarm low
<i>uncorrect_ber_min_warn_hi</i>	(Optional) Uncorrected BER Min warning high
<i>uncorrect_ber_min_warn_lo</i>	(Optional) Uncorrected BER Min warning low
<i>uncorrect_ber_max</i>	(Optional) Uncorrected BER Max

<i>uncorrect_ber_max_flag</i>	(Optional) Uncorrected BER Max flag
<i>uncorrect_ber_max_alm_hi</i>	(Optional) Uncorrected BER Max alarm high
<i>uncorrect_ber_max_alm_lo</i>	(Optional) Uncorrected BER Max alarm low
<i>uncorrect_ber_max_warn_hi</i>	(Optional) Uncorrected BER Max warning high
<i>uncorrect_ber_max_warn_lo</i>	(Optional) Uncorrected BER Max warning low
<i>uncorrect_ber_cur</i>	(Optional) Uncorrected BER Cur
<i>uncorrect_ber_cur_flag</i>	(Optional) Uncorrected BER Cur flag
<i>uncorrect_ber_cur_alm_hi</i>	(Optional) Uncorrected BER Cur alarm high
<i>uncorrect_ber_cur_alm_lo</i>	(Optional) Uncorrected BER Cur alarm low
<i>uncorrect_ber_cur_warn_hi</i>	(Optional) Uncorrected BER Cur warning high
<i>uncorrect_ber_cur_warn_lo</i>	(Optional) Uncorrected BER Cur warning low

Command Mode

- /exec

show interface transceiver fex-fabric

```
show interface <ifeth_trans> transceiver fex-fabric [ calibrations | details ] [ __readonly__ TABLE_interface
<interface> <sfp> <name> <partnum> <rev> <serialnum> <nom_bitrate> <len_50> <len_625> <ciscoid>
<ciscoid_1> [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ] [ <volt_offset> ] [ <curr_slope> ] [
<curr_offset> ] [ <tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ] [ <rx_pwr_2> ] [
<rx_pwr_1> ] [ <rx_pwr_0> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_trans</i>	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
fex-fabric	Show FEX interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_50</i>	(Optional) Link length supported for 50/125mm fiber
<i>len_625</i>	(Optional) Link length supported for 62.5/125mm fiber
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope

<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0

Command Mode

- /exec

show interface trunk

```
show interface trunk [ module <module> | vlan <vlan_id> | fex <fex_num> ] [ __readonly__ { TABLE_interface
<interface> <native> <status> <portchannel> } { TABLE_allowed_vlans <interface> <allowedvlans> } {
TABLE_errored_vlans <interface> <erroredvlans> } { TABLE_stp_forward <interface> <stpfwd_vlans> }
{ TABLE_fabricpath_vlans <interface> <fabricpath_vlans> } { TABLE_vtp_pruning <interface>
<vtppruning_vlans> } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
trunk	Show interface trunk information
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
fex	(Optional) Limit display to interfaces on a FEX
<i>fex_num</i>	(Optional) Enter FEX number
vlan	(Optional) Show per vlan information for trunk
<i>vlan_id</i>	(Optional) Enter vlan range
<i>interface</i>	(Optional) Interface index
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface	(Optional) show interface
TABLE_allowed_vlans	(Optional) show allowed vlans
TABLE_errored_vlans	(Optional) show errored vlans
TABLE_stp_forward	(Optional) show STP forwarding VLANs
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs
<i>status</i>	(Optional) Status
<i>native</i>	(Optional) Native VLAN
<i>portchannel</i>	(Optional) Port Channel
<i>allowedvlans</i>	(Optional) VLANs allowed and active in management domain
<i>erroredvlans</i>	(Optional) Errored VLANs
<i>stpfwd_vlans</i>	(Optional) STP Forwarding VLANs

<i>fabricpath_vlans</i>	(Optional) FabricPath VLANs
<i>vtp pruning_vlans</i>	(Optional) VTP Pruning VLANs

Command Mode

- /exec

show interface trunk

```
show interface <ifeth_trnk> trunk [ __readonly__ { TABLE_interface <interface> <native> <status>
<portchannel> } { TABLE_allowed_vlans <interface> <allowedvlans> } { TABLE_errored_vlans <interface>
<erroredvlans> } { TABLE_stp_forward <interface> <stpfwd_vlans> } { TABLE_fabricpath_vlans <interface>
<fabricpath_vlans> } { TABLE_vtp_pruning <interface> <vtppruning_vlans> } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_trnk</i>	Enter interface type and number in module/slot format
trunk	Show interface trunk information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
TABLE_allowed_vlans	(Optional) show allowed vlans
TABLE_errored_vlans	(Optional) show errored vlans
TABLE_stp_forward	(Optional) show STP forwarding VLANs
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs
<i>status</i>	(Optional) Status
<i>native</i>	(Optional) Native VLAN
<i>portchannel</i>	(Optional) Port Channel
<i>allowedvlans</i>	(Optional) VLANs allowed and active in management domain
<i>erroredvlans</i>	(Optional) Errored VLANs
<i>stpfwd_vlans</i>	(Optional) STP Forwarding VLANs
<i>fabricpath_vlans</i>	(Optional) FabricPath VLANs
<i>vtppruning_vlans</i>	(Optional) VTP Pruning VLANs

Command Mode

- /exec

show interface untagged-cos

```
show interface untagged-cos [ module <mod_num> ] [ __readonly__ <interface> <ucos-value> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
untagged-cos	Show interface untagged CoS information
module	(Optional) Limit display to interfaces on module
<i>mod_num</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Interface index
<i>ucos-value</i>	(Optional) COS value

Command Mode

- /exec

show interface vlan mapping

```
show interface <ifindex> vlan mapping [ __readonly__ <if-index-id> { TABLE_vlan_xlt <orig-vlan-id>
<inner-vlan-id> <xlt-vlan-id> } <show-end> [ <true-end> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifindex</i>	Enter interface type and number in module/slot format
vlan	Show VLAN information
mapping	VLAN translation mapping
<i>__readonly__</i>	(Optional) Read Only
TABLE_vlan_xlt	(Optional) Vlan translation table
<i>if-index-id</i>	(Optional) Interface index id
<i>orig-vlan-id</i>	(Optional) Original Vlan Id
<i>inner-vlan-id</i>	(Optional) Inner Vlan Id
<i>xlt-vlan-id</i>	(Optional) Translated Vlan Id
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

Command Mode

- /exec

show inventory

```
show inventory [ chassis | fans | power_supply | module [ <module> ] | <s0> [ <santa-cruz-range> ] | all ] [
__readonly__ TABLE_inv <name> <desc> <productid> <vendorid> <serialnum> ]
```

Syntax Description

show	Show running system information
inventory	system inventory information
chassis	(Optional) system inventory chassis information
fans	(Optional) system inventory fan information
power_supply	(Optional) system inventory power supply information
module	(Optional) system inventory module information
<i>module</i>	(Optional) please enter the module number
<i>s0</i>	(Optional) please enter the module number
<i>santa-cruz-range</i>	(Optional) please enter the xbar number
all	(Optional) system and transceiver inventory information
<u>__readonly__</u>	(Optional)
TABLE_inv	(Optional) Inventory table
<i>name</i>	(Optional) Name of inventory
<i>desc</i>	(Optional) Description of inventory
<i>productid</i>	(Optional) Product ID
<i>vendorid</i>	(Optional) Vendor ID
<i>serialnum</i>	(Optional) Serial Number

Command Mode

- /exec

show inventory fex

```
show inventory fex <i> [ __readonly__ TABLE_inv <name> <desc> <productid> <vendorid> <serialnum> ]
```

Syntax Description

show	Show running system information
inventory	system inventory information
fex	Show fex physical inventory
<i>i</i>	Enter FEX identifier
<i>__readonly__</i>	(Optional)
<i>TABLE_inv</i>	(Optional) Inventory table
<i>name</i>	(Optional) Name of inventory
<i>desc</i>	(Optional) Description of inventory
<i>productid</i>	(Optional) Product ID
<i>vendorid</i>	(Optional) Vendor ID
<i>serialnum</i>	(Optional) Serial Number

Command Mode

- /exec

<i>global_punt_pkt_cnt</i>	(Optional)
<i>global_punt_byte_cnt</i>	(Optional)
<i>global_glean_pkt_cnt</i>	(Optional)
<i>global_glean_byte_cnt</i>	(Optional)
<i>glean_pkt_cnt</i>	(Optional)
<i>glean_byte_cnt</i>	(Optional)
<i>normal_pkt_cnt</i>	(Optional)
<i>normal_byte_cnt</i>	(Optional)
<i>last_updated</i>	(Optional)
<i>count-static</i>	(Optional)
<i>count-dynamic</i>	(Optional)
<i>count-others</i>	(Optional)
<i>count-throttle</i>	(Optional)
<i>count-total</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
<i>count</i>	(Optional)
TABLE_adj	(Optional)
<i>intf-out</i>	(Optional)
<i>phy-intf</i>	(Optional)
<i>ip-addr-out</i>	(Optional)
<i>mac</i>	(Optional)
<i>pref</i>	(Optional)
<i>owner</i>	(Optional)
<i>pkt-count</i>	(Optional)
<i>byte-count</i>	(Optional)
<i>is-best</i>	(Optional)
<i>is-thrtld</i>	(Optional)

Command Mode

- /exec

show ip amt relay

```
show { ip | ipv6 } amt relay [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf>
<tut> <ra> <nds> <ldn> <nts> <lrn> <lra> <lq> <uc> <rc4> <rc6> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
amt	AMT show commands
relay	Display status information about the AMT Relay
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>tut</i>	(Optional)
<i>ra</i>	(Optional)
<i>vrf</i>	(Optional)
<i>nds</i>	(Optional)
<i>ldn</i>	(Optional)
<i>nts</i>	(Optional)
<i>lrn</i>	(Optional)
<i>lra</i>	(Optional)
<i>lq</i>	(Optional)
<i>uc</i>	(Optional)
<i>rc4</i>	(Optional)
<i>rc6</i>	(Optional)

Command Mode

- /exec

show ip amt route

```
show { ip | ipv6 } amt route [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf>
<rc4> <rc6> { TABLE_route <addrs> <if> <nbr> <gwa> <gw_exp> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
amt	AMT show commands
route	Display multicast routes learned via AMT
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>rc4</i>	(Optional)
<i>rc6</i>	(Optional)
TABLE_route	(Optional)
<i>addrs</i>	(Optional)
<i>if</i>	(Optional)
<i>nbr</i>	(Optional)
<i>gwa</i>	(Optional)
<i>gw_exp</i>	(Optional)

Command Mode

- /exec

show ip amt tunnel

```
show ip amt tunnel [ <address4> <port> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__
TABLE_vrf <vrf> <tc4> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route
<source> <group> <rexp> } } ]
```

Syntax Description

show	Show running system information
amt	AMT show commands
ip	Display IP information
tunnel	Display tunnel information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>address4</i>	(Optional) IP address of tunnel endpoint
<i>port</i>	(Optional) UDP port number of gateway
detail	(Optional) Display routes joined by tunnel endpoint
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>tc4</i>	(Optional)
TABLE_tunnel	(Optional)
<i>gwa</i>	(Optional)
<i>gwp</i>	(Optional)
<i>ut</i>	(Optional)
<i>ld</i>	(Optional)
<i>lr</i>	(Optional)
<i>rc</i>	(Optional)
<i>exp</i>	(Optional)
TABLE_route	(Optional)
<i>source</i>	(Optional)

<i>group</i>	(Optional)
<i>rexp</i>	(Optional)

Command Mode

- /exec

show ip arp

```
show ip arp [ [ [ <ip-address> | [ sync-entries | fhrp-non-active-learn ] [ detail ] | static | summary | [ summary
] <interface> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ] [ __readonly__ TABLE_vrf <vrf-name-out>
[ <cnt-resolved> ] [ <cnt-incomplete> ] [ <cnt-thrtld-incomplete> ] [ <cnt-unknown> ] [ <cnt-total> ] [
TABLE_adj <intf-out> <ip-addr-out> [ <time-stamp> ] <mac> [ <phy-intf> ] [ <unknown> ] [ <incomplete>
] [ <flags> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
summary	(Optional) Display ARP adjacency summary
detail	(Optional) Display detailed information
sync-entries	(Optional) Display ARP table learnt only due to arp table sync
fhrp-non-active-learn	(Optional) Display ARP table learnt only due to request for non-active FHRP address
<i>interface</i>	(Optional) ARP interface
<i>ip-address</i>	(Optional) IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP entries for all vrfs
static	(Optional) Display Static ARP entries
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>cnt-resolved</i>	(Optional)
<i>cnt-incomplete</i>	(Optional)
<i>cnt-thrtld-incomplete</i>	(Optional)
<i>cnt-unknown</i>	(Optional)
<i>cnt-total</i>	(Optional)

TABLE_adj	(Optional)
<i>intf-out</i>	(Optional)
<i>ip-addr-out</i>	(Optional)
<i>time-stamp</i>	(Optional)
<i>mac</i>	(Optional)
<i>phy-intf</i>	(Optional)
<i>unknown</i>	(Optional)
<i>incomplete</i>	(Optional)
<i>flags</i>	(Optional)

Command Mode

- /exec

show ip arp anycast topo-info

```
show ip arp anycast topo-info [ <topo-id> ] [ __readonly__ { TABLE_ip_arp_anycast_topo_info [
<ip_arp_anycat_topo_id> ] [ <ip_arp_anycast_feature> ] [ <ip_arp_anycast_mode> ] } ]
```

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
anycast	anycast feature info
topo-info	Per topology specific information
<i>topo-id</i>	(Optional) Topology ID (VLAN-ID or BD-ID)
<i>__readonly__</i>	(Optional)
<i>TABLE_ip_arp_anycast_topo_info</i>	(Optional) Show ip arp anycast topo-info
<i>ip_arp_anycat_topo_id</i>	(Optional)
<i>ip_arp_anycast_feature</i>	(Optional)
<i>ip_arp_anycast_mode</i>	(Optional)

Command Mode

- /exec

show ip arp cache

show ip arp cache { { brief | detail } | { interface [<intf>] } } [operational]

Syntax Description

show	Show running system information
ip	Display IP information
arp	arp
cache	Display ip arp cache
interface	Display ip arp related interface information
brief	Display summary of arp interface status and configuration
detail	Display detailed information of arp interface status and configuration
operational	(Optional) Display only interfaces that are administratively enabled
<i>intf</i>	(Optional) Interface name to display

Command Mode

- /exec

show ip arp client

```
show ip arp client [ __readonly__ { <arp-clients> } [ TABLE_arp_client_list { <arp-cli-uuid> <l2-client-type>
<client-flg> <mts-addr-sap> <cli-msg-cnt> [ <l2-cli-func-name> ] [ <l2-cli-dbg-func> ] [
<l2-cli-dbg-un-init-func> ] } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
client	Display ARP Client table
<i>__readonly__</i>	(Optional)
<i>arp-clients</i>	(Optional)
TABLE_arp_client_list	(Optional)
<i>arp-cli-uuid</i>	(Optional)
<i>l2-client-type</i>	(Optional)
<i>client-flg</i>	(Optional)
<i>mts-addr-sap</i>	(Optional)
<i>cli-msg-cnt</i>	(Optional)
<i>l2-cli-func-name</i>	(Optional)
<i>l2-cli-dbg-func</i>	(Optional)
<i>l2-cli-dbg-un-init-func</i>	(Optional)

Command Mode

- /exec

show ip arp controller-statistics

```
show ip arp controller-statistics [ __readonly__ { TABLE_ip_arp_controller_statistics [
<arp_adj_controller_add_count> ][ <arp_adj_controller_del_count> ][ <arp_adj_controller_add_err_count>
][ <arp_adj_controller_del_err> ] } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
controller-statistics	Controller statistics
__readonly__	(Optional)
TABLE_ip_arp_controller_statistics	(Optional) Show controller-statistics
<i>arp_adj_controller_add_count</i>	(Optional)
<i>arp_adj_controller_del_count</i>	(Optional)
<i>arp_adj_controller_add_err_count</i>	(Optional)
<i>arp_adj_controller_del_err</i>	(Optional)

Command Mode

- /exec

show ip arp esi

```
show ip arp esi [ __readonly__ { TABLE_ip_arp_esi [ <ip_arp_esi_interface> ] [ <ip_arp_esi_value> ] } ]
```

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
esi	ESI information
__readonly__	(Optional)
TABLE_ip_arp_esi	(Optional) Show ip arp esi
<i>ip_arp_esi_interface</i>	(Optional)
<i>ip_arp_esi_value</i>	(Optional)

Command Mode

- /exec

show ip arp inspection

```
show ip arp inspection [ __readonly__ <src_mac_valid> <dest_mac_valid> <ip_addr_valid> TABLE_entry
<active_vlan_id> <is_insp_enabled> <oper_state> <acl_name> <is_static_acl> <acl_logging> <dhcp_logging>
<req_fwded> <res_fwded> <req_dropped> <res_dropped> <dhcp_drops> <acl_drops> <dhcp_permits>
<acl_permits> <req_smac_fails> <res_smac_fails> <res_dmac_fails> <req_ip_fails> <res_ip_fails> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
<i>__readonly__</i>	(Optional)
<i>src_mac_valid</i>	(Optional)
<i>dest_mac_valid</i>	(Optional)
<i>ip_addr_valid</i>	(Optional)
TABLE_entry	(Optional)
<i>active_vlan_id</i>	(Optional)
<i>is_insp_enabled</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>acl_name</i>	(Optional)
<i>is_static_acl</i>	(Optional)
<i>acl_logging</i>	(Optional)
<i>dhcp_logging</i>	(Optional)

Command Mode

- /exec

show ip arp inspection interfaces

```
show ip arp inspection interfaces [ <intf1> ] [ __readonly__ TABLE_intf <intf_header> <intf2> <trust_state> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
interfaces	Trust status of all interfaces
<i>intf1</i>	(Optional) interface
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional)
<i>intf_header</i>	(Optional)
<i>intf2</i>	(Optional)
<i>trust_state</i>	(Optional)

Command Mode

- /exec

show ip arp inspection log

```
show ip arp inspection log [ __readonly__ <log_buff_size> <log_rate_entries> <log_rate_interval> <log_frame>
]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
log	Log Buffer
<i>__readonly__</i>	(Optional)
<i>log_buff_size</i>	(Optional)
<i>log_rate_entries</i>	(Optional)
<i>log_rate_interval</i>	(Optional)
<i>log_frame</i>	(Optional)

Command Mode

- /exec

show ip arp inspection statistics

```
show ip arp inspection statistics [ vlan <vlan-range> ] [ __readonly__ TABLE_stats <vlanid> <req_fwded>
<res_fwded> <req_dropped> <res_dropped> <dhcp_drops> [ <acl_drops> ] <dhcp_permits> [ <acl_permits>
] <req_smac_fails> <res_smac_fails> <res_dmac_fails> <req_ip_fails> <res_ip_fails> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
statistics	Status of ARP Inspection
vlan	(Optional) Selected vlan range
<i>vlan-range</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>	(Optional)
TABLE_stats	(Optional)
<i>vlanid</i>	(Optional)

Command Mode

- /exec

show ip arp inspection vlan

```
show ip arp inspection vlan <vlan-range> [ __readonly__ <src_mac_valid> <dest_mac_valid> <ip_addr_valid>
TABLE_vlan <active_vlan_id> <is_insp_enabled> <oper_state> <acl_name> <is_static_acl> <acl_logging>
<dhcp_logging> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
vlan	Selected vlan range
<i>vlan-range</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>	(Optional)
<i>src_mac_valid</i>	(Optional)
<i>dest_mac_valid</i>	(Optional)
<i>ip_addr_valid</i>	(Optional)
TABLE_vlan	(Optional)
<i>active_vlan_id</i>	(Optional)
<i>is_insp_enabled</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>acl_name</i>	(Optional)
<i>is_static_acl</i>	(Optional)
<i>acl_logging</i>	(Optional)
<i>dhcp_logging</i>	(Optional)

Command Mode

- /exec

show ip arp multihoming-statistics

```
show ip arp multihoming-statistics [ <interface> ] [ interface-all ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] [ __readonly__ TABLE_vrf <vrf-name-out2> TABLE_stat <ps-recv-add-l2rib> <ps-recv-del-l2rib>
<ps-recv-remote-upd-l2rib> <ps-recv-pc-shut-l2rib> <ps-proc-add-l2rib> <ps-proc-del-l2rib>
<ps-proc-remote-upd-l2rib> <ps-proc-pc-shut-l2rib> <ps-add-err-invalid-flags> <ps-del-err-invalid-flags>
<ps-add-err-invalid-curr-state> <ps-del-err-invalid-curr-state> <ps-del-err-mac-mismatch> <ps-del-err-tl-route>
<tl-del-err-psro-route> <ps-del-err-sec-del> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
multihoming-statistics	Display ARP Multihoming stats
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP Multihoming statistics for all vrfs
interface-all	(Optional) Display ARP Multihoming statistics for all interface
<i>interface</i>	(Optional) ARP interface
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out2</i>	(Optional)
TABLE_stat	(Optional)
<i>ps-recv-add-l2rib</i>	(Optional)
<i>ps-recv-del-l2rib</i>	(Optional)
<i>ps-recv-remote-upd-l2rib</i>	(Optional)
<i>ps-recv-pc-shut-l2rib</i>	(Optional)
<i>ps-proc-add-l2rib</i>	(Optional)
<i>ps-proc-del-l2rib</i>	(Optional)
<i>ps-proc-remote-upd-l2rib</i>	(Optional)
<i>ps-proc-pc-shut-l2rib</i>	(Optional)

<i>ps-add-err-invalid-flags</i>	(Optional)
<i>ps-del-err-invalid-flags</i>	(Optional)
<i>ps-add-err-invalid-curr-state</i>	(Optional)
<i>ps-del-err-invalid-curr-state</i>	(Optional)
<i>ps-del-err-mac-mismatch</i>	(Optional)
<i>ps-del-err-tl-route</i>	(Optional)
<i>tl-del-err-psro-route</i>	(Optional)
<i>ps-del-err-sec-del</i>	(Optional)

Command Mode

- /exec

show ip arp off-list

```
show ip arp off-list [ { vlan | bdi } <vlan-id> ] [ __readonly__ [ <offlist-vlan-id> <vlan-adj-cnt> ] [
<arp-sync-adj-cnt> ] { TABLE_arp_vlan_list <adj-vlan-id> <off-adj-ip-addr> <time-stamp> <arp-mac-addr>
<off-adj-flags> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
off-list	Show adjacencies in off-list arp database
vlan	(Optional) Vlan id
bdi	(Optional) Bridge Domain Name/Id
<i>vlan-id</i>	(Optional) Show information for specified vlan
<i>__readonly__</i>	(Optional)
<i>offlist-vlan-id</i>	(Optional)
<i>vlan-adj-cnt</i>	(Optional)
<i>arp-sync-adj-cnt</i>	(Optional)
TABLE_arp_vlan_list	(Optional)
<i>adj-vlan-id</i>	(Optional)
<i>off-adj-ip-addr</i>	(Optional)
<i>time-stamp</i>	(Optional)
<i>arp-mac-addr</i>	(Optional)
<i>off-adj-flags</i>	(Optional)

Command Mode

- /exec

show ip arp open-flow error-statistics

```
show ip arp open-flow error-statistics [ __readonly__ { TABLE_ip_arp_open_flow_error_statistics [
<arp_ofa_total_err_cnt> ] [ <arp_ofa_dp_adj_err_on_del> ] [ <arp_ofa_cp_mac_mismatch_err_on_del> ] [
<arp_ofa_cp_null_mac_err_on_del> ] [ <arp_ofa_cp_no_adj_err_on_del_flag> ] [
<arp_ofa_cp_cp_nh_mismatch_err_on_del> ] [ <arp_ofa_cp_adj_del_failure_err> ] [
<arp_ofa_cp_null_mac_err_on_add> ] [ <arp_ofa_cp_dp_mac_mismatch_err_on_add> ] [
<arp_ofa_cp_cp_mac_mismatch_err_on_add> ] [ <arp_ofa_cp_added_first_err> ] [
<arp_ofa_dp_overwrite_cp_err> ] [ <arp_ofa_dp_cp_nh_mismatch_err_on_add> ] [
<arp_ofa_cp_cp_nh_mismatch_err_on_add> ] [ <arp_ofa_cp_dp_nh_mismatch_err_on_add> ] [
<arp_ofa_cp_adj_add_failure_err> ] [ <arp_ofa_barrier_response_err> ] } ]
```

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
open-flow	open flow
error-statistics	IR mode specific adjacency statistics
<u>__readonly__</u>	(Optional)
TABLE_ip_arp_open_flow_error_statistics	(Optional) Arp OFA stats
<i>arp_ofa_total_err_cnt</i>	(Optional)
<i>arp_ofa_dp_adj_err_on_del</i>	(Optional)
<i>arp_ofa_cp_mac_mismatch_err_on_del</i>	(Optional)
<i>arp_ofa_cp_null_mac_err_on_del</i>	(Optional)
<i>arp_ofa_cp_no_adj_err_on_del_flag</i>	(Optional)
<i>arp_ofa_cp_cp_nh_mismatch_err_on_del</i>	(Optional)
<i>arp_ofa_cp_adj_del_failure_err</i>	(Optional)
<i>arp_ofa_cp_null_mac_err_on_add</i>	(Optional)
<i>arp_ofa_cp_dp_mac_mismatch_err_on_add</i>	(Optional)
<i>arp_ofa_cp_cp_mac_mismatch_err_on_add</i>	(Optional)
<i>arp_ofa_cp_added_first_err</i>	(Optional)
<i>arp_ofa_dp_overwrite_cp_err</i>	(Optional)
<i>arp_ofa_dp_cp_nh_mismatch_err_on_add</i>	(Optional)
<i>arp_ofa_cp_cp_nh_mismatch_err_on_add</i>	(Optional)

<i>arp_ofa_cp_dp_nh_mismatch_err_on_add</i>	(Optional)
<i>arp_ofa_cp_adj_add_failure_err</i>	(Optional)
<i>arp_ofa_barrier_response_err</i>	(Optional)

Command Mode

- /exec

show ip arp snmp ptree

```
show ip arp snmp ptree { static | dynamic | virtual | typeall } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
snmp	Show only snmp ptree
ptree	Patricia tree
static	show only static adjacencies in pt tree
dynamic	show only dynamic adjacencies in pt tree
virtual	show only virtual adjacencies in pt tree
typeall	show all adjacencies in pt tree
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP statistics for all vrfs

Command Mode

- /exec

show ip arp statistics

```
show ip arp statistics [ <interface> ] [ interface-all ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_vrf <vrf-name-out1> TABLE_stat <tx-total> <tx-req> <tx-reply> <tx-req-l2>
<tx-reply-l2> <tx-grat> <tx-tunnel> <tx-drop> <tx-srvrport> <tx-fbrport> <tx-fixup-core> <tx-fixup-server>
<tx-fixup-rarp> <tx-anycast-glean> <tx-mbuf-fail> <tx-ctxt-not-crted> <tx-bad-ctxt-id> <tx-invalid-ifindex>
<tx-invalid-sip> <tx-invalid-dip> <tx-own-ip> <tx-unattached-ip> <tx-adj-create-fail> <tx-null-sip>
<tx-null-smac> <tx-client-enq-fail> <tx-dest-unreachable-proxy-arp> <tx-dest-unreachable-enhanced-proxy>
<tx-dest-l2port-track> <tx-invalid-local-proxy> <tx-invalid-proxy> <tx-vip-not-active>
<tx-multiple-vip-for-proxy> <rx-total> <rx-req> <rx-reply> <rx-req-l2> <rx-reply-l2> <rx-proxy>
<rx-local-proxy> <rx-enhanced-proxy> <rx-enhanced-proxy-anycast> <rx-enhanced-proxy-l2port-track>
<rx-tunnel> <rx-fastpath> <rx-snoop> <rx-drop> <rx-srvrport> <bad-if> <bad-len> <invalid-prot>
<invalid-hrd-type> <invalid-ctxt> <ctxt-not-crted> <invalid-l2> <invalid-l3> <invalid-sip> <our-sip>
<arp-if-no-mem> <subnet-mismatch> <dir-bcast> <invalid-dip> <non-local-dst> <non-active-fhrp>
<invalid-smac> <our-smac> <not-init> <l2-prxy-en> <l2-port-untrusted> <stdby-fhrp-vip> <grat-prxy-en>
<arp-req-ignore> <l2-intf> <l2fm-query-fail> <tunnel_fail> <hsrp-active-vmac> <rx-intf-down> <adds>
<dels> <timeouts> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
statistics	Display ARP statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP statistics for all vrfs
interface-all	(Optional) Display ARP statistics for all interface
<i>interface</i>	(Optional) ARP interface
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out1</i>	(Optional)
TABLE_stat	(Optional)
<i>tx-total</i>	(Optional)
<i>tx-req</i>	(Optional)
<i>tx-reply</i>	(Optional)

<i>tx-req-l2</i>	(Optional)
<i>tx-reply-l2</i>	(Optional)
<i>tx-grat</i>	(Optional)
<i>tx-tunnel</i>	(Optional)
<i>tx-drop</i>	(Optional)
<i>tx-srvrport</i>	(Optional)
<i>tx-fbrport</i>	(Optional)
<i>tx-fixup-core</i>	(Optional)
<i>tx-fixup-server</i>	(Optional)
<i>tx-fixup-rarp</i>	(Optional)
<i>tx-anycast-glean</i>	(Optional)
<i>tx-mbuf-fail</i>	(Optional)
<i>tx-ctxt-not-crtd</i>	(Optional)
<i>tx-bad-ctxt-id</i>	(Optional)
<i>tx-invalid-ifindex</i>	(Optional)
<i>tx-invalid-sip</i>	(Optional)
<i>tx-invalid-dip</i>	(Optional)
<i>tx-own-ip</i>	(Optional)
<i>tx-unattached-ip</i>	(Optional)
<i>tx-adj-create-fail</i>	(Optional)
<i>tx-null-sip</i>	(Optional)
<i>tx-null-smac</i>	(Optional)
<i>tx-client-enq-fail</i>	(Optional)
<i>tx-dest-unreachable-proxy-arp</i>	(Optional)
<i>tx-dest-unreachable-enhanced-proxy</i>	(Optional)
<i>tx-dest-l2port-track</i>	(Optional)
<i>tx-invalid-local-proxy</i>	(Optional)
<i>tx-invalid-proxy</i>	(Optional)
<i>tx-vip-not-active</i>	(Optional)

<i>tx-multiple-vip-for-proxy</i>	(Optional)
<i>rx-total</i>	(Optional)
<i>rx-req</i>	(Optional)
<i>rx-reply</i>	(Optional)
<i>rx-req-l2</i>	(Optional)
<i>rx-reply-l2</i>	(Optional)
<i>rx-proxy</i>	(Optional)
<i>rx-local-proxy</i>	(Optional)
<i>rx-enhanced-proxy</i>	(Optional)
<i>rx-enhanced-proxy-anycast</i>	(Optional)
<i>rx-enhanced-proxy-l2port-track</i>	(Optional)
<i>rx-tunnel</i>	(Optional)
<i>rx-fastpath</i>	(Optional)
<i>rx-snoop</i>	(Optional)
<i>rx-drop</i>	(Optional)
<i>rx-srvrport</i>	(Optional)
<i>bad-if</i>	(Optional)
<i>bad-len</i>	(Optional)
<i>invalid-prot</i>	(Optional)
<i>invalid-hrd-type</i>	(Optional)
<i>invalid-ctxt</i>	(Optional)
<i>ctxt-not-crtd</i>	(Optional)
<i>invalid-l2</i>	(Optional)
<i>invalid-l3</i>	(Optional)
<i>invalid-sip</i>	(Optional)
<i>our-sip</i>	(Optional)
<i>arp-if-no-mem</i>	(Optional)
<i>subnet-mismatch</i>	(Optional)
<i>dir-bcast</i>	(Optional)

<i>invalid-dip</i>	(Optional)
<i>non-local-dst</i>	(Optional)
<i>non-active-fhrp</i>	(Optional)
<i>invalid-smac</i>	(Optional)
<i>our-smac</i>	(Optional)
<i>not-init</i>	(Optional)
<i>l2-prxy-en</i>	(Optional)
<i>l2-port-untrusted</i>	(Optional)
<i>stdby-fhrp-vip</i>	(Optional)
<i>grat-prxy-en</i>	(Optional)
<i>arp-req-ignore</i>	(Optional)
<i>l2-intf</i>	(Optional)
<i>l2fm-query-fail</i>	(Optional)
<i>tunnel_fail</i>	(Optional)
<i>hsrp-active-vmac</i>	(Optional)
<i>rx-intf-down</i>	(Optional)
<i>adds</i>	(Optional)
<i>dels</i>	(Optional)
<i>timeouts</i>	(Optional)

Command Mode

- /exec

show ip arp suppression-cache

```
show ip arp suppression-cache { detail [ vlan <vlan_id> ] | summary | statistics | vlan <vlan_id> | local [ vlan
<vlan_id> ] | remote [ vlan <vlan_id> ] } [ __readonly__ TABLE_arp-suppression [ TABLE_entries <ip-addr>
<age> <mac> <vlan> <physical-iod> <flag> ] [ TABLE_summary <remote-count> <synced-count>
<local-count> <total-count> ] [ TABLE_stats TABLE_suppressed <total> <requests> <gratuitous>
<requests-on-l2> <gratuitous-on-l2> TABLE_sent <total-sent> <requests-sent> <replies-sent>
<requests-on-core-sent> <replies-on-core-sent> <dropped-sent> <requests-on-l2-sent> <replies-on-l2-sent>
<requests-on-core-l2-sent> <replies-on-core-l2-sent> <dropped-l2-sent> TABLE_received <total-recv>
<requests-recv> <replies-recv> <requests-on-l2-recv> <replies-on-l2-recv> <gratuitous-recv> <dropped-recv>
<gratuitous-l2-recv> <dropped-l2-recv> <local-requests-recv> <local-replies-recv> TABLE_entrystats <adds>
<dels> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
suppression-cache	arp-suppression-cache
detail	show details
summary	show summary
statistics	show statistics
local	show local entries
remote	show remote entries
vlan	(Optional) L2vlan
<i>vlan_id</i>	(Optional) Vlan
<i>__readonly__</i>	(Optional)
TABLE_arp-suppression	(Optional)
TABLE_entries	(Optional)
<i>ip-addr</i>	(Optional)
<i>age</i>	(Optional)
<i>mac</i>	(Optional)
<i>vlan</i>	(Optional)
<i>physical-iod</i>	(Optional)
<i>flag</i>	(Optional)

TABLE_summary	(Optional)
<i>remote-count</i>	(Optional)
<i>synced-count</i>	(Optional)
<i>local-count</i>	(Optional)
<i>total-count</i>	(Optional)
TABLE_stats	(Optional)
TABLE_suppressed	(Optional)
<i>total</i>	(Optional)
<i>requests</i>	(Optional)
<i>requests-on-l2</i>	(Optional)
<i>gratuitous</i>	(Optional)
<i>gratuitous-on-l2</i>	(Optional)
TABLE_sent	(Optional)
<i>total-sent</i>	(Optional)
<i>requests-sent</i>	(Optional)
<i>replies-sent</i>	(Optional)
<i>requests-on-core-sent</i>	(Optional)
<i>replies-on-core-sent</i>	(Optional)
<i>dropped-sent</i>	(Optional)
<i>requests-on-l2-sent</i>	(Optional)
<i>replies-on-l2-sent</i>	(Optional)
<i>requests-on-core-l2-sent</i>	(Optional)
<i>replies-on-core-l2-sent</i>	(Optional)
<i>dropped-l2-sent</i>	(Optional)
TABLE_received	(Optional)
<i>total-recv</i>	(Optional)
<i>requests-recv</i>	(Optional)
<i>local-requests-recv</i>	(Optional)
<i>replies-recv</i>	(Optional)

<i>local-replies-recv</i>	(Optional)
<i>gratuitous-recv</i>	(Optional)
<i>dropped-recv</i>	(Optional)
<i>requests-on-l2-recv</i>	(Optional)
<i>replies-on-l2-recv</i>	(Optional)
<i>gratuitous-l2-recv</i>	(Optional)
<i>dropped-l2-recv</i>	(Optional)
TABLE_entrystats	(Optional)
<i>adds</i>	(Optional)
<i>dels</i>	(Optional)

Command Mode

- /exec

show ip arp suppression topo-info

```
show ip arp suppression topo-info [ <topo-id> ] [ __readonly__ { TABLE_ip_arp_suppression_topo_info [
<ip_arp_suppression_topo_id> ] [ <ip_arp_suppression_mode> ] } ]
```

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
suppression	ARP-suppression based event
topo-info	E-VPN identifier
<i>topo-id</i>	(Optional) E-VPN identifier (VLAN-ID or BD-ID)
<i>__readonly__</i>	(Optional)
TABLE_ip_arp_suppression_topo_info	(Optional) Show suppression topo-info
<i>ip_arp_suppression_topo_id</i>	(Optional)
<i>ip_arp_suppression_mode</i>	(Optional)

Command Mode

- /exec

show ip arp tunnel-statistics

```
show ip arp tunnel-statistics [ __readonly__ { TABLE_ip_arp_tunnel_stat [ <arp-tun-pkt-rcv-cnt> ] [
<arp-tun-pkt-rcv-ing-vpc> ] [ <arp-tun-pkt-rcv-ing-gpc> ] [ <arp-tun-pkt-rcv-ing-orp-vpc> ] [
<arp-tun-pkt-rcv-ing-orp-vpc-pl> ] [ <arp-tun-pkt-snd-cnt> ] [ <arp-tun-pkt-snd-snoop-cnt> ] [
<arp-tun-pkt-snd-non-local-vip-cnt> ] [ <arp-tun-pkt-snd-peer-gate-cnt> ] [ <arp-tun-pkt-snd-ing-vpc> ] [
<arp-tun-pkt-snd-ing-gpc> ] [ <arp-tun-pkt-snd-ing-orp-vpc> ] [ <arp-tun-pkt-snd-ing-orp-vpc-pl> ] [
<arp-tun-pkt-rcv-drp-cnt> ] [ <arp-tun-pkt-snd-drp-cnt> ] [ <arp-tun-pkt-snd-drp-snd-fail-cnt> ] [
<arp-tun-pkt-rcv-drp-ver-cnt> ] [ <arp-tun-pkt-rcv-drp-pl-cnt> ] [ <arp-tun-pkt-rcv-drp-ing-non-mct> ] [
<arp-tun-pkt-rcv-drp-inv-ing-intf> ] [ <arp-tun-pkt-snd-drp-inv-ing-intf> ] [
<arp-tun-pkt-rcvdrp-inv-gpc-core-sw> ] [ <arp-tun-pkt-rcvdrp-inv-gpc-peer-sw> ] [ <arp-tun-pkt-drp-inv-mccc>
] [ <arp-tun-pkt-im-api-fail> ] [ <arp-tun-pkt-drp-ctxt-inv> ] [ <arp-tun-pkt-drp-mct-dwn> ] [
<arp-tun-pkt-rcv-drp-mbuf-op-fail> ] [ <arp-tun-pkt-snd-drp-mbuf-op-fail> ] [ <arp-tun-pkt-snd-drp-tunnel>
] [ <arp-tun-pkt-snd-drp-ce> ] [ <arp-tun-pkt-snd-drp-inv-gpc> ] [ <arp-tun-pkt-rcv-drp-inv-gpc> ] [
<arp-tun-pkt-sys-mcecm-key-not-found> ] } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
tunnel-statistics	Display ARP statistics for tunneled packets
__readonly__	(Optional)
TABLE_ip_arp_tunnel_stat	(Optional) ARP Tunnel stats
<i>arp-tun-pkt-rcv-cnt</i>	(Optional)
<i>arp-tun-pkt-rcv-ing-vpc</i>	(Optional)
<i>arp-tun-pkt-rcv-ing-gpc</i>	(Optional)
<i>arp-tun-pkt-rcv-ing-orp-vpc</i>	(Optional)
<i>arp-tun-pkt-rcv-ing-orp-vpc-pl</i>	(Optional)
<i>arp-tun-pkt-snd-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-snoop-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-non-local-vip-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-peer-gate-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-ing-vpc</i>	(Optional)
<i>arp-tun-pkt-snd-ing-gpc</i>	(Optional)
<i>arp-tun-pkt-snd-ing-orp-vpc</i>	(Optional)

<i>arp-tun-pkt-snd-ing-orp-vpc-pl</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-drp-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-drp-snd-fail-cnt</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-ver-cnt</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-pl-cnt</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-ing-non-mct</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-inv-ing-intf</i>	(Optional)
<i>arp-tun-pkt-snd-drp-inv-ing-intf</i>	(Optional)
<i>arp-tun-pkt-rcvdrp-inv-gpc-core-sw</i>	(Optional)
<i>arp-tun-pkt-rcvdrp-inv-gpc-peer-sw</i>	(Optional)
<i>arp-tun-pkt-drp-inv-mcec</i>	(Optional)
<i>arp-tun-pkt-im-api-fail</i>	(Optional)
<i>arp-tun-pkt-drp-ctxt-inv</i>	(Optional)
<i>arp-tun-pkt-drp-mct-dwn</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-mbuf-op-fail</i>	(Optional)
<i>arp-tun-pkt-snd-drp-mbuf-op-fail</i>	(Optional)
<i>arp-tun-pkt-snd-drp-tunnel</i>	(Optional)
<i>arp-tun-pkt-snd-drp-ce</i>	(Optional)
<i>arp-tun-pkt-snd-drp-inv-gpc</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-inv-gpc</i>	(Optional)
<i>arp-tun-pkt-sys-mcecm-key-not-found</i>	(Optional)

Command Mode

- /exec

show ip arp vaddr

show ip arp vaddr

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
vaddr	Display VADDR ARP table

Command Mode

- /exec

show ip arp vpc-statistics

```
show ip arp vpc-statistics [ __readonly__ { TABLE_arp_vpc_stats [ <arp-pro-drp-pull-disable> ] [
<arp-pro-drp-push-msg-disable> ] [ <arp-pro-ign-snd-pull-disabe> ] [ <arp-ign-snd-push-disable> ] [
<arp-drp-im-fail> ] [ <arp-drp-mcecm-fail> ] [ <arp-drp-invalid-pc-iod> ] [ <arp-drp-pt-lookup-fail> ] [
<arp-drp-resp-fail-no-mct> ] [ <arp-drp-resp-fail> ] [ <arp-resp-sent> ] [ <arp-resp-recvd> ] [
<arp-resp-recv-err> ] [ <arp-rcvd-msg> ] [ <arp-send-fail> ] [ <arp-cfs-rel-dlvry-fail> ] [ <arp-cfs-rel-dnvry-suc>
] [ <arp-drp-pt-add-fail> ] [ <arp-drp-no-mem> ] [ <arp-drp-tmr-cre-fail> ] [ <arp-drp-add-adj-fail> ] [
<arp-off-drp-pt-lookup-fail> ] [ <arp-dont-drp-vlan-mismat> ] [ <arp-drp-svi-invalid> ] [
<arp-dont-drop-sv-down> ] [ <arp-drp-mct-down> ] [ <arp-drp-ctxt-invalid> ] [ <arp-drp-vrf-invalid> ] [
<arp-drp-l3addr-invalid> ] [ <arp-drp-l3addr-sanity-fail> ] [ <arp-drp-mac-sanity-fail> ] [ <arp-own-rtr-mac>
] [ <arp-drp-own-ipaddr> ] [ <arp-drp-own-vipadd> ] [ <arp-drp-adj-fail> ] [ <arp-drp-subnet-mismatch> ] [
<arp-drp-adj-exist> ] [ <arp-dont-drp-ip-not-enable> ] [ <arp-drp-inval-phy-iod> ] [ <arp-drp-total-cnt> ] [
<arp-dont-drop-total-cnt> ] [ <arp-add-adj> ] [ <arp-del-adj> ] [ <arp-adj-already-exist> ] } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
vpc-statistics	Show vPC global statistics
__readonly__	(Optional)
TABLE_arp_vpc_stats	(Optional) Arp Vpc statistics
<i>arp-pro-drp-pull-disable</i>	(Optional)
<i>arp-pro-drp-push-msg-disable</i>	(Optional)
<i>arp-pro-ign-snd-pull-disabe</i>	(Optional)
<i>arp-ign-snd-push-disable</i>	(Optional)
<i>arp-drp-im-fail</i>	(Optional)
<i>arp-drp-mcecm-fail</i>	(Optional)
<i>arp-drp-invalid-pc-iod</i>	(Optional)
<i>arp-drp-pt-lookup-fail</i>	(Optional)
<i>arp-drp-resp-fail-no-mct</i>	(Optional)
<i>arp-drp-resp-fail</i>	(Optional)
<i>arp-resp-sent</i>	(Optional)
<i>arp-resp-recvd</i>	(Optional)
<i>arp-resp-recv-err</i>	(Optional)

<i>arp-rcvd-msg</i>	(Optional)
<i>arp-send-fail</i>	(Optional)
<i>arp-cfs-rel-dlvry-fail</i>	(Optional)
<i>arp-cfs-rel-dnvry-suc</i>	(Optional)
<i>arp-drp-pt-add-fail</i>	(Optional)
<i>arp-drp-no-mem</i>	(Optional)
<i>arp-drp-tmr-cre-fail</i>	(Optional)
<i>arp-drp-add-adj-fail</i>	(Optional)
<i>arp-off-drp-pt-lookup-fail</i>	(Optional)
<i>arp-dont-drp-vlan-mismat</i>	(Optional)
<i>arp-drp-svi-invalid</i>	(Optional)
<i>arp-dont-drop-sv-down</i>	(Optional)
<i>arp-drp-mct-down</i>	(Optional)
<i>arp-drp-ctxt-invalid</i>	(Optional)
<i>arp-drp-vrf-invalid</i>	(Optional)
<i>arp-drp-l3addr-invalid</i>	(Optional)
<i>arp-drp-l3addr-sanity-fail</i>	(Optional)
<i>arp-drp-mac-sanity-fail</i>	(Optional)
<i>arp-own-rtr-mac</i>	(Optional)
<i>arp-drp-own-ipaddr</i>	(Optional)
<i>arp-drp-own-vipadd</i>	(Optional)
<i>arp-drp-adj-fail</i>	(Optional)
<i>arp-drp-subnet-mismatch</i>	(Optional)
<i>arp-drp-adj-exist</i>	(Optional)
<i>arp-dont-drp-ip-not-enable</i>	(Optional)
<i>arp-drp-inval-phy-iod</i>	(Optional)
<i>arp-drp-total-cnt</i>	(Optional)
<i>arp-dont-drop-total-cnt</i>	(Optional)
<i>arp-add-adj</i>	(Optional)

<i>arp-del-adj</i>	(Optional)
<i>arp-adj-already-exist</i>	(Optional)

Command Mode

- /exec

show ip as-path-access-list

```
show ip as-path-access-list [ <aspl-name> | <aspl-cfg-name> ] [ __readonly__ TABLE_aspl <name> <action>
<rule> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
as-path-access-list	List AS path access lists
<i>aspl-name</i>	(Optional) AS path access list name
<i>aspl-cfg-name</i>	(Optional) Known as-path access-list name
<i>__readonly__</i>	(Optional)
TABLE_aspl	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip cache

```
show ip cache { { brief | detail } | { interface [ <intf> ] } } [ operational ]
```

Syntax Description

show	Show running system information
ip	Display IP information
cache	Display ip cache
brief	Display summary of ip interface status and configuration
detail	Display detailed information of ip interface status and configuration
operational	(Optional) Display only interfaces that are administratively enabled
interface	Display ip related interface information
<i>intf</i>	(Optional) Interface name to display

Command Mode

- /exec

show ip client

```
show ip client [ <client-name> ] [ __readonly__ [ TABLE_ip_clnt [ TABLE_clnt { <clnt-name> <clnt-uuid>
<clnt-pid> <clnt-ext-pid> [ <clnt-proto> ] <clnt-ind> <clnt-cntxt-id> <clnt-mts-sap> <clnt-flg>
<clnt-msg-succ-cnt> <clnt-msg-fail-cnt> [ <clnt-recv-fn-name> <clnt-recv-fn> ] } ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
client	Display clients registered with the IP process
<i>client-name</i>	(Optional) Display information for a single IP client
<i>__readonly__</i>	(Optional)
TABLE_ip_clnt	(Optional)
TABLE_clnt	(Optional)
<i>clnt-name</i>	(Optional)
<i>clnt-uuid</i>	(Optional)
<i>clnt-pid</i>	(Optional)
<i>clnt-ext-pid</i>	(Optional)
<i>clnt-proto</i>	(Optional)
<i>clnt-ind</i>	(Optional)
<i>clnt-cntxt-id</i>	(Optional)
<i>clnt-mts-sap</i>	(Optional)
<i>clnt-flg</i>	(Optional)
<i>clnt-msg-succ-cnt</i>	(Optional)
<i>clnt-msg-fail-cnt</i>	(Optional)
<i>clnt-recv-fn-name</i>	(Optional)
<i>clnt-recv-fn</i>	(Optional)

Command Mode

- /exec

show ip community-list

```
show ip community-list [ <cl_name> ] [ __readonly__ TABLE_cl <name> <action> <rule> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
community-list	List community-list
<i>cl_name</i>	(Optional) Standard or expanded community-list name
<i>__readonly__</i>	(Optional)
<i>TABLE_cl</i>	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip debug

show ip debug

Syntax Description

show	Show running system information
ip	Display IP information
debug	Display IP debug-filter configuration

Command Mode

- /exec

show ip dhcp global statistics

```
show ip dhcp global statistics [ __readonly__ <pkts_processed> <pkts_recvd_through_cfsoe> <pkts_fwded>
<pkts_cfsoe_fwded> <pkts_dropped> <pkts_dropped_from_untrusted_ports>
<pkts_dropped_src_mac_chk_fail> <pkts_dropped_opt82_ins_fail> <pkts_dropped_unknown_op_intf>
<pkts_dropped_unknown_pkt> <pkts_dropped_no_trust_inf> <pkts_dropped_unknown_pkt>
<pkts_dropped_relay_disable> <pkts_dropped_no_binding_entry> <pkts_dropped_interface_error>
<pkts_dropped_max_hops_exceeded> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
global	DHCP global stats
statistics	Statistics related to DHCP
<i>__readonly__</i>	(Optional) Read only
<i>pkts_processed</i>	(Optional)
<i>pkts_recvd_through_cfsoe</i>	(Optional)
<i>pkts_fwded</i>	(Optional)
<i>pkts_cfsoe_fwded</i>	(Optional)
<i>pkts_dropped</i>	(Optional)
<i>pkts_dropped_from_untrusted_ports</i>	(Optional)
<i>pkts_dropped_src_mac_chk_fail</i>	(Optional)
<i>pkts_dropped_opt82_ins_fail</i>	(Optional)
<i>pkts_dropped_unknown_op_intf</i>	(Optional)
<i>pkts_dropped_unknown_pkt</i>	(Optional)
<i>pkts_dropped_no_trust_inf</i>	(Optional)
<i>pkts_dropped_relay_disable</i>	(Optional)
<i>pkts_dropped_no_binding_entry</i>	(Optional)
<i>pkts_dropped_interface_error</i>	(Optional)
<i>pkts_dropped_max_hops_exceeded</i>	(Optional)

Command Mode

- /exec

show ip dhcp relay

```
show ip dhcp relay [ __readonly__ <relay_service_enable> <relay_opt82_enable> <relay_opt82_customize>
<relay_subopt_VPN_enable> <relay_subopt_type_cisco_enable> <global_smart-relay_enable>
<global_relay_trusted_enable> <relay_trusted_port_enable> <global_src_addr_hsrp_enable>
<smart_relay_intf_hdr> <subnet_bcast_intf_hdr> <trusted_port_intf_hdr> <relay_address_hdr>
<relay_src_addr_hsrp_hdr> TABLE_intf <intf> <relay_address> <vrf_name> <smart_relay_enabled_intf>
<subnet_bcast_enabled_intf> <trusted_port_enabled_intf> <src_addr_hsrp_enabled_intf> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
relay	DHCP relay
<i>__readonly__</i>	(Optional) Read only
<i>relay_service_enable</i>	(Optional)
<i>relay_opt82_enable</i>	(Optional)
<i>relay_opt82_customize</i>	(Optional)
<i>relay_subopt_VPN_enable</i>	(Optional)
<i>relay_subopt_type_cisco_enable</i>	(Optional)
<i>global_smart-relay_enable</i>	(Optional)
<i>global_relay_trusted_enable</i>	(Optional)
<i>relay_trusted_port_enable</i>	(Optional)
<i>global_src_addr_hsrp_enable</i>	(Optional) V4 Relay src-addr hsrp is globally enabled or not
<i>relay_address_hdr</i>	(Optional)
<i>smart_relay_intf_hdr</i>	(Optional)
<i>subnet_bcast_intf_hdr</i>	(Optional)
<i>trusted_port_intf_hdr</i>	(Optional)
<i>relay_src_addr_hsrp_hdr</i>	(Optional) Header for V4 Relay src-addr enabled interfaces
TABLE_intf	(Optional)
<i>src_addr_hsrp_enabled_intf</i>	(Optional) source-address hsrp enabled interfaces
<i>intf</i>	(Optional) interface name

<i>relay_address</i>	(Optional) helper address
<i>vrf_name</i>	(Optional) vrf name
<i>smart_relay_enabled_intfs</i>	(Optional) smart-relay enabled interfaces
<i>subnet_bcast_enabled_intfs</i>	(Optional) subnet_bcast enabled interfaces
<i>trusted_port_enabled_intfs</i>	(Optional) trusted_port enabled interfaces

Command Mode

- /exec

show ip dhcp relay address

```
show ip dhcp relay address [ interface <intf-range> ] [ __readonly__ TABLE_intf <intf_header> <intf2>
<relay_address> <vrf_name> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show DHCP
relay	relay address of the interface
address	DHCP relay address
interface	(Optional) DHCP relay address of the interface
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
TABLE_intf	(Optional)
<i>intf_header</i>	(Optional)
<i>intf2</i>	(Optional) interface name
<i>relay_address</i>	(Optional) helper address
<i>vrf_name</i>	(Optional) VRF name

Command Mode

- /exec

show ip dhcp relay information trusted-sources

show ip dhcp relay information trusted-sources [*__readonly__* <header> TABLE_intf <intf>]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show DHCP
relay	DHCP Relay
information	Relay information
trusted-sources	Relay Trusted Sources
<i>__readonly__</i>	(Optional) Read only
TABLE_intf	(Optional)
<i>header</i>	(Optional)
<i>intf</i>	(Optional) interface name

Command Mode

- /exec

show ip dhcp relay statistics

```
show ip dhcp relay statistics [ interface <intf> | { interface <intf> serverip <ip-addr-val> [ use-vrf <vrf-name>
] } ] [ __readonly__ <msg_stats_hdr> <msg_type_str> <tx_pkts> <rx_pkts> <drops> <msg_type_str_total>
<total_tx_pkts> <total_rx_pkts> <total_drops> <line> <l3_fwd_hdr> <l3_fwd_tx_pkts> <l3_fwd_rx_pkts>
<l3_fwd_drops> <server_consolidated_hdr> <server_total_request> <server_total_response> <server_req_hdr>
<server_resp_hdr> <server_helper_addr> <server_vrf> <server_discover> <server_request> <server_decline>
<server_release> <server_inform> <server_offer> <server_ack> <server_nack> <drop_hdr>
<drop_opt82_insert_fail> <drop_unknown_op_intf> <drop_unknown> <drop_malformed>
<drop_relay_disable> <drop_intf_err> <drop_tx_sock_err> <drop_tx_fail_client_intf>
<drop_l3_unknown_op_intf> <drop_max_hops> <drop_invalid_msg_type> <drop_validation_fail>
<drop_untrusted_relay_intf> <drop_mct_drop> <non_dhcp_hdr> <non_dhcp_tx_pkts> <non_dhcp_rx_pkts>
<non_dhcp_drops> <footer> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
relay	DHCP Relay
statistics	Statistics related to DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
serverip	(Optional) Helper address
<i>ip-addr-val</i>	(Optional) IP address
use-vrf	(Optional) helper address VRF membership
<i>vrf-name</i>	(Optional) VRF name
<i>__readonly__</i>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional)
<i>msg_type_str</i>	(Optional)
<i>tx_pkts</i>	(Optional)
<i>rx_pkts</i>	(Optional)
<i>drops</i>	(Optional)
<i>msg_type_str_total</i>	(Optional)
<i>total_tx_pkts</i>	(Optional)

<i>total_rx_pkts</i>	(Optional)
<i>total_drops</i>	(Optional)
<i>line</i>	(Optional)
<i>l3_fwd_hdr</i>	(Optional)
<i>l3_fwd_tx_pkts</i>	(Optional)
<i>l3_fwd_rx_pkts</i>	(Optional)
<i>l3_fwd_drops</i>	(Optional)
<i>server_consolidated_hdr</i>	(Optional)
<i>server_total_request</i>	(Optional)
<i>server_total_response</i>	(Optional)
<i>server_req_hdr</i>	(Optional)
<i>server_resp_hdr</i>	(Optional)
<i>server_helper_addr</i>	(Optional)
<i>server_vrf</i>	(Optional)
<i>server_discover</i>	(Optional)
<i>server_request</i>	(Optional)
<i>server_decline</i>	(Optional)
<i>server_release</i>	(Optional)
<i>server_inform</i>	(Optional)
<i>server_offer</i>	(Optional)
<i>server_ack</i>	(Optional)
<i>server_nack</i>	(Optional)
<i>drop_hdr</i>	(Optional)
<i>drop_opt82_insert_fail</i>	(Optional)
<i>drop_unknown_op_intf</i>	(Optional)
<i>drop_unknown</i>	(Optional)
<i>drop_malformed</i>	(Optional)
<i>drop_relay_disable</i>	(Optional)
<i>drop_intf_err</i>	(Optional)

<i>drop_max_hops</i>	(Optional)
<i>drop_tx_sock_err</i>	(Optional)
<i>drop_tx_fail_client_intf</i>	(Optional)
<i>drop_l3_unknown_op_intf</i>	(Optional)
<i>drop_invalid_msg_type</i>	(Optional)
<i>drop_validation_fail</i>	(Optional)
<i>drop_untrusted_relay_intf</i>	(Optional)
<i>drop_mct_drop</i>	(Optional)
<i>non_dhcp_hdr</i>	(Optional)
<i>non_dhcp_tx_pkts</i>	(Optional)
<i>non_dhcp_rx_pkts</i>	(Optional)
<i>non_dhcp_drops</i>	(Optional)
<i>footer</i>	(Optional)

Command Mode

- /exec

show ip dhcp snooping

```
show ip dhcp snooping [ __readonly__ <snoop_service_enable> <snoop_gbl_enable> <snoop_vlan_enable>
<snoop_oper_vlan_enable> <snoop_opt82_enable> <snoop_hwaddr_verify_enable> <snoop_hdr>
TABLE_intf_entry <intf_entry_if_index> <intf_entry_trust_dhcp> <intf_entry_pkt_limit> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
snooping	DHCP snooping
<i>__readonly__</i>	(Optional) Read only
<i>snoop_service_enable</i>	(Optional)
<i>snoop_gbl_enable</i>	(Optional)
<i>snoop_vlan_enable</i>	(Optional)
<i>snoop_oper_vlan_enable</i>	(Optional)
<i>snoop_opt82_enable</i>	(Optional)
<i>snoop_hwaddr_verify_enable</i>	(Optional)
<i>snoop_hdr</i>	(Optional)
TABLE_intf_entry	(Optional)
<i>intf_entry_if_index</i>	(Optional)
<i>intf_entry_trust_dhcp</i>	(Optional)
<i>intf_entry_pkt_limit</i>	(Optional)

Command Mode

- /exec

show ip dhcp snooping binding

show ip dhcp snooping binding [<ip> | <mac> | vlan <vlan-range> |

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
snooping	DHCP snooping
binding	DHCP snooping bindings
<i>ip</i>	(Optional) Binding entry IP address
<i>mac</i>	(Optional) Binding entry MAC address
vlan	(Optional) Binding entry VLAN
<i>vlan-range</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

Command Mode

- /exec

show ip dhcp snooping statistics

show ip dhcp snooping statistics [{ vlan <vlan-id> interface <intf> } |

Syntax Description

<i>vlan-id</i>	(Optional)]
show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
snooping	DHCP snooping
statistics	Statistics related to DHCP
vlan	(Optional) VLAN
interface	(Optional) input interface
<i>intf</i>	(Optional) interface

Command Mode

- /exec

show ip dhcp status

show ip dhcp status [*__readonly__* <*current_cli_op*> <*last_cli_op*> <*last_cli_stat*>]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
status	Current CLI command and execution status of the last command
<i>__readonly__</i>	(Optional) Read only
<i>current_cli_op</i>	(Optional)
<i>last_cli_op</i>	(Optional)
<i>last_cli_stat</i>	(Optional)

Command Mode

- /exec

show ip dns source-interface

```
show ip dns source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipdnsvrf
<vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
dns	Display domain-lookup information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipdnsvrf	(Optional) source interface of dns given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip dns source-interface vrf all

```
show ip dns source-interface vrf all [ __readonly__ [ { TABLE_ipdns <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
dns	Display domain-lookup information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipdns	(Optional) source interface of dns
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip eigrp

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_asn <asn> <router_id> TABLE_vrf <vrf> <state> <authen_md5> <authen_keychain>
<metric_weight_k1> <metric_weight_k2> <metric_weight_k3> <metric_weight_k4> <metric_weight_k5>
[ <metric_weight_k6> <metric_rib scale> ] <metric_version> <eigrp_proto> { <multicast_group> |
<multicast_groupv6> } <int_distance> <ext_distance> <max_paths> <num_interfaces> <num_lo_interfaces>
<num_pass_interfaces> <num_peers> [ { TABLE_redist <redist_srcproto> <redist_routemap> } ]
<graceful_restart> <stub_configured> [ <stub_option_connected> <stub_option_summary>
<stub_option_redist> <stub_option_leak_map> <stub_option_receive_only> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
detail	(Optional) Show detailed EIGRP process stats
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
<u>__readonly__</u>	(Optional)
TABLE_asn	(Optional) AS Number table
<i>asn</i>	(Optional) AS number
<i>router_id</i>	(Optional) Router-ID
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>state</i>	(Optional) EIGRP Process Status
<i>authen_md5</i>	(Optional) Authentication Mode
<i>authen_keychain</i>	(Optional) Authentication Key-Chain
<i>metric_weight_k1</i>	(Optional) DUAL metric k1
<i>metric_weight_k2</i>	(Optional) DUAL metric k2

<i>metric_weight_k3</i>	(Optional) DUAL metric k3
<i>metric_weight_k4</i>	(Optional) DUAL metric k4
<i>metric_weight_k5</i>	(Optional) DUAL metric k5
<i>metric_weight_k6</i>	(Optional) DUAL metric k6
<i>metric_rib_scale</i>	(Optional) RIB Scale
<i>metric_version</i>	(Optional) Metric version
<i>eigrp_proto</i>	(Optional) IP Protocol number
<i>multicast_group</i>	(Optional) Multicast Group Address
<i>int_distance</i>	(Optional) Internal Administrative Distance
<i>ext_distance</i>	(Optional) External Administrative Distance
<i>max_paths</i>	(Optional) Maximum paths allowed for a dndb
<i>num_interfaces</i>	(Optional) Number of EIGRP interfaces configured under this AS
<i>num_lo_interfaces</i>	(Optional) Number of EIGRP loopback interfaces configured under this AS
<i>num_pass_interfaces</i>	(Optional) Number of EIGRP Passive interfaces configured under this AS
<i>num_peers</i>	(Optional) Number of EIGRP peers
TABLE_redist	(Optional) Redistribution Table
<i>redist_srcproto</i>	(Optional) Source protocol of the redistributed route
<i>redist_routemap</i>	(Optional) Route-map used in this redistribution
<i>graceful_restart</i>	(Optional) Graceful restart configured?
<i>stub_configured</i>	(Optional) Stub-Routing configured?
<i>stub_option_connected</i>	(Optional) Advertise connected routes?
<i>stub_option_summary</i>	(Optional) Advertise summary routes?
<i>stub_option_redist</i>	(Optional) Advertise redistributed routes?
<i>stub_option_leak_map</i>	(Optional) Allow routes permitted by leak-map?
<i>stub_option_receive_only</i>	(Optional) Configured as receive only?

Command Mode

- /exec

show ip eigrp accounting

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] accounting [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_asn <asn> <router_id> TABLE_vrf <vrf> <total_prefix> <redist_state> <redist_count>
<restart_count> <acct_timer> [ TABLE_peer { <p_ipaddr> | <p_ipv6addr> } <p_state> <p_ifname>
<p_prefix_count> <p_restart_count> <p_acct_timer> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
accounting	IP-EIGRP Accounting
<i>__readonly__</i>	(Optional)
TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
<i>router_id</i>	(Optional) Router-ID
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>total_prefix</i>	(Optional) Total prefix count (Aggregate)
<i>redist_state</i>	(Optional) State of redistributed prefixes
<i>redist_count</i>	(Optional) Number of redistributed prefixes
<i>restart_count</i>	(Optional) Number of times the prefix was suspended
<i>acct_timer</i>	(Optional) Accounting timer
TABLE_peer	(Optional) Peer (Prefix) table
<i>p_ipaddr</i>	(Optional) Peer IP addr

<i>p_state</i>	(Optional) Peer state
<i>p_ifname</i>	(Optional) Peering interface
<i>p_prefix_count</i>	(Optional) Number of Prefixes learnt from the peer
<i>p_restart_count</i>	(Optional) Number of times the prefix was suspended
<i>p_acct_timer</i>	(Optional) Peer accounting timer

Command Mode

- /exec

show ip eigrp event-history

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] [ internal ] event-history { fsm | packet | rib }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
<i>eigrp-ptag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Event History of EIGRP
fsm	FSM log of EIGRP
packet	Packet log of EIGRP
rib	RIB log of EIGRP

Command Mode

- /exec

show ip eigrp event-history bfd

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] [ internal ] event-history bfd
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
<i>eigrp-ptag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Event History of EIGRP
bfd	Show bfd log of EIGRP

Command Mode

- /exec

show ip eigrp event

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] event [ <start-num> <end-num> ] [ type ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
event	IP-EIGRP Events
<i>start-num</i>	(Optional) Starting event number
<i>end-num</i>	(Optional) Ending event number
type	(Optional) Show Events being logged

Command Mode

- /exec

show ip eigrp interfaces

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] interfaces [ detail ] [ <interface> ] [ brief ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_asn <asn> TABLE_vrf <vrf> [ TABLE_if <ifname>
<peer_count> <xmitq_unrel> <xmitq_rel> <mean_srtt> <send_intvl_unrel> <send_intvl_rel>
<mcast_flow_delay> <pending_routes> [ <hello_intvl> <holdtime_intvl> <next_xmit_serno>
<packetize_pending> <mcasts_sent_unrel> <mcasts_sent_rel> <ucasts_sent_unrel> <ucasts_sent_rel>
<mcast_exceptions> <cr_packets> <acks_suppressed> <retrans_sent> <out_of_seq_rcvd> <stub_interface>
<nexthop_self> <auth_mode_md5> <auth_key_chain> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
interfaces	IP-EIGRP interfaces
detail	(Optional) Show detailed interface information
<i>interface</i>	(Optional) Interface
brief	(Optional) Show summary information only
__readonly__	(Optional)
TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
TABLE_if	(Optional) Interface table
<i>ifname</i>	(Optional) Interface name
<i>peer_count</i>	(Optional) Number of Peer on this interface
<i>xmitq_unrel</i>	(Optional) Xmit Q (unreliable) count

<i>xmitq_rel</i>	(Optional) Xmit Q (reliable) count
<i>mean_srtt</i>	(Optional) Mean of all peer SRTTs
<i>send_intvl_unrel</i>	(Optional) Base packet gap, per queue (unreliable)
<i>send_intvl_rel</i>	(Optional) Base packet gap, per queue (reliable)
<i>mcast_flow_delay</i>	(Optional) Last delay for Multicast flow control timer
<i>pending_routes</i>	(Optional) Pending routes on the interface
<i>hello_intvl</i>	(Optional) Configured hello interval for interface
<i>holdtime_intvl</i>	(Optional) Configured holdtime interval for interface
<i>next_xmit_serno</i>	(Optional) Next xmit serial number
<i>packetize_pending</i>	(Optional) Packetization pending?
<i>mcasts_sent_unrel</i>	(Optional) Number of Multicasts sent (unreliable)
<i>mcasts_sent_rel</i>	(Optional) Number of Multicasts sent (reliable)
<i>ucasts_sent_unrel</i>	(Optional) Number of Unicasts sent (unreliable)
<i>ucasts_sent_rel</i>	(Optional) Number of Unicasts sent (reliable)
<i>mcast_exceptions</i>	(Optional) Multicast exceptions (Count of multicasts sent as unicasts)
<i>cr_packets</i>	(Optional) Count of Multicasts sent with CR
<i>acks_suppressed</i>	(Optional) Count of suppressed ACK packets
<i>retrans_sent</i>	(Optional) Count of Retransmissions sent
<i>out_of_seq_rcvd</i>	(Optional) Count of packets received Out-of-Sequence
<i>stub_interface</i>	(Optional) All Peers are stubbed?
<i>nexthop_self</i>	(Optional) should retain next-hop?
<i>auth_mode_md5</i>	(Optional) MD5 Authentication enabled?
<i>auth_key_chain</i>	(Optional) Authentication key-chain

Command Mode

- /exec

show ip eigrp metric

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] metric <bw> <delay> [ <rel> ] [ <load> ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
metric	Compute composite metric from vector metric
<i>bw</i>	Bandwidth in Kbits per second
<i>delay</i>	Delay metric
<i>rel</i>	(Optional) Reliability metric where 255 is 100% reliable
<i>load</i>	(Optional) Effective bandwidth metric (Loading) where 255 is 100% loaded

Command Mode

- /exec

show ip eigrp route-map statistics

```
show ip eigrp [ <eigrp-ptag> ] route-map statistics { { redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag>
| static | direct | amt | lisp } } | table-map } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_asn <asn> TABLE_vrf <vrf> { TABLE_rmap <name> <action> <seq_num> [ { TABLE_cmd
<command> <compare_count> <match_count> } ] } <total_accept_count> <total_reject_count> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
route-map	Route-map related information
statistics	Route-map statistics
redistribute	Redistribute information from another routing protocol
table-map	Tablemap information
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
lisp	LISP EID-prefixes

<i>__readonly__</i>	(Optional)
<i>TABLE_asn</i>	(Optional) AS number table
<i>asn</i>	(Optional) AS number
<i>TABLE_vrf</i>	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>TABLE_rmap</i>	(Optional) Routemap table
<i>name</i>	(Optional) Route-map Name
<i>action</i>	(Optional) Route-map action
<i>seq_num</i>	(Optional) Sequence number of the rule in route-map
<i>TABLE_cmd</i>	(Optional) Route-map command table
<i>command</i>	(Optional) Route-map command
<i>compare_count</i>	(Optional) Number of comparisons
<i>match_count</i>	(Optional) Number of matches
<i>total_accept_count</i>	(Optional) Total number of packets accepted by the policy
<i>total_reject_count</i>	(Optional) Total number of packets rejected by the policy

Command Mode

- /exec

show ip eigrp sia-event

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] sia-event [ <start-num> <end-num> ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
sia-event	IP-EIGRP SIA event
<i>start-num</i>	(Optional) Starting event number
<i>end-num</i>	(Optional) Ending event number

Command Mode

- /exec

show ip eigrp sia-statistics

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] sia-statistics [ <peer> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
sia-statistics	IP-EIGRP SIA Statistics
<i>peer</i>	(Optional) Peer ID to display information about

Command Mode

- /exec

show ip eigrp timers

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] timers [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
timers	IP-EIGRP Timers

Command Mode

- /exec

show ip eigrp traffic

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] traffic [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_asn <asn> TABLE_vrf <vrf> <hellos_sent> <hellos_rcvd> <updates_sent> <updates_rcvd>
<queries_sent> <queries_rcvd> <replies_sent> <replies_rcvd> <acks_sent> <acks_rcvd> <max_inqueue_depth>
<inqueue_drops> <sia_queries_sent> <sia_queries_rcvd> <sia_replies_sent> <sia_replies_rcvd> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
traffic	IP-EIGRP Traffic Statistics
<u>__readonly__</u>	(Optional)
TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>hellos_sent</i>	(Optional) Number of Hellos sent
<i>hellos_rcvd</i>	(Optional) Number of Hellos received
<i>updates_sent</i>	(Optional) Number of Updates sent
<i>updates_rcvd</i>	(Optional) Number of Updates received
<i>queries_sent</i>	(Optional) Number of Queries sent
<i>queries_rcvd</i>	(Optional) Number of Queries received
<i>replies_sent</i>	(Optional) Number of Replies sent
<i>replies_rcvd</i>	(Optional) Number of Replies received

<i>acks_sent</i>	(Optional) Number of ACKs sent
<i>acks_rcvd</i>	(Optional) Number of ACKs received
<i>max_inqueue_depth</i>	(Optional) Input queue high water mark
<i>inqueue_drops</i>	(Optional) Input queue drops
<i>sia_queries_sent</i>	(Optional) Number of SIA queries sent
<i>sia_queries_rcvd</i>	(Optional) Number of SIA queries received
<i>sia_replies_sent</i>	(Optional) Number of SIA replies sent
<i>sia_replies_rcvd</i>	(Optional) Number of SIA replies received

Command Mode

- /exec

show ip extcommunity-list

```
show ip extcommunity-list [ <extcl_name> ] [ __readonly__ TABLE_extcl <name> <action> <rule> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
extcommunity-list	List extcommunity-list
<i>extcl_name</i>	(Optional) Standard or expanded community-list name
<i>__readonly__</i>	(Optional)
<i>TABLE_extcl</i>	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip fib adjacency

```
show ip fib adjacency [ <aif> ] [ <anh> ] [ module <module> ] [ __readonly__ <adj-count> <nexthop>
<rewinfo> <interface> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
adjacency	display adjacency information
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next hop
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>adj-count</i>	(Optional) total adj count
<i>nexthop</i>	(Optional) next hop address
<i>rewinfo</i>	(Optional) rewrite information
<i>interface</i>	(Optional) output interface

Command Mode

- /exec

show ip fib distribution

show ip fib distribution [pauz | rezum]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution information
pauz	(Optional) start black-holing routes
rezum	(Optional) stop black-holing routes

Command Mode

- /exec

show ip fib distribution capture

show ip fib distribution capture [__readonly__ <type><len><data>]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution info
capture	unicast capture buffer
__readonly__	(Optional)

Command Mode

- /exec

show ip fib distribution clients

show ip fib distribution clients [__readonly__ <id><pid><name><shms><shme><shmn>]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution info
clients	unicast client information
__readonly__	(Optional)

Command Mode

- /exec

show ip fib distribution mroute

```
show ip fib distribution mroute [ { <group> | <gprefix> } [ <source> ] ] [ table <id> ] [ __readonly__
<table_name> <src_len> <grp_len> <df_ordinal> <rpfif> <rpf_ifname> <flag> <flag_value> <num_groups>
<num_sources> <refcount> <oiflist_id> <oif_count> <oif_name> <oif_ifindex> <bytecnt> <pkctcnt> ]
```

Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
mroute	MFDM IP multicast routing table
<i>group</i>	(Optional) IPv4 Multicast Group Address
<i>gprefix</i>	(Optional) IPv4 Multicast Group Prefix
<i>source</i>	(Optional) IPv4 Source Address
table	(Optional) Specify Multicast Routing Table
<i>id</i>	(Optional) Multicast Routing Table Identifier
<i>__readonly__</i>	(Optional)
<i>table_name</i>	(Optional) Table name
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifname</i>	(Optional) RPF Interface ifName
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>refcount</i>	(Optional) Reference Count
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>oif_count</i>	(Optional) Number of OIFs

<i>oif_name</i>	(Optional) OIF Name
<i>oif_ifindex</i>	(Optional) OIF ifIndex
<i>bytecnt</i>	(Optional) Current Byte counter
<i>pktcnt</i>	(Optional) Current Packet counter

Command Mode

- /exec

show ip fib distribution multicast

```
show ip fib distribution multicast [ messages ] [ __readonly__ <fibstate> <slot> <accepting_routes>
<num_accepting_routes> ]
```

Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
messages	(Optional) Outstanding Message Information
<i>__readonly__</i>	(Optional)
<i>fibstate</i>	(Optional) IP Multicast FIB process state
<i>slot</i>	(Optional) Slot
<i>accepting_routes</i>	(Optional) Indicates whether FIB is accepting routes
<i>num_accepting_routes</i>	(Optional) Number of fibs accepting routes

Command Mode

- /exec

show ip fib distribution multicast outgoing-interface-list

```
show ip fib distribution multicast outgoing-interface-list { L2 | L3 | OTV } [ <index> ] [ __readonly__
<platform_index> <ref_count> <num_oif> <oif> ]
```

Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
outgoing-interface-list	Outgoing interface list
L2	Layer 2 oiflist
L3	Layer 3 oiflist
OTV	OTV oiflist
<i>index</i>	(Optional) Outgoing Interface List index
<i>__readonly__</i>	(Optional)
<i>platform_index</i>	(Optional) Platform index
<i>ref_count</i>	(Optional) Reference count
<i>num_oif</i>	(Optional) Number of outgoing interfaces
<i>oif</i>	(Optional) OIF name

Command Mode

- /exec

show ip fib distribution state

show ip fib distribution state [__readonly__ <slot><known><ar><rcnt><state>]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution info
state	unicast fib state info
__readonly__	(Optional)

Command Mode

- /exec

show ip fib interfaces

```
show ip fib interfaces [ module <module> ] [ __readonly__ <intf> <v4adjcnt> <v6adjcnt> <rpfmode> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
interfaces	show fib interface info
__readonly__	(Optional)
<i>intf</i>	(Optional) interface name
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>v4adjcnt</i>	(Optional) count of v4 adjacencies
<i>v6adjcnt</i>	(Optional) count of v6 adjacencies
<i>rpfmode</i>	(Optional) uRPF mode

Command Mode

- /exec

show ip fib mroute

```
show ip fib mroute [ { <group> | <gprefix> } [ <source> ] ] [ table <table-id> ] [ module <module> ] [
__readonly__ <table_type> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal> <rpfif>
<rpf_ifindex> <flag> <flag_value> <route_pkts> <route_bytes> <oiflist_id> <platform_id> <oif_count>
<refcount> <oifname> <oifindex> <oif_pkts> <oif_bytes> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	Multicast IPv4 routes
<i>group</i>	(Optional) Multicast IPv4 Group Address
<i>gprefix</i>	(Optional) Multicast IPv4 Group Prefix
<i>source</i>	(Optional) Multicast IPv4 Source Address
table	(Optional) display info per vpn-id
<i>table-id</i>	(Optional) table-id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifindex</i>	(Optional) RPF Interface ifIndex
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>route_pkts</i>	(Optional) Route packet count

<i>route_bytes</i>	(Optional) Route bytes
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>platform_id</i>	(Optional) Platform-index
<i>oif_count</i>	(Optional) Number of OIFs
<i>refcount</i>	(Optional) OIF list Reference Count
<i>oifname</i>	(Optional) OIF Interface name
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>oif_pkts</i>	(Optional) OIF packets
<i>oif_bytes</i>	(Optional) OIF bytes

Command Mode

- /exec

show ip fib mroute

```
show ip fib mroute [ { <group> | <gprefix> } [ <source> ] ] [ table <table-id> ] [ module <module> ] [
__readonly__ <table_type> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal> <rpfif>
<rpf_ifindex> <flag> <flag_value> <route_pkts> <route_bytes> <oiflist_id> <platform_id> <oif_count>
<refcount> <oifname> <oifindex> <oif_pkts> <oif_bytes> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	Multicast IPv4 routes
<i>group</i>	(Optional) Multicast IPv4 Group Address
<i>gprefix</i>	(Optional) Multicast IPv4 Group Prefix
<i>source</i>	(Optional) Multicast IPv4 Source Address
table	(Optional) display info per vpn-id
<i>table-id</i>	(Optional) table-id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifindex</i>	(Optional) RPF Interface ifIndex
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>route_pkts</i>	(Optional) Route packet count

<i>route_bytes</i>	(Optional) Route bytes
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>platform_id</i>	(Optional) Platform-index
<i>oif_count</i>	(Optional) Number of OIFs
<i>refcount</i>	(Optional) OIF list Reference Count
<i>oifname</i>	(Optional) OIF Interface name
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>oif_pkts</i>	(Optional) OIF packets
<i>oif_bytes</i>	(Optional) OIF bytes

Command Mode

- /exec

show ip fib mroute txlist

show ip fib mroute txlist [module <module>]

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	display IP mcast routing table
txlist	display routes in the txlist
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show ip fib route

```
show ip fib route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ summary | <prefix>
[ longer-prefixes ] | <address> | interface <interface> | next-hop <nh> | attached | unresolved | adjacency {
<aif> <anh> | drop | glean | punt } ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ <header> <vrfname> <tableid> <prefix-count> <pfx> { <nexthop> | <special> } <intf>
<route-count> <path-count> <mask-length> <routes-per-mask> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
route	display IP routing table
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
summary	(Optional) display route counts
<i>prefix</i>	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
<i>address</i>	(Optional) display single longest match route
interface	(Optional) display routes with this output i/f only
<i>interface</i>	(Optional) output interface
next-hop	(Optional) display routes with this next-hop only
<i>nh</i>	(Optional) next hop address
attached	(Optional) display directly connected routes
unresolved	(Optional) display unresolved routes
adjacency	(Optional) display routes via specified adjacency
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next-hop address

drop	(Optional) display routes via drop adjacency
glean	(Optional) display routes via glean adjacency
punt	(Optional) display routes via punt adjacency
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) header string
<i>vrfname</i>	(Optional) VRF name
<i>tableid</i>	(Optional) table identifier
<i>prefix-count</i>	(Optional) total number of prefix in VRF
<i>pfx</i>	(Optional) ipv4 prefix
<i>nexthop</i>	(Optional) next hop address
<i>special</i>	(Optional) special adjacencies
<i>intf</i>	(Optional) output interface
<i>route-count</i>	(Optional) total number of routes in VRF
<i>path-count</i>	(Optional) total number of paths in VRF
<i>mask-length</i>	(Optional) length of mask
<i>routes-per-mask</i>	(Optional)

Command Mode

- /exec

show ip fib route

```
show ip fib route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ summary | <prefix>
[ longer-prefixes ] | <address> | interface <interface> | next-hop <nh> | attached | unresolved | adjacency {
<aif> <anh> | drop | glean | punt } ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ <header> <vrfname> <tableid> <prefix-count> <px> { <nexthop> | <special> } <intf>
<route-count> <path-count> <mask-length> <routes-per-mask> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
route	display IP routing table
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
summary	(Optional) display route counts
<i>prefix</i>	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
<i>address</i>	(Optional) display single longest match route
interface	(Optional) display routes with this output i/f only
<i>interface</i>	(Optional) output interface
next-hop	(Optional) display routes with this next-hop only
<i>nh</i>	(Optional) next hop address
attached	(Optional) display directly connected routes
unresolved	(Optional) display unresolved routes
adjacency	(Optional) display routes via specified adjacency
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next-hop address

drop	(Optional) display routes via drop adjacency
glean	(Optional) display routes via glean adjacency
punt	(Optional) display routes via punt adjacency
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) header string
<i>vrfname</i>	(Optional) VRF name
<i>tableid</i>	(Optional) table identifier
<i>prefix-count</i>	(Optional) total number of prefix in VRF
<i>px</i>	(Optional) ipv4 prefix
<i>nexthop</i>	(Optional) next hop address
<i>special</i>	(Optional) special adjacencies
<i>intf</i>	(Optional) output interface
<i>route-count</i>	(Optional) total number of routes in VRF
<i>path-count</i>	(Optional) total number of paths in VRF
<i>mask-length</i>	(Optional) length of mask
<i>routes-per-mask</i>	(Optional)

Command Mode

- /exec

show ip fib route recovered

show ip fib route recovered

Syntax Description

show	
ip	ipv4
fib	display fib information
route	display IP routing table
recovered	log of routes recovered after TCAM free condition

Command Mode

- /exec

show ip ftm statistics

show ip ftm statistics

Syntax Description

show	Show running system information
ip	Display IP information
ftm	FTM API
statistics	Statistics

Command Mode

- /exec

show ip ftp source-interface

```
show ip ftp source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipftpvrft
<vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ftp	Display FTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipftpvrft	(Optional) source interface of ftp given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip ftp source-interface vrf all

```
show ip ftp source-interface vrf all [ __readonly__ [ { TABLE_ipftp <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ftp	Display FTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipftp	(Optional) source interface of ftp
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip http source-interface

```
show ip http source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_iphttpvrf
<vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
http	Display HTTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_iphttpvrf	(Optional) source interface of http given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip http source-interface vrf all

```
show ip http source-interface vrf all [ __readonly__ [ { TABLE_iphttp <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
http	Display HTTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iphttp	(Optional) source interface of http
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip igmp event-history

```
show ip igmp [ internal ] event-history { errors | msgs | <igmp-event-hist-buf-name> | statistics }
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
internal	(Optional) Commands for internal use
event-history	Show various event logs of IGMP
errors	Show error logs of IGMP
msgs	Show various message logs of IGMP
<i>igmp-event-hist-buf-name</i>	Show various logs of IGMP
statistics	Show state and size of buffer

Command Mode

- /exec

show ip igmp groups

```
show ip igmp { groups | route } [ <source> [ <group> ] | <group> [ <source> ] ] [ <interface> ] [ summary ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ summary-old ] [ __readonly__ ] [ TABLE_vrf [ <if-name>
] [ <vrfname> ] [ <entry-count> ] [ <group-addr> ] [ <sourceaddress> ] [ TABLE_group [ <group-addr> ] [
<group-type> ] [ <if-name> ] [ <uptime> ] [ <expires> ] [ <reporter> ] ] [ TABLE_source [ <source-addr> ]
[ <group-type> ] [ <translate> ] [ <if-name> ] [ <uptime> ] [ <expires> ] [ <reporter> ] ] [ <vrf-cntxt> ] [
<g-count> ] [ <sg-count> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
groups	Display IGMP attached group membership information
route	Display IGMP attached group membership information
<i>group</i>	(Optional) Multicast IP address of single group to display
<i>source</i>	(Optional) Source IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>interface</i>	(Optional) Display group membership on single interface name
summary	(Optional) Display group summary
summary-old	(Optional) Display group summary
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrfname</i>	(Optional)
<i>if-name</i>	(Optional)
<i>group-addr</i>	(Optional)
<i>entry-count</i>	(Optional)
<i>sourceaddress</i>	(Optional)
TABLE_group	(Optional)

<i>group-addr</i>	(Optional)
<i>group-type</i>	(Optional)
<i>if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>reporter</i>	(Optional)
TABLE_source	(Optional)
<i>source-addr</i>	(Optional)
<i>group-type</i>	(Optional)
<i>translate</i>	(Optional)
<i>if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>reporter</i>	(Optional)
<i>vrf-cntxt</i>	(Optional)
<i>g-count</i>	(Optional)
<i>sg-count</i>	(Optional)

Command Mode

- /exec

show ip igmp interface

```
show ip igmp interface [ <interface> ] [ brief ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_vrf <vrf> [ <entry-count> ] [ [ TABLE_brief [ <if-name> ] [ <addr> ] [ <querier> ] [
<mc> ] [ <ver> ] ] [ TABLE_if <if-name> [ <if-status> ] [ <ip-sum> ] [ <addr> ] <querier> [ <q-ver> ] [
<next-query> ] [ <expires> ] [ <mc> ] [ <ver> ] [ <host-ver> ] [ <qi> ] [ <cqi> ] [ <mrt> ] [ <cmrt> ] [ <sqi>
] [ <csqi> ] [ <sqc> ] [ <lmrt> ] [ <lmqc> ] [ <gt> ] [ <cg> ] [ <qt> ] [ <cqt> ] [ <uri> ] [ <rv> ] [ <crv> ]
] [ <rll> ] [ <rc> ] [ <il> ] [ <static-group-map> ] [ <join-group-map> ] [ <v1rr> ] [ <v2qs> ] [ <v2qr> ] [ <v2rs>
] [ <v2rr> ] [ <v2ls> ] [ <v2lr> ] [ <v3qs> ] [ <v3qr> ] [ <v3rs> ] [ <v3rr> ] [ <cse> ] [ <v2ggdest> ] [
<v3ggdest> ] [ <ple> ] [ <lsip> ] [ <scf> ] [ <qnq> ] [ <rvm> ] [ <qvm> ] [ <uit> ] [ <v1gdam> ] [ <v2gdam>
] [ <v3dai> ] [ <ra> ] [ <host-proxy> ] [ <host-proxy-group-map> ] [ <un-solicited> ] [ <unsoint> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
interface	Display IGMP interface related information
<i>interface</i>	(Optional) Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>entry-count</i>	(Optional)
TABLE_brief	(Optional)
<i>if-name</i>	(Optional)
<i>addr</i>	(Optional)
<i>querier</i>	(Optional)
<i>mc</i>	(Optional)
<i>ver</i>	(Optional)

<i>TABLE_if</i>	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>ip-sum</i>	(Optional)
<i>addr</i>	(Optional)
<i>querier</i>	(Optional)
<i>q-ver</i>	(Optional)
<i>next-query</i>	(Optional)
<i>expires</i>	(Optional)
<i>mc</i>	(Optional)
<i>ver</i>	(Optional)
<i>host-ver</i>	(Optional)
<i>qi</i>	(Optional)
<i>cqi</i>	(Optional)
<i>mrt</i>	(Optional)
<i>cmrt</i>	(Optional)
<i>sqi</i>	(Optional)
<i>csqi</i>	(Optional)
<i>sqc</i>	(Optional)
<i>lmmrt</i>	(Optional)
<i>lmqc</i>	(Optional)
<i>gt</i>	(Optional)
<i>cgt</i>	(Optional)
<i>qt</i>	(Optional)
<i>cqt</i>	(Optional)
<i>uri</i>	(Optional)
<i>rv</i>	(Optional)
<i>crv</i>	(Optional)
<i>rll</i>	(Optional)

<i>rc</i>	(Optional)
<i>v1rr</i>	(Optional)
<i>v2qs</i>	(Optional)
<i>v2qr</i>	(Optional)
<i>v2rs</i>	(Optional)
<i>v2rr</i>	(Optional)
<i>v2ls</i>	(Optional)
<i>v2lr</i>	(Optional)
<i>v3qs</i>	(Optional)
<i>v3qr</i>	(Optional)
<i>v3rs</i>	(Optional)
<i>v3rr</i>	(Optional)
<i>v2ggdest</i>	(Optional)
<i>v3ggdest</i>	(Optional)
<i>cse</i>	(Optional)
<i>ple</i>	(Optional)
<i>lsip</i>	(Optional)
<i>scf</i>	(Optional)
<i>qnq</i>	(Optional)
<i>rvm</i>	(Optional)
<i>qvm</i>	(Optional)
<i>uit</i>	(Optional)
<i>v1gdam</i>	(Optional)
<i>v2gdam</i>	(Optional)
<i>v3dai</i>	(Optional)
<i>ra</i>	(Optional)
<i>static-group-map</i>	(Optional)
<i>join-group-map</i>	(Optional)
<i>host-proxy-group-map</i>	(Optional)

<i>il</i>	(Optional)
<i>host-proxy</i>	(Optional)
<i>un-solicited</i>	(Optional)
<i>unsoint</i>	(Optional)

Command Mode

- /exec

show ip igmp local-groups

```
show ip igmp local-groups [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf [ <vrf-name> ] [ TABLE_if [ <if-name> ] [ TABLE_grp [ <group-addr> ] [ TABLE_src [
<source-addr> ] [ <last-reported> ] [ <local-group> ] [ <static-oif> ] [ <report-only> ] [ <host-proxy> ] ] ] ]
] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
local-groups	Display IGMP local group membership information
<i>interface</i>	(Optional) Display group membership on single interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_if	(Optional)
<i>if-name</i>	(Optional)
TABLE_grp	(Optional)
<i>group-addr</i>	(Optional)
TABLE_src	(Optional)
<i>source-addr</i>	(Optional)
<i>last-reported</i>	(Optional)
<i>local-group</i>	(Optional)
<i>static-oif</i>	(Optional)
<i>report-only</i>	(Optional)
<i>host-proxy</i>	(Optional)

Command Mode

- /exec

show ip igmp policy statistics reports

```
show ip igmp policy statistics reports [ <interface> ] [ __readonly__ [ { TABLE_interface <if> {
TABLE_routemap <name> <action> <seq_num> [ { TABLE_cmd <command> <match_count>
<compare_count> } ] } <total_accept_count> <total_reject_count> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Show IGMP related information
policy	Policy related information
statistics	Policy statistics
reports	IGMP reports
<i>interface</i>	(Optional) Interface to display statistics for
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional)
<i>if</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping

```
show ip igmp snooping [ { vlan <vlan> | bridge-domain <bdid> } ] [ __readonly__ <vdc> <enabled> <omf>
<grepsup> <gv3repsup> <glinklocalgrpsup> { TABLE_vlan <vlan-id> [ <description> ] <snoop-on> [ <qa>
<qv> <qi> <qlmqi> <rv> ] <sq> [ <sqr> ] <eht> <fl> <repsup> <v3repsup> <vlinklocalgrpsup> <rpc> <gc>
[ <actvports> ] <lkupmode> <omf_enabled> <reportfloodenable> <reportfloodal> [ TABLE_intf <if-name>
] <leavegroupaddress> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
vlan	(Optional) Display VLAN IGMP snooping membership information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping membership information
<i>bdid</i>	(Optional) Specify BD
<i>__readonly__</i>	(Optional)
<i>vdc</i>	(Optional)
<i>enabled</i>	(Optional)
<i>omf</i>	(Optional)
<i>grepsup</i>	(Optional)
<i>gv3repsup</i>	(Optional)
<i>glinklocalgrpsup</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>description</i>	(Optional) description, if any
<i>snoop-on</i>	(Optional)
<i>qa</i>	(Optional)
<i>qv</i>	(Optional)
<i>qi</i>	(Optional)
<i>qlmqi</i>	(Optional)

<i>rv</i>	(Optional)
<i>sq</i>	(Optional)
<i>sqr</i>	(Optional)
<i>eht</i>	(Optional)
<i>fl</i>	(Optional)
<i>repsup</i>	(Optional)
<i>v3repsup</i>	(Optional)
<i>vlinklocalgrpsup</i>	(Optional)
<i>rpc</i>	(Optional)
<i>gc</i>	(Optional)
<i>actvports</i>	(Optional)
<i>lkupmode</i>	(Optional)
<i>omf_enabled</i>	(Optional)
<i>reportfloodenable</i>	(Optional)
<i>reportfloodall</i>	(Optional)
TABLE_intf	(Optional)
<i>if-name</i>	(Optional)
<i>leavegroupaddress</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping event-history

```
show ip igmp snooping [ internal ] event-history { statistics | <igmp-snoop-event-hist-buf-name> }
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
internal	(Optional) Display IGMP snooping internal information
event-history	Show various event logs of IGMP Snooping
statistics	Show state and size of the buffers
<i>igmp-snoop-event-hist-buf-name</i>	Show contents of event-history buffer

Command Mode

- /exec

<i>expires</i>	(Optional)
<i>cfs-flag</i>	(Optional)
<i>native-flag</i>	(Optional)
<i>delete-pending</i>	(Optional)
<i>cfs-update-pending</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping filter details

show ip igmp snooping filter [vlan <vlan_id>] details

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
filter	Shows filter policy configuration
vlan	(Optional) Only for the specified VLAN
<i>vlan_id</i>	(Optional) VLAN ID
details	Shows different Filter configurations

Command Mode

- /exec

show ip igmp snooping groups

```
show ip igmp snooping [ otv | remote ] groups [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ vlan
<vlan> | bridge-domain <bdid> ] [ detail ] [ summary ] [ __readonly__ { TABLE_vlan <vlan-id> [ <rports>
] [ <rtrPortFlag> ] [ TABLE_port <if-name> ] [ TABLE_rtrports <rport-if-name> ] [ <raddr> ] [ TABLE_source
<source> ] [ TABLE_group <addr> [ <g-mfdm> ] [ <ver> ] [ <old-host> ] [ <raddr> ] [ <static> ] [ <dynamic>
] [ TABLE_static_ports <static-if-name> ] [ TABLE_v2_ports <v2-if-name> [ <uptime> ] [ <expires> ] [
<gq-missed> ] ] [ TABLE_star_g_ports <star-g-if-name> [ <uptime> ] [ <expires> ] ] [ <g-vpc> ] [ <rsf> ] [
<js> ] [ TABLE_source <source> [ <rsf> ] [ <s-mfdm> ] [ <src-static> ] [ <src-dynamic> ] [
TABLE_src_static_ports <src-static-if-name> ] [ TABLE_src_dynamic [ <oifs> ] <dyn-if-name> [ <src-uptime>
] [ <src-expires> ] ] [ <s-vpc> ] ] ] [ <snoop-enabled> ] [ <omf-enabled> ] [ <group-count> ] [ <s-g-count>
] [ <total_star_g_count> ] [ <total_sg_count> ] } }
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
otv	(Optional) IGMP Snooping OTV information
remote	(Optional) IGMP Snooping remote information
groups	Display snooping information for group address
summary	(Optional) Display snooping group summary
<i>group</i>	(Optional) Multicast IP address of single group to display
<i>source</i>	(Optional) Source IP address
vlan	(Optional) Display VLAN IGMP snooping membership information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping membership information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) Display detailed information for the group
__readonly__	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>rports</i>	(Optional)
<i>rtrPortFlag</i>	(Optional)

<i>snoop-enabled</i>	(Optional)
<i>omf-enabled</i>	(Optional)
<i>group-count</i>	(Optional)
<i>s-g-count</i>	(Optional)
<i>total_star_g_count</i>	(Optional)
<i>total_sg_count</i>	(Optional)
TABLE_port	(Optional)
<i>if-name</i>	(Optional)
TABLE_rtrports	(Optional)
<i>rport-if-name</i>	(Optional)
<i>raddr</i>	(Optional)
TABLE_group	(Optional)
<i>addr</i>	(Optional)
<i>ver</i>	(Optional)
<i>raddr</i>	(Optional)
TABLE_source	(Optional)
<i>source</i>	(Optional)
<i>rsf</i>	(Optional)
<i>js</i>	(Optional)
<i>g-mfdm</i>	(Optional)
<i>old-host</i>	(Optional)
<i>g-vpc</i>	(Optional)
<i>static</i>	(Optional)
<i>dynamic</i>	(Optional)
TABLE_static_ports	(Optional)
<i>static-if-name</i>	(Optional)
TABLE_v2_ports	(Optional)
<i>v2-if-name</i>	(Optional)
<i>uptime</i>	(Optional)

<i>expires</i>	(Optional)
<i>gq-missed</i>	(Optional)
TABLE_star_g_ports	(Optional)
<i>star-g-if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
TABLE_source	(Optional)
<i>source</i>	(Optional)
<i>srsf</i>	(Optional)
<i>s-mfdm</i>	(Optional)
<i>s-vpc</i>	(Optional)
<i>src-static</i>	(Optional)
<i>src-dynamic</i>	(Optional)
TABLE_src_static_ports	(Optional)
<i>src-static-if-name</i>	(Optional)
TABLE_src_dynamic	(Optional)
<i>oifs</i>	(Optional)
<i>dyn-if-name</i>	(Optional)
<i>src-uptime</i>	(Optional)
<i>src-expires</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping lookup-mode

```
show ip igmp snooping lookup-mode [ vlan <vlan> | bridge-domain <bdid> ] [ __readonly__ { TABLE_global
<configured> <operational> } { TABLE_vlan <vlan-id> <lookup> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
lookup-mode	IGMP Snooping lkup mode information
vlan	(Optional) Display VLAN information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD information
<i>bdid</i>	(Optional) Specify BD
<i>__readonly__</i>	(Optional)
TABLE_global	(Optional)
<i>configured</i>	(Optional)
<i>operational</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>lookup</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping mac-oif

```
show ip igmp snooping mac-oif [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__ [ <totaloif> ] ] [ TABLE_vlan <vlan-id> <count> [ TABLE_mac <mac-addr> [ TABLE_oif <oifs> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
mac-oif	IGMP Snooping static mac oif information
vlan	(Optional) Display VLAN information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) static mac oif detail, M2RIB oif info
<i>__readonly__</i>	(Optional)
<i>totaloif</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>count</i>	(Optional)
TABLE_mac	(Optional)
<i>mac-addr</i>	(Optional)
TABLE_oif	(Optional)
<i>oifs</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping mrouter

```
show ip igmp snooping mrouter [ otv ] [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__
TABLE_vlan <vlan-id> TABLE_intf <if-name> <static> <dynamic> <vpc> <fabricpath-core-port>
<co-learned> <user-configured> <learnt-by-peer> <uptime> <expires> <internal> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
mrouter	Display multicast routers detected
otv	(Optional) IGMP Snooping OTV information
vlan	(Optional) Display VLAN multicast router information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD multicast router information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) Display detailed mrouter information
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
TABLE_intf	(Optional)
<i>if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>static</i>	(Optional)
<i>dynamic</i>	(Optional)
<i>internal</i>	(Optional)
<i>vpc</i>	(Optional)
<i>fabricpath-core-port</i>	(Optional)
<i>co-learned</i>	(Optional)

<i>user-configured</i>	(Optional)
<i>learnt-by-peer</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping otv vlan brief

show ip igmp snooping otv vlan brief [__readonly__ <vlan-id>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
otv	IGMP Snooping OTV information
vlan	Display VLAN/BD information
brief	Brief output
__readonly__	(Optional)
<i>vlan-id</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping pw vlan brief

show ip igmp snooping pw vlan brief [*__readonly__* <vlan-id>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
pw	IGMP Snooping PW information
vlan	Display VLAN/BD information
brief	Brief output
<i>__readonly__</i>	(Optional)
<i>vlan-id</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping querier

```
show ip igmp snooping querier [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__ [ TABLE_vlan
<vlan-id> <qa> <qv> [ <expires> ] <qiod> <qname> <int> [ <last_member_query_count> ] [
<config_last_member_query_count> ] [ <snooping_version> ] [ <config_qv> ] [ <robust> ] [ <config_robust>
] [ <startup_query_count> ] [ <config_startup_query_count> ] [ <startup_query_interval> ] [
<config_startup_query_interval> ] [ <mbr_query_interval> ] [ <config_mbr_query_interval> ] [
<snooping_query_intvl> ] [ <config_snooping_query_intvl> ] [ <gquery_response_time> ] [
<config_gquery_response_time> ] [ <querier_timeout> ] [ <querier_timeout_flag> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
querier	Display snooping querier information
vlan	(Optional) Display VLAN IGMP snooping querier information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping querier information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>qa</i>	(Optional)
<i>expires</i>	(Optional)
<i>qv</i>	(Optional)
<i>qiod</i>	(Optional)
<i>qname</i>	(Optional)
<i>int</i>	(Optional)
<i>last_member_query_count</i>	(Optional)
<i>config_last_member_query_count</i>	(Optional)
<i>snooping_version</i>	(Optional)

<i>config_qv</i>	(Optional)
<i>robust</i>	(Optional)
<i>config_robust</i>	(Optional)
<i>startup_query_count</i>	(Optional)
<i>config_startup_query_count</i>	(Optional)
<i>startup_query_interval</i>	(Optional)
<i>config_startup_query_interval</i>	(Optional)
<i>mbr_query_interval</i>	(Optional)
<i>config_mbr_query_interval</i>	(Optional)
<i>snooping_query_intvl</i>	(Optional)
<i>config_snooping_query_intvl</i>	(Optional)
<i>gquery_response_time</i>	(Optional)
<i>config_gquery_response_time</i>	(Optional)
<i>querier_timeout</i>	(Optional)
<i>querier_timeout_flag</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping report statistics

```
show ip igmp snooping { report-policy | access-group } statistics [ vlan <vlan> ] [ __readonly__ [
TABLE_vlanid { <vlan-id> <rpm-type> <policy-name> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
report-policy	IGMP Report Policy
access-group	IGMP access-group
statistics	Policy statistics
vlan	(Optional) Display VLAN IGMP snooping policy statistics information
<i>vlan</i>	(Optional) Specify VLAN
__readonly__	(Optional)
TABLE_vlanid	(Optional)
<i>vlan-id</i>	(Optional)
<i>rpm-type</i>	(Optional)
<i>policy-name</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping snmp mib adminMode

show ip igmp snooping snmp mib adminMode [__readonly__ <cisAdminMode>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
adminMode	Indicates the administrative snooping mode of IGMP Snooping feature
__readonly__	(Optional) Read Only
<i>cisAdminMode</i>	(Optional) mib object cisAdminMode

Command Mode

- /exec

show ip igmp snooping snmp mib aliasingMode

show ip igmp snooping snmp mib aliasingMode [*__readonly__* <*cisAddressAliasingMode*>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
aliasingMode	Indicates the current IGMP Address Aliasing Mode of the device
<i>__readonly__</i>	(Optional) Read Only
<i>cisAddressAliasingMode</i>	(Optional) mib object <i>cisAddressAliasingMode</i>

Command Mode

- /exec

show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus

```
show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus [ __readonly__
<cisV3ProcessEnabledOperStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
cisV3ProcessEnableOperStatus	Indicates the current operational status of IGMP v3 processing in the system
__readonly__	(Optional) Read Only
<i>cisV3ProcessEnabledOperStatus</i>	(Optional) mib object cisV3ProcessEnabledOperStatus

Command Mode

- /exec

show ip igmp snooping snmp mib explicitTrackingTable

```
show ip igmp snooping snmp mib explicitTrackingTable [ vlan <cisVlanIndex-in> ] [ __readonly__
TABLE_cisVlanExplicitTrackingTable <cisVlanIndex-out> <cisVlanExplicitTrackingEnabled>
<cisVlanExplicitTrackingLimit> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
explicitTrackingTable	Show mib table cisVlanExplicitTrackingTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisVlanExplicitTrackingTable</i>	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib table index cisVlanIndex
<i>cisVlanExplicitTrackingEnabled</i>	(Optional) mib object cisVlanExplicitTrackingEnabled
<i>cisVlanExplicitTrackingLimit</i>	(Optional) mib object cisVlanExplicitTrackingLimit

Command Mode

- /exec

show ip igmp snooping snmp mib fallBackTime

show ip igmp snooping snmp mib fallBackTime [__readonly__ <cisFallbackTime>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
fallBackTime	Indicates the time the IGMP address aliasing mode is fallback
__readonly__	(Optional) Read Only
<i>cisFallbackTime</i>	(Optional) mib object cisFallbackTime

Command Mode

- /exec

show ip igmp snooping snmp mib fastBlockEnabled

show ip igmp snooping snmp mib fastBlockEnabled [__readonly__ <cisFastBlockEnabled>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
fastBlockEnabled	Indicates whether Fast-Block mechanism has been enabled for the system
__readonly__	(Optional) Read Only
<i>cisFastBlockEnabled</i>	(Optional) mib object cisFastBlockEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib fastleaveenabled

show ip igmp snooping snmp mib fastleaveenabled [__readonly__ <cisFastLeaveEnabled>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
fastleaveenabled	Check if fastleave is enabled
__readonly__	(Optional) Read Only
<i>cisFastLeaveEnabled</i>	(Optional) mib object cisFastLeaveEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib filterStatsTable

```
show ip igmp snooping snmp mib filterStatsTable [ interface <ifIndex-in> vlan <cisFilterStatsVlanNumber-in>
] [ __readonly__ TABLE_cisFilterStatsTable <ifIndex-out> <cisFilterStatsVlanNumber-out>
<cisFilterAccessGroupDenied> <cisFilterLimitDenied> <cisFilterTotalLimitDenied>
<cisFilterMinVersionDenied> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
filterStatsTable	Display VLAN/BD Filter Group
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
vlan	(Optional) Display Interface access group VLAN/BD information
<i>cisFilterStatsVlanNumber-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisFilterStatsTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisFilterStatsVlanNumber-out</i>	(Optional) mib table index cisFilterStatsVlanNumber
<i>cisFilterAccessGroupDenied</i>	(Optional) mib object cisFilterAccessGroupDenied
<i>cisFilterLimitDenied</i>	(Optional) mib object cisFilterLimitDenied
<i>cisFilterTotalLimitDenied</i>	(Optional) mib object cisFilterTotalLimitDenied
<i>cisFilterMinVersionDenied</i>	(Optional) mib object cisFilterMinVersionDenied

Command Mode

- /exec

show ip igmp snooping snmp mib ifAccessGroupTable

```
show ip igmp snooping snmp mib ifAccessGroupTable [ interface <ifIndex-in> vlan <cisIfAccessGroupVlan-in>
] [ __readonly__ TABLE_cisIfAccessGroupTable <ifIndex-out> <cisIfAccessGroupVlan-out>
<cisIfAccessGroupsChannelsAllowed> <cisIfAccessGroupStorageType> <cisIfAccessGroupRowStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifAccessGroupTable	Display interface access group
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
vlan	(Optional) Display Interface access group VLAN/BD information
<i>cisIfAccessGroupVlan-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisIfAccessGroupTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfAccessGroupVlan-out</i>	(Optional) mib table index cisIfAccessGroupVlan
<i>cisIfAccessGroupsChannelsAllowed</i>	(Optional) mib object cisIfAccessGroupsChannelsAllowed
<i>cisIfAccessGroupStorageType</i>	(Optional) mib object cisIfAccessGroupStorageType
<i>cisIfAccessGroupRowStatus</i>	(Optional) mib object cisIfAccessGroupRowStatus

Command Mode

- /exec

show ip igmp snooping snmp mib ifConfigTable

```
show ip igmp snooping snmp mib ifConfigTable [ interface <ifIndex-in> ] [ __readonly__
TABLE_cisIfConfigTable <ifIndex-out> <cisIfTopoChangeFloodEnabled> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifConfigTable	Display interface configuration
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
<i>TABLE_cisIfConfigTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfTopoChangeFloodEnabled</i>	(Optional) mib object cisIfTopoChangeFloodEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib ifLimitTable

```
show ip igmp snooping snmp mib ifLimitTable [ interface <ifIndex-in> vlan <cisIfLimitVlanNumber-in> ]
[ __readonly__ TABLE_cisIfLimitTable <ifIndex-out> <cisIfLimitVlanNumber-out> <cisIfLimitMax>
<cisIfLimitExcludeAccessGrp> <cisIfLimitStorageType> <cisIfLimitRowStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifLimitTable	Display interface configuration
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
vlan	(Optional) Display Interface Limit VLAN/BD information
<i>cisIfLimitVlanNumber-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisIfLimitTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfLimitVlanNumber-out</i>	(Optional) mib table index cisIfLimitVlanNumber
<i>cisIfLimitMax</i>	(Optional) mib object cisIfLimitMax
<i>cisIfLimitExcludeAccessGrp</i>	(Optional) mib object cisIfLimitExcludeAccessGrp
<i>cisIfLimitStorageType</i>	(Optional) mib object cisIfLimitStorageType
<i>cisIfLimitRowStatus</i>	(Optional) mib object cisIfLimitRowStatus

Command Mode

- /exec

show ip igmp snooping snmp mib ifLimitTotalTable

```
show ip igmp snooping snmp mib ifLimitTotalTable [ interface <ifIndex-in> ] [ __readonly__
TABLE_cisIfLimitTotalTable <ifIndex-out> <cisIfLimitTotalLimitMax> <cisIfLimitTotalExcludeAccessGrp>
<cisIfLimitTotalStorageType> <cisIfLimitTotalRowStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifLimitTotalTable	Display interface configuration
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
<i>TABLE_cisIfLimitTotalTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfLimitTotalLimitMax</i>	(Optional) mib object cisIfLimitTotalLimitMax
<i>cisIfLimitTotalExcludeAccessGrp</i>	(Optional) mib object cisIfLimitTotalExcludeAccessGrp
<i>cisIfLimitTotalStorageType</i>	(Optional) mib object cisIfLimitTotalStorageType
<i>cisIfLimitTotalRowStatus</i>	(Optional) mib object cisIfLimitTotalRowStatus

Command Mode

- /exec

show ip igmp snooping snmp mib igmpsnoopingenabled

show ip igmp snooping snmp mib igmpsnoopingenabled [__readonly__ <cisIgmpSnoopingEnabled>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
igmpsnoopingenabled	Check if IGMP snooping is enabled
__readonly__	(Optional) Read Only
<i>cisIgmpSnoopingEnabled</i>	(Optional) mib object cisIgmpSnoopingEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib interfaceStatsTable

```
show ip igmp snooping snmp mib interfaceStatsTable [ interface <ifIndex-in> ] [ __readonly__
TABLE_cisInterfaceStatsTable <ifIndex-out> <cisTxGeneralQueries> <cisTxGroupSpecificQueries>
<cisTxReports> <cisTxLeaves> <cisRxGeneralQueries> <cisRxGroupSpecificQueries> <cisRxReports>
<cisRxLeaves> <cisRxValidPackets> <cisRxInvalidPackets> <cisRxOtherPackets>
<cisRxMACGeneralQueries> <cisRxTopoNotifications> <cisV3Allows> <cisV3Blocks> <cisV3IsIncluded>
<cisV3IsExcluded> <cisV3ToIncluded> <cisV3ToExcluded> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
interfaceStatsTable	Display interface stats
interface	(Optional) Display interface information
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
<i>TABLE_cisInterfaceStatsTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisTxGeneralQueries</i>	(Optional) mib object cisTxGeneralQueries
<i>cisTxGroupSpecificQueries</i>	(Optional) mib object cisTxGroupSpecificQueries
<i>cisTxReports</i>	(Optional) mib object cisTxReports
<i>cisTxLeaves</i>	(Optional) mib object cisTxLeaves
<i>cisRxGeneralQueries</i>	(Optional) mib object cisRxGeneralQueries
<i>cisRxGroupSpecificQueries</i>	(Optional) mib object cisRxGroupSpecificQueries
<i>cisRxReports</i>	(Optional) mib object cisRxReports
<i>cisRxLeaves</i>	(Optional) mib object cisRxLeaves
<i>cisRxValidPackets</i>	(Optional) mib object cisRxValidPackets
<i>cisRxInvalidPackets</i>	(Optional) mib object cisRxInvalidPackets

<i>cisRxOtherPackets</i>	(Optional) mib object cisRxOtherPackets
<i>cisRxMACGeneralQueries</i>	(Optional) mib object cisRxMACGeneralQueries
<i>cisRxTopoNotifications</i>	(Optional) mib object cisRxTopoNotifications
<i>cisV3Allows</i>	(Optional) mib object cisV3Allows
<i>cisV3Blocks</i>	(Optional) mib object cisV3Blocks
<i>cisV3IsIncluded</i>	(Optional) mib object cisV3IsIncluded
<i>cisV3IsExcluded</i>	(Optional) mib object cisV3IsExcluded
<i>cisV3ToIncluded</i>	(Optional) mib object cisV3ToIncluded
<i>cisV3ToExcluded</i>	(Optional) mib object cisV3ToExcluded

Command Mode

- /exec

show ip igmp snooping snmp mib lastMemeberQueryCount

```
show ip igmp snooping snmp mib lastMemeberQueryCount [ __readonly__ <cisLastMemberQueryCount>
]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
lastMemeberQueryCount	Specifies the Last Member Query Count value of this device
__readonly__	(Optional) Read Only
<i>cisLastMemberQueryCount</i>	(Optional) mib object cisLastMemberQueryCount

Command Mode

- /exec

show ip igmp snooping snmp mib lastMemeberQueryInterval

```
show ip igmp snooping snmp mib lastMemeberQueryInterval [ __readonly__ <cisLastMemberQueryInterval> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
lastMemeberQueryInterval	Specifies the IGMP Last Member Query Interval of this device
__readonly__	(Optional) Read Only
<i>cisLastMemberQueryInterval</i>	(Optional) mib object cisLastMemberQueryInterval

Command Mode

- /exec

show ip igmp snooping snmp mib leaveQueryType

show ip igmp snooping snmp mib leaveQueryType [__readonly__ <cisLeaveQueryType>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
leaveQueryType	Indicates type of leave query
__readonly__	(Optional) Read Only
<i>cisLeaveQueryType</i>	(Optional) mib object cisLeaveQueryType

Command Mode

- /exec

show ip igmp snooping snmp mib mcastGroupTable

```
show ip igmp snooping snmp mib mcastGroupTable [ vlan <cisMcastGroupVlanIndex-in>
<cisMcastGroupAddressType-in> <cisMcastGroupAddress-in> ] [ __readonly__ TABLE_cisMcastGroupTable
<cisMcastGroupVlanIndex-out> <cisMcastGroupAddressType-out> <cisMcastGroupAddress-out>
<cisMcastGroupFilterMode> <cisMcastGroupIgmpVersion> <cisMcastGroupIncludeHostCount>
<cisMcastGroupExcludeHostCount> <cisMcastGroupPortList> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastGroupTable	Show mib table cisMcastGroupTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastGroupVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMcastGroupAddressType-in</i>	(Optional) Address type
<i>cisMcastGroupAddress-in</i>	(Optional) Group address
<i>__readonly__</i>	(Optional)
TABLE_cisMcastGroupTable	(Optional)
<i>cisMcastGroupVlanIndex-out</i>	(Optional) mib table index cisMcastGroupVlanIndex
<i>cisMcastGroupAddressType-out</i>	(Optional) mib table index cisMcastGroupAddressType
<i>cisMcastGroupAddress-out</i>	(Optional) mib table index cisMcastGroupAddress
<i>cisMcastGroupFilterMode</i>	(Optional) mib object cisMcastGroupFilterMode
<i>cisMcastGroupIgmpVersion</i>	(Optional) mib object cisMcastGroupIgmpVersion
<i>cisMcastGroupIncludeHostCount</i>	(Optional) mib object cisMcastGroupIncludeHostCount
<i>cisMcastGroupExcludeHostCount</i>	(Optional) mib object cisMcastGroupExcludeHostCount
<i>cisMcastGroupPortList</i>	(Optional) mib object cisMcastGroupPortList

Command Mode

- /exec

show ip igmp snooping snmp mib mcastRouterCfgTable

```
show ip igmp snooping snmp mib mcastRouterCfgTable [ interface <ifIndex-in> vlan
<cisMcastRouterVlanIndex-in> ] [ __readonly__ TABLE_cisMcastRouterCfgTable <ifIndex-out>
<cisMcastRouterVlanIndex-out> <cisMcastRouterType> <cisMcastRouterRowStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastRouterCfgTable	show mib table cisMcastRouterCfgTable
interface	(Optional) Display Mcast Router Interface Information
<i>ifIndex-in</i>	(Optional) Specify the Mcast router interface
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastRouterVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisMcastRouterCfgTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisMcastRouterVlanIndex-out</i>	(Optional) mib table index cisMcastRouterVlanIndex
<i>cisMcastRouterType</i>	(Optional) mib object cisMcastRouterType
<i>cisMcastRouterRowStatus</i>	(Optional) mib object cisMcastRouterRowStatus

Command Mode

- /exec

show ip igmp snooping snmp mib mcastRouterConfigTable

```
show ip igmp snooping snmp mib mcastRouterConfigTable [ vlan <cisMcastRouterConfigVlanIndex-in>
interface <ifIndex-in> ] [ __readonly__ TABLE_cisMcastRouterConfigTable <ifIndex-out>
<cisMcastRouterConfigVlanIndex-out> <cisMcastRouterConfigRouterType>
<cisMcastRouterConfigStorageType> <cisMcastRouterConfigRowStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastRouterConfigTable	show mib table cisMcastRouterConfigTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastRouterConfigVlanIndex-in</i>	(Optional) Specify VLAN/BD
interface	(Optional) Display Mcast Router Interface Information
<i>ifIndex-in</i>	(Optional) Specify the Mcast router interface index
__readonly__	(Optional)
TABLE_cisMcastRouterConfigTable	(Optional)
<i>cisMcastRouterConfigVlanIndex-out</i>	(Optional) mib table index cisMcastRouterConfigVlanIndex
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisMcastRouterConfigRouterType</i>	(Optional) mib object cisMcastRouterConfigRouterType
<i>cisMcastRouterConfigStorageType</i>	(Optional) mib object cisMcastRouterConfigStorageType
<i>cisMcastRouterConfigRowStatus</i>	(Optional) mib object cisMcastRouterConfigRowStatus

Command Mode

- /exec

show ip igmp snooping snmp mib multicastGroupConfigTable

```
show ip igmp snooping snmp mib multicastGroupConfigTable [ vlan <cisMulticastGroupConfVlanIndex-in>
<cisMulticastGroupConfCeVlanIndex-in> <cisMulticastGroupConfAddressType-in>
<cisMulticastGroupConfAddress-in> <cisMulticastGroupConfSourceAddress-in>
<cisMulticastGroupConfPortRange-in> ] [ __readonly__ TABLE_cisMulticastGroupConfigTable
<cisMulticastGroupConfVlanIndex-out> <cisMulticastGroupConfCeVlanIndex-out>
<cisMulticastGroupConfAddressType-out> <cisMulticastGroupConfAddress-out>
<cisMulticastGroupConfSourceAddress-out> <cisMulticastGroupConfPortRange-out>
<cisMulticastGroupConfPortList> <cisMulticastGroupConfStorageType> <cisMulticastGroupConfRowStatus>
]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
multicastGroupConfigTable	show mib table cisMulticastGroupConfigTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMulticastGroupConfVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMulticastGroupConfCeVlanIndex-in</i>	(Optional) Specify consumer edge VLAN/BD
<i>cisMulticastGroupConfAddressType-in</i>	(Optional) Group Address Type
<i>cisMulticastGroupConfAddress-in</i>	(Optional) Group address
<i>cisMulticastGroupConfSourceAddress-in</i>	(Optional) source address
<i>cisMulticastGroupConfPortRange-in</i>	(Optional) port Range
<i>__readonly__</i>	(Optional)
<i>TABLE_cisMulticastGroupConfigTable</i>	(Optional)
<i>cisMulticastGroupConfVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupConfVlanIndex
<i>cisMulticastGroupConfCeVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupConfCeVlanIndex
<i>cisMulticastGroupConfAddressType-out</i>	(Optional) mib table index cisMulticastGroupConfAddressType
<i>cisMulticastGroupConfAddress-out</i>	(Optional) mib table index cisMulticastGroupConfAddress
<i>cisMulticastGroupConfSourceAddress-out</i>	(Optional) mib table index cisMulticastGroupConfSourceAddress

<i>cisMulticastGroupConfPortRange-out</i>	(Optional) mib table index cisMulticastGroupConfPortRange
<i>cisMulticastGroupConfPortList</i>	(Optional) mib object cisMulticastGroupConfPortList
<i>cisMulticastGroupConfStorageType</i>	(Optional) mib object cisMulticastGroupConfStorageType
<i>cisMulticastGroupConfRowStatus</i>	(Optional) mib object index cisMulticastGroupConfRowStatus

Command Mode

- /exec

show ip igmp snooping snmp mib multicastGroupPortListTable

```
show ip igmp snooping snmp mib multicastGroupPortListTable [ vlan <cisMulticastGroupVlanIndex-in>
<cisMulticastGroupCeVlanIndex-in> <cisMulticastGroupAddressType-in> <cisMulticastGroupAddress-in>
<cisMulticastGroupSourceAddress-in> <cisMulticastGroupPortRangeIndex-in> ] [ __readonly__
TABLE_<cisMulticastGroupPortListTable <cisMulticastGroupVlanIndex-out>
<cisMulticastGroupCeVlanIndex-out> <cisMulticastGroupAddressType-out> <cisMulticastGroupAddress-out>
<cisMulticastGroupSourceAddress-out> <cisMulticastGroupPortRangeIndex-out> <cisMulticastGroupPortList>
]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
multicastGroupPortListTable	show mib table multicastGroupPortListTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMulticastGroupVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMulticastGroupCeVlanIndex-in</i>	(Optional) Specify consumer edge VLAN/BD
<i>cisMulticastGroupAddressType-in</i>	(Optional) Group Address Type
<i>cisMulticastGroupAddress-in</i>	(Optional) Group address
<i>cisMulticastGroupSourceAddress-in</i>	(Optional) source address
<i>cisMulticastGroupPortRangeIndex-in</i>	(Optional) port Range Index
__readonly__	(Optional)
TABLE_<cisMulticastGroupPortListTable	(Optional)
<i>cisMulticastGroupVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupVlanIndex
<i>cisMulticastGroupCeVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupCeVlanIndex
<i>cisMulticastGroupAddressType-out</i>	(Optional) mib table index cisMulticastGroupAddressType
<i>cisMulticastGroupAddress-out</i>	(Optional) mib table index cisMulticastGroupAddress
<i>cisMulticastGroupSourceAddress-out</i>	(Optional) mib table index cisMulticastGroupSourceAddress
<i>cisMulticastGroupPortRangeIndex-out</i>	(Optional) mib table index cisMulticastGroupPortRangeIndex

<i>cisMulticastGroupPortList</i>	(Optional) mib object cisMulticastGroupPortList
----------------------------------	---

Command Mode

- /exec

show ip igmp snooping snmp mib multicastGroupTable

```
show ip igmp snooping snmp mib multicastGroupTable [ vlan <cisMulticastGroupVlanIndex-in>
<cisMulticastGroupCeVlanIndex-in> <cisMulticastGroupAddressType-in> <cisMulticastGroupAddress-in>
<cisMulticastGroupSourceAddress-in> ] [ __readonly__ TABLE_cisMulticastGroupTable
<cisMulticastGroupVlanIndex-out> <cisMulticastGroupCeVlanIndex-out>
<cisMulticastGroupAddressType-out> <cisMulticastGroupAddress-out>
<cisMulticastGroupSourceAddress-out> <cisMulticastGroupGroupType> <cisMulticastGroupIgmpVersion>
<cisMulticastGroupSourceUpTime> <cisMulticastGroupSourceExpires> <cisMulticastGroupInclHostCount>
<cisMulticastGroupExclHostCount> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
multicastGroupTable	show mib table multicastGroupTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMulticastGroupVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMulticastGroupCeVlanIndex-in</i>	(Optional) Specify consumer edge VLAN/BD
<i>cisMulticastGroupAddressType-in</i>	(Optional) Group Address Type
<i>cisMulticastGroupAddress-in</i>	(Optional) Group address
<i>cisMulticastGroupSourceAddress-in</i>	(Optional) Source address
<i>__readonly__</i>	(Optional)
TABLE_cisMulticastGroupTable	(Optional)
<i>cisMulticastGroupVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupVlanIndex
<i>cisMulticastGroupCeVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupCeVlanIndex
<i>cisMulticastGroupAddressType-out</i>	(Optional) mib table index cisMulticastGroupAddressType
<i>cisMulticastGroupAddress-out</i>	(Optional) mib table index cisMulticastGroupAddress
<i>cisMulticastGroupSourceAddress-out</i>	(Optional) mib table index cisMulticastGroupSourceAddress
<i>cisMulticastGroupGroupType</i>	(Optional) mib object cisMulticastGroupGroupType

<i>cisMulticastGroupIgmpVersion</i>	(Optional) mib object cisMulticastGroupIgmpVersion
<i>cisMulticastGroupSourceUpTime</i>	(Optional) mib object cisMulticastGroupSourceUpTime
<i>cisMulticastGroupSourceExpires</i>	(Optional) mib object cisMulticastGroupSourceExpires
<i>cisMulticastGroupInclHostCount</i>	(Optional) mib object cisMulticastGroupInclHostCount
<i>cisMulticastGroupExclHostCount</i>	(Optional) mib object cisMulticastGroupExclHostCount

Command Mode

- /exec

show ip igmp snooping snmp mib operMode

show ip igmp snooping snmp mib operMode [__readonly__ <cisOperMode>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
operMode	Indicates the operational snooping mode of the device
__readonly__	(Optional) Read Only
<i>cisOperMode</i>	(Optional) mib object cisOperMode

Command Mode

- /exec

show ip igmp snooping snmp mib querierTable

```
show ip igmp snooping snmp mib querierTable [ vlan <cisIgmpQuerierVlanIndex-in> ] [ __readonly__
TABLE_cisIgmpQuerierTable <cisIgmpQuerierVlanIndex-out> <cisIgmpQuerierEnabled>
<cisIgmpQuerierState> <cisIgmpQuerierVersion> <cisIgmpQuerierAddressType> <cisIgmpQuerierAddress>
<cisIgmpQuerierInterface> <cisIgmpQuerierTcnQueryCount> <cisIgmpQuerierTcnQueryInterval>
<cisIgmpQuerierTimerExpiry> <cisIgmpQuerierMaxResponseTime> <cisIgmpQuerierQueryInterval>
<cisIgmpQuerierAdminAddressType> <cisIgmpQuerierAdminAddress> <cisIgmpQuerierAdminVersion>
<cisIgmpQuerierTcnQueryPending> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
querierTable	Show mib table cisIgmpQuerierTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisIgmpQuerierVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisIgmpQuerierTable</i>	(Optional)
<i>cisIgmpQuerierVlanIndex-out</i>	(Optional) mib table index cisIgmpQuerierVlanIndex
<i>cisIgmpQuerierEnabled</i>	(Optional) mib object cisIgmpQuerierEnabled
<i>cisIgmpQuerierState</i>	(Optional) mib object cisIgmpQuerierState
<i>cisIgmpQuerierVersion</i>	(Optional) mib object cisIgmpQuerierVersion
<i>cisIgmpQuerierAddressType</i>	(Optional) mib object cisIgmpQuerierAddressType
<i>cisIgmpQuerierAddress</i>	(Optional) mib object cisIgmpQuerierAddress
<i>cisIgmpQuerierInterface</i>	(Optional) mib object cisIgmpQuerierInterface
<i>cisIgmpQuerierTcnQueryCount</i>	(Optional) mib object cisIgmpQuerierTcnQueryCount
<i>cisIgmpQuerierTcnQueryInterval</i>	(Optional) mib object cisIgmpQuerierTcnQueryInterval
<i>cisIgmpQuerierTimerExpiry</i>	(Optional) mib object cisIgmpQuerierTimerExpiry
<i>cisIgmpQuerierMaxResponseTime</i>	(Optional) mib object cisIgmpQuerierMaxResponseTime

<i>cisIgmpQuerierQueryInterval</i>	(Optional) mib object cisIgmpQuerierQueryInterval
<i>cisIgmpQuerierAdminAddressType</i>	(Optional) mib object cisIgmpQuerierAdminAddressType
<i>cisIgmpQuerierAdminAddress</i>	(Optional) mib object cisIgmpQuerierAdminAddress
<i>cisIgmpQuerierAdminVersion</i>	(Optional) mib object cisIgmpQuerierAdminVersion
<i>cisIgmpQuerierTcnQueryPending</i>	(Optional) mib object cisIgmpQuerierTcnQueryPending

Command Mode

- /exec

show ip igmp snooping snmp mib reportsuppressionenabled

```
show ip igmp snooping snmp mib reportsuppressionenabled [ __readonly__ <cisReportSuppressionEnabled> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
reportsuppressionenabled	Check if reportsuppression is enabled
__readonly__	(Optional) Read Only
<i>cisReportSuppressionEnabled</i>	(Optional) mib object cisReportSuppressionEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib robustnessVariable

show ip igmp snooping snmp mib robustnessVariable [__readonly__ <cisRobustnessVariable>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
robustnessVariable	Specifies the Robustness Variable of this device
__readonly__	(Optional) Read Only
<i>cisRobustnessVariable</i>	(Optional) mib object cisRobustnessVariable

Command Mode

- /exec

show ip igmp snooping snmp mib routerAlertCheckEnabled

```
show ip igmp snooping snmp mib routerAlertCheckEnabled [ __readonly__ <cisLastMemberQueryCount> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
routerAlertCheckEnabled	Specifies whether checking of Router-Alert option is enabled for IGMP traffic in the system
__readonly__	(Optional) Read Only
<i>cisLastMemberQueryCount</i>	(Optional) mib object cisLastMemberQueryCount

Command Mode

- /exec

show ip igmp snooping snmp mib sourceOnlyEntryAgingTime

```
show ip igmp snooping snmp mib sourceOnlyEntryAgingTime [ __readonly__
<cisSourceOnlyEntryAgingTime> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
sourceOnlyEntryAgingTime	Specifies the aging time in seconds for Source Only multicast entries
__readonly__	(Optional) Read Only
<i>cisSourceOnlyEntryAgingTime</i>	(Optional) mib object cisSourceOnlyEntryAgingTime

Command Mode

- /exec

show ip igmp snooping snmp mib sourceOnlyLearningEnabled

```
show ip igmp snooping snmp mib sourceOnlyLearningEnabled [ __readonly__
<cisSourceOnlyLearningEnabled> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
sourceOnlyLearningEnabled	Specifies whether Source Only multicast entries are learned by IGMP Snooping or not
__readonly__	(Optional) Read Only
<i>cisSourceOnlyLearningEnabled</i>	(Optional) mib object cisSourceOnlyLearningEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib tcnFloodQueryCount

```
show ip igmp snooping snmp mib tcnFloodQueryCount [ __readonly__ <cisTopoChangeFloodQueryCount> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
tcnFloodQueryCount	Specifies the flooding period for multicast traffic upon receiving Topology Change Notifications
__readonly__	(Optional) Read Only
<i>cisTopoChangeFloodQueryCount</i>	(Optional) mib object cisTopoChangeFloodQueryCount

Command Mode

- /exec

show ip igmp snooping snmp mib timeToLiveCheckEnabled

```
show ip igmp snooping snmp mib timeToLiveCheckEnabled [ __readonly__ <cisTimeToLiveCheckEnabled>
]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
timeToLiveCheckEnabled	Specifies whether Time-To-Live (TTL) check is enabled when processing IGMP packets in the system
__readonly__	(Optional) Read Only
<i>cisTimeToLiveCheckEnabled</i>	(Optional) mib object cisTimeToLiveCheckEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib topoChangeQuerySolicitEnabled

```
show ip igmp snooping snmp mib topoChangeQuerySolicitEnabled [ __readonly__
<cisTopoChangeQuerySolicitEnabled> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
topoChangeQuerySolicitEnabled	Specifies whether the device running IGMP Snooping will solicit IGMP General Queries from the Querier upon receiving a TCN
__readonly__	(Optional) Read Only
<i>cisTopoChangeQuerySolicitEnabled</i>	(Optional) mib object cisTopoChangeQuerySolicitEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus

```
show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus [ __readonly__
<cisV3ProcessEnabledAdminStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
v3ProcessEnabledAdminStatus	Indicates the administrative status of IGMP v3 processing in the system
__readonly__	(Optional) Read Only
<i>cisV3ProcessEnabledAdminStatus</i>	(Optional) mib object cisV3ProcessEnabledAdminStatus

Command Mode

- /exec

show ip igmp snooping snmp mib v3SnoopingSupport

show ip igmp snooping snmp mib v3SnoopingSupport [__readonly__ <cisV3SnoopingSupport>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
v3SnoopingSupport	Indicates IGMP Snooping support for IGMPv3
__readonly__	(Optional) Read Only
<i>cisV3SnoopingSupport</i>	(Optional) mib object cisV3SnoopingSupport

Command Mode

- /exec

show ip igmp snooping snmp mib vlanFilterConfigTable

```
show ip igmp snooping snmp mib vlanFilterConfigTable [ vlan <cisVlanIndex-in> ] [ __readonly__
TABLE_cisVlanFilterConfigTable <cisVlanIndex-out> <cisVlanFilterAccessGroup> <cisVlanFilterLimitMax>
<cisVlanFilterLimitExclAccessGrp> <cisVlanFilterMinVersionAllowed> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
vlanFilterConfigTable	Display VLAN/BD Filter Group
vlan	(Optional) Display Interface access group VLAN/BD information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisVlanFilterConfigTable</i>	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib talbe index cisVlanIndex>
<i>cisVlanFilterAccessGroup</i>	(Optional) mib table index cisVlanFilterAccessGroup
<i>cisVlanFilterLimitMax</i>	(Optional) mib object cisVlanFilterLimitMax
<i>cisVlanFilterLimitExclAccessGrp</i>	(Optional) mib object cisVlanFilterLimitExclAccessGrp
<i>cisVlanFilterMinVersionAllowed</i>	(Optional) mib object cisVlanFilterMinVersionAllowed

Command Mode

- /exec

show ip igmp snooping snmp mib vlanconfigtable

```
show ip igmp snooping snmp mib vlanconfigtable [ vlan <cisVlanIndex-in> ] [ __readonly__
TABLE_cisVlanConfigTable <cisVlanIndex-out> <cisVlanIgmpSnoopingEnabled>
<cisVlanFastLeaveEnabled> <cisVlanIgmpSnoopingOperMode> <cisVlanIgmpSnoopingLearningMode>
<cisVlanReportSuppressionEnabled> <cisVlanLeaveQueryInterval> <cisVlanLastMemberQueryCount>
<cisVlanRobustnessVariable> <cisVlanTimeToLiveCheckEnabled> <cisVlanRouterAlertCheckEnabled> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
vlanconfigtable	Show mib table cisVlanConfigTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisVlanConfigTable</i>	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib table index cisVlanIndex
<i>cisVlanIgmpSnoopingEnabled</i>	(Optional) mib object cisVlanIgmpSnoopingEnabled
<i>cisVlanFastLeaveEnabled</i>	(Optional) mib object cisVlanFastLeaveEnabled
<i>cisVlanIgmpSnoopingOperMode</i>	(Optional) mib object cisVlanIgmpSnoopingOperMode
<i>cisVlanIgmpSnoopingLearningMode</i>	(Optional) mib object cisVlanIgmpSnoopingLearningMode
<i>cisVlanReportSuppressionEnabled</i>	(Optional) mib object cisVlanReportSuppressionEnabled
<i>cisVlanLeaveQueryInterval</i>	(Optional) mib object cisVlanLeaveQueryInterval
<i>cisVlanLastMemberQueryCount</i>	(Optional) mib object cisVlanLastMemberQueryCount
<i>cisVlanRobustnessVariable</i>	(Optional) mib object cisVlanRobustnessVariable
<i>cisVlanTimeToLiveCheckEnabled</i>	(Optional) mib object cisVlanTimeToLiveCheckEnabled
<i>cisVlanRouterAlertCheckEnabled</i>	(Optional) mib object cisVlanRouterAlertCheckEnabled

Command Mode

- /exec

show ip igmp snooping statistics

```
show ip igmp snooping statistics [ global | vlan <vlan> | bridge-domain <bidid> ] [ __readonly__ [ <pr> ] [
<inv_pkt> ] [ <pnv> ] [ <loopbkpkt> ] [ <mrdloopbk> ] [ <pf> ] [ <vpcdrqs> ] [ <vpcdrqr> ] [ <vpcdrqf> ] [
<vpcdrus> ] [ <vpcdrur> ] [ <vpcdruf> ] [ <vpccfssf> ] [ <vpccfsrc> ] [ <vpccfsrr> ] [ <vpccfsrf> ] [ <vpccfsrpf> ]
] [ <vpccfsurl> ] [ <vpccfsurlr> ] [ <vpccfsurlf> ] [ <vpccfsrsl> ] [ <vpccfsrslr> ] [ <vpccfsrslf> ] [ <inv_iod> ]
] [ <stptcnr> ] [ <imapif> ] [ <mfreqr> ] [ <mfcmps> ] [ <mfdgcmps> ] [ <bufsnt> ] [ <bufackr> ] [
<vpcmismatch> ] [ { TABLE_vlan [ <vlan-id> ] [ <ut> ] [ <vpr> ] [ <v1rr> ] [ <v2rr> ] [ <v3rr> ] [ <v1qr> ]
] [ <v2qr> ] [ <v3qr> ] [ <v2lr> ] [ <phr> ] [ <irr> ] [ <iqr> ] [ <v1rs> ] [ <v2rs> ] [ <v2ls> ] [ <v3gs> ] [
<vmr> ] [ <upr> ] [ <qo> ] [ <v2ro> ] [ <v2lo> ] [ <v3ro> ] [ <vpsr> ] [ <str> ] [ <mps> ] [ <mpr> ] [ <mpe> ]
] [ <cps> ] [ <cpr> ] [ <cpe> ] [ <repflooded> ] [ <repfwded> ] } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
statistics	Display packet/error counter statistics
global	(Optional) Display global statistics
vlan	(Optional) Display VLAN statistics
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD statistics
<i>bidid</i>	(Optional) Specify BD
<i>__readonly__</i>	(Optional)
<i>pr</i>	(Optional)
<i>inv_pkt</i>	(Optional)
<i>pnv</i>	(Optional)
<i>loopbkpkt</i>	(Optional)
<i>mrdloopbk</i>	(Optional)
<i>pf</i>	(Optional)
<i>vpcdrqs</i>	(Optional)
<i>vpcdrqr</i>	(Optional)
<i>vpcdrqf</i>	(Optional)
<i>vpcdrus</i>	(Optional)

<i>vpcdrur</i>	(Optional)
<i>vpcdruf</i>	(Optional)
<i>vpccfssf</i>	(Optional)
<i>vpccfsrs</i>	(Optional)
<i>vpccfsrr</i>	(Optional)
<i>vpccfsrf</i>	(Optional)
<i>vpccfsrfp</i>	(Optional)
<i>vpccfsurls</i>	(Optional)
<i>vpccfsurlr</i>	(Optional)
<i>vpccfsurlf</i>	(Optional)
<i>vpccfsrls</i>	(Optional)
<i>vpccfsrlr</i>	(Optional)
<i>vpccfsrlf</i>	(Optional)
<i>inv_iod</i>	(Optional)
<i>stptcnr</i>	(Optional)
<i>imapif</i>	(Optional)
<i>mfreqr</i>	(Optional)
<i>mfcmps</i>	(Optional)
<i>mfdgcmps</i>	(Optional)
<i>bufsnt</i>	(Optional)
<i>bufackr</i>	(Optional)
<i>vpcmismatch</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>ut</i>	(Optional)
<i>vpr</i>	(Optional)
<i>v1rr</i>	(Optional)
<i>v2rr</i>	(Optional)
<i>v3rr</i>	(Optional)

<i>v1qr</i>	(Optional)
<i>v2qr</i>	(Optional)
<i>v3qr</i>	(Optional)
<i>v2lr</i>	(Optional)
<i>phr</i>	(Optional)
<i>irr</i>	(Optional)
<i>iqr</i>	(Optional)
<i>v1rs</i>	(Optional)
<i>v2rs</i>	(Optional)
<i>v2ls</i>	(Optional)
<i>v3gs</i>	(Optional)
<i>vmr</i>	(Optional)
<i>upr</i>	(Optional)
<i>qo</i>	(Optional)
<i>v2ro</i>	(Optional)
<i>v2lo</i>	(Optional)
<i>v3ro</i>	(Optional)
<i>vpsr</i>	(Optional)
<i>str</i>	(Optional)
<i>cps</i>	(Optional)
<i>cpr</i>	(Optional)
<i>cpe</i>	(Optional)
<i>mps</i>	(Optional)
<i>mpr</i>	(Optional)
<i>mpe</i>	(Optional)
<i>repflooded</i>	(Optional)
<i>repfwded</i>	(Optional)

Command Mode

- /exec

show ip igmp vrf all

```
show ip igmp vrf all [ __readonly__ { TABLE_vrfname <vrf-name> <vrf-id> <instance> <work-in-txlist> }
{ TABLE_vrfid <vrf-name-i> <vrf-id-i> <instance-i> <work-in-txlist-i> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
vrf	Display per-VRF information
all	Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrfname	(Optional)
<i>vrf-name</i>	(Optional)
<i>vrf-id</i>	(Optional)
<i>instance</i>	(Optional)
<i>work-in-txlist</i>	(Optional)
TABLE_vrfid	(Optional)
<i>vrf-name-i</i>	(Optional)
<i>vrf-id-i</i>	(Optional)
<i>instance-i</i>	(Optional)
<i>work-in-txlist-i</i>	(Optional)

Command Mode

- /exec

show ip interface

```
show ip interface { { { brief [ include-secondary ] } | [ <interface> ] | [ <ip-addr> ] } [ operational ] [ vaddr ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf <vrf-name-out> ] [ TABLE_intf
<intf-name> <proto-state> <link-state> <admin-state> <iod> <prefix> <subnet> <masklen> [
TABLE_secondary_address <prefix1> <subnet1> <masklen1> ] [ <num-addr> ] [ <vaddr-client> ] [
<vaddr-prefix> ] [ <vaddr-subnet> ] [ <vaddr-masklen> ] [ <num-vaddr> ] [ <unnum-intf> ] [ <ip-disabled>
] [ <bcast-addr> ] [ <maddr> ] [ <num-maddr> ] [ <mtu> ] [ <pref> ] [ <tag> ] [ <proxy-arp> ] [ <lcl-proxy-arp>
] [ <mrouting> ] [ <icmp-redirect> ] [ <dir-bcast> ] [ <ip-unreach> ] [ <port-unreach> ] [ <urpf-mode> ] [
<ip-ls-type> ] [ <urpf-acl> ] [ <pbr-in> ] [ <pbr-out> ] [ <acl-in> ] [ <acl-out> ] [ <stats-last-reset> ] [
<upkt-sent> ] [ <upkt-recv> ] [ <upkt-fwd> ] [ <upkt-orig> ] [ <upkt-consumed> ] [ <ubyte-sent> ] [
<ubyte-recv> ] [ <ubyte-fwd> ] [ <ubyte-orig> ] [ <ubyte-consumed> ] [ <mpkt-sent> ] [ <mpkt-recv> ] [
<mpkt-fwd> ] [ <mpkt-orig> ] [ <mpkt-consumed> ] [ <mbyte-sent> ] [ <mbyte-recv> ] [ <mbyte-fwd> ] [
<mbyte-orig> ] [ <mbyte-consumed> ] [ <bpkt-sent> ] [ <bpkt-recv> ] [ <bpkt-fwd> ] [ <bpkt-orig> ] [
<bpkt-consumed> ] [ <bbyte-sent> ] [ <bbyte-recv> ] [ <bbyte-fwd> ] [ <bbyte-orig> ] [ <bbyte-consumed>
] [ <lpkt-sent> ] [ <lpkt-recv> ] [ <lpkt-fwd> ] [ <lpkt-orig> ] [ <lpkt-consumed> ] [ <lbyte-sent> ] [
<lbyte-recv> ] [ <lbyte-fwd> ] [ <lbyte-orig> ] [ <lbyte-consumed> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
interface	Display IP related interface information
brief	Display summary of IP interface status and configuration
include-secondary	(Optional) Display summary of all IP addresses
operational	(Optional) Display only interfaces that are administratively enabled
<i>interface</i>	(Optional) Interface name to display
<i>ip-addr</i>	(Optional) Display interface for local IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
vaddr	(Optional) Display virtual IP addresses as well
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)

<i>intf-name</i>	(Optional)
<i>iod</i>	(Optional)
<i>prefix</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>subnet</i>	(Optional)
<i>masklen</i>	(Optional)
TABLE_secondary_address	(Optional)
<i>prefix1</i>	(Optional)
<i>subnet1</i>	(Optional)
<i>masklen1</i>	(Optional)
<i>num-addr</i>	(Optional)
<i>vaddr-client</i>	(Optional)
<i>vaddr-prefix</i>	(Optional)
<i>vaddr-subnet</i>	(Optional)
<i>vaddr-masklen</i>	(Optional)
<i>num-vaddr</i>	(Optional)
<i>unnum-intf</i>	(Optional)
<i>ip-disabled</i>	(Optional)
<i>bcast-addr</i>	(Optional)
<i>maddr</i>	(Optional)
<i>num-maddr</i>	(Optional)
<i>mtu</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>proxy-arp</i>	(Optional)
<i>lcl-proxy-arp</i>	(Optional)
<i>mrouting</i>	(Optional)

<i>icmp-redirect</i>	(Optional)
<i>dir-bcast</i>	(Optional)
<i>ip-unreach</i>	(Optional)
<i>port-unreach</i>	(Optional)
<i>urpf-mode</i>	(Optional)
<i>ip-ls-type</i>	(Optional)
<i>urpf-acl</i>	(Optional)
<i>pbr-in</i>	(Optional)
<i>pbr-out</i>	(Optional)
<i>acl-in</i>	(Optional)
<i>acl-out</i>	(Optional)
<i>stats-last-reset</i>	(Optional)
<i>upkt-sent</i>	(Optional)
<i>upkt-recv</i>	(Optional)
<i>upkt-fwd</i>	(Optional)
<i>upkt-orig</i>	(Optional)
<i>upkt-consumed</i>	(Optional)
<i>ubyte-sent</i>	(Optional)
<i>ubyte-recv</i>	(Optional)
<i>ubyte-fwd</i>	(Optional)
<i>ubyte-orig</i>	(Optional)
<i>ubyte-consumed</i>	(Optional)
<i>mpkt-sent</i>	(Optional)
<i>mpkt-recv</i>	(Optional)
<i>mpkt-fwd</i>	(Optional)
<i>mpkt-orig</i>	(Optional)
<i>mpkt-consumed</i>	(Optional)
<i>mbyte-sent</i>	(Optional)
<i>mbyte-recv</i>	(Optional)

<i>mbyte-fwd</i>	(Optional)
<i>mbyte-orig</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>bpkt-sent</i>	(Optional)
<i>bpkt-recv</i>	(Optional)
<i>bpkt-fwd</i>	(Optional)
<i>bpkt-orig</i>	(Optional)
<i>bpkt-consumed</i>	(Optional)
<i>bbyte-sent</i>	(Optional)
<i>bbyte-recv</i>	(Optional)
<i>bbyte-fwd</i>	(Optional)
<i>bbyte-orig</i>	(Optional)
<i>bbyte-consumed</i>	(Optional)
<i>lpkt-sent</i>	(Optional)
<i>lpkt-recv</i>	(Optional)
<i>lpkt-fwd</i>	(Optional)
<i>lpkt-orig</i>	(Optional)
<i>lpkt-consumed</i>	(Optional)
<i>lbyte-sent</i>	(Optional)
<i>lbyte-recv</i>	(Optional)
<i>lbyte-fwd</i>	(Optional)
<i>lbyte-orig</i>	(Optional)
<i>lbyte-consumed</i>	(Optional)

Command Mode

- /exec

show ip lisp

```
show { ip | ipv6 } lisp [ database ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
database	(Optional) Show EID-prefixes configured for site
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp data-cache

```
show ip lisp data-cache [ <eid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
lisp	LISP show commands
data-cache	Display EID-to-RLOC data cache mapping in this ITR
<i>eid</i>	(Optional) Display mapping for IP destination EID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp locator-hash

```
{ { show ip lisp locator-hash { <eid-prefix> | { <source-eid> <dest-eid> } } [ vrf { <vrf-name> | <vrf-known-name> } ] } | { show ipv6 lisp locator-hash { <eid-prefix6> | { <source-eid6> <dest-eid6> } } [ vrf { <vrf-name> | <vrf-known-name> } ] } }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
locator-hash	Display source and dest locators for EID pair
<i>source-eid</i>	Source IPv4 endpoint identifier (EID)
<i>dest-eid</i>	Destination IPv4 endpoint identifier (EID)
<i>eid-prefix</i>	Display exact match for IP EID-prefix entry
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp map-cache

```
{ { show ip lisp map-cache [ <eid> | <eid-prefix> | detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] } | {
show ipv6 lisp map-cache [ <eid6> | <eid-prefix6> | detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] } }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
map-cache	Display EID-to-RLOC cache mapping in this ITR
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>eid</i>	(Optional) Display mapping for IP destination EID
<i>eid-prefix</i>	(Optional) Display exact match for IP EID-prefix entry
detail	(Optional) Display entire map-cache in long format

Command Mode

- /exec

show ip lisp statistics

```
show { ip | ipv6 } lisp statistics [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
statistics	Display global LISP statistics
vrf	(Optional) Display statistics information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp translate-cache

```
{ show ip lisp translate-cache [ <nrEID> ] } | { show ipv6 lisp translate-cache [ <nrEID6> ] }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
translate-cache	Display configured translation cache
<i>nrEID</i>	(Optional) IPv4 address of inside non-routable EID
<i>nrEID6</i>	(Optional) IPv6 address of inside non-routable EID

Command Mode

- /exec

show ip lisp version-hash

show { ip | ipv6 } lisp version-hash { <eid-prefix> | <eid-prefix6> }

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
version-hash	Display version-hash for EID-record
<i>eid-prefix</i>	Local IP EID-prefix from database-mapping command

Command Mode

- /exec

show ip load-sharing

```
show ip load-sharing [ __readonly__ { <univer-id-ran-seed> [ <l3-msg-load> ] [ <l34-msg-load> ] [ <dest-addr-load> ] [ <src-dst-ip-gre> ] [ <bad-load> ] } ]
```

Syntax Description

show	Show running system information
ip	Configure IP features
load-sharing	Display global loadbalance info
<i>__readonly__</i>	(Optional)
<i>univer-id-ran-seed</i>	(Optional)
<i>l3-msg-load</i>	(Optional)
<i>l34-msg-load</i>	(Optional)
<i>dest-addr-load</i>	(Optional)
<i>src-dst-ip-gre</i>	(Optional)
<i>bad-load</i>	(Optional)

Command Mode

- /exec

show ip local-pt

```
show ip local-pt [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
local-pt	Display local ip address ptree
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ip local policy

```
show ip local policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_pbr <interface>
<rmap> <status> <vrf_name> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
local	IP local options
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

Command Mode

- /exec

show ip logging

```
show ip logging [ hash ] [ __readonly__ ]
```

Syntax Description

show	Show running system information
ip	Display IP information
logging	Display IP policy logging table
hash	(Optional) logging hash data
__readonly__	(Optional)

Command Mode

- /exec

show ip mbgp

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast | mdt } |
all } ] } } [ <ip-addr> [ <ip-mask> [ longer-prefixes ] ] | <ip-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ip-addr</i>	(Optional) Display one particular network from the BRIB in detail
<i>ip-mask</i>	(Optional) Mask for one particular prefix in the BRIB
<i>ip-prefix</i>	(Optional) Display one particular prefix from the BRIB in detail
longer-prefixes	(Optional) Display route and more specific routes
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
mdt	(Optional) Display BGP information for multicast distribution tree
all	(Optional) Display BGP information for all address families

Command Mode

- /exec

show ip mbgp

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } { route-map { <rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | {
community-list { <commlist-name> | <test_pol_name> } | extcommunity-list { <extcommlist-name> |
<test_pol_name> } } [ exact-match ] } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] }
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
route-map	Display routes matching the route-map
<i>rmap-name</i>	Route-map name
<i>rmap-name</i>	Known route-map name
filter-list	Display routes matching the filter-list
<i>fltrlist-name</i>	Name of filter-list
community-list	Display routes matching the community-list
extcommunity-list	Display routes matching the extcommunity-list
<i>commlist-name</i>	Name of community-list
<i>extcommlist-name</i>	Name of extcommunity-list
<i>test_pol_name</i>	An existing test-list policy
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ip mbgp community

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } community { <regexp-str> | { { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display BGP information for all address families
community	Display routes matching the BGP communities
<i>regexp-str</i>	Regular expression to match the communities
<i>comm-id</i>	BGP community value
<i>wellknown-id</i>	BGP wellknown community
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ip mbgp dampening

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } dampening { dampened-paths [ regexp <regexp-str> ] | flap-statistics | parameters | history-paths [ regexp
<regexp-str> ] } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
dampening	Display dampening info
dampened-paths	Display all dampened paths
flap-statistics	Display flap statistics for routes
parameters	Display dampening parameters
history-paths	Display all history paths
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
regexp	(Optional) Display routes matching the AS path regular expression
<i>regexp-str</i>	(Optional) Regular expression to match the AS paths

Command Mode

- /exec

show ip mbgp extcommunity

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { ipv4 { unicast | multicast } | all }
] } } extcommunity { <regexp-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] }
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display BGP information for all address families
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
<i>regexp-str</i>	Regular expression to match the extcommunities
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
exact-match	(Optional) Exact match of the extcommunities

Command Mode

- /exec

show ip mbgp flap-statistics

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } flap-statistics [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
flap-statistics	Display route flap statistics
<i>ip-prefix</i>	(Optional) Display flap statistics for one prefix
<i>ip-addr</i>	(Optional) Display flap statistics for one network
<i>ip-mask</i>	(Optional) Network mask
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families

Command Mode

- /exec

show ip mbgp neighbors

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } neighbors [ [ { <neighbor-id> | <ipv6-neighbor-id> } [ routes [ advertised | received | dampened ] |
advertised-routes | received-routes | paths | flap-statistics ] ] | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id>
} [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
neighbors	Display all configured BGP neighbors
<i>neighbor-id</i>	(Optional) Display one particular BGP neighbor
<i>neighbor-prefix-id</i>	Display details for a prefix peering
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
routes	(Optional) Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
advertised-routes	(Optional) Display all the routes advertised to this peer
received-routes	(Optional) Display all the routes received from this peer
flap-statistics	(Optional) Display flap statistics for routes received from this peer
paths	(Optional) Display AS paths learned from this peer

Command Mode

- /exec

show ip mbgp nexthop-database

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } nexthop-database [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
nexthop-database	Display nexthop database
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families

Command Mode

- /exec

show ip mbgp nexthop

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } nexthop
<ipnexthop> [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
nexthop	Display routes matching the nexthop
<i>ipnexthop</i>	Nexthop address
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family

Command Mode

- /exec

show ip mbgp prefix-list

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } }
prefix-list { <prfxlist-name> | <test_pol_name> } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
prefix-list	Display routes matching the prefix-list
<i>prfxlist-name</i>	Name of prefix-list
<i>test_pol_name</i>	An existing test-list policy
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family

Command Mode

- /exec

show ip mbgp received-paths

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } received-paths [ private ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
received-paths	Display paths stored for soft-reconfig
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
private	(Optional) private

Command Mode

- /exec

show ip mroute

```
show ip mroute [ [ bitfield ] [ detail ] | rp | sr | { [ <group> ] summary [ software-forwarded | rpf-failed ] } | {
summary [ count | software-forwarded | rpf-failed ] } | { { <source> <group> [ mofrr ] } | { <group> [
<source> | mofrr ] | <group> shared-tree | <group> source-tree } | shared-tree | source-tree | mofrr } { [ flags
] | [ detail ] | [ summary [ software-forwarded | rpf-failed ] | bitfield ] } } ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ _readonly_ TABLE_vrf <vrf-name> [ <expiry_timer> ] [ <route_count> ] [
<star_g_cnt> ] [ <sg_cnt> ] [ <star_g_prfx_cnt> ] [ TABLE_route_summary [ <total-num-routes> ] [
<star-g-route> ] [ <sg-route> ] [ <star-g-prfx> ] [ <group-count> ] [ <avg> ] [ <rem> ] [ <stats-pndg> ] ] [
TABLE_summary_source [ <group_addr> ] [ <group_mask_len> ] [ <source_count> ] [ TABLE_one_sg [
<source_addr> ] [ <packets> ] [ <bytes> ] [ <aps> ] [ <pps> ] [ <rate_buf> ] [ <oifs> ] [ <software_fwd> ] [
<rpf-failed-pkts> ] [ <rpf-failed-bytes> ] ] ] [ TABLE_one_route <mcast-addr> <pending> <bidir> <uptime>
<mofrr> ] [ TABLE_mpib [ <mpib-name> ] [ <oif-count> ] [ <stale-route> ] ] [ <mdt-encap-index> ] [
<stats-pkts> ] [ <stats-bytes> ] [ <stats-rate-buf> ] [ <lisp-src-rloc> ] [ <route-iif> ] [ <rpf-nbr> ] [ <mofrr-iif>
] [ <mofrr-nbr> ] <internal> [ <oif-count> ] <fabric-oif> <fabric-loser> [ <num-vpc-svi-oifs> ] [ TABLE_oif
[ <oif-name> ] [ <oif-uptime> ] [ TABLE_oif_mpib [ <oif-mpib-name> ] [ <stale-oif> ] [ <omd-vpc-svi> ]
] <rpf> ] [ <route-mdt-iod> ] [ <oif-list-bitfield> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mroute	Display IP multicast routing table
summary	(Optional) Display route counts and packet rates
shared-tree	(Optional) Display route for *,G entries
source-tree	(Optional) Display route for S,G entries
software-forwarded	(Optional) Display software switched route counts only
rpf-failed	(Optional) Display RPF failure statistics
rp	(Optional) Display RP routes (RP, 0.0.0.0/32)
sr	(Optional) Display Service Reflect Routes only
mofrr	(Optional) Display mofrr routes
<i>group</i>	(Optional) Display multicast group/source address for route
<i>source</i>	(Optional) Display multicast group/source address for route

count	(Optional) Display route counts only
bitfield	(Optional) Display bitfield details
detail	(Optional) Display detailed route attributes
flags	(Optional) Display detailed route attributes
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>expy_timer</i>	(Optional)
<i>route_count</i>	(Optional)
<i>star_g_cnt</i>	(Optional)
<i>sg_cnt</i>	(Optional)
<i>star_g_prfx_cnt</i>	(Optional)
TABLE_summary_source	(Optional)
<i>group_addr</i>	(Optional)
<i>group_mask_len</i>	(Optional)
<i>source_count</i>	(Optional)
TABLE_one_sg	(Optional)
<i>source_addr</i>	(Optional)
<i>packets</i>	(Optional)
<i>bytes</i>	(Optional)
<i>aps</i>	(Optional)
<i>pps</i>	(Optional)
<i>rate_buf</i>	(Optional)
<i>oifs</i>	(Optional)
<i>software_fwd</i>	(Optional)
<i>rpf-failed-pkts</i>	(Optional)
<i>rpf-failed-bytes</i>	(Optional)
TABLE_one_route	(Optional)
<i>mcast-addrs</i>	(Optional)

<i>bidir</i>	(Optional)
<i>pending</i>	(Optional)
<i>mofrr</i>	(Optional)
<i>uptime</i>	(Optional)
TABLE_mpib	(Optional)
<i>mpib-name</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>stale-route</i>	(Optional)
<i>mdt-encap-index</i>	(Optional)
<i>stats-pkts</i>	(Optional)
<i>stats-bytes</i>	(Optional)
<i>stats-rate-buf</i>	(Optional)
<i>lisp-src-rloc</i>	(Optional)
<i>route-iif</i>	(Optional)
<i>rpf-nbr</i>	(Optional)
<i>mofrr-iif</i>	(Optional)
<i>mofrr-nbr</i>	(Optional)
<i>internal</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>fabric-oif</i>	(Optional)
<i>fabric-loser</i>	(Optional)
<i>num-vpc-svi-oifs</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>oif-uptime</i>	(Optional)
TABLE_oif_mpib	(Optional)
<i>oif-mpib-name</i>	(Optional)
<i>stale-oif</i>	(Optional)
<i>omd-vpc-svi</i>	(Optional)

<i>rpf</i>	(Optional)
<i>route-mdt-iod</i>	(Optional)
<i>oif-list-bitfield</i>	(Optional)
TABLE_route_summary	(Optional)
<i>total-num-routes</i>	(Optional)
<i>star-g-route</i>	(Optional)
<i>sg-route</i>	(Optional)
<i>star-g-prfx</i>	(Optional)
<i>group-count</i>	(Optional)
<i>avg</i>	(Optional)
<i>rem</i>	(Optional)
<i>stats-pndg</i>	(Optional)

Command Mode

- /exec

show ip msdp count

```
show ip msdp count [ <asn> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-vrf>
<total-cnt> { TABLE_asn <out-asn> <src-cnt> <grp-cnt> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
count	Display SA cache counters
<i>asn</i>	(Optional) AS number
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-vrf</i>	(Optional)
<i>total-cnt</i>	(Optional)
TABLE_asn	(Optional)
<i>out-asn</i>	(Optional)
<i>src-cnt</i>	(Optional)
<i>grp-cnt</i>	(Optional)

Command Mode

- /exec

show ip msdp event-history

```
show ip msdp [ <asn> ] [ internal ] event-history { errors | msgs | <msdp-event-hist-buf-name> | statistics }
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
<i>asn</i>	(Optional) AS number
internal	(Optional) Commands for internal use
event-history	Show various event logs of MSDP
errors	Error logs of MSDP
msgs	Message logs of MSDP
<i>msdp-event-hist-buf-name</i>	Buffer
statistics	Buffer state

Command Mode

- /exec

show ip msdp mesh-group

```
show ip msdp mesh-group [ <mesh-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
<out-vrf> { TABLE_meshgroup <meshgroup-name> { TABLE_peer <peer-ipaddr> <peer-asn>
<peer-description> } } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
mesh-group	Display members of mesh-group
<i>mesh-group</i>	(Optional) Display single mesh-group
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_meshgroup	(Optional)
<i>meshgroup-name</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-ipaddr</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>peer-description</i>	(Optional)

Command Mode

- /exec

show ip msdp peer

```
show ip msdp peer [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ {
TABLE_peer <peer-ipaddr> <out-vrf> <peer-asn> <local-ipaddr> <local-iface> <fully-configured>
<peer-description> <connection-status> <state-duration> <peer-listening> <peer-uptime> <peer-password>
<peer-ki> <peer-kt> <peer-ri> <peer-rr> <sa-in-policy> <sa-out-policy> <sa-limit> <mesh-name> <last-rcvd>
<sa-rcvd> <sa-sent> <sa-req-rcvd> <sa-req-sent> <sa-resp-rcvd> <sa-resp-sent> <out-ctrl-msgs> <in-ctrl-msgs>
<out-data-msgs> <in-data-msgs> <sa-ka-rcvd> <sa-ka-sent> <sa-notif-rcvd> <sa-notif-sent> <rem-port>
<local-port> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
peer	Display MSDP peer information
<i>peer-address</i>	(Optional) IP address of MSDP peer
__readonly__	(Optional)
TABLE_peer	(Optional)
<i>peer-ipaddr</i>	(Optional)
<i>out-vrf</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>local-ipaddr</i>	(Optional)
<i>local-iface</i>	(Optional)
<i>fully-configured</i>	(Optional)
<i>peer-description</i>	(Optional)
<i>connection-status</i>	(Optional)
<i>state-duration</i>	(Optional)
<i>peer-listening</i>	(Optional)
<i>peer-uptime</i>	(Optional)

<i>peer-password</i>	(Optional)
<i>peer-ki</i>	(Optional)
<i>peer-kt</i>	(Optional)
<i>peer-ri</i>	(Optional)
<i>peer-rr</i>	(Optional)
<i>sa-in-policy</i>	(Optional)
<i>sa-out-policy</i>	(Optional)
<i>sa-limit</i>	(Optional)
<i>mesh-name</i>	(Optional)
<i>last-rcvd</i>	(Optional)
<i>sa-rcvd</i>	(Optional)
<i>sa-sent</i>	(Optional)
<i>sa-req-rcvd</i>	(Optional)
<i>sa-req-sent</i>	(Optional)
<i>sa-resp-rcvd</i>	(Optional)
<i>sa-resp-sent</i>	(Optional)
<i>out-ctrl-msgs</i>	(Optional)
<i>in-ctrl-msgs</i>	(Optional)
<i>out-data-msgs</i>	(Optional)
<i>in-data-msgs</i>	(Optional)
<i>sa-ka-rcvd</i>	(Optional)
<i>sa-ka-sent</i>	(Optional)
<i>sa-notif-rcvd</i>	(Optional)
<i>sa-notif-sent</i>	(Optional)
<i>rem-port</i>	(Optional)
<i>local-port</i>	(Optional)

Command Mode

- /exec

show ip msdp policy statistics sa-policy in

```
show ip msdp policy statistics sa-policy <peer-address> { in | out } [ vrf { <vrf-name> | <vrf-known-name>
} ] [ __readonly__ { TABLE_routemap <name> <action> <seq_num> [ { TABLE_cmd <command>
<match_count> <compare_count> } ] } <total_accept_count> <total_reject_count> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	MSDP global configuration commands
policy	Policy information
statistics	Policy statistics
sa-policy	Configured SA policy for MSDP peer
<i>peer-address</i>	IP address of MSDP peer for SA policy
in	Input policy
out	Output policy
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ip msdp rpf

```
show ip msdp rpf <rp-address> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-rp-address>
<out-vrf> [ TABLE_mesh [ <peer-addr> ] [ <mesh-name> ] ] [ <is-peer-cnt-one> ] [ <is-rp-peer> ] [
<is-bgp-alive> ] [ <bgp-peer-addr> ] [ <peer-asn> ] [ <origin-asn> ] [ <is-mbgp> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
rpf	Display RPF-peer for RP address
<i>rp-address</i>	IP address of RP
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-rp-address</i>	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_mesh	(Optional)
<i>peer-addr</i>	(Optional)
<i>mesh-name</i>	(Optional)
<i>is-peer-cnt-one</i>	(Optional)
<i>is-rp-peer</i>	(Optional)
<i>is-bgp-alive</i>	(Optional)
<i>bgp-peer-addr</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>origin-asn</i>	(Optional)
<i>is-mbgp</i>	(Optional)

Command Mode

- /exec

show ip msdp sa

```
show ip msdp { sa-cache | route } [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <asn> ] [ peer
<peer> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-vrf> <total-sa-count>
{ TABLE_sa <src-addr> <grp-addr> <rp-addr> <out-asn> <peer-addr> <uptime> <expire> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Display MSDP SA route cache
sa-cache	Display MSDP SA route cache
<i>source</i>	(Optional) Display group/source address for SA
<i>group</i>	(Optional) Display group/source address for SA
<i>asn</i>	(Optional) AS number
detail	(Optional) Display detailed information
peer	(Optional) Display MSDP SA received from single peer
<i>peer</i>	(Optional) IP address of peer for SA
<i>__readonly__</i>	(Optional)
<i>out-vrf</i>	(Optional)
<i>total-sa-count</i>	(Optional)
TABLE_sa	(Optional)
<i>src-addr</i>	(Optional)
<i>grp-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>peer-addr</i>	(Optional)
<i>out-asn</i>	(Optional)

<i>uptime</i>	(Optional)
<i>expire</i>	(Optional)

Command Mode

- /exec

show ip msdp sources

```
show ip msdp sources [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-vrf> {
TABLE_source <source-addr> <is-count-ge-limit> <count> <is-limit-valid> <limit> <source-prefix> <violates>
} ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
sources	Display learned sources with their group counts and limits
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_source	(Optional)
<i>source-addr</i>	(Optional)
<i>is-count-ge-limit</i>	(Optional)
<i>count</i>	(Optional)
<i>is-limit-valid</i>	(Optional)
<i>limit</i>	(Optional)
<i>source-prefix</i>	(Optional)
<i>violates</i>	(Optional)

Command Mode

- /exec

show ip msdp statistics

```
show ip msdp statistics [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
<out-vrf> <select-err> <recv-sel-err> { TABLE_peer <peer-address> <buffer-full> <recv-buf-full> <fatal-err>
<recv-fat-err> <would-block> <recv-would-block> <sock-exp> <invalid-type> <invalid-len> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
statistics	Display internal statistics
<i>peer-address</i>	(Optional) IP address of MSDP peer
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-vrf</i>	(Optional)
<i>select-err</i>	(Optional)
<i>recv-sel-err</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-address</i>	(Optional)
<i>buffer-full</i>	(Optional)
<i>recv-buf-full</i>	(Optional)
<i>fatal-err</i>	(Optional)
<i>recv-fat-err</i>	(Optional)
<i>would-block</i>	(Optional)
<i>recv-would-block</i>	(Optional)
<i>sock-exp</i>	(Optional)
<i>invalid-type</i>	(Optional)
<i>invalid-len</i>	(Optional)

Command Mode

- /exec

show ip msdp summary

```
show ip msdp summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-vrf> <local-asn>
<originator-id> <config-peer-count> <estb-peer-count> <shut-peer-count> { TABLE_peer <peer-address>
<peer-asn> <peer-state> <peer-uptime> <peer-last-msg> <peer-sa-rcvd> <peer-sa-limit> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary	Display MSDP peer summary
<i>__readonly__</i>	(Optional)
<i>out-vrf</i>	(Optional)
<i>local-asn</i>	(Optional)
<i>originator-id</i>	(Optional)
<i>config-peer-count</i>	(Optional)
<i>estb-peer-count</i>	(Optional)
<i>shut-peer-count</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-address</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>peer-state</i>	(Optional)
<i>peer-uptime</i>	(Optional)
<i>peer-last-msg</i>	(Optional)
<i>peer-sa-rcvd</i>	(Optional)
<i>peer-sa-limit</i>	(Optional)

Command Mode

- /exec

show ip multicast vrf

```
show ip multicast vrf [ <vrf-name> | <vrf-known-name> | all ] [ detail ] [ __readonly__ <vrf-count> {
TABLE_vrf <vrf-name> <cid> <tid> <rc> <gc> <sc> <star_gc> <state> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
multicast	Display multicast routing info
vrf	Display information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-count</i>	(Optional)
<i>cid</i>	(Optional)
<i>tid</i>	(Optional)
<i>rc</i>	(Optional)
<i>gc</i>	(Optional)
<i>sc</i>	(Optional)
<i>star_gc</i>	(Optional)
<i>state</i>	(Optional)

Command Mode

- /exec

show ip nat max

```
show ip nat max [ __readonly__ <max_translations> <max_dyn_translations> <max_all_host>
<static_translations> <dynamic_translations> <icmp_translations> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
max	IP NAT max values
<i>__readonly__</i>	(Optional)
<i>max_translations</i>	(Optional) Max Translations
<i>max_dyn_translations</i>	(Optional) Max Dynamic Translations
<i>max_all_host</i>	(Optional) Max All Hosts
<i>static_translations</i>	(Optional) No. Static Translations
<i>dynamic_translations</i>	(Optional) No. Dynamic Translations
<i>icmp_translations</i>	(Optional) No. ICMP Translations

Command Mode

- /exec

show ip nat statistics

show ip nat statistics

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
statistics	Translation statistics

Command Mode

- /exec

show ip nat timeout

```
show ip nat timeout [ __readonly__ <tcp_timeout> <udp_timeout> <dynamic_timeout> <sampling_timeout> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
timeout	IP NAT timeout values
<i>__readonly__</i>	(Optional)
<i>tcp_timeout</i>	(Optional) TCP Timeout
<i>udp_timeout</i>	(Optional) UDP Timeout
<i>dynamic_timeout</i>	(Optional) Dynamic Timeout
<i>sampling_timeout</i>	(Optional) Sampling Timeout

Command Mode

- /exec

show ip nat translations

```
show ip nat translations [ vrf { <vrf-name> | <vrf-known-name> } ] [ verbose ] [ __readonly__ {
TABLE_nat_translation [ <Protocol> ] [ <Inside_global_IP_V4_Address> ] [ <Inside_global_port> ] [
<Inside_local_IP_V4_Address> ] [ <Inside_local_port> ] [ <Outside_local_IP_V4_Address> ] [
<Outside_local_port> ] [ <Outside_global_IP_V4_Address> ] [ <Outside_global_port> ] } ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
translations	Translation entries
verbose	(Optional) Show extra information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional) Readonly
TABLE_nat_translation	(Optional) NAT Translation Table
<i>Protocol</i>	(Optional) Protocol
<i>Inside_global_IP_V4_Address</i>	(Optional) Inside global address
<i>Inside_global_port</i>	(Optional) Inside global port
<i>Inside_local_IP_V4_Address</i>	(Optional) Inside local address
<i>Inside_local_port</i>	(Optional) Inside local port
<i>Outside_local_IP_V4_Address</i>	(Optional) Outside local address
<i>Outside_local_port</i>	(Optional) Outside local port
<i>Outside_global_IP_V4_Address</i>	(Optional) Outside global address
<i>Outside_global_port</i>	(Optional) Outside global port

Command Mode

- /exec

show ip ospf

```
show ip ospf [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag>
<instance_number> <cname> <rid> [ <domain_tag> ] [ <dn_bit_ignore> ] <stateful_ha> <gr_ha> [
<gr_planned_only> ] [ <gr_notify_period> ] [ <gr_grace_period> ] [ <gr_state> ] [ <gr_last_status> ] [
<gr_helper_mode> ] <support_tos0_only> <support_opaque_lsa> [ <low_mem_cond> ] <is_asbr> <is_asbr>
[ <max_lsa_non_self_number> ] [ <max_lsa_state> ] [ <max_lsa_warning_only> ] [
<max_lsa_current_non_self_lsa_number> ] [ <max_lsa_threshold_pct> ] [ <max_lsa_ignore_time> ] [
<max_lsa_reset_time> ] [ <max_lsa_ignore_count> ] [ <max_lsa_current_ignore_count> ] [
<max_lsa_ignore_time_left> ] [ <max_lsa_reset_time_left> ] [ <max_lsa_permanent_ignore> ] [ {
TABLE_redist <proto> [ <max_lsas> ] [ <warning> ] [ <threshold> ] [ <current_count> ] } ] <admin_dist>
<ref_bw> <spf_start_time> <spf_hold_time> <spf_max_time> <lsa_start_time> <lsa_hold_time>
<lsa_max_time> <min_lsa_arr_time> <lsa_aging_pace> <spf_max_paths> <max_metric_adver> [ [
<max_metric_time_left> ] [ <max_metric_wait_bgp> ] [ <max_metric_timeout> ] [ <max_metric_always>
] [ <max_metric_sum_lsa> ] [ <max_metric_ext_lsa> ] ] <asext_lsa_cnt> <asext_lsa_crc> <asopaque_lsa_cnt>
<asopaque_lsa_crc> <area_total> <area_normal> <area_stub> <area_nssa> <act_area_total> <act_area_normal>
<act_area_stub> <act_area_nssa> <no_discard_rt_ext> <no_discard_rt_int> [ <bfd_enabled> ] [ <passive_dflt>
] [ <name_lookup> ] [ { TABLE_area <aname> [ <backbone_active> ] [ <active> ] <age> <total_intf>
<act_intf> <passive_intf> <loopback_intf> [ <gr_nbr_cnt> ] <stub> [ <stub_def_cost> ] <nssa> [ <no_redist>
] [ <nssa_trans> ] <no_summary> <auth_type> <spf_runs> <last_spf_run_time> [ <rtr_lsa_throt> ] [
TABLE_range <addr> <masklen> <state> <nets> <advertise> [ <cost> ] ] [ <filter_in> ] [ <filter_out> ]
<lsa_cnt> <lsa_crc> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>instance_number</i>	(Optional)
<i>cname</i>	(Optional)
<i>rid</i>	(Optional)

<i>domain_tag</i>	(Optional)
<i>dn_bit_ignore</i>	(Optional)
<i>stateful_ha</i>	(Optional)
<i>gr_ha</i>	(Optional)
<i>gr_planned_only</i>	(Optional)
<i>gr_notify_period</i>	(Optional)
<i>gr_grace_period</i>	(Optional)
<i>gr_state</i>	(Optional)
<i>gr_last_status</i>	(Optional)
<i>gr_helper_mode</i>	(Optional)
<i>support_tos0_only</i>	(Optional)
<i>support_opaque_lsa</i>	(Optional)
<i>low_mem_cond</i>	(Optional)
<i>is_abr</i>	(Optional)
<i>is_asbr</i>	(Optional)
<i>max_lsa_non_self_number</i>	(Optional)
<i>max_lsa_state</i>	(Optional)
<i>max_lsa_warning_only</i>	(Optional)
<i>max_lsa_current_non_self_lsa_number</i>	(Optional)
<i>max_lsa_threshold_pct</i>	(Optional)
<i>max_lsa_ignore_time</i>	(Optional)
<i>max_lsa_reset_time</i>	(Optional)
<i>max_lsa_ignore_count</i>	(Optional)
<i>max_lsa_current_ignore_count</i>	(Optional)
<i>max_lsa_ignore_time_left</i>	(Optional)
<i>max_lsa_reset_time_left</i>	(Optional)
<i>max_lsa_permanent_ignore</i>	(Optional)
TABLE_redist	(Optional)
<i>proto</i>	(Optional)

<i>max_lsas</i>	(Optional)
<i>warning</i>	(Optional)
<i>threshold</i>	(Optional)
<i>current_count</i>	(Optional)
<i>admin_dist</i>	(Optional)
<i>ref_bw</i>	(Optional)
<i>spf_start_time</i>	(Optional)
<i>spf_hold_time</i>	(Optional)
<i>spf_max_time</i>	(Optional)
<i>lsa_start_time</i>	(Optional)
<i>lsa_hold_time</i>	(Optional)
<i>lsa_max_time</i>	(Optional)
<i>min_lsa_arr_time</i>	(Optional)
<i>lsa_aging_pace</i>	(Optional)
<i>spf_max_paths</i>	(Optional)
<i>max_metric_adver</i>	(Optional)
<i>max_metric_time_left</i>	(Optional)
<i>max_metric_wait_bgp</i>	(Optional)
<i>max_metric_timeout</i>	(Optional)
<i>max_metric_always</i>	(Optional)
<i>max_metric_sum_lsa</i>	(Optional)
<i>max_metric_ext_lsa</i>	(Optional)
<i>asext_lsa_cnt</i>	(Optional)
<i>asext_lsa_crc</i>	(Optional)
<i>asopaque_lsa_cnt</i>	(Optional)
<i>asopaque_lsa_crc</i>	(Optional)
<i>area_total</i>	(Optional)
<i>area_normal</i>	(Optional)
<i>area_stub</i>	(Optional)

<i>area_nssa</i>	(Optional)
<i>act_area_total</i>	(Optional)
<i>act_area_normal</i>	(Optional)
<i>act_area_stub</i>	(Optional)
<i>act_area_nssa</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>name_lookup</i>	(Optional)
<i>passive_dflt</i>	(Optional)
<i>no_discard_rt_ext</i>	(Optional)
<i>no_discard_rt_int</i>	(Optional)
TABLE_area	(Optional)
<i>aname</i>	(Optional)
<i>backbone_active</i>	(Optional)
<i>active</i>	(Optional)
<i>age</i>	(Optional)
<i>total_intf</i>	(Optional)
<i>act_intf</i>	(Optional)
<i>passive_intf</i>	(Optional)
<i>loopback_intf</i>	(Optional)
<i>gr_nbr_cnt</i>	(Optional)
<i>stub</i>	(Optional)
<i>stub_def_cost</i>	(Optional)
<i>nssa</i>	(Optional)
<i>no_redist</i>	(Optional)
<i>nssa_trans</i>	(Optional)
<i>no_summary</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>spf_runs</i>	(Optional)
<i>last_spf_run_time</i>	(Optional)

<i>rtr_lsa_throt</i>	(Optional)
TABLE_range	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>state</i>	(Optional)
<i>nets</i>	(Optional)
<i>advertise</i>	(Optional)
<i>cost</i>	(Optional)
<i>filter_in</i>	(Optional)
<i>filter_out</i>	(Optional)
<i>lsa_cnt</i>	(Optional)
<i>lsa_crc</i>	(Optional)

Command Mode

- /exec

<i>ubest_nh_addr</i>	(Optional)
<i>ubest_nh_intf</i>	(Optional)
TABLE_br_mbest_nh	(Optional)
<i>mbest_nh_addr</i>	(Optional)
<i>mbest_nh_intf</i>	(Optional)

Command Mode

- /exec

show ip ospf database

```
show ip ospf [ <tag> ] database [ [ [ network | asbr-summary | summary | router | opaque-link | opaque-area
| nssa-external ] [ area <area-id-ip> ] ] | external [ ext_tag <tag_val> ] | opaque-as [ [ <lsid> ] [ self-originated
| adv-router <advrid> | adv-router-name <adv-name> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_db2_lsa <name> [ <area> ] <id> <advrtr> <age>
<seqno> <cksum> [ <opaque_id> ] [ <corrupt> ] [ <rtr_num_links> ] [ <tag> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
network	(Optional) Display network LSAs
asbr-summary	(Optional) Display type 4 (asbr-summary) LSAs
external	(Optional) Display type 5 (external) LSAs
router	(Optional) Display router LSAs
nssa-external	(Optional) Display type 7 (NSSA external) LSAs
opaque-link	(Optional) Display Opaque Link-Local LSAs
opaque-area	(Optional) Display Opaque Area LSAs
opaque-as	(Optional) Display Opaque AS LSAs
summary	(Optional) Display type 3 (network-summary) LSAs
self-originated	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
<i>advrid</i>	(Optional) Advertising router ID
adv-router-name	(Optional) Restrict display by Advertising router name

<i>adv-name</i>	(Optional) DNS Name of the Advertising router
<i>area</i>	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
<i>ext_tag</i>	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_db2_lsa	(Optional)
<i>name</i>	(Optional)
<i>area</i>	(Optional)
<i>id</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>age</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>opaque_id</i>	(Optional)
<i>corrupt</i>	(Optional)
<i>rtr_num_links</i>	(Optional)

Command Mode

- /exec

show ip ospf database database-summary

```
show ip ospf [ <tag> ] database database-summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_dbsum [ TABLE_dbsum_area <area> [
TABLE_dbsum_area_lsa <area_lsa_name> <area_lsa_count> ] <area_lsa_total> ] [ TABLE_dbsum_all [
TABLE_dbsum_lsa_all <lsa_name> <lsa_count> ] <non_self_lsa_total> <lsa_total> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
database-summary	Summary of database
<u>__readonly__</u>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_dbsum	(Optional)
TABLE_dbsum_area	(Optional)
<i>area</i>	(Optional)
TABLE_dbsum_area_lsa	(Optional)
<i>area_lsa_name</i>	(Optional)
<i>area_lsa_count</i>	(Optional)
<i>area_lsa_total</i>	(Optional)
TABLE_dbsum_all	(Optional)

TABLE_dbsum_lsa_all	(Optional)
<i>lsa_name</i>	(Optional)
<i>lsa_count</i>	(Optional)
<i>non_self_lsa_total</i>	(Optional)
<i>lsa_total</i>	(Optional)

Command Mode

- /exec

show ip ospf database detail

```
show ip ospf [ <tag> ] database [ [ network | asbr-summary | summary | router | opaque-link | opaque-area |
nssa-external ] [ area <area-id-ip> ] ] external [ ext_tag <tag_val> ] opaque-as [ <lsid> ] [ self-originated
| adv-router <adv-id> | adv-router-name <adv-name> ] detail [ vrf { <vrf-name> | <vrf-known-name> | all } ]
[ __readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_db2_lsa <name> [ <area> ] [ <rtr_max_metric>
] [ TABLE_lsdb <age> <maxage> <options> <options_str> <wrapping> <dummy> <flush_pending> <type>
<id> <id_str> [ <opaque_type> ] [ <opaque_id> ] <advrtr> <seqno> <cksum> <len> [ <corrupt> ] [ <rtr_abr>
] [ <rtr_asbr> ] [ <rtr_translate> ] [ <rtr_vlink_end> ] [ <rtr_num_links> ] [ <rtr_links_mismatch> ] [
TABLE_rlsa [ <rtr_link_type> ] [ <rtr_link_id_str> ] [ <rtr_link_id> ] [ <rtr_link_data_str> ] [ <rtr_link_data>
] [ <rtr_link_num_tos> ] [ <rtr_link_metric> ] [ TABLE_rlinktos [ <rtr_link_tos_id> ] [ <rtr_link_tos_metric>
] ] [ <net_mask> ] [ TABLE_netlsa [ <net_rtr> ] ] [ <sum_mask> ] [ <sum_metric> ] [ TABLE_sumlsa [
<sum_tos_id> ] [ <sum_tos_metric> ] ] [ <nssa_mask> ] [ <nssa_metric_type2> ] [ <nssa_metric> ] [
<nssa_fwd_addr> ] [ <nssa_tag> ] [ TABLE_nssa [ <nssa_tos_metric_type2> ] [ <nssa_tos_id> ] [
<nssa_tos_metric> ] [ <nssa_tos_fwd_addr> ] [ <nssa_tos_tag> ] ] [ <asext_mask> ] [ <asext_metric_type2>
] [ <asext_metric> ] [ <asext_fwd_addr> ] [ <asext_tag> ] [ TABLE_asext [ <asext_tos_metric_type2> ] [
<asext_tos_id> <asext_tos_metric> ] [ <asext_tos_fwd_addr> ] [ <asext_tos_tag> ] ] [ <opaque_link_intf>
] [ <opaque_unknown> ] [ <opaque_data_len> ] [ <opaque_data> ] [ <opaque_corrupt> ] [ <tlv_type> ] [
<tlv_len> ] [ <tlv_data> ] [ <tlv_unknown> ] [ <gr_interval> ] [ <gr_reason> ] [ <gr_addr> ] [ <te_frag_id>
] [ <te_rtr_id> ] [ <te_link_type> ] [ <te_link_id> ] [ <te_link_metric> ] [ <te_link_max_bw> ] [
<te_link_rsv_bw> ] [ <te_link_unrsv_bw> ] [ <te_link_admin> ] [ <te_num_links> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
network	(Optional) Display network LSAs
asbr-summary	(Optional) Display type 4 (asbr-summary) LSAs
external	(Optional) Display type 5 (external) LSAs
router	(Optional) Display router LSAs
nssa-external	(Optional) Display type 7 (NSSA external) LSAs
opaque-link	(Optional) Display Opaque Link-Local LSAs

opaque-area	(Optional) Display Opaque Area LSAs
opaque-as	(Optional) Display Opaque AS LSAs
summary	(Optional) Display type 3 (network-summary) LSAs
self-originated	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
<i>advid</i>	(Optional) Advertising router ID
adv-router-name	(Optional) Restrict display by Advertising router name
<i>adv-name</i>	(Optional) DNS Name of the Advertising router
area	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
ext_tag	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
detail	Display LSA in detail
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_db2_lsa	(Optional)
<i>name</i>	(Optional)
<i>area</i>	(Optional)
<i>rtr_max_metric</i>	(Optional)
TABLE_lsdb	(Optional)
<i>age</i>	(Optional)
<i>maxage</i>	(Optional)
<i>options</i>	(Optional)
<i>options_str</i>	(Optional)
<i>wrapping</i>	(Optional)

<i>dummy</i>	(Optional)
<i>flush_pending</i>	(Optional)
<i>type</i>	(Optional)
<i>id</i>	(Optional)
<i>id_str</i>	(Optional)
<i>opaque_type</i>	(Optional)
<i>opaque_id</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>len</i>	(Optional)
<i>corrupt</i>	(Optional)
<i>rtr_abr</i>	(Optional)
<i>rtr_asbr</i>	(Optional)
<i>rtr_translate</i>	(Optional)
<i>rtr_vlink_end</i>	(Optional)
<i>rtr_num_links</i>	(Optional)
<i>rtr_links_mismatch</i>	(Optional)
TABLE_rlsa	(Optional)
<i>rtr_link_type</i>	(Optional)
<i>rtr_link_id_str</i>	(Optional)
<i>rtr_link_id</i>	(Optional)
<i>rtr_link_data_str</i>	(Optional)
<i>rtr_link_data</i>	(Optional)
<i>rtr_link_num_tos</i>	(Optional)
<i>rtr_link_metric</i>	(Optional)
TABLE_rlinktos	(Optional)
<i>rtr_link_tos_id</i>	(Optional)
<i>rtr_link_tos_metric</i>	(Optional)

<i>net_mask</i>	(Optional)
TABLE_netlsa	(Optional)
<i>net_rtr</i>	(Optional)
<i>sum_mask</i>	(Optional)
<i>sum_metric</i>	(Optional)
TABLE_sumlsa	(Optional)
<i>sum_tos_id</i>	(Optional)
<i>sum_tos_metric</i>	(Optional)
<i>nssa_mask</i>	(Optional)
<i>nssa_metric_type2</i>	(Optional)
<i>nssa_metric</i>	(Optional)
<i>nssa_fwd_addr</i>	(Optional)
<i>nssa_tag</i>	(Optional)
TABLE_nssa	(Optional)
<i>nssa_tos_metric_type2</i>	(Optional)
<i>nssa_tos_id</i>	(Optional)
<i>nssa_tos_metric</i>	(Optional)
<i>nssa_tos_fwd_addr</i>	(Optional)
<i>nssa_tos_tag</i>	(Optional)
<i>asext_mask</i>	(Optional)
<i>asext_metric_type2</i>	(Optional)
<i>asext_metric</i>	(Optional)
<i>asext_fwd_addr</i>	(Optional)
<i>asext_tag</i>	(Optional)
TABLE_asext	(Optional)
<i>asext_tos_metric_type2</i>	(Optional)
<i>asext_tos_id</i>	(Optional)
<i>asext_tos_metric</i>	(Optional)
<i>asext_tos_fwd_addr</i>	(Optional)

<i>asext_tos_tag</i>	(Optional)
<i>opaque_link_intf</i>	(Optional)
<i>opaque_unknown</i>	(Optional)
<i>opaque_data_len</i>	(Optional)
<i>opaque_data</i>	(Optional)
<i>opaque_corrupt</i>	(Optional)
<i>tlv_type</i>	(Optional)
<i>tlv_len</i>	(Optional)
<i>tlv_data</i>	(Optional)
<i>tlv_unknown</i>	(Optional)
<i>gr_interval</i>	(Optional)
<i>gr_reason</i>	(Optional)
<i>gr_addr</i>	(Optional)
<i>te_frag_id</i>	(Optional)
<i>te_rtr_id</i>	(Optional)
<i>te_link_type</i>	(Optional)
<i>te_link_id</i>	(Optional)
<i>te_link_metric</i>	(Optional)
<i>te_link_max_bw</i>	(Optional)
<i>te_link_rsv_bw</i>	(Optional)
<i>te_link_unrsv_bw</i>	(Optional)
<i>te_link_admin</i>	(Optional)
<i>te_num_links</i>	(Optional)

Command Mode

- /exec

show ip ospf event-history

show ip ospf [<tag>] [internal] event-history { errors | msgs | statistics | adjacency | event | ha | flooding | lsa | spf | redistribution | ldp | te | rib | hello | spf-trigger | cli | objstore }

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show various event logs of OSPF
errors	Error logs
msgs	IPC logs
statistics	Show the state and size of the buffers
adjacency	Adjacency formation logs
event	Internal event logs
ha	HA and GR logs
flooding	LSA flooding logs
lsa	LSA generation and database logs
spf	SPF calculation logs
redistribution	Redistribution logs
ldp	LDP related logs
te	MPLS TE related logs
rib	RIB related logs
hello	Hello related logs
cli	Cli logs
spf-trigger	SPF TRIGGER related logs
objstore	DME OBJSTORE related logs

Command Mode

- /exec

show ip ospf event-history detail

show ip ospf [<tag>] [internal] event-history detail [statistics]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show event history of OSPF
detail	Show detailed event history information
statistics	(Optional) Show the state and size of the verbose history buffer

Command Mode

- /exec

show ip ospf ha

```
show ip ospf [ <tag> ] ha [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag>
<cname> <stateful> <pss_restored> <pss_state> <gr_enabled> <gr_grace_period> <gr_state> <gr_last_status>
<gr_helper_mode> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ha	High Availability status
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>stateful</i>	(Optional)
<i>pss_restored</i>	(Optional)
<i>pss_state</i>	(Optional)
<i>gr_enabled</i>	(Optional)
<i>gr_grace_period</i>	(Optional)
<i>gr_state</i>	(Optional)
<i>gr_last_status</i>	(Optional)
<i>gr_helper_mode</i>	(Optional)

Command Mode

- /exec

show ip ospf interface

```
show ip ospf [ <tag> ] interface [ <interface> | vrf { <vrf-name> | <vrf-known-name> | all } ] [ private ] [
__readonly__ TABLE_ctx <ptag> <cname> [ TABLE_intf <ifname> <admin_status> <proto_status> [
<unnumbered> ] <addr> [ <masklen> ] [ <parent_intf> ] <area> [ <if_cfg> ] <state_str> <type_str> <cost>
[ <bfd_enabled> ] [ <ldp_sync> ] <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [
<dr_rid> ] [ <dr_addr> ] [ <bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr>
] [ <hello_interval> ] [ <dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [
<wait_timer> ] [ <pacing_timer> ] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer> ] [ <auth_type>
] [ <keychain_name> ] [ <keychain_ready> ] [ <auth_md5_keyid> ] [ <auth_keyid> ] [ <auth_algo> ] [
<link_lsa_cnt> ] [ <link_lsa_crc> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
<i>interface</i>	(Optional) OSPF enabled interface
private	(Optional) Developer-only statistics
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>admin_status</i>	(Optional)
<i>proto_status</i>	(Optional)
<i>unnumbered</i>	(Optional)
<i>addr</i>	(Optional)

<i>masklen</i>	(Optional)
<i>parent_intf</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>ldp_sync</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)

<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>auth_keyid</i>	(Optional)
<i>auth_algo</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)

Command Mode

- /exec

show ip ospf interface brief

```
show ip ospf [ <tag> ] interface brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <intf_count> TABLE_intf <ifname> <index> <area> <cost> <state_str>
<nbr_total> <admin_status> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
brief	Display summary of OSPF interfaces
<u>__readonly__</u>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>intf_count</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>index</i>	(Optional)
<i>area</i>	(Optional)
<i>cost</i>	(Optional)
<i>state_str</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>admin_status</i>	(Optional)

Command Mode

- /exec

- /exec

show ip ospf memory

```
show ip ospf [ <tag> ] memory [ __readonly__ TABLE_mem <ptag> <byte_total> <byte_consumed>
<byte_overhead> <byte_allocated> <alloc_current> <alloc_created> <alloc_failed> <alloc_free> <bf_current>
<bf_created> <bf_failed> <bf_free> <bf_byte_consumed> <bf_32_current> <bf_32_created> <bf_32_failed>
<bf_32_free> <bf_32_byte_consumed> <slab_current> <slab_created> <slab_failed> <slab_free>
<slab_byte_consumed> <if_index_alloc_failed> <nbr_index_alloc_failed> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
memory	Memory usage statistics
<i>__readonly__</i>	(Optional)
<i>TABLE_mem</i>	(Optional)
<i>ptag</i>	(Optional)
<i>byte_total</i>	(Optional)
<i>byte_consumed</i>	(Optional)
<i>byte_overhead</i>	(Optional)
<i>byte_allocated</i>	(Optional)
<i>alloc_current</i>	(Optional)
<i>alloc_created</i>	(Optional)
<i>alloc_failed</i>	(Optional)
<i>alloc_free</i>	(Optional)
<i>bf_current</i>	(Optional)
<i>bf_created</i>	(Optional)
<i>bf_failed</i>	(Optional)
<i>bf_free</i>	(Optional)
<i>bf_byte_consumed</i>	(Optional)
<i>bf_32_current</i>	(Optional)
<i>bf_32_created</i>	(Optional)

<i>bf_32_failed</i>	(Optional)
<i>bf_32_free</i>	(Optional)
<i>bf_32_byte_consumed</i>	(Optional)
<i>slab_current</i>	(Optional)
<i>slab_created</i>	(Optional)
<i>slab_failed</i>	(Optional)
<i>slab_free</i>	(Optional)
<i>slab_byte_consumed</i>	(Optional)
<i>if_index_alloc_failed</i>	(Optional)
<i>nbr_index_alloc_failed</i>	(Optional)

Command Mode

- /exec

show ip ospf mpls ldp interface

```
show ip ospf [ <tag> ] mpls ldp interface [ <interface> | vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <ptag> <cname> [ TABLE_ldpintf <ifname> <area> <ldp_ac>
<ldp_sync><state_str><type_str> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mpls	MPLS related information
ldp	LDP related information
interface	OSPF enabled interface
<i>interface</i>	(Optional) OSPF enabled interface
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_ldpintf	(Optional)
<i>ifname</i>	(Optional)
<i>area</i>	(Optional)
<i>ldp_ac</i>	(Optional)

Command Mode

- /exec

show ip ospf neighbors

```
show ip ospf [ <tag> ] neighbors [ { { <interface> [ <neighbor> | <neighbor-name> ] } | { [ <neighbor> |
<neighbor-name> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] } } ] [ __readonly__ TABLE_ctx <ptag>
<cname> <nbrcount> [ TABLE_nbr <rid> <priority> <state> <drstate> <uptime> <addr> <intf> [ <multiarea>
] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
<i>neighbor</i>	(Optional) Router ID of neighbor
<i>neighbor-name</i>	(Optional) DNS Name of the neighbor
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>nbrcount</i>	(Optional)
TABLE_nbr	(Optional)
<i>rid</i>	(Optional)
<i>priority</i>	(Optional)
<i>state</i>	(Optional)
<i>drstate</i>	(Optional)
<i>uptime</i>	(Optional)

<i>addr</i>	(Optional)
<i>intf</i>	(Optional)
<i>multiarea</i>	(Optional)

Command Mode

- /exec

show ip ospf neighbors detail

```
show ip ospf [ <tag> ] neighbors [ <interface> ] [ <neighbor> | <neighbor-name> ] detail [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ private ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_nbr <rid>
<addr> <area> <intf> <state> <transition> <lastchange> [ <bfd_state> ] [ <priority> ] [ <ifid> ] [ <dr> ] [
<dc> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [ <dbdallsent> ] [ <dbdallacked> ] [
<lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] <helloptions> <dbdoptions> <lastnonhello> [ <deadtimer>
] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer>
] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq>
] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [ <sendlsreqreply> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
<i>neighbor</i>	(Optional) Router ID of neighbor
<i>neighbor-name</i>	(Optional) DNS Name of the neighbor
detail	Show detailed neighbor display
private	(Optional) Developer-only statistics
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_nbr	(Optional)
<i>rid</i>	(Optional)
<i>addr</i>	(Optional)

<i>area</i>	(Optional)
<i>intf</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>bfd_state</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsregrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastmonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>acingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)

<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendsreq</i>	(Optional)
<i>sendsu</i>	(Optional)
<i>sendsurxmt</i>	(Optional)
<i>sendsack</i>	(Optional)
<i>sendsreqreply</i>	(Optional)
<i>dc</i>	(Optional)

Command Mode

- /exec

show ip ospf neighbors summary

```
show ip ospf [ <tag> ] neighbors [ <interface> ] summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <ptag> <cname> TABLE_intf { <ifname> | <total> } <down> <attempt> <init>
<twoway> <exstart> <exchange> <loading> <full> <if_total> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
summary	Summary of neighbors
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>total</i>	(Optional)
<i>down</i>	(Optional)
<i>attempt</i>	(Optional)
<i>init</i>	(Optional)
<i>twoway</i>	(Optional)
<i>exstart</i>	(Optional)
<i>exchange</i>	(Optional)

<i>loading</i>	(Optional)
<i>full</i>	(Optional)
<i>if_total</i>	(Optional)

Command Mode

- /exec

show ip ospf policy statistics

```
show ip ospf [ <inst> ] policy statistics { { redistribute { { bgp | eigrp } <as> | { isis | ospf | rip } <tag> | static
| direct | amt } } | { area <area-id-ip> filter-list { in | out } } } [ vrf { <vrf-name> | <vrf-known-name> | all }
] [ __readonly__ <ptag> TABLE_ctx <cname> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>inst</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
policy	Display Policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
isis	ISO Intermediate-to-Intermediate (IS-IS)
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
ospf	Open Shortest Path First (OSPFv2)
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
rip	Routing Information Protocol (RIP)
static	Static
direct	Directly connected
amt	AMT anycast prefix
<i>tag</i>	Source protocol tag
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas

in	Filter networks sent to this area
out	Filter networks sent from this area
__readonly__	(Optional)
<i>ptag</i>	(Optional)
TABLE_ctx	(Optional)
<i>cname</i>	(Optional)

Command Mode

- /exec

show ip ospf request-list

```
show ip ospf [ <tag> ] request-list { <ip-addr> | <neighbor-name> } <interface> [ __readonly__ [ TABLE_ctx
<ptag> <cname> [ TABLE_lsreq <nbr_rid> <intf> <nbr_addr> <total> [ TABLE_lsa [ <type> ] [ <lsid> ] [
<advtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
request-list	Link state request list
<i>interface</i>	OSPF enabled interface
<i>ip-addr</i>	Neighbor router ID
<i>neighbor-name</i>	DNS Name of the neighbor
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_lsreq	(Optional)
<i>nbr_rid</i>	(Optional)
<i>intf</i>	(Optional)
<i>nbr_addr</i>	(Optional)
<i>total</i>	(Optional)
TABLE_lsa	(Optional)
<i>type</i>	(Optional)
<i>lsid</i>	(Optional)
<i>advtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>age</i>	(Optional)

Command Mode

- /exec

<i>age</i>	(Optional)
------------	------------

Command Mode

- /exec

show ip ospf route

```
show ip ospf [ <tag> ] route [ <ip-addr> | <ip-prefix> [ longer-prefixes ] ] [ all_routes ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ <hdr_addr> ] [ <hdr_masklen> ]
[ TABLE_route <addr> <masklen> <type> <in_rib> <direct> [ <area> ] [ <tag> ] [ <vlink_unresolved> ] [
TABLE_route_ubest_nh [ <ubest_nh_addr> ] [ <ubest_nh_intf> ] [ <ubest_cost> ] [ <distance> ] [
<ubest_nh_direct> ] [ <ubest_nh_in_rib> ] ] [ TABLE_route_mbest_nh [ <mbest_nh_addr> ] [ <mbest_nh_intf>
] [ <mbest_cost> ] [ <mbest_nh_direct> ] [ <mbest_nh_in_rib> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
<i>ip-addr</i>	(Optional) Show single OSPF route
<i>ip-prefix</i>	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
all_routes	(Optional) Display all OSPF routes
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>hdr_addr</i>	(Optional)
<i>hdr_masklen</i>	(Optional)
TABLE_route	(Optional)
<i>addr</i>	(Optional)

<i>masklen</i>	(Optional)
<i>type</i>	(Optional)
<i>in_rib</i>	(Optional)
<i>direct</i>	(Optional)
<i>area</i>	(Optional)
<i>vlink_unresolved</i>	(Optional)
TABLE_route_ubest_nh	(Optional)
<i>ubest_nh_addr</i>	(Optional)
<i>ubest_nh_intf</i>	(Optional)
<i>ubest_cost</i>	(Optional)
<i>distance</i>	(Optional)
<i>ubest_nh_direct</i>	(Optional)
<i>ubest_nh_in_rib</i>	(Optional)
TABLE_route_mbest_nh	(Optional)
<i>mbest_nh_addr</i>	(Optional)
<i>mbest_nh_intf</i>	(Optional)
<i>mbest_cost</i>	(Optional)
<i>mbest_nh_direct</i>	(Optional)
<i>mbest_nh_in_rib</i>	(Optional)

Command Mode

- /exec

show ip ospf route summary

```
show ip ospf [ <tag> ] route [ <ip-prefix> [ longer-prefixes ] ] summary [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_route <total_routes> <total_paths> [
TABLE_route_type <path_type> <path_routes> <path_paths> ] [ TABLE_route_masklen <masklen>
<masklen_routes> <masklen_paths> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
<i>ip-prefix</i>	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
summary	Show route counts
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_route	(Optional)
<i>total_routes</i>	(Optional)
<i>total_paths</i>	(Optional)
TABLE_route_type	(Optional)
<i>path_type</i>	(Optional)
<i>path_routes</i>	(Optional)
<i>path_paths</i>	(Optional)

TABLE_route_masklen	(Optional)
<i>masklen</i>	(Optional)
<i>masklen_routes</i>	(Optional)
<i>masklen_paths</i>	(Optional)

Command Mode

- /exec

show ip ospf sham-links

```
show ip ospf [ <tag> ] sham-links [ brief ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> [ TABLE_slink <name> [ <nbr_rid> ] <if_state> <transit_area> <nh_intf>
<nbr_addr> [ <transit_area_stub> ] [ <transit_area_nssa> ] <addr> [ <masklen> ] <area> [ <if_cfg> ] <state_str>
<type_str> <cost> [ <bfd_enabled> ] <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority>
] [ <dr_rid> ] [ <dr_addr> ] [ <bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [
<gr_nbr> ] [ <hello_interval> ] [ <dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <sum_total> ] [
<hello_timer> ] [ <wait_timer> ] [ < pacing_timer> ] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer>
] [ <auth_type> ] [ <keychain_name> ] [ <keychain_ready> ] [ <auth_md5_keyid> ] [ <link_lsa_cnt> ] [
<link_lsa_crc> ] [ <dc_enabled> ] [ <dest_ip> ] [ <src_ip> ] [ <ifnum> ] [ <state> ] [ <transition> ] [
<lastchange> ] [ <priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [
<dbdallsent> ] [ <dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] [ <helloptions> ] [
<dbdoptions> ] [ <lastnonhello> ] [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [
<lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [
<helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack>
] [ <sendlsreqreply> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
sham-links	Sham link information
brief	(Optional) Display summary of OSPF sham links
<u>__readonly__</u>	(Optional)
<i>ptag</i>	(Optional)
TABLE_ctx	(Optional)
<i>cname</i>	(Optional)
TABLE_slink	(Optional)
<i>name</i>	(Optional)
<i>nbr_rid</i>	(Optional)

<i>if_state</i>	(Optional)
<i>transit_area</i>	(Optional)
<i>nh_intf</i>	(Optional)
<i>dc_enabled</i>	(Optional)
<i>nbr_addr</i>	(Optional)
<i>sum_total</i>	(Optional)
<i>transit_area_stub</i>	(Optional)
<i>transit_area_nssa</i>	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)

<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)

<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>pacingtmer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)
<i>dest_ip</i>	(Optional)
<i>src_ip</i>	(Optional)
<i>ifnum</i>	(Optional)

Command Mode

- /exec

show ip ospf statistics

```
show ip ospf [ <tag> ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_stats
<ptag> <cname> <last_clear> <rid_change> <dr_elections> <older_lsa_recv> <nbr_state_change>
<nbr_dead_postpone> <nbr_dead_expire> <nbr_bad_lsreq> <nbr_seqno_mismatch> <spf_full>
<spf_summary> <spf_external> <spf_extsummary> <rtr_generate> <rtr_refresh> <rtr_flush> <rtr_other_flush>
<net_generate> <net_refresh> <net_flush> <net_other_flush> <sum_generate> <sum_refresh> <sum_flush>
<sum_other_flush> <asbr_generate> <asbr_refresh> <asbr_flush> <asbr_other_flush> <asext_generate>
<asext_refresh> <asext_flush> <asext_other_flush> <opaque_link_generate> <opaque_link_refresh>
<opaque_link_flush> <opaque_link_other_flush> <opaque_area_generate> <opaque_area_refresh>
<opaque_area_flush> <opaque_area_other_flush> <opaque_as_generate> <opaque_as_refresh>
<opaque_as_flush> <opaque_as_other_flush> <limbo_lsa_count> <limbo_lsa_hwm> <limbo_lsa_deleted>
<limbo_lsa_revived> <limbo_runs> <limbo_lsa_last_time_hwm> [ <limbo_timer> ] <helloq_size>
<helloq_max_size> <helloq_hwm> <helloq_drops> <helloq_last_hwm_time> <floodq_size>
<floodq_max_size> <floodq_hwm> <floodq_drops> <floodq_last_hwm_time> <lsdb_add_fail> [
TABLE_buffer_detail [ <buf_size> ] [ <buf_size_huge> ] <buf_in_use> <buf_hwm> <buf_perm> <buf_alloc>
<buf_free> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Event counters
<i>__readonly__</i>	(Optional)
TABLE_stats	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>last_clear</i>	(Optional)
<i>rid_change</i>	(Optional)
<i>dr_elections</i>	(Optional)
<i>older_lsa_recv</i>	(Optional)

<i>nbr_state_change</i>	(Optional)
<i>nbr_dead_postpone</i>	(Optional)
<i>nbr_dead_expire</i>	(Optional)
<i>nbr_bad_lsreq</i>	(Optional)
<i>nbr_seqno_mismatch</i>	(Optional)
<i>spf_full</i>	(Optional)
<i>spf_summary</i>	(Optional)
<i>spf_external</i>	(Optional)
<i>spf_extsummary</i>	(Optional)
<i>rtr_generate</i>	(Optional)
<i>rtr_refresh</i>	(Optional)
<i>rtr_flush</i>	(Optional)
<i>rtr_other_flush</i>	(Optional)
<i>net_generate</i>	(Optional)
<i>net_refresh</i>	(Optional)
<i>net_flush</i>	(Optional)
<i>net_other_flush</i>	(Optional)
<i>sum_generate</i>	(Optional)
<i>sum_refresh</i>	(Optional)
<i>sum_flush</i>	(Optional)
<i>sum_other_flush</i>	(Optional)
<i>asbr_generate</i>	(Optional)
<i>asbr_refresh</i>	(Optional)
<i>asbr_flush</i>	(Optional)
<i>asbr_other_flush</i>	(Optional)
<i>asext_generate</i>	(Optional)
<i>asext_refresh</i>	(Optional)
<i>asext_flush</i>	(Optional)
<i>asext_other_flush</i>	(Optional)

<i>opaque_link_generate</i>	(Optional)
<i>opaque_link_refresh</i>	(Optional)
<i>opaque_link_flush</i>	(Optional)
<i>opaque_link_other_flush</i>	(Optional)
<i>opaque_area_generate</i>	(Optional)
<i>opaque_area_refresh</i>	(Optional)
<i>opaque_area_flush</i>	(Optional)
<i>opaque_area_other_flush</i>	(Optional)
<i>opaque_as_generate</i>	(Optional)
<i>opaque_as_refresh</i>	(Optional)
<i>opaque_as_flush</i>	(Optional)
<i>opaque_as_other_flush</i>	(Optional)
<i>limbo_lsa_count</i>	(Optional)
<i>limbo_lsa_hwm</i>	(Optional)
<i>limbo_lsa_deleted</i>	(Optional)
<i>limbo_lsa_revived</i>	(Optional)
<i>limbo_runs</i>	(Optional)
<i>limbo_lsa_last_time_hwm</i>	(Optional)
<i>limbo_timer</i>	(Optional)
<i>helloq_size</i>	(Optional)
<i>helloq_max_size</i>	(Optional)
<i>helloq_hwm</i>	(Optional)
<i>helloq_drops</i>	(Optional)
<i>helloq_last_hwm_time</i>	(Optional)
<i>floodq_size</i>	(Optional)
<i>floodq_max_size</i>	(Optional)
<i>floodq_hwm</i>	(Optional)
<i>floodq_drops</i>	(Optional)
<i>floodq_last_hwm_time</i>	(Optional)

<i>lsdb_add_fail</i>	(Optional)
TABLE_buffer_detail	(Optional)
<i>buf_size</i>	(Optional)
<i>buf_size_huge</i>	(Optional)
<i>buf_in_use</i>	(Optional)
<i>buf_hwm</i>	(Optional)
<i>buf_perm</i>	(Optional)
<i>buf_alloc</i>	(Optional)
<i>buf_free</i>	(Optional)

Command Mode

- /exec

show ip ospf summary-address

```
show ip ospf [ <tag> ] summary-address [ private ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ [ TABLE_ctx <ptag> <cname> <rid> [ TABLE_sum <addr> <masklen> [ <metric> ] [ <tag>
] [ <pending> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary-address	Summary-address redistribution information
private	(Optional) Developer-only statistics
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>rid</i>	(Optional)
TABLE_sum	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>metric</i>	(Optional)
<i>pending</i>	(Optional)

Command Mode

- /exec

show ip ospf traffic

```
show ip ospf [ <tag> ] traffic [ <interface> [ detail ] | [ detail ] | [ detail ] vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_traf <ptag> <cname> <last_clear> [ <ifname> ] <pkt_in> <pkt_out>
<lsu_first_trans> <lsu_retrans> <lsu_for_lsreq> <lsu_nbr_trans> <throttle_out> <throttle_out_token>
<throttle_out_ip> <lsa_ignored> <lsa_dropped_spf> <lsa_dropped_gr> <pkt_drops_in> <pkt_drops_out>
<pkt_errors_in> <pkt_errors_out> <hello_errors_in> <dbds_errors_in> <lsreqs_errors_in> <lsus_errors_in>
<lsacks_errors_in> <pkt_unknown_in> <pkt_unknown_out> <pkt_no_ospf_intf> <bad_version> <bad_crc>
<dup_rtr_id> <dup_src_addr> <invalid_src_addr> <invalid_dst_addr> <non_existing_nbr> <pkt_passive_intf>
<wrong_area> <invalid_pkt_len> <nbr_changed_routerid_ipaddr> <nbr_changed_interfaceid> [ <bad_auth>
] [ <bad_reserved> ] [ <pkt_no_vrf> ] <hellos_in> <dbds_in> <lsreqs_in> <lsus_in> <lsacks_in> <hellos_out>
<dbds_out> <lsreqs_out> <lsus_out> <lsacks_out> [ <hellos_in_hq> <dbds_in_hq> <lsreqs_in_flq>
<lsus_in_flq> <lsacks_in_flq> <lsas_in_dbds_in> <lsas_in_lsreqs_in> <lsas_in_lsus_in> <lsas_in_lsacks_in>
<lsas_in_dbds_out> <lsas_in_lsreqs_out> <lsas_in_lsus_out> <lsas_in_lsacks_out> <lsas_in_rxmt_lsus_out>
] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
<i>interface</i>	(Optional) OSPF enabled interface
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Packet counters
<i>__readonly__</i>	(Optional)
<i>TABLE_traf</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>last_clear</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pkt_in</i>	(Optional)

<i>pkt_out</i>	(Optional)
<i>lsu_first_trans</i>	(Optional)
<i>lsu_retrans</i>	(Optional)
<i>lsu_for_lsreq</i>	(Optional)
<i>lsu_nbr_trans</i>	(Optional)
<i>throttle_out</i>	(Optional)
<i>throttle_out_token</i>	(Optional)
<i>throttle_out_ip</i>	(Optional)
<i>lsa_ignored</i>	(Optional)
<i>lsa_dropped_spf</i>	(Optional)
<i>lsa_dropped_gr</i>	(Optional)
<i>pkt_drops_in</i>	(Optional)
<i>pkt_drops_out</i>	(Optional)
<i>pkt_errors_in</i>	(Optional)
<i>pkt_errors_out</i>	(Optional)
<i>hello_errors_in</i>	(Optional)
<i>dbds_errors_in</i>	(Optional)
<i>lsreqs_errors_in</i>	(Optional)
<i>lsus_errors_in</i>	(Optional)
<i>lsacks_errors_in</i>	(Optional)
<i>pkt_unknown_in</i>	(Optional)
<i>pkt_unknown_out</i>	(Optional)
<i>pkt_no_ospf_intf</i>	(Optional)
<i>bad_version</i>	(Optional)
<i>bad_crc</i>	(Optional)
<i>dup_rtr_id</i>	(Optional)
<i>dup_src_addr</i>	(Optional)
<i>invalid_src_addr</i>	(Optional)
<i>invalid_dst_addr</i>	(Optional)

<i>non_existing_nbr</i>	(Optional)
<i>pkt_passive_intf</i>	(Optional)
<i>wrong_area</i>	(Optional)
<i>invalid_pkt_len</i>	(Optional)
<i>nbr_changed_routerid_ipaddr</i>	(Optional)
<i>nbr_changed_interfaceid</i>	(Optional)
<i>bad_auth</i>	(Optional)
<i>bad_reserved</i>	(Optional)
<i>pkt_no_vrf</i>	(Optional)
<i>hellos_in</i>	(Optional)
<i>dbds_in</i>	(Optional)
<i>lsreqs_in</i>	(Optional)
<i>lsus_in</i>	(Optional)
<i>lsacks_in</i>	(Optional)
<i>hellos_out</i>	(Optional)
<i>dbds_out</i>	(Optional)
<i>lsreqs_out</i>	(Optional)
<i>lsus_out</i>	(Optional)
<i>lsacks_out</i>	(Optional)
<i>hellos_in_hq</i>	(Optional)
<i>dbds_in_hq</i>	(Optional)
<i>lsreqs_in_flq</i>	(Optional)
<i>lsus_in_flq</i>	(Optional)
<i>lsacks_in_flq</i>	(Optional)
<i>lsas_in_dbds_in</i>	(Optional)
<i>lsas_in_lsreqs_in</i>	(Optional)
<i>lsas_in_lsus_in</i>	(Optional)
<i>lsas_in_lsacks_in</i>	(Optional)
<i>lsas_in_dbds_out</i>	(Optional)

<i>lsas_in_lsreqs_out</i>	(Optional)
<i>lsas_in_lsus_out</i>	(Optional)
<i>lsas_in_lsacks_out</i>	(Optional)
<i>lsas_in_rxmt_lsus_out</i>	(Optional)

Command Mode

- /exec

show ip ospf traps-queue

show ip ospf [<tag>] traps-queue

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
traps-queue	Show all the priority traps queue parameters

Command Mode

- /exec

show ip ospf virtual-links

```
show ip ospf [ <tag> ] virtual-links [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_vlink <name> <nbr_rid> <if_state> <transit_area> <nh_intf> <nbr_addr> [
<transit_area_stub> ] [ <transit_area_nssa> ] <addr> [ <masklen> ] <area> [ <if_cfg> ] <state_str> <type_str>
<cost> <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [
<bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr> ] [ <hello_interval> ] [
<dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <pacing_timer>
] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer> ] [ <auth_type> ] [ <keychain_name> ] [
<keychain_ready> ] [ <auth_md5_keyid> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <dc_enabled> ] [ <state>
] [ <transition> ] [ <lastchange> ] [ <priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [
<dbdallsentacked> ] [ <dbdallsent> ] [ <dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts>
] [ <helloptions> ] [ <dbdoptions> ] [ <lastnonhello> ] [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ]
[ <reqrxmtimer> ] [ <lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [
<helpermode> ] [ <helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt>
] [ <sendlsack> ] [ <sendlsreqreply> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_vlink	(Optional)
<i>name</i>	(Optional)
<i>nbr_rid</i>	(Optional)
<i>if_state</i>	(Optional)
<i>transit_area</i>	(Optional)

<i>nh_intf</i>	(Optional)
<i>dc_enabled</i>	(Optional)
<i>nbr_addr</i>	(Optional)
<i>transit_area_stub</i>	(Optional)
<i>transit_area_nssa</i>	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)

<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>hellooptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)

<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>paddingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)

Command Mode

- /exec

show ip ospf virtual-links brief

```
show ip ospf [ <tag> ] virtual-links brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <vlink_count> [ TABLE_vlink <nbr_rid> <vlink_num> <transit_area> <cost>
<if_state> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
brief	Display summary of OSPF virtual links
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>vlink_count</i>	(Optional)
TABLE_vlink	(Optional)
<i>nbr_rid</i>	(Optional)
<i>vlink_num</i>	(Optional)
<i>transit_area</i>	(Optional)
<i>cost</i>	(Optional)
<i>if_state</i>	(Optional)

Command Mode

- /exec

show ip overlay-traffic

show ip overlay-traffic

Syntax Description

show	Show running system information
ip	Display IP information
overlay-traffic	Display IP overlay software processed traffic statistics

Command Mode

- /exec

show ip pim bitfield

show ip pim bitfield

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
bitfield	Display compressed bitfield details

Command Mode

- /exec

show ip pim config-sanity

```
show ip pim config-sanity [ __readonly__ [ TABLE_vrf <out-context> [ TABLE_RP <rp-addr> [ {
<rperr-count><rp-interface><rp-error> } ] ] [ TABLE_ANYCAST [ { <arperr-count> <anycastrp-addr> [
<arp-interface> ] <arp-error> [ <configure-as-RP> } ] ] [ TABLE_MEMBER [ { <memerr-count> [
<mem-interface> ] <mem-error> } ] ] <found> ] [ TABLE_BSR [ { <rp-cand-count> [ <rp-cand-interface>
] <rp-cand-error> } ] [ { <bsr-cand-count> [ <bsr-cand-interface> ] <bsr-cand-error> } ] ] [ TABLE_AUTORP
[ { <rp-cand-count> [ <rp-cand-interface> ] <rp-cand-error> } ] [ { <auto-cand-count> [ <auto-cand-interface>
] <auto-cand-error> } ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
config-sanity	Configuration Sanity check
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_RP	(Optional)
<i>rp-addr</i>	(Optional)
TABLE_ANYCAST	(Optional)
<i>arperr-count</i>	(Optional)
<i>anycastrp-addr</i>	(Optional)
<i>arp-interface</i>	(Optional)
<i>arp-error</i>	(Optional)
<i>configure-as-RP</i>	(Optional)
TABLE_MEMBER	(Optional)
<i>memerr-count</i>	(Optional)
<i>mem-interface</i>	(Optional)
<i>mem-error</i>	(Optional)
<i>found</i>	(Optional)
TABLE_BSR	(Optional)
<i>rp-cand-count</i>	(Optional)

<i>rp-cand-interface</i>	(Optional)
<i>rp-cand-error</i>	(Optional)
<i>bsr-cand-count</i>	(Optional)
<i>bsr-cand-interface</i>	(Optional)
<i>bsr-cand-error</i>	(Optional)
TABLE_AUTORP	(Optional)
<i>rp-cand-count</i>	(Optional)
<i>rp-cand-interface</i>	(Optional)
<i>rp-cand-error</i>	(Optional)
<i>auto-cand-count</i>	(Optional)
<i>auto-cand-interface</i>	(Optional)
<i>auto-cand-error</i>	(Optional)

Command Mode

- /exec

show ip pim df

```
show ip pim df [ <rp-or-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [ __readonly__
[ <out-context> ] [ TABLE_rp [ <rp-addr> ] [ <df-ordinal> ] [ <df-bits> ] [ <df-bits-count> ] [ <metric-pref>
] [ <metric> ] [ TABLE_grange [ <grange-grp> ] [ <grange-masklen> ] ] [ TABLE_iod [ <if-name> ] [
<df-winner> ] [ <df-state> ] [ <winner-metric-pref> ] [ <winner-metric> ] [ <uptime> ] [ <is-rpf> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
df	Display Bidir Designated Forwarders
<i>rp-or-group</i>	(Optional) Display for a single RP or group address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	(Optional) Commands for internal use
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>df-bits</i>	(Optional)
<i>df-bits-count</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>metric</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-grp</i>	(Optional)
<i>grange-masklen</i>	(Optional)
TABLE_iod	(Optional)

<i>if-name</i>	(Optional)
<i>df-winner</i>	(Optional)
<i>df-state</i>	(Optional)
<i>winner-metric-pref</i>	(Optional)
<i>winner-metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>is-rpf</i>	(Optional)

Command Mode

- /exec

show ip pim event-history

show ip pim [internal] event-history { errors | msgs | <pim-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
internal	(Optional) Commands for internal use
event-history	Show various event logs of PIM
errors	Show error logs of PIM
msgs	Show various message logs of PIM
<i>pim-event-hist-buf-name</i>	Show event hist buffer name
statistics	Show the state and size of the buffer

Command Mode

- /exec

show ip pim fabric info

```
show ip pim fabric info [ __readonly__ <switch_role> <fabric_ctrl_addr> <peer_fabric_ctrl_infra>
<vpc_domain_id> <peer_fabric_ctrl_addr> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
fabric	Fabric functionality
info	show the fabric info
<i>__readonly__</i>	(Optional)
<i>switch_role</i>	(Optional)
<i>fabric_ctrl_addr</i>	(Optional)
<i>peer_fabric_ctrl_infra</i>	(Optional)
<i>vpc_domain_id</i>	(Optional)
<i>peer_fabric_ctrl_addr</i>	(Optional)

Command Mode

- /exec

show ip pim fabric legacy-vlans

show ip pim fabric legacy-vlans [__readonly__ TABLE_legacy_vlan <vlan_id>]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
fabric	Fabric functionality
legacy-vlans	Show legacy VLANs on this switch
__readonly__	(Optional)
TABLE_legacy_vlan	(Optional)
vlan_id	(Optional)

Command Mode

- /exec

show ip pim group-range

```
show ip pim group-range [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf <out-context> [ { TABLE_group <grp-addr> [ <invalid-grp> ] [ <action> ] [ <mode> ] [ <rp-addr>
] [ <sh-tree-only-range> ] [ <origin> } ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
group-range	Display the various group-ranges
<i>group</i>	(Optional) IP address of group to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_group	(Optional)
<i>invalid-grp</i>	(Optional)
<i>grp-addr</i>	(Optional)
<i>mode</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>sh-tree-only-range</i>	(Optional)
<i>action</i>	(Optional)
<i>origin</i>	(Optional)

Command Mode

- /exec

show ip pim interface

```
show ip pim interface [ <interface> ] [ brief ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [
__readonly__ ] [ <is-pim-enabled> ] [ TABLE_vrf [ <out-context> ] [ TABLE_brief [ <if-name> ] [ <if-addr>
] [ <if-dr> ] [ <if-nbr-count> ] [ <if-is-border> ] ] [ TABLE_iod [ <if-name> ] [ <if-status> ] [
<cached_if_status> ] [ <if-addr-summary> ] [ <pim-dr-address> ] [ <dr-priority> ] [ <no-dr-priority> ] [
<nbr-cnt> ] [ <hello-interval-sec> ] [ <hello-interval-msec> ] [ <hello-timer> ] [ <holdtime-msec> ] [
<holdtime-sec> ] [ <if-conf-dr-priority> ] [ <if-conf-delay> ] [ <is-border> ] [ <genid> ] [ <isauth-config> ]
[ <nbr-policy-name> ] [ <jp-in-policy-name> ] [ <jp-out-policy-name> ] [ <jp-interval> ] [ <jp-next-send> ]
[ <pim-bfd-enabled> ] [ <is-passive> ] [ <is-pim-vpc-svi> ] [ <is-auto-enabled> ] [ <vpc-peer-nbr> ] [
<last-cleared> ] [ <hello-sent> ] [ <hello-rcvd> ] [ <hello-early-sent> ] [ <jp-sent> ] [ <jp-rcvd> ] [ <assert-sent>
] [ <assert-rcvd> ] [ <graft-sent> ] [ <graft-rcvd> ] [ <graft-ack-sent> ] [ <graft-ack-rcvd> ] [ <df-offer-sent>
] [ <df-offer-rcvd> ] [ <df-winner-sent> ] [ <df-winner-rcvd> ] [ <df-backoff-sent> ] [ <df-backoff-rcvd> ] [
<pass-sent> ] [ <pass-rcvd> ] [ <cksum-errors> ] [ <invalid-errors> ] [ <invalid-df-errors> ] [ <auth-failed>
] [ <pak-len-errors> ] [ <ver-errors> ] [ <pkts-self> ] [ <pkts-non-nbr> ] [ <pkts-on-passive> ] [ <jp-rcvd-on-rpf>
] [ <jp-rcvd-no-rp> ] [ <jp-rcvd-wrong-rp> ] [ <jp-rcvd-for-ssm> ] [ <jp-rcvd-for-bidir> ] [ <jp-in-policy-filter>
] [ <jp-out-policy-filter> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
interface	Display PIM interface related information
<i>interface</i>	(Optional) Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	(Optional) Commands for internal use
<i>__readonly__</i>	(Optional)
<i>is-pim-enabled</i>	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_brief	(Optional)
<i>if-name</i>	(Optional)

<i>if-addr</i>	(Optional)
<i>if-dr</i>	(Optional)
<i>if-nbr-count</i>	(Optional)
<i>if-is-border</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>cached_if_status</i>	(Optional)
<i>if-addr-summary</i>	(Optional)
<i>pim-dr-address</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)
<i>nbr-cnt</i>	(Optional)
<i>hello-interval-sec</i>	(Optional)
<i>hello-interval-msec</i>	(Optional)
<i>hello-timer</i>	(Optional)
<i>holdtime-msec</i>	(Optional)
<i>holdtime-sec</i>	(Optional)
<i>if-conf-dr-priority</i>	(Optional)
<i>if-conf-delay</i>	(Optional)
<i>is-border</i>	(Optional)
<i>genid</i>	(Optional)
<i>isauth-config</i>	(Optional)
<i>is-passive</i>	(Optional)
<i>nbr-policy-name</i>	(Optional)
<i>jp-in-policy-name</i>	(Optional)
<i>jp-out-policy-name</i>	(Optional)
<i>jp-interval</i>	(Optional)
<i>jp-next-send</i>	(Optional)

<i>pim-bfd-enabled</i>	(Optional)
<i>is-pim-vpc-svi</i>	(Optional)
<i>is-auto-enabled</i>	(Optional)
<i>vpc-peer-nbr</i>	(Optional)
<i>last-cleared</i>	(Optional)
<i>hello-sent</i>	(Optional)
<i>hello-rcvd</i>	(Optional)
<i>hello-early-sent</i>	(Optional)
<i>jp-sent</i>	(Optional)
<i>jp-rcvd</i>	(Optional)
<i>assert-sent</i>	(Optional)
<i>assert-rcvd</i>	(Optional)
<i>graft-sent</i>	(Optional)
<i>graft-rcvd</i>	(Optional)
<i>graft-ack-sent</i>	(Optional)
<i>graft-ack-rcvd</i>	(Optional)
<i>df-offer-sent</i>	(Optional)
<i>df-offer-rcvd</i>	(Optional)
<i>df-winner-sent</i>	(Optional)
<i>df-winner-rcvd</i>	(Optional)
<i>df-backoff-sent</i>	(Optional)
<i>df-backoff-rcvd</i>	(Optional)
<i>pass-sent</i>	(Optional)
<i>pass-rcvd</i>	(Optional)
<i>cksum-errors</i>	(Optional)
<i>invalid-errors</i>	(Optional)
<i>invalid-df-errors</i>	(Optional)
<i>auth-failed</i>	(Optional)
<i>pak-len-errors</i>	(Optional)

<i>ver-errors</i>	(Optional)
<i>pkts-self</i>	(Optional)
<i>pkts-non-nbr</i>	(Optional)
<i>pkts-on-passive</i>	(Optional)
<i>jp-rcvd-on-rpf</i>	(Optional)
<i>jp-rcvd-no-rp</i>	(Optional)
<i>jp-rcvd-wrong-rp</i>	(Optional)
<i>jp-rcvd-for-ssm</i>	(Optional)
<i>jp-rcvd-for-bidir</i>	(Optional)
<i>jp-in-policy-filter</i>	(Optional)
<i>jp-out-policy-filter</i>	(Optional)

Command Mode

- /exec

show ip pim mdt

```
show ip pim mdt [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <out_context>
<mti> <mti_status> <default_mdt_grp> <grp_mode> <asm_shared_tree> <mti_config_mtu> <mti_active_mtu>
<cfg_tunnel_src_if> <bgp_update_src_if> <hello_interval> <jp_interval> <data_mdt_join_interval>
<data_switchover_interval> <data_holddown_interval> <data_timeout_interval> <mdt_src> <mdt_src_if>
<bgp_rd> <bgp_rd_set> <send_join_count> <rcvd_join_count> { TABLE_data_mdt <grange_prefix>
<grange_mask_len> <threshold> [ <policy_name> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
<i>mti</i>	(Optional)
<i>mti_status</i>	(Optional)
<i>default_mdt_grp</i>	(Optional)
<i>grp_mode</i>	(Optional)
<i>asm_shared_tree</i>	(Optional)
<i>mti_config_mtu</i>	(Optional)
<i>mti_active_mtu</i>	(Optional)
<i>cfg_tunnel_src_if</i>	(Optional)
<i>bgp_update_src_if</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>jp_interval</i>	(Optional)

<i>data_mdt_join_interval</i>	(Optional)
<i>data_switchover_interval</i>	(Optional)
<i>data_holddown_interval</i>	(Optional)
<i>data_timeout_interval</i>	(Optional)
<i>mdt_src</i>	(Optional)
<i>mdt_src_if</i>	(Optional)
<i>bgp_rd</i>	(Optional)
<i>bgp_rd_set</i>	(Optional)
<i>send_join_count</i>	(Optional)
<i>rcvd_join_count</i>	(Optional)
TABLE_data_mdt	(Optional)
<i>grange_prefix</i>	(Optional)
<i>grange_mask_len</i>	(Optional)
<i>threshold</i>	(Optional)
<i>policy_name</i>	(Optional)

Command Mode

- /exec

show ip pim mdt bgp

```
show ip pim mdt bgp [ mdt-source <src-addr> ] [ __readonly__ { TABLE_entry <bgp_rd> <mdt_src>
<mdt_grp> <local> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
bgp	Display BGP related information
mdt-source	(Optional) Source address of MVPN neighbor
<i>src-addr</i>	(Optional) Source Address
<i>__readonly__</i>	(Optional)
TABLE_entry	(Optional)
<i>bgp_rd</i>	(Optional)
<i>mdt_src</i>	(Optional)
<i>mdt_grp</i>	(Optional)
<i>local</i>	(Optional)

Command Mode

- /exec

show ip pim mdt history interval

```
show ip pim mdt history interval <min> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
history	Display MDT Data Join Send Histoy
interval	Display in specified interval
<i>min</i>	Minutes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>csrc</i>	(Optional)
<i>cgrp</i>	(Optional)
<i>psrc</i>	(Optional)
<i>pgrp</i>	(Optional)
<i>uptime</i>	(Optional)
<i>send_count</i>	(Optional)

Command Mode

- /exec

show ip pim mdt receive

```
show ip pim mdt receive [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <expires> <rcv_count> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
receive	Display Received Data Joins Information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>csrc</i>	(Optional)
<i>cgrp</i>	(Optional)
<i>psrc</i>	(Optional)
<i>pgrp</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>rcv_count</i>	(Optional)

Command Mode

- /exec

show ip pim mdt send

```
show ip pim mdt send [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
send	Display MDT Data Join Send Information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>csrc</i>	(Optional)
<i>cgrp</i>	(Optional)
<i>psrc</i>	(Optional)
<i>pgrp</i>	(Optional)
<i>uptime</i>	(Optional)
<i>send_count</i>	(Optional)

Command Mode

- /exec

show ip pim neighbor

```
show ip pim neighbor { [ <interface> ] [ <ipaddr> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ detail
| internal ] [ __readonly__ [ TABLE_vrf <out-context> [ TABLE_neighbor
<nbr-addr><if-name><uptime><expires> [ <dr-priority> ] <bidir-capable><bfd-state> [
<longest-hello-intvl><non-hello-pkts> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
neighbor	Display PIM neighbor related information
<i>interface</i>	(Optional) Display neighbors on single interface name
<i>ipaddr</i>	(Optional) IP address of single neighbor to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
internal	(Optional) Commands for internal use
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_neighbor	(Optional)
<i>dr-priority</i>	(Optional)

Command Mode

- /exec

show ip pim oif-list

```
show ip pim oif-list <group> [ <source> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <vrf-name> { TABLE_grp <mcast-addr> <incoming-intf> <rpf-nbr> <timeout-interval>
<oif-list-count> [ { TABLE_oiflist <oif-name> } ] <timeout-list-count> [ { TABLE_timeoutlist
<timeoutoif-name> } ] <immediate-list-count> [ { TABLE_immediatelist <immediateoif-name> } ]
<immediate-timeout-list-count> [ { TABLE_immediatettimeoutlist <immediatettimeoutoif-name> } ]
<mgr-prune-list-count> [ { TABLE_mgrprunelist <mgrprunelstoif-name> } ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
oif-list	Display interfaces for oif-list of PIM route
<i>source</i>	(Optional) Source address to display
<i>group</i>	Group address to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_grp	(Optional)
<i>mcast-addr</i>	(Optional)
<i>incoming-intf</i>	(Optional)
<i>rpf-nbr</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>oif-list-count</i>	(Optional)
TABLE_oiflist	(Optional)
<i>oif-name</i>	(Optional)
<i>timeout-list-count</i>	(Optional)

TABLE_timeoutlist	(Optional)
<i>timeoutoif-name</i>	(Optional)
<i>immediate-list-count</i>	(Optional)
TABLE_immediatelist	(Optional)
<i>immediateoif-name</i>	(Optional)
<i>immediate-timeout-list-count</i>	(Optional)
TABLE_immediatetimeoutlist	(Optional)
<i>immediatetimeoutoif-name</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
TABLE_sgrprunelist	(Optional)
<i>sgrprunelistoif-name</i>	(Optional)

Command Mode

- /exec

show ip pim policy statistics

```
show ip pim policy statistics { register-policy | bsr { bsr-policy | rp-candidate-policy } | auto-rp {
rp-candidate-policy | mapping-agent-policy } } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
{ TABLE_routemap <name> <action> <seq_num> [ { TABLE_cmd <command> <match_count>
<compare_count> } ] } <total_accept_count> <total_reject_count> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
policy	Policy related information
statistics	Policy statistics
register-policy	Show statistics for register-policy
bsr	Bootstrap protocol RP-distribution policy
bsr-policy	Statistics for filtered BSR messages
rp-candidate-policy	Statistics for filtered RP candidate messages
auto-rp	Statistics for auto-rp messages
rp-candidate-policy	Statistics for filtered RP candidate messages
mapping-agent-policy	Statistics for filtered mapping agent messages
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)

<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ip pim policy statistics jp

```
show ip pim policy statistics { jp-policy | neighbor-policy } <interface> [ __readonly__ { TABLE_routemap
<name> <action> <seq_num> [ { TABLE_cmd <command> <match_count> <compare_count> } ] }
<total_accept_count> <total_reject_count> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
policy	Policy related information
statistics	Policy statistics
jp-policy	Statistics for jp-policy
neighbor-policy	Statistics for neighbor-policy
<i>interface</i>	Interface to display policy statistics for
<i>__readonly__</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ip pim route

```
show ip pim route { [ bitfield ] | <source> <group> | <group> [ <source> ] [ bitfield ] } [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <context-name> <route-count> [ TABLE_one_route
<mcast-addr> [ <rp-addr> <rp-local> ] <bidir> <sgexpire> [ <sgexpire> ] [ <timeleft> ] <rp-bit> [ <register>
] [ <assert-timeout> ] <intf-name> <rpf-nbr-1> <rpf-nbr-addr> <rpf-nbr-2> [ <metric-pref> <route-metric>
] [ <uptime> <is-attached> <is-static> <zero-nonpim-oifs>
<is-external><otv-decap><otv-router-mode><data-created>
<mdt-encap><mdt-decap><vxlan-decap><vxlan-encap> <sw-pkts><sw-bytes><hw-pkts><hw-bytes> ] [
<rpf-src><mrib-rpf-notify><add-pending><aged-route><sg-expiry-cfg>
<jp-holdtime><route-metric-internal><metric-pref-internal> <delay-register-stop><register-stop-rcvd> [
<lisp-src-rloc> ] [ TABLE_lisp_encap <encap-src-rloc> <encap-dst-rloc> <timeout-count> <add-pending>
<del-pending> ] ] [ <oif-count> ] [ <oif-bf-str> ] [ <timeout-count> ] [ <timeout-bf-str> ] [ <immediate-count>
] [ <immediate-bf-str> ] [ <immediate-timeout-count> ] [ <immediate-timeout-bf-str> ] [ <sgr-prune-list-count>
] [ <sgr-prune-list-bf-str> ] [ <timeout-interval> <jp-holdtime-rndup> ] [ <mdt-encap-index> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
route	Display PIM specific route information
<i>group</i>	Group address to display
<i>source</i>	Source address to display
bitfield	(Optional) Display details of each bitfield for PIM route
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>context-name</i>	(Optional)
<i>route-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>mcast-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)

<i>rp-local</i>	(Optional)
<i>bidir</i>	(Optional)
<i>sgexpire</i>	(Optional)
<i>sgrexpire</i>	(Optional)
<i>timeleft</i>	(Optional)
<i>rp-bit</i>	(Optional)
<i>register</i>	(Optional)
<i>assert-timeout</i>	(Optional)
<i>intf-name</i>	(Optional)
<i>rpf-nbr-1</i>	(Optional)
<i>rpf-nbr-addr</i>	(Optional)
<i>rpf-nbr-2</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>route-metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>is-attached</i>	(Optional)
<i>is-static</i>	(Optional)
<i>zero-nonpim-oifs</i>	(Optional)
<i>add-pending</i>	(Optional)
<i>lisp-src-rloc</i>	(Optional)
TABLE_lisp_encap	(Optional)
<i>encap-src-rloc</i>	(Optional)
<i>encap-dst-rloc</i>	(Optional)
<i>timeout-count</i>	(Optional)
<i>del-pending</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oif-bf-str</i>	(Optional)
<i>timeout-count</i>	(Optional)
<i>timeout-bf-str</i>	(Optional)

<i>immediate-count</i>	(Optional)
<i>immediate-bf-str</i>	(Optional)
<i>immediate-timeout-count</i>	(Optional)
<i>immediate-timeout-bf-str</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
<i>sgr-prune-list-bf-str</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>jp-holdtime-rndup</i>	(Optional)
<i>mdt-encap-index</i>	(Optional)

Command Mode

- /exec

show ip pim rp-hash

```
show ip pim rp-hash <group> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-context>
[ <rp-found> ] [ <is-rp-bsr-learned> ] [ <out-group1> <rp-addr1> ] [ <out-group> <hash-length> <out-bsr> ]
[ { TABLE_rp <rp-addr> <hash> <isbest_hash> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
rp-hash	Display RP hash value for group
<i>group</i>	Group address for RP lookup
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
<i>rp-found</i>	(Optional)
<i>is-rp-bsr-learned</i>	(Optional)
<i>out-group1</i>	(Optional)
<i>rp-addr1</i>	(Optional)
<i>out-group</i>	(Optional)
<i>hash-length</i>	(Optional)
<i>out-bsr</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>hash</i>	(Optional)
<i>isbest_hash</i>	(Optional)

Command Mode

- /exec

<i>bsr-hash-masklen</i>	(Optional)
<i>bs-timer</i>	(Optional)
<i>bsr-uptime</i>	(Optional)
<i>bsr-expires</i>	(Optional)
<i>is-autorp-enabled</i>	(Optional)
<i>is-autorp-listen-only</i>	(Optional)
<i>is-autorp-forward-only</i>	(Optional)
<i>auto-rp-addr</i>	(Optional)
<i>autorp-cand-address</i>	(Optional)
<i>is-autorp-local</i>	(Optional)
<i>autorp-dis-timer</i>	(Optional)
<i>autorp-up-time</i>	(Optional)
<i>autorp-expire-time</i>	(Optional)
<i>rp-cand-policy-name</i>	(Optional)
<i>bsr-policy-name</i>	(Optional)
<i>rp-announce-policy-name</i>	(Optional)
<i>rp-discovery-policy-name</i>	(Optional)
TABLE_anycast_rp	(Optional)
<i>anycast-rp-addr</i>	(Optional)
TABLE_arp_rp	(Optional)
<i>arp-rp-addr</i>	(Optional)
<i>is-rpaddr-local</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>is-rp-local</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rp-uptime</i>	(Optional)
<i>rp-priority</i>	(Optional)
<i>rp-source</i>	(Optional)

<i>static-rp-group-map</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-grp</i>	(Optional)
<i>grange-masklen</i>	(Optional)
<i>grange-is-deny</i>	(Optional)
<i>is-bidir-grp</i>	(Optional)
<i>autorp-expires</i>	(Optional)
<i>bsr-rp-expires</i>	(Optional)
<i>rp-owner-flags</i>	(Optional)
<i>bidir-ordinal</i>	(Optional)
<i>df-bits-recovered</i>	(Optional)
<i>rpf-nbr-address</i>	(Optional)
<i>metric</i>	(Optional)
<i>metric-preference</i>	(Optional)

Command Mode

- /exec

show ip pim statistics

```
show ip pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <vrf-name>
[ <uptime> <reg-sent> <reg-rcvd> <null-reg-sent> <null-reg-rcvd> <reg-stop-sent> <reg-stop-rcvd>
<reg-rcvd-not-rp> <reg-rcvd-for-ssm> <reg-rcvd-for-bidir> <bootstrap-sent> <bootstrap-rcvd> <cand-rp-sent>
<cand-rp-rcvd> <bs-no-nbr> <bs-border-deny> <bs-len-errors> <bs-rpf-failed> <bs-no-listen>
<candrp-border-deny> <candrp-no-listen> <autorp-announce-sent> <autorp-announce-rcvd>
<autorp-discovery-sent> <autorp-discovery-rcvd> <autorp-rpf-failed> <autorp-border-deny>
<autorp-invalid-type> <autorp-ttl-expired> <autorp-no-listen> <ctrl-no-route> <data-no-route> <no-state>
<create-state> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
statistics	Packet counter statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>reg-sent</i>	(Optional)
<i>reg-rcvd</i>	(Optional)
<i>null-reg-sent</i>	(Optional)
<i>null-reg-rcvd</i>	(Optional)
<i>reg-stop-sent</i>	(Optional)
<i>reg-stop-rcvd</i>	(Optional)
<i>reg-rcvd-not-rp</i>	(Optional)
<i>reg-rcvd-for-ssm</i>	(Optional)
<i>reg-rcvd-for-bidir</i>	(Optional)

<i>bootstrap-sent</i>	(Optional)
<i>bootstrap-rcvd</i>	(Optional)
<i>cand-rp-sent</i>	(Optional)
<i>cand-rp-rcvd</i>	(Optional)
<i>bs-no-nbr</i>	(Optional)
<i>bs-border-deny</i>	(Optional)
<i>bs-len-errors</i>	(Optional)
<i>bs-rpf-failed</i>	(Optional)
<i>bs-no-listen</i>	(Optional)
<i>candrp-border-deny</i>	(Optional)
<i>candrp-no-listen</i>	(Optional)
<i>autorp-announce-sent</i>	(Optional)
<i>autorp-announce-rcvd</i>	(Optional)
<i>autorp-discovery-sent</i>	(Optional)
<i>autorp-discovery-rcvd</i>	(Optional)
<i>autorp-rpf-failed</i>	(Optional)
<i>autorp-border-deny</i>	(Optional)
<i>autorp-invalid-type</i>	(Optional)
<i>autorp-ttl-expired</i>	(Optional)
<i>autorp-no-listen</i>	(Optional)
<i>ctrl-no-route</i>	(Optional)
<i>data-no-route</i>	(Optional)
<i>no-state</i>	(Optional)
<i>create-state</i>	(Optional)

Command Mode

- /exec

show ip pim vrf

```
show ip pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail | internal ] [ __readonly__ {
TABLE_context <out-context> <context-id> <table-id> <count> <bfd> <mvpn> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
vrf	Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs PIM is configured for
detail	(Optional) Display detailed information
internal	(Optional) VRF related internal information
__readonly__	(Optional)
TABLE_context	(Optional)
<i>out-context</i>	(Optional)
<i>context-id</i>	(Optional)
<i>table-id</i>	(Optional)
<i>count</i>	(Optional)
<i>bfd</i>	(Optional)
<i>mvpn</i>	(Optional)

Command Mode

- /exec

show ip ping source-interface

```
show ip ping source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ippingvrf
<vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ping	Display ping client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ippingvrf	(Optional) source interface of ping
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip ping source-interface vrf all

```
show ip ping source-interface vrf all [ __readonly__ [ { TABLE_ipping <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ping	Display ping client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipping	(Optional) source interface of ping
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip policy

```
show ip policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ detail ] [ __readonly__ TABLE_pbr <interface>
<rmap> <status> <vrf_name> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

Command Mode

- /exec

show ip prefix-list

```
show ip prefix-list { { [ detail | summary ] [ <ipv4-pfl-name> | <ipv4-pfl-cfg-name> ] } | { { <ipv4-pfl-name>
| <ipv4-pfl-cfg-name> } seq <seq-no> } | { { <ipv4-pfl-name> | <ipv4-pfl-cfg-name> } <prefix> [ first-match
| longer ] } } [ __readonly__ TABLE_ip_pfl <name> <seq> <action> <rule> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
detail	(Optional) Show detailed information
summary	(Optional) Show summarized information
prefix-list	List IP prefix lists
<i>ipv4-pfl-name</i>	(Optional) Name of prefix-list
<i>ipv4-pfl-cfg-name</i>	(Optional) Known prefix-list name
seq	Sequence number
<i>seq-no</i>	Sequence number
<i>prefix</i>	IP prefix network/length, e.g., 35.0.0.0/8
first-match	(Optional) Find the first match
longer	(Optional) Find the more specific entries
<i>__readonly__</i>	(Optional)
TABLE_ip_pfl	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip process

```
show ip process [ api ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_ip_pro_vrf
[ { <pro-cntxt-name> <pro-cntxt-id> <pro-base-tid> <pro-auto-disc> <pro-atuo-add> <pro-null-bcast>
<auto-punt-bcast> <static-disc> <static-def-route> <ip-unreach> } ] [ TABLE_pro_api [ <api-vrf>
<api-cntxt-id> <api-base-tid> <api-ip-addr> <api-rtr-id-iod> ] ] [ TABLE_iod [ { <entry-iod> } ] ] [
TABLE_local_addr [ { <local-addr> } ] ] ] [ TABLE_ip_pro_all { <all-pro-cntxt-name> <all-pro-cntxt-id>
} ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
process	Display IP global information
api	(Optional) Show api values
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ip_pro_vrf	(Optional)
<i>pro-cntxt-name</i>	(Optional)
<i>pro-cntxt-id</i>	(Optional)
<i>pro-base-tid</i>	(Optional)
<i>pro-auto-disc</i>	(Optional)
<i>pro-atuo-add</i>	(Optional)
<i>pro-null-bcast</i>	(Optional)
<i>auto-punt-bcast</i>	(Optional)
<i>static-disc</i>	(Optional)
<i>static-def-route</i>	(Optional)
<i>ip-unreach</i>	(Optional)
TABLE_pro_api	(Optional)
<i>api-vrf</i>	(Optional)

<i>api-cntxt-id</i>	(Optional)
<i>api-base-tid</i>	(Optional)
<i>api-ip-addr</i>	(Optional)
<i>api-rtr-id-iod</i>	(Optional)
TABLE_iod	(Optional)
<i>entry-iod</i>	(Optional)
TABLE_local_addr	(Optional)
<i>local-addr</i>	(Optional)
TABLE_ip_pro_all	(Optional)
<i>all-pro-cntxt-name</i>	(Optional)
<i>all-pro-cntxt-id</i>	(Optional)

Command Mode

- /exec

show ip rip

```
show { ipv6 | ip } rip [ instance <inst> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_inst <inst-name> TABLE_vrf <vrf> <port> <mcast-grp> <admin-dist> <update-tmr> <expire-tmr>
<garbage-tmr> <def-metric> <max-paths> <def-rt-distrib> <def-distrib-always> <process-disabled>
<out-of-mem> [ TABLE_afi <af> { TABLE_interface <if-name> } TABLE_redistrib <redistributing> {
TABLE_clients <pibName> <policy> } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>port</i>	(Optional)
<i>mcast-grp</i>	(Optional)
<i>admin-dist</i>	(Optional)
<i>update-tmr</i>	(Optional)
<i>expire-tmr</i>	(Optional)
<i>garbage-tmr</i>	(Optional)
<i>def-metric</i>	(Optional)
<i>max-paths</i>	(Optional)

<i>def-rt-distrib</i>	(Optional)
<i>def-distrib-always</i>	(Optional)
<i>process-disabled</i>	(Optional)
<i>out-of-mem</i>	(Optional)
TABLE_afi	(Optional)
<i>af</i>	(Optional)
TABLE_interface	(Optional)
<i>if-name</i>	(Optional)
TABLE_redistrib	(Optional)
<i>redistributing</i>	(Optional)
TABLE_clients	(Optional)
<i>pidname</i>	(Optional)
<i>policy</i>	(Optional)

Command Mode

- /exec

show ip rip interface

```
show { ipv6 | ip } rip [ instance <inst> ] interface [ <interface> ] [ detail ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_inst <inst-name> TABLE_vrf <vrf> [ TABLE_inter
<if-name> <if-status> <protocol-up> <local-only> <no-addr-conf> <if-addr> <if-mask> <if-metric>
<poison-reverse> <if-passive> <route-dist-filter> <in-policy> <out-policy> [ { TABLE_auth <auth-ena>
<auth-type> <auth-keychain> } ] [ TABLE_detail <import-routes> <periodic-updates> <trigger-updates>
<out-mcast-request> <out-ucast-update> <out-ucast-request> <in-mcast-update> <in-mcast-request>
<in-ucast-update> <in-ucast-request> <bad-pkt> <bad-route> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
interface	RIP interface
<i>interface</i>	(Optional) RIP interface
detail	(Optional) Detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_inter	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>protocol-up</i>	(Optional)

<i>local-only</i>	(Optional)
<i>no-addr-conf</i>	(Optional)
<i>if-addr</i>	(Optional)
<i>if-mask</i>	(Optional)
<i>if-metric</i>	(Optional)
<i>poison-reverse</i>	(Optional)
<i>if-passive</i>	(Optional)
<i>route-dist-filter</i>	(Optional)
<i>in-policy</i>	(Optional)
<i>out-policy</i>	(Optional)
TABLE_auth	(Optional)
<i>auth-ena</i>	(Optional)
<i>auth-type</i>	(Optional)
<i>auth-keychain</i>	(Optional)
TABLE_detail	(Optional)
<i>import-routes</i>	(Optional)
<i>periodic-updates</i>	(Optional)
<i>trigger-updates</i>	(Optional)
<i>out-mcast-request</i>	(Optional)
<i>out-ucast-update</i>	(Optional)
<i>out-ucast-request</i>	(Optional)
<i>in-mcast-update</i>	(Optional)
<i>in-mcast-request</i>	(Optional)
<i>in-ucast-update</i>	(Optional)
<i>in-ucast-request</i>	(Optional)
<i>bad-pkt</i>	(Optional)
<i>bad-route</i>	(Optional)

Command Mode

- /exec

show ip rip memory

```
show { ipv6 | ip } rip [ instance <inst> ] memory [ __readonly__ TABLE_inst <inst-name> <type> <size>
<count> <hwm> <slab> <overhead> <total> TABLE_total <total-overhead> <total-total> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
rip	Display RIP status and configuration
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
memory	Display RIP memory usage information
<i>__readonly__</i>	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
<i>type</i>	(Optional)
<i>size</i>	(Optional)
<i>count</i>	(Optional)
<i>hwm</i>	(Optional)
<i>slab</i>	(Optional)
<i>overhead</i>	(Optional)
<i>total</i>	(Optional)
TABLE_total	(Optional)
<i>total-overhead</i>	(Optional)
<i>total-total</i>	(Optional)

Command Mode

- /exec

show ip rip neighbor

```
show { ipv6 | ip } rip [ instance <inst> ] neighbor [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] [ __readonly__ TABLE_inst <inst-name> TABLE_vrf <vrf> <numberof-adj> <dead-timer-seconds>
{ TABLE_adj <adj-addr> <if-name> <last-response-sent> <last-response-rcvd> <last-request-sent>
<last-request-rcvd> <last-response-sent-state> <last-response-rcvd-state> <last-request-sent-state>
<last-request-rcvd-state> <in-bad-packets> <in-bad-routes> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP status and configuration
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
neighbor	RIP neighbor
<i>interface</i>	(Optional) RIP interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>numberof-adj</i>	(Optional)
<i>dead-timer-seconds</i>	(Optional)
TABLE_adj	(Optional)
<i>adj-addr</i>	(Optional)
<i>if-name</i>	(Optional)
<i>last-response-sent-state</i>	(Optional)

<i>last-response-sent</i>	(Optional)
<i>last-response-rcvd-state</i>	(Optional)
<i>last-response-rcvd</i>	(Optional)
<i>last-request-sent-state</i>	(Optional)
<i>last-request-sent</i>	(Optional)
<i>last-request-rcvd-state</i>	(Optional)
<i>last-request-rcvd</i>	(Optional)
<i>in-bad-packets</i>	(Optional)
<i>in-bad-routes</i>	(Optional)

Command Mode

- /exec

show ip rip policy statistics redistribute

```
show ip rip [ instance <inst> ] policy statistics redistribute { bgp <as> | { eigrp | isis | <src-rip> | ospf } <tag>
| direct | static } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>as</i>	Autonomous system number
isis	Intermediate-to-intermediate (ISIS)
src-rip	Routing Information Protocol (RIP)
ospf	Open Shortest Path First (OSPFv2)
<i>tag</i>	Process tag
direct	Directly connected routes
static	Static routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ip rip route

```
show { ipv6 | ip } rip [ instance <inst> ] route [ { <ipv6-prefix> | <ip-prefix> } [ { longer-prefixes |
shorter-prefixes } ] ] [ summary ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_inst
<inst-name> TABLE_vrf <vrf> [ { TABLE_route <best-route> <rt-prefix> <rt-mask> <rt-numnh> {
TABLE_nexthop <nh-direct> <nh-redistrib> <nh-addr> <nh-interface> <nh-metric> <nh-tag> <nh-state>
<nh-state-timer> } } ] [ { TABLE_summary <is-summary> <total-num-rts> <total-best-rts> <total-paths> {
TABLE_rtspermask <mask-length> <rts-per-mask> } } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
route	RIP routes
summary	(Optional) route counts
<i>ip-prefix</i>	(Optional) Exact prefix
longer-prefixes	(Optional) exact match and more specific routes
shorter-prefixes	(Optional) exact match and less specific routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_route	(Optional)
<i>best-route</i>	(Optional)

<i>rt-prefix</i>	(Optional)
<i>rt-mask</i>	(Optional)
<i>rt-numnh</i>	(Optional)
TABLE_nexthop	(Optional)
<i>nh-direct</i>	(Optional)
<i>nh-redistrib</i>	(Optional)
<i>nh-addr</i>	(Optional)
<i>nh-interface</i>	(Optional)
<i>nh-metric</i>	(Optional)
<i>nh-tag</i>	(Optional)
<i>nh-state</i>	(Optional)
<i>nh-state-timer</i>	(Optional)
TABLE_summary	(Optional)
<i>is-summary</i>	(Optional)
<i>total-num-rts</i>	(Optional)
<i>total-best-rts</i>	(Optional)
<i>total-paths</i>	(Optional)
TABLE_rtspermask	(Optional)
<i>mask-length</i>	(Optional)
<i>rts-per-mask</i>	(Optional)

Command Mode

- /exec

show ip rip statistics

```
show { ipv6 | ip } rip [ instance <inst> ] statistics [ * | <interface> ] [ __readonly__ TABLE_inst <inst-name>
TABLE_interface <if-name> <periodic-updates> <trigger-updates> <out-mcast-request> <out-ucast-update>
<out-ucast-request> <in-mcast-update> <in-mcast-request> <in-ucast-update> <in-ucast-request> <bad-pkt>
<bad-route> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP status and configuration
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
statistics	RIP statistics
<i>interface</i>	(Optional) RIP interface
*	(Optional) RIP statistics for all interfaces
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_interface	(Optional)
<i>if-name</i>	(Optional)
<i>periodic-updates</i>	(Optional)
<i>trigger-updates</i>	(Optional)
<i>out-mcast-request</i>	(Optional)
<i>out-ucast-update</i>	(Optional)
<i>out-ucast-request</i>	(Optional)
<i>in-mcast-update</i>	(Optional)
<i>in-mcast-request</i>	(Optional)
<i>in-ucast-update</i>	(Optional)
<i>in-ucast-request</i>	(Optional)

<i>bad-pkt</i>	(Optional)
<i>bad-route</i>	(Optional)

Command Mode

- /exec

show ip router-id

```
show ip router-id [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
router-id	Display IP router identification
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip rsvp

```
show ip rsvp [ __readonly__ [ <sup-state> <start-type> <restart-type> <ha-ena> <gr-ena> <hst-ena>
<glb-router-id> <psr-ena> <local-epoch> ] [ TABLE_clients <clnt-name> <clnt-sap> <clnt-type>
<clnt-batch-time> [ <clnt-lxsb> ] ] [ <bundle-ena> <bundle-time> <bundle-maxsz> ] [ <refresh-intvl>
<refresh-miss> ] [ <refred-ena> <rr-init-rexmit-delay> <rr-rapid-rexmit-ena> <rr-ack-delay> ] [ <rate-limit-ena>
<rate-limit-cap> <rate-limit-pace-intvl> ] [ <gr-tmr> [ <gr-tmr-expiry> ] ] [ <auth-ena> [ <key-src> ] [ <digest>
] [ <seq-winsize> ] [ <challenge> ] [ <lifetime> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
<i>__readonly__</i>	(Optional)
<i>sup-state</i>	(Optional)
<i>start-type</i>	(Optional)
<i>restart-type</i>	(Optional)
<i>ha-ena</i>	(Optional)
<i>gr-ena</i>	(Optional)
<i>hst-ena</i>	(Optional)
<i>glb-router-id</i>	(Optional)
<i>psr-ena</i>	(Optional)
<i>local-epoch</i>	(Optional)
<i>bundle-ena</i>	(Optional)
<i>bundle-time</i>	(Optional)
<i>bundle-maxsz</i>	(Optional)
<i>refresh-intvl</i>	(Optional)
<i>refresh-miss</i>	(Optional)
<i>refred-ena</i>	(Optional)
<i>rr-rapid-rexmit-ena</i>	(Optional)
<i>rr-init-rexmit-delay</i>	(Optional)
<i>rr-ack-delay</i>	(Optional)

<i>rate-limit-ena</i>	(Optional)
<i>rate-limit-cap</i>	(Optional)
<i>rate-limit-pace-intvl</i>	(Optional)
<i>gr-tmr</i>	(Optional)
<i>gr-tmr-expiry</i>	(Optional)
<i>auth-ena</i>	(Optional)
<i>key-src</i>	(Optional)
<i>digest</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>challenge</i>	(Optional)
<i>lifetime</i>	(Optional)
TABLE_clients	(Optional)
<i>clnt-name</i>	(Optional)
<i>clnt-sap</i>	(Optional)
<i>clnt-type</i>	(Optional)
<i>clnt-batch-time</i>	(Optional)
<i>clnt-lxsb</i>	(Optional)

Command Mode

- /exec

show ip rsvp authentication

```
show ip rsvp authentication [ detail ] [ interface <ifname> ] [ from <ip_frm> ] [ to <ip_to> ] [ __readonly__
[ TABLE_authentication <src> <dst> <nbr-ip> <interface> <mode> [ <lifetime> <lifetime-left> <code> ]
<key-src> <key-id> [ <code> ] [ <digest> <challenge> ] [ <tx-seq> ] [ <rx-seq> <seq-winsize> <seq-wincnt>
]]]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
authentication	Display RSVP Security Association information
detail	(Optional) Display detailed RSVP status
interface	(Optional) Display RSVP interface information
<i>ifname</i>	(Optional) Display RSVP interface information
from	(Optional) Starting point of association
<i>ip_frm</i>	(Optional) Address of starting point of association
to	(Optional) Ending point of association
<i>ip_to</i>	(Optional) Address of ending point of association
<i>__readonly__</i>	(Optional)
TABLE_authentication	(Optional)
<i>src</i>	(Optional)
<i>dst</i>	(Optional)
<i>nbr-ip</i>	(Optional)
<i>interface</i>	(Optional)
<i>mode</i>	(Optional)
<i>key-src</i>	(Optional)
<i>key-id</i>	(Optional)
<i>code</i>	(Optional)
<i>lifetime</i>	(Optional)
<i>lifetime-left</i>	(Optional)

<i>digest</i>	(Optional)
<i>challenge</i>	(Optional)
<i>tx-seq</i>	(Optional)
<i>rx-seq</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>seq-wincnt</i>	(Optional)

Command Mode

- /exec

show ip rsvp counters

```
show ip rsvp counters [ interface <ifname> | teardown | authentication | all ] [ __readonly__ TABLE_counters
[ <rsn-unspec> <pt-cnt-unspec> <rt-cnt-unspec> <rsn-path-tmo> <pt-cnt-path-tmo> <rt-cnt-path-tmo>
<rsn-resv-tmo> <pt-cnt-resv-tmo> <rt-cnt-resv-tmo> <rsn-signaled> <pt-cnt-signaled> <rt-cnt-signaled>
<rsn-mgmt> <pt-cnt-mgmt> <rt-cnt-mgmt> <rsn-policy> <pt-cnt-policy> <rt-cnt-policy> <rsn-proxy>
<pt-cnt-proxy> <rt-cnt-proxy> <rsn-no-rsrc> <pt-cnt-no-rsrc> <rt-cnt-no-rsrc> <rsn-preempted>
<pt-cnt-preempted> <rt-cnt-preempted> <rsn-msg-err> <pt-cnt-msg-err> <rt-cnt-msg-err> <rsn-internal>
<pt-cnt-internal> <rt-cnt-internal> <rsn-traffic> <pt-cnt-traffic> <rt-cnt-traffic> <rsn-sync-unk>
<pt-cnt-sync-unk> <rt-cnt-sync-unk> <rsn-gr-tmo> <pt-cnt-gr-tmo> <rt-cnt-gr-tmo> <rsn-link-nbor-down>
<pt-cnt-link-nbor-down> <rt-cnt-link-nbor-down> <rsn-local-perr-psr> <pt-cnt-local-perr-psr>
<rt-cnt-local-perr-psr> <rsn-network-perr-psr> <pt-cnt-network-perr-psr> <rt-cnt-network-perr-psr>
<rsn-hello-st-tmo> <pt-cnt-hello-st-tmo> <rt-cnt-hello-st-tmo> <rsn-plr-bkup-del> <pt-cnt-plr-bkup-del>
<rt-cnt-plr-bkup-del> <rsn-cli-clear> <pt-cnt-cli-clear> <rt-cnt-cli-clear> <rsn-restart-cmd> <pt-cnt-restart-cmd>
<rt-cnt-restart-cmd> <rsn-intf-del> <pt-cnt-intf-del> <rt-cnt-intf-del> ] [ <auth_send_authenticated>
<auth_send_authentication_failures> <auth-recv-valid-msgs> <auth-recv-total-err> <auth_recv_no_integrity>
<auth_recv_bad_digest> <auth_recv_wrong_digest_type> <auth_recv_seq_num_dup>
<auth_recv_seq_num_out_of_range> <auth_send_challenges_rcvd> <auth_send_challenge_responses_sent>
<auth_recv_challenges_sent> <auth_recv_challenge_timeouts> <auth_recv_challenges_resent>
<auth_recv_challenge_responses_rcvd> <auth_recv_during_challenge>
<auth_recv_wrong_challenge_response> <auth_recv_challenge_response_dup>
<auth_recv_challenge_response_late> ] [ [ <pkt-rx> <pkt-tx> <pkt-rx-err> <pkt-tx-err> ] <path-rx> <path-tx>
<resv-rx> <resv-tx> <patherr-rx> <patherr-tx> <resvrr-rx> <resvrr-tx> <path-tear-rx> <path-tear-tx>
<resvtear-rx> <resvtear-tx> <resvconf-rx> <resvconf-tx> <rtearconf-rx> <rtearconf-tx> <ack-rx> <ack-tx>
<sref-rx> <sref-tx> <hello-rx> <hello-tx> <intchal-rx> <intchal-tx> <intresp-rx> <intresp-tx> <bundle-rx>
<bundle-tx> <bundle-path-rx> <bundle-path-tx> <bundle-resv-rx> <bundle-resv-tx> <bundle-patherr-rx>
<bundle-patherr-tx> <bundle-resvrr-rx> <bundle-resvrr-tx> <bundle-path-tear-rx> <bundle-path-tear-tx>
<bundle-resvtear-rx> <bundle-resvtear-tx> <bundle-ack-rx> <bundle-ack-tx> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
counters	Display RSVP statistics
interface	(Optional) Display RSVP interface information
<i>ifname</i>	(Optional) Display RSVP interface information
teardown	(Optional) Display signaling tear information
authentication	(Optional) Display RSVP Security Association information
all	(Optional) Display all information
__readonly__	(Optional)
TABLE_counters	(Optional)

<i>rsn-unspec</i>	(Optional)
<i>pt-cnt-unspec</i>	(Optional)
<i>rt-cnt-unspec</i>	(Optional)
<i>rsn-path-tmo</i>	(Optional)
<i>pt-cnt-path-tmo</i>	(Optional)
<i>rt-cnt-path-tmo</i>	(Optional)
<i>rsn-resv-tmo</i>	(Optional)
<i>pt-cnt-resv-tmo</i>	(Optional)
<i>rt-cnt-resv-tmo</i>	(Optional)
<i>rsn-signaled</i>	(Optional)
<i>pt-cnt-signaled</i>	(Optional)
<i>rt-cnt-signaled</i>	(Optional)
<i>rsn-mgmt</i>	(Optional)
<i>pt-cnt-mgmt</i>	(Optional)
<i>rt-cnt-mgmt</i>	(Optional)
<i>rsn-policy</i>	(Optional)
<i>pt-cnt-policy</i>	(Optional)
<i>rt-cnt-policy</i>	(Optional)
<i>rsn-proxy</i>	(Optional)
<i>pt-cnt-proxy</i>	(Optional)
<i>rt-cnt-proxy</i>	(Optional)
<i>rsn-no-rsrc</i>	(Optional)
<i>pt-cnt-no-rsrc</i>	(Optional)
<i>rt-cnt-no-rsrc</i>	(Optional)
<i>rsn-preempted</i>	(Optional)
<i>pt-cnt-preempted</i>	(Optional)
<i>rt-cnt-preempted</i>	(Optional)
<i>rsn-msg-err</i>	(Optional)
<i>pt-cnt-msg-err</i>	(Optional)

<i>rt-cnt-msg-err</i>	(Optional)
<i>rsn-internal</i>	(Optional)
<i>pt-cnt-internal</i>	(Optional)
<i>rt-cnt-internal</i>	(Optional)
<i>rsn-traffic</i>	(Optional)
<i>pt-cnt-traffic</i>	(Optional)
<i>rt-cnt-traffic</i>	(Optional)
<i>rsn-sync-unk</i>	(Optional)
<i>pt-cnt-sync-unk</i>	(Optional)
<i>rt-cnt-sync-unk</i>	(Optional)
<i>rsn-gr-tmo</i>	(Optional)
<i>pt-cnt-gr-tmo</i>	(Optional)
<i>rt-cnt-gr-tmo</i>	(Optional)
<i>rsn-link-nbor-down</i>	(Optional)
<i>pt-cnt-link-nbor-down</i>	(Optional)
<i>rt-cnt-link-nbor-down</i>	(Optional)
<i>rsn-local-perr-psr</i>	(Optional)
<i>pt-cnt-local-perr-psr</i>	(Optional)
<i>rt-cnt-local-perr-psr</i>	(Optional)
<i>rsn-network-perr-psr</i>	(Optional)
<i>pt-cnt-network-perr-psr</i>	(Optional)
<i>rt-cnt-network-perr-psr</i>	(Optional)
<i>rsn-hello-st-tmo</i>	(Optional)
<i>pt-cnt-hello-st-tmo</i>	(Optional)
<i>rt-cnt-hello-st-tmo</i>	(Optional)
<i>rsn-plr-bkup-del</i>	(Optional)
<i>pt-cnt-plr-bkup-del</i>	(Optional)
<i>rt-cnt-plr-bkup-del</i>	(Optional)
<i>rsn-cli-clear</i>	(Optional)

<i>pt-cnt-cli-clear</i>	(Optional)
<i>rt-cnt-cli-clear</i>	(Optional)
<i>rsn-restart-cmd</i>	(Optional)
<i>pt-cnt-restart-cmd</i>	(Optional)
<i>rt-cnt-restart-cmd</i>	(Optional)
<i>rsn-intf-del</i>	(Optional)
<i>pt-cnt-intf-del</i>	(Optional)
<i>rt-cnt-intf-del</i>	(Optional)
<i>auth_send_authenticated</i>	(Optional)
<i>auth_send_authentication_failures</i>	(Optional)
<i>auth_send_challenges_rcvd</i>	(Optional)
<i>auth_send_challenge_responses_sent</i>	(Optional)
<i>auth-recv-total-err</i>	(Optional)
<i>auth-recv-valid-msgs</i>	(Optional)
<i>auth_recv_no_integrity</i>	(Optional)
<i>auth_recv_bad_digest</i>	(Optional)
<i>auth_recv_wrong_digest_type</i>	(Optional)
<i>auth_recv_seq_num_dup</i>	(Optional)
<i>auth_recv_seq_num_out_of_range</i>	(Optional)
<i>auth_recv_challenges_sent</i>	(Optional)
<i>auth_recv_challenge_timeouts</i>	(Optional)
<i>auth_recv_challenges_resent</i>	(Optional)
<i>auth_recv_challenge_responses_rcvd</i>	(Optional)
<i>auth_recv_during_challenge</i>	(Optional)
<i>auth_recv_wrong_challenge_response</i>	(Optional)
<i>auth_recv_challenge_response_dup</i>	(Optional)
<i>auth_recv_challenge_response_late</i>	(Optional)
<i>pkt-rx</i>	(Optional)
<i>pkt-tx</i>	(Optional)

<i>pkt-rx-err</i>	(Optional)
<i>pkt-tx-err</i>	(Optional)
<i>path-rx</i>	(Optional)
<i>path-tx</i>	(Optional)
<i>resv-rx</i>	(Optional)
<i>resv-tx</i>	(Optional)
<i>patherr-rx</i>	(Optional)
<i>patherr-tx</i>	(Optional)
<i>resverr-rx</i>	(Optional)
<i>resverr-tx</i>	(Optional)
<i>pathtear-rx</i>	(Optional)
<i>pathtear-tx</i>	(Optional)
<i>resvtear-rx</i>	(Optional)
<i>resvtear-tx</i>	(Optional)
<i>resvconf-rx</i>	(Optional)
<i>resvconf-tx</i>	(Optional)
<i>rtearconf-rx</i>	(Optional)
<i>rtearconf-tx</i>	(Optional)
<i>ack-rx</i>	(Optional)
<i>ack-tx</i>	(Optional)
<i>sref-rx</i>	(Optional)
<i>sref-tx</i>	(Optional)
<i>hello-rx</i>	(Optional)
<i>hello-tx</i>	(Optional)
<i>intchal-rx</i>	(Optional)
<i>intchal-tx</i>	(Optional)
<i>intresp-rx</i>	(Optional)
<i>intresp-tx</i>	(Optional)
<i>bundle-rx</i>	(Optional)

<i>bundle-tx</i>	(Optional)
<i>bundle-path-rx</i>	(Optional)
<i>bundle-path-tx</i>	(Optional)
<i>bundle-resv-rx</i>	(Optional)
<i>bundle-resv-tx</i>	(Optional)
<i>bundle-patherr-rx</i>	(Optional)
<i>bundle-patherr-tx</i>	(Optional)
<i>bundle-resvrr-rx</i>	(Optional)
<i>bundle-resvrr-tx</i>	(Optional)
<i>bundle-pathtear-rx</i>	(Optional)
<i>bundle-pathtear-tx</i>	(Optional)
<i>bundle-resvtear-rx</i>	(Optional)
<i>bundle-resvtear-tx</i>	(Optional)
<i>bundle-ack-rx</i>	(Optional)
<i>bundle-ack-tx</i>	(Optional)

Command Mode

- /exec

show ip rsvp fast-reroute

```
show ip rsvp fast-reroute [ detail ] [ destination <dest_addr> ] [ source <src_addr> ] [ dst-port <dport-val> ]
[ src-port <sport-val> ] [ protect-if <ifname> ] [ __readonly__ [ TABLE_frr <key-frr-dest> <tun-id> <source>
<bkp-ifname> <prot-intf> <nnhop> <frr-state> ] [ TABLE_frr_detail <type> <dest> <tun-id> <source> [
<bkp-ifname> <bkpifid> <mergept> <mergept-ero> <nnhop> <frr-state> <prot-intf> <bw-prot> <frr-bw>
<bw-prot-level> <desrd-bit> <b-sel-prio> <bkp-src> <tail-addr> <bkp-phy-ifnm> <bkp-phy-ifaddr>
<bkp-phy-mtu> ] ] [ <total-path> <active-path> <ready-path> <unassign-path> [ <unprotect-path> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
fast-reroute	Display RSVP fast-reroute information
detail	(Optional) Display detailed RSVP status
destination	(Optional) Display FRR data based on a destination address
<i>dest_addr</i>	(Optional) Destination address
source	(Optional) Display FRR data based on a source address
<i>src_addr</i>	(Optional) Source address
dst-port	(Optional) Display FRR data based on destination port
<i>dport-val</i>	(Optional) Destination Port value
src-port	(Optional) Display FRR data based on a source port
<i>sport-val</i>	(Optional) Source port value
protect-if	(Optional) Display FRR data based on protected interface
<i>ifname</i>	(Optional) Protected interface name
<i>__readonly__</i>	(Optional)
<i>total-path</i>	(Optional)
<i>active-path</i>	(Optional)
<i>ready-path</i>	(Optional)
<i>unassign-path</i>	(Optional)
<i>unprotect-path</i>	(Optional)
TABLE_frr	(Optional)

<i>key-frr-dest</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>source</i>	(Optional)
<i>bkp-ifname</i>	(Optional)
<i>prot-intf</i>	(Optional)
<i>nnhop</i>	(Optional)
<i>frr-state</i>	(Optional)
TABLE_frr_detail	(Optional)
<i>type</i>	(Optional)
<i>dest</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>source</i>	(Optional)
<i>bkp-ifname</i>	(Optional)
<i>bkpifid</i>	(Optional)
<i>mergept</i>	(Optional)
<i>mergept-ero</i>	(Optional)
<i>nnhop</i>	(Optional)
<i>frr-state</i>	(Optional)
<i>prot-intf</i>	(Optional)
<i>bw-prot</i>	(Optional)
<i>frr-bw</i>	(Optional)
<i>bw-prot-level</i>	(Optional)
<i>desrd-bit</i>	(Optional)
<i>b-sel-prio</i>	(Optional)
<i>bkp-src</i>	(Optional)
<i>tail-addr</i>	(Optional)
<i>bkp-phy-ifnm</i>	(Optional)
<i>bkp-phy-ifaddr</i>	(Optional)
<i>bkp-phy-mtu</i>	(Optional)

Command Mode

- /exec

show ip rsvp hello client lsp

```
show ip rsvp hello client lsp [ detail ] [ __readonly__ [ TABLE_hc_lsp_sum <src-addr> <dst-addr> <tun-id>
<lsp-id> <subgrp-orig> <subgrp-id> <lsp-flags> [ <gr-up-nbr> <gr-down-nbr> <rr-up-nbr> <rr-down-nbr>
<incompl-nbr-type> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
hello	Display RSVP Hello Information
client	Display Hello client instances
lsp	Display LSP information
detail	(Optional) Display detailed RSVP status
__readonly__	(Optional)
TABLE_hc_lsp_sum	(Optional)
<i>src-addr</i>	(Optional)
<i>dst-addr</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>lsp-id</i>	(Optional)
<i>subgrp-orig</i>	(Optional)
<i>subgrp-id</i>	(Optional)
<i>lsp-flags</i>	(Optional)
<i>gr-up-nbr</i>	(Optional)
<i>gr-down-nbr</i>	(Optional)
<i>rr-up-nbr</i>	(Optional)
<i>rr-down-nbr</i>	(Optional)
<i>incompl-nbr-type</i>	(Optional)

Command Mode

- /exec

show ip rsvp hello client neighbor

```
show ip rsvp hello client neighbor [ detail ] [ __readonly__ [ TABLE_clnt_nbr_sum <nbr-addr> <nbr-type>
<nbr-state> <hi-state> <lsp-count> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
hello	Display RSVP Hello Information
client	Display Hello client instances
neighbor	Display information for Hello neighbor
detail	(Optional) Display detailed RSVP status
__readonly__	(Optional)
TABLE_clnt_nbr_sum	(Optional)
<i>nbr-addr</i>	(Optional)
<i>nbr-type</i>	(Optional)
<i>nbr-state</i>	(Optional)
<i>hi-state</i>	(Optional)
<i>lsp-count</i>	(Optional)

Command Mode

- /exec

show ip rsvp hello graceful-restart

```
show ip rsvp hello graceful-restart [ __readonly__ [ TABLE_gr <gr-state> <gr-mode> <refresh-interval>
<refresh-misses> <dscp> <restart-time> <recover-time> <max-recover-wait> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
hello	Display RSVP Hello Information
graceful-restart	Display RSVP graceful-restart information
<i>__readonly__</i>	(Optional)
<i>TABLE_gr</i>	(Optional)
<i>gr-state</i>	(Optional)
<i>gr-mode</i>	(Optional)
<i>refresh-interval</i>	(Optional)
<i>refresh-misses</i>	(Optional)
<i>dscp</i>	(Optional)
<i>restart-time</i>	(Optional)
<i>recover-time</i>	(Optional)
<i>max-recover-wait</i>	(Optional)

Command Mode

- /exec

show ip rsvp hello instance

```
show ip rsvp hello instance [ interface <ifname> ] [ neighbor <nbr-addr> ] [ detail ] [ __readonly__ [
TABLE_hello_inst <key-inst-client-type> <nbr-ip> <if-name> <nbr-state> <lost-comm-count> <lsp-count>
<hello-interval> ] [ TABLE_hello_detail <key-det-nbr-ip> <src-ip> <hi-type> <if-name> <nbr-state>
<client-type> <lsp-count> <missed-acks-conf> <ref-interval> <src-inst> <nbr-inst> [ <rest-time> <rec-time>
] <lost-comm-count> <missed_ack_cnt> <bad-src-inst-cnt> <bad-dst-inst-cnt> <nbr-disabled-hi-cnt>
<msg-rcvd> <msg-sent> <msg-supp> ] [ TABLE_hello_passive_inst <key-psv-nbr-ip> <if-name> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
hello	Display RSVP Hello Information
instance	Display information for Hello instances
interface	(Optional) Display RSVP interface information
<i>ifname</i>	(Optional) Display RSVP interface information
neighbor	(Optional) Display information for Hello neighbor
<i>nbr-addr</i>	(Optional) RSVP Neighbor address
detail	(Optional) Display detailed RSVP status
<u>__readonly__</u>	(Optional)
TABLE_hello_inst	(Optional)
<i>key-inst-client-type</i>	(Optional)
<i>nbr-ip</i>	(Optional)
<i>if-name</i>	(Optional)
<i>nbr-state</i>	(Optional)
<i>lost-comm-count</i>	(Optional)
<i>lsp-count</i>	(Optional)
<i>hello-interval</i>	(Optional)
TABLE_hello_detail	(Optional)
<i>key-det-nbr-ip</i>	(Optional)
<i>src-ip</i>	(Optional)

<i>hi-type</i>	(Optional)
<i>if-name</i>	(Optional)
<i>nbr-state</i>	(Optional)
<i>client-type</i>	(Optional)
<i>lsp-count</i>	(Optional)
<i>missed-acks-conf</i>	(Optional)
<i>ref-interval</i>	(Optional)
<i>src-inst</i>	(Optional)
<i>nbr-inst</i>	(Optional)
<i>rest-time</i>	(Optional)
<i>rec-time</i>	(Optional)
<i>missed_ack_cnt</i>	(Optional)
<i>bad-src-inst-cnt</i>	(Optional)
<i>bad-dst-inst-cnt</i>	(Optional)
<i>lost-comm-count</i>	(Optional)
<i>nbr-disabled-hi-cnt</i>	(Optional)
<i>msg-rcvd</i>	(Optional)
<i>msg-sent</i>	(Optional)
<i>msg-supp</i>	(Optional)
TABLE_hello_passive_inst	(Optional)
<i>key-psv-nbr-ip</i>	(Optional)
<i>if-name</i>	(Optional)

Command Mode

- /exec

show ip rsvp interface

```
show ip rsvp interface [ <ifname> ] [ detail | backup-tunnel ] [ __readonly__ [ TABLE_inter <key-if-name>
<ifid> <iod> <mpls-ena> <conf-ena> <state> ] [ TABLE_bkp_inter <key-bkp-if-name> <ifid> <iod> <mtu>
<state> <tail-addr> <phys-if> ] [ TABLE_detail <key-det-if-name> <iod> <ifid> <ifaddr> <masklen>
<mpls-ena> <conf-ena> <dyn-type> <dyn-keepalive-flg> <state> <if-flags> <mtu> <dyn-tmr> [ <dyn-expiry>
] <sig-dscp> <hello-dscp> <tcsb-count> <ip-nbr-cnt> <in-list-cnt> <rr-enabled> <max-sr-size-conf>
<max-sr-size> <refresh-timer> <sum-refresh-timer> <time-refresh-intval> <expiry-timer> <expiry-intval>
<miss-limit> <bundle-ena> <max-bundle-sz> <rel-ena> <ack-tmr> <ack-init-rexmit> <ack-intval>
<ack-max-conf-size> <ack-max-size> <sr-rel> < pacing-ena> <pace-tmr> <pace_intval> <pace-cap-rate>
<pace-msg-count> <pace-msg-defer-count> <auth-ena> [ <key-src> <digest> <seq-winsize> <challenge> ]
<hst-ena> <hst-intval> <missed_acks> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
interface	Display RSVP interface information
<i>ifname</i>	(Optional) Display RSVP interface information
backup-tunnel	(Optional) Display backup tunnel information
detail	(Optional) Display detailed RSVP status
<i>__readonly__</i>	(Optional)
TABLE_inter	(Optional)
<i>key-if-name</i>	(Optional)
<i>ifid</i>	(Optional)
<i>iod</i>	(Optional)
<i>mpls-ena</i>	(Optional)
<i>conf-ena</i>	(Optional)
<i>state</i>	(Optional)
TABLE_bkp_inter	(Optional)
<i>key-bkp-if-name</i>	(Optional)
<i>iod</i>	(Optional)
<i>ifid</i>	(Optional)
<i>mtu</i>	(Optional)

<i>state</i>	(Optional)
<i>tail-addr</i>	(Optional)
<i>phys-if</i>	(Optional)
TABLE_detail	(Optional)
<i>key-det-if-name</i>	(Optional)
<i>iod</i>	(Optional)
<i>ifid</i>	(Optional)
<i>ifaddr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>mpls-ena</i>	(Optional)
<i>conf-ena</i>	(Optional)
<i>state</i>	(Optional)
<i>if-flags</i>	(Optional)
<i>dyn-type</i>	(Optional)
<i>mtu</i>	(Optional)
<i>dyn-tmr</i>	(Optional)
<i>dyn-expiry</i>	(Optional)
<i>dyn-keepalive-flg</i>	(Optional)
<i>tcsb-count</i>	(Optional)
<i>ip-nbr-cnt</i>	(Optional)
<i>in-list-cnt</i>	(Optional)
<i>rr-enabled</i>	(Optional)
<i>refresh-timer</i>	(Optional)
<i>sum-refresh-timer</i>	(Optional)
<i>time-refresh-intval</i>	(Optional)
<i>max-sr-size</i>	(Optional)
<i>max-sr-size-conf</i>	(Optional)
<i>sr-rel</i>	(Optional)
<i>max-bundle-sz</i>	(Optional)

<i>expiry-timer</i>	(Optional)
<i>expiry-intval</i>	(Optional)
<i>miss-limit</i>	(Optional)
<i>bundle-ena</i>	(Optional)
<i>rel-ena</i>	(Optional)
<i>ack-intval</i>	(Optional)
<i>ack-max-size</i>	(Optional)
<i>ack-max-conf-size</i>	(Optional)
<i>ack-tmr</i>	(Optional)
<i>ack-init-rexmit</i>	(Optional)
<i>sig-dscp</i>	(Optional)
<i>hello-dscp</i>	(Optional)
<i> pacing-ena</i>	(Optional)
<i>pace-tmr</i>	(Optional)
<i>pace_intval</i>	(Optional)
<i>pace-cap-rate</i>	(Optional)
<i>pace-msg-count</i>	(Optional)
<i>pace-msg-defer-count</i>	(Optional)
<i>auth-ena</i>	(Optional)
<i>key-src</i>	(Optional)
<i>digest</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>challenge</i>	(Optional)
<i>hst-ena</i>	(Optional)
<i>hst-intval</i>	(Optional)
<i>missed_acks</i>	(Optional)

Command Mode

- /exec

show ip rsvp neighbor

```
show ip rsvp neighbor [ <nbr> ] [ detail ] [ private ] [ __readonly__ [ TABLE_nbr <key-nbr-ip> <if-name>
<rtr-id> <state> <expires> <last-ref-time> ] [ TABLE_detail <key-det-nbr-ip> <if-name> <local-rid> <rtr-id>
<state> <flags> <epoch> <expires> <ref-list-type> [ TABLE_nbr_list <list-id> <ref-list-name> <ref-list-cnt>
] <msgid-cnt> <ooo-msg-cnt> <ackdb-cnt> <rexmit-cnt> <pfc-trigger-cnt> <req-trigger-cnt> <bundle-timer>
<bundle-cnt> <last-ref-sref> <last-ref-time> <last-ref-rc> [ <auth-ena> [ <key-src> <digest> <seq-winsize>
<challenge> <lifetime> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
neighbor	Display RSVP neighbor information
<i>nbr</i>	(Optional) RSVP Neighbor address
detail	(Optional) Display detailed RSVP status
private	(Optional) Display RSVP internal information
<i>__readonly__</i>	(Optional)
TABLE_nbr	(Optional)
<i>key-nbr-ip</i>	(Optional)
<i>if-name</i>	(Optional)
<i>rtr-id</i>	(Optional)
<i>state</i>	(Optional)
<i>expires</i>	(Optional)
<i>last-ref-time</i>	(Optional)
TABLE_detail	(Optional)
<i>key-det-nbr-ip</i>	(Optional)
<i>if-name</i>	(Optional)
<i>local-rid</i>	(Optional)
<i>rtr-id</i>	(Optional)
<i>state</i>	(Optional)
<i>flags</i>	(Optional)

<i>epoch</i>	(Optional)
<i>expires</i>	(Optional)
<i>ref-list-type</i>	(Optional)
<i>msgid-cnt</i>	(Optional)
<i>ooo-msg-cnt</i>	(Optional)
<i>ackdb-cnt</i>	(Optional)
<i>rexit-cnt</i>	(Optional)
<i>pfc-trigger-cnt</i>	(Optional)
<i>req-trigger-cnt</i>	(Optional)
<i>bundle-timer</i>	(Optional)
<i>bundle-cnt</i>	(Optional)
<i>last-ref-sref</i>	(Optional)
<i>last-ref-time</i>	(Optional)
<i>last-ref-rc</i>	(Optional)
<i>auth-ena</i>	(Optional)
<i>key-src</i>	(Optional)
<i>digest</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>challenge</i>	(Optional)
<i>lifetime</i>	(Optional)
TABLE_nbr_list	(Optional)
<i>list-id</i>	(Optional)
<i>ref-list-name</i>	(Optional)
<i>ref-list-cnt</i>	(Optional)

Command Mode

- /exec

show ip rsvp reservation

```
show ip rsvp reservation [ destination <dest_addr> ] [ sender <src_addr> ] [ dst-port <dport-val> ] [ src-port
<sport-val> ] [ private ] [ detail ] [ __readonly__ [ <total-count> ] [ TABLE_resv <dest-ip> <src-ip> <prot>
<dport> <src-port> <nhop> <in-if> <style> ] [ TABLE_resv_detail <key-show-ip-rsvp-resv-det> [
TABLE_sess_info [ <unsup-type> ] [ TABLE_v4 <dest> <prot-id> <police> <dest-port> ] [ TABLE_tun_v4
<dest> <tun-id> <ext-dun-id> ] [ TABLE_tun_p2mp_ipv4 <p2mp-id> <tun-id> <ext-tun-id> ] ] [
TABLE_sender_tmpl [ <unsupported-templ-type> ] [ TABLE_type_v4 <sender> <port> ] [
TABLE_type_lsp_tun_v4 <tun-sender> <lsp-id> ] [ TABLE_type_lsp_tun_p2mp_v4 <tun_sender> <lsp-id>
<subgrp-orig> <subgrp-id> ] ] <nhop> <nhop-if> [ <ref-time> <ref-expiry> ] [ <last-ref-sref> <last-ref-time>
<last-ref-rc> ] [ <rcvd-msgid> <in-ack-db> ] [ <xmit-msgid> <rr-stage> <ack-out> ] <rsb-flags> <req-flags>
[ <label> ] <style> <resv-hndl> [ TABLE_fspec [ <type> <len> [ <ver> <hdr-len> ] ] [ TABLE_uni <sig-type>
<cct> <ncc> <nvc> <mult> <trans> ] [ TABLE_intsrv_gtd <svc-id> <svc-len> <parm-id> <parm-flg>
<parm-len> <avg-rate> <depth> <peak-rate> <min-unit> <max-unit> <rspec-parm-id> <rspec-parm-flg>
<rspec-parm-len> <req-rate> <rspec-slack> ] [ TABLE_intsrv_cload <svc-id> <svc-len> <parm-id> <parm-flg>
<parm-len> <avg-rate> <depth> <peak-rate> <min-unit> <max-unit> ] [ TABLE_intsrv_qual <svc-id>
<svc-len> ] ] [ TABLE_rro <key-show-rro-start> [ <rro-len> ] [ TABLE_v4 <addr> <rro-flags> [ <local-prot>
] [ <in-use> ] [ <has-bw> ] [ <to-nnhop> ] [ <to-nhop> ] [ <no-prot> ] [ <node-id> ] ] [ TABLE_label
<lbl-flags> <label-ctype> <label> ] [ TABLE_unnum <rtr-id> <ifindex> <flags> ] ] [ <prot-flags> ] [
<plr-flags> <plr-filter-addr> <plink-nhop-addr> ] [ <mp-label> <mp-filter-addr> ] ] [ <proxy-status> ]
<policy-status> [ <policy-src> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
reservation	Display RSVP reservations
destination	(Optional) Display RESV based on a destination address
<i>dest_addr</i>	(Optional) Destination address
sender	(Optional) Display RESV based on a source address
<i>src_addr</i>	(Optional) Source address
dst-port	(Optional) Display RESV based on destination port
<i>dport-val</i>	(Optional) Destination Port value
src-port	(Optional) Display RESV based on a source port
<i>sport-val</i>	(Optional) Source port value
private	(Optional) Display RSVP internal information
detail	(Optional) Display detailed RSVP status
__readonly__	(Optional)

<i>total-count</i>	(Optional)
TABLE_resv	(Optional)
<i>dest-ip</i>	(Optional)
<i>dport</i>	(Optional)
<i>src-ip</i>	(Optional)
<i>src-port</i>	(Optional)
<i>prot</i>	(Optional)
<i>in-if</i>	(Optional)
<i>nhop</i>	(Optional)
<i>style</i>	(Optional)
TABLE_resv_detail	(Optional)
<i>key-show-ip-rsvp-resv-det</i>	(Optional)
<i>resv-hndl</i>	(Optional)
<i>nhop-if</i>	(Optional)
<i>nhop</i>	(Optional)
<i>rr-stage</i>	(Optional)
<i>ref-time</i>	(Optional)
<i>ref-expiry</i>	(Optional)
<i>label</i>	(Optional)
<i>proxy-status</i>	(Optional)
<i>policy-status</i>	(Optional)
<i>last-ref-time</i>	(Optional)
<i>last-ref-rc</i>	(Optional)
<i>last-ref-sref</i>	(Optional)
<i>xmit-msgid</i>	(Optional)
<i>ack-out</i>	(Optional)
<i>rcvd-msgid</i>	(Optional)
<i>style</i>	(Optional)
<i>in-ack-db</i>	(Optional)

<i>rsb-flags</i>	(Optional)
<i>req-flags</i>	(Optional)
TABLE_sess_info	(Optional)
<i>unsup-type</i>	(Optional)
TABLE_v4	(Optional)
<i>dest</i>	(Optional)
<i>prot-id</i>	(Optional)
<i>police</i>	(Optional)
<i>dest-port</i>	(Optional)
TABLE_tun_v4	(Optional)
<i>dest</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>ext-dun-id</i>	(Optional)
TABLE_tun_p2mp_ipv4	(Optional)
<i>p2mp-id</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>ext-tun-id</i>	(Optional)
TABLE_sender_tmpl	(Optional)
<i>unsupported-templ-type</i>	(Optional)
TABLE_type_v4	(Optional)
<i>sender</i>	(Optional)
<i>port</i>	(Optional)
TABLE_type_lsp_tun_v4	(Optional)
<i>tun-sender</i>	(Optional)
<i>lsp-id</i>	(Optional)
TABLE_type_lsp_tun_p2mp_v4	(Optional)
<i>tun_sender</i>	(Optional)
<i>lsp-id</i>	(Optional)
<i>subgrp-orig</i>	(Optional)

<i>subgrp-id</i>	(Optional)
TABLE_rro	(Optional)
<i>key-show-rro-start</i>	(Optional)
<i>rro-len</i>	(Optional)
TABLE_v4	(Optional)
<i>addr</i>	(Optional)
<i>rro-flags</i>	(Optional)
<i>local-prot</i>	(Optional)
<i>in-use</i>	(Optional)
<i>has-bw</i>	(Optional)
<i>to-nhop</i>	(Optional)
<i>to-nnhop</i>	(Optional)
<i>no-prot</i>	(Optional)
<i>node-id</i>	(Optional)
TABLE_label	(Optional)
<i>lbl-flags</i>	(Optional)
<i>label-ctype</i>	(Optional)
<i>label</i>	(Optional)
TABLE_unnum	(Optional)
<i>rtr-id</i>	(Optional)
<i>ifindex</i>	(Optional)
<i>flags</i>	(Optional)
TABLE_fspect	(Optional)
<i>type</i>	(Optional)
<i>len</i>	(Optional)
<i>ver</i>	(Optional)
<i>hdr-len</i>	(Optional)
TABLE_uni	(Optional)
<i>sig-type</i>	(Optional)

<i>cct</i>	(Optional)
<i>ncc</i>	(Optional)
<i>nvc</i>	(Optional)
<i>mult</i>	(Optional)
<i>trans</i>	(Optional)
TABLE_intsrv_gtd	(Optional)
<i>svc-id</i>	(Optional)
<i>svc-len</i>	(Optional)
<i>parm-id</i>	(Optional)
<i>parm-flg</i>	(Optional)
<i>parm-len</i>	(Optional)
<i>avg-rate</i>	(Optional)
<i>depth</i>	(Optional)
<i>peak-rate</i>	(Optional)
<i>min-unit</i>	(Optional)
<i>max-unit</i>	(Optional)
<i>rspec-parm-id</i>	(Optional)
<i>rspec-parm-flg</i>	(Optional)
<i>rspec-parm-len</i>	(Optional)
<i>req-rate</i>	(Optional)
<i>rspec-slack</i>	(Optional)
TABLE_intsrv_cload	(Optional)
<i>svc-id</i>	(Optional)
<i>svc-len</i>	(Optional)
<i>parm-id</i>	(Optional)
<i>parm-flg</i>	(Optional)
<i>parm-len</i>	(Optional)
<i>avg-rate</i>	(Optional)
<i>depth</i>	(Optional)

<i>peak-rate</i>	(Optional)
<i>min-unit</i>	(Optional)
<i>max-unit</i>	(Optional)
TABLE_intsrv_qual	(Optional)
<i>svc-id</i>	(Optional)
<i>svc-len</i>	(Optional)
<i>prot-flags</i>	(Optional)
<i>plr-flags</i>	(Optional)
<i>plr-filter-addr</i>	(Optional)
<i>plink-nhop-addr</i>	(Optional)
<i>mp-label</i>	(Optional)
<i>mp-filter-addr</i>	(Optional)
<i>policy-src</i>	(Optional)

Command Mode

- /exec

show ip rsvp sender

```
show ip rsvp sender [ destination <dest_addr> ] [ sender <src_addr> ] [ dst-port <dport-val> ] [ src-port
<sport-val> ] [ private ] [ detail ] [ __readonly__ [ <total-count> ] [ TABLE_path <dest-ip> <src-ip> <prot>
<dport> <src-port> <phop><in-if> ] [ TABLE_path_detail <start-show-ip-rsvp-path-det> [ TABLE_sess_info
[ <unsup-type> ] [ TABLE_v4 <dest> <prot-id> <police> <dest-port> ] [ TABLE_tun_v4 <dest> <tun-id>
<ext-dun-id> ] [ TABLE_tun_p2mp_ipv4 <p2mp-id> <tun-id> <ext-tun-id> ] ] [ TABLE_sender_tmpl [
<unsupported-templ-type> ] [ TABLE_type_v4 <sender> <port> ] [ TABLE_type_lsp_tun_v4 <tun-sender>
<lsp-id> ] [ TABLE_type_lsp_tun_p2mp_v4 <tun_sender> <lsp-id> <subgrp-orig> <subgrp-id> ] ] [ <phop>
<phop-intf> <ref-time> <exp-time> ] [ <last-ref-sref> <last-ref-time> <last-ref-rc> <nhop> <nhop-intf> ] [
<rcvd-msgid> <in-ack-db> ] [ <xmit-msgid> <rr-stage> <ack-out> ] <psb-flags> <pfc-flags> [
TABLE_path_sess_in <setup-prio> <res-prio> [ <attr-flags> ] [ <prot-desired> ] [ <label-rec> ] [ <se-style>
] [ <ero-exp-req> ] [ <bw-prot-desired> ] [ <node-prot-desired> ] [ <sess-name> ] ] [ TABLE_path_sess_out
<setup-prio> <res-prio> [ <attr-flags> ] [ <prot-desired> ] [ <label-rec> ] [ <se-style> ] [ <ero-exp-req> ] [
<bw-prot-desired> ] [ <node-prot-desired> ] [ <sess-name> ] ] [ TABLE_ero <in-out> [ TABLE_ero_type
<show-sender-ero-start> [ <unk-obj-type> <unk-obj-len> ] [ TABLE_ero_ipv4 <hop> <loose-strict> <len>
<prefix-len> ] [ TABLE_ero_ipv6 <loose-strict> <len> ] [ TABLE_ero_unnum <gen-len> <rtr-id> <intf-id>
] [ TABLE_ero_as <loose-strict> <len> <as-num> ] ] ] [ TABLE_rro <key-show-rro-start> [ <rro-len> ] [
TABLE_v4 <addr> <rro-flags> [ <local-prot> ] [ <in-use> ] [ <has-bw> ] [ <to-nnhop> ] [ <to-nhop> ] [
<no-prot> ] [ <node-id> ] ] [ TABLE_label <lbl-flags> <label-ctype> <label> ] [ TABLE_unnum <rtr-id>
<ifindex> <flags> ] ] <class-type> [ TABLE_tspec <type> <obj_len> <version> <total_len> [
TABLE_uni_tspec <len> <sig-type> <cct> <ncc> <nvc> <mult> <trans> ] [ TABLE_intsrv <serv-id>
<serv-len> <param-id> <flags> <param-len> <avg-rate> <avg-depth> <peak-rate> <min-unit> <max-unit>
] ] [ <ds-flag> ] [ <plr-flag> ] <backup-ifname> [ <plr-template> <orig-ero-mp> ] [ <backup-phys-if> ] [
<mp-template> <orig-in-if> ] <path-hndl> <policy-state> [ <policy-src> ] [ <proxy-state> ] [ TABLE_psb_pfc
<pfc-output-intf> <pfc-policy-status> <pfc-policy-handle> [ <pfc-policy-query-state> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
sender	Display PATH information
destination	(Optional) Display PATH based on a destination address
<i>dest_addr</i>	(Optional) Destination address
sender	(Optional) Display PATH based on a source address
<i>src_addr</i>	(Optional) Source address
dst-port	(Optional) Display PATH based on destination port
<i>dport-val</i>	(Optional) Destination Port value
src-port	(Optional) Display PATH based on a source port
<i>sport-val</i>	(Optional) Source port value

<i>private</i>	(Optional) Display RSVP internal information
<i>detail</i>	(Optional) Display detailed RSVP status
<i>__readonly__</i>	(Optional)
<i>total-count</i>	(Optional)
TABLE_path	(Optional)
<i>dest-ip</i>	(Optional)
<i>dport</i>	(Optional)
<i>src-ip</i>	(Optional)
<i>src-port</i>	(Optional)
<i>prot</i>	(Optional)
<i>phop</i>	(Optional)
TABLE_path_detail	(Optional)
<i>start-show-ip-rsvp-path-det</i>	(Optional)
<i>phop-intf</i>	(Optional)
<i>ref-time</i>	(Optional)
<i>exp-time</i>	(Optional)
<i>nhop</i>	(Optional)
<i>nhop-intf</i>	(Optional)
<i>class-type</i>	(Optional)
<i>path-hndl</i>	(Optional)
<i>policy-state</i>	(Optional)
<i>policy-src</i>	(Optional)
<i>proxy-state</i>	(Optional)
<i>last-ref-time</i>	(Optional)
<i>last-ref-rc</i>	(Optional)
<i>last-ref-sref</i>	(Optional)
<i>rr-stage</i>	(Optional)
<i>xmit-msgid</i>	(Optional)
<i>ack-out</i>	(Optional)

<i>rcvd-msgid</i>	(Optional)
<i>in-ack-db</i>	(Optional)
<i>psb-flags</i>	(Optional)
<i>pfc-flags</i>	(Optional)
<i>ds-flag</i>	(Optional)
<i>plr-flag</i>	(Optional)
<i>backup-ifname</i>	(Optional)
<i>plr-template</i>	(Optional)
<i>orig-ero-mp</i>	(Optional)
<i>backup-phys-if</i>	(Optional)
<i>mp-template</i>	(Optional)
<i>orig-in-if</i>	(Optional)
TABLE_path_sess_in	(Optional)
<i>setup-prio</i>	(Optional)
<i>res-prio</i>	(Optional)
<i>attr-flags</i>	(Optional)
<i>prot-desired</i>	(Optional)
<i>label-rec</i>	(Optional)
<i>se-style</i>	(Optional)
<i>ero-exp-req</i>	(Optional)
<i>bw-prot-desired</i>	(Optional)
<i>node-prot-desired</i>	(Optional)
<i>sess-name</i>	(Optional)
TABLE_path_sess_out	(Optional)
<i>setup-prio</i>	(Optional)
<i>res-prio</i>	(Optional)
<i>attr-flags</i>	(Optional)
<i>prot-desired</i>	(Optional)
<i>label-rec</i>	(Optional)

<i>se-style</i>	(Optional)
<i>ero-exp-req</i>	(Optional)
<i>bw-prot-desired</i>	(Optional)
<i>node-prot-desired</i>	(Optional)
<i>sess-name</i>	(Optional)
TABLE_sess_info	(Optional)
<i>unsup-type</i>	(Optional)
TABLE_v4	(Optional)
<i>dest</i>	(Optional)
<i>prot-id</i>	(Optional)
<i>police</i>	(Optional)
<i>dest-port</i>	(Optional)
TABLE_tun_v4	(Optional)
<i>dest</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>ext-dun-id</i>	(Optional)
TABLE_tun_p2mp_ipv4	(Optional)
<i>p2mp-id</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>ext-tun-id</i>	(Optional)
TABLE_sender_tmpl	(Optional)
<i>unsupported-templ-type</i>	(Optional)
TABLE_type_v4	(Optional)
<i>sender</i>	(Optional)
<i>port</i>	(Optional)
TABLE_type_lsp_tun_v4	(Optional)
<i>tun-sender</i>	(Optional)
<i>lsp-id</i>	(Optional)
TABLE_type_lsp_tun_p2mp_v4	(Optional)

<i>tun_sender</i>	(Optional)
<i>lsp-id</i>	(Optional)
<i>subgrp-orig</i>	(Optional)
<i>subgrp-id</i>	(Optional)
TABLE_ero	(Optional)
<i>in-out</i>	(Optional)
TABLE_ero_type	(Optional)
<i>show-sender-ero-start</i>	(Optional)
<i>unk-obj-type</i>	(Optional)
<i>unk-obj-len</i>	(Optional)
TABLE_ero_ipv4	(Optional)
<i>hop</i>	(Optional)
<i>loose-strict</i>	(Optional)
<i>len</i>	(Optional)
<i>prefix-len</i>	(Optional)
TABLE_ero_ipv6	(Optional)
<i>loose-strict</i>	(Optional)
<i>len</i>	(Optional)
TABLE_ero_unnum	(Optional)
<i>gen-len</i>	(Optional)
<i>rtr-id</i>	(Optional)
<i>intf-id</i>	(Optional)
TABLE_ero_as	(Optional)
<i>loose-strict</i>	(Optional)
<i>len</i>	(Optional)
<i>as-num</i>	(Optional)
TABLE_rro	(Optional)
<i>key-show-rro-start</i>	(Optional)
<i>rro-len</i>	(Optional)

TABLE_v4	(Optional)
<i>addr</i>	(Optional)
<i>rro-flags</i>	(Optional)
<i>local-prot</i>	(Optional)
<i>in-use</i>	(Optional)
<i>has-bw</i>	(Optional)
<i>to-nhop</i>	(Optional)
<i>to-nnhop</i>	(Optional)
<i>no-prot</i>	(Optional)
<i>node-id</i>	(Optional)
TABLE_label	(Optional)
<i>lbl-flags</i>	(Optional)
<i>label-ctype</i>	(Optional)
<i>label</i>	(Optional)
TABLE_unnum	(Optional)
<i>rtr-id</i>	(Optional)
<i>ifindex</i>	(Optional)
<i>flags</i>	(Optional)
TABLE_tspec	(Optional)
<i>type</i>	(Optional)
<i>obj_len</i>	(Optional)
<i>version</i>	(Optional)
<i>total_len</i>	(Optional)
TABLE_uni_tspec	(Optional)
<i>sig-type</i>	(Optional)
<i>cct</i>	(Optional)
<i>ncc</i>	(Optional)
<i>nvc</i>	(Optional)
<i>mult</i>	(Optional)

<i>trans</i>	(Optional)
TABLE_intsrv	(Optional)
<i>serv-id</i>	(Optional)
<i>serv-len</i>	(Optional)
<i>param-id</i>	(Optional)
<i>flags</i>	(Optional)
<i>param-len</i>	(Optional)
<i>avg-rate</i>	(Optional)
<i>avg-depth</i>	(Optional)
<i>peak-rate</i>	(Optional)
<i>min-unit</i>	(Optional)
<i>max-unit</i>	(Optional)
TABLE_psb_pfc	(Optional)
<i>pfc-output-intf</i>	(Optional)
<i>pfc-policy-status</i>	(Optional)
<i>pfc-policy-handle</i>	(Optional)
<i>pfc-policy-query-state</i>	(Optional)

Command Mode

- /exec

show ip rsvp session

```
show ip rsvp session [ destination <dest_addr> ] [ __readonly__ <total-count> TABLE_session <type>
<dest-ip> <dport> <tunnel-id> <psb-cnt> <rsb-cnt> <reqs> <pxbs> <rxbs> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
session	Display RSVP Session information
destination	(Optional) Display Sessions based on a destination address
<i>dest_addr</i>	(Optional) Destination address
<i>__readonly__</i>	(Optional)
<i>total-count</i>	(Optional)
TABLE_session	(Optional)
<i>type</i>	(Optional)
<i>dest-ip</i>	(Optional)
<i>dport</i>	(Optional)
<i>tunnel-id</i>	(Optional)
<i>psb-cnt</i>	(Optional)
<i>rsb-cnt</i>	(Optional)
<i>reqs</i>	(Optional)
<i>pxbs</i>	(Optional)
<i>rxbs</i>	(Optional)

Command Mode

- /exec

show ip rsvp signalling rate-limit

show ip rsvp signalling rate-limit [*__readonly__* *TABLE_counters* *<rlim-ena>* *<limit>* *<intvl>*]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
signalling	Display signalling informaion
rate-limit	Display rate limit parameters
<i>__readonly__</i>	(Optional)
<i>TABLE_counters</i>	(Optional)
<i>rlim-ena</i>	(Optional)
<i>limit</i>	(Optional)
<i>intvl</i>	(Optional)

Command Mode

- /exec

show ip rsvp signalling refresh interval

show ip rsvp signalling refresh interval [__readonly__ TABLE_counters <interval>]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
signalling	Display signalling informaion
refresh	Display refresh information
interval	Display interval for refresh messages
__readonly__	(Optional)
TABLE_counters	(Optional)
<i>interval</i>	(Optional)

Command Mode

- /exec

show ip rsvp signalling refresh misses

show ip rsvp signalling refresh misses [*__readonly__* *TABLE_counters* *<misses>*]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
signalling	Display signalling informaion
refresh	Display refresh information
misses	Display misses required to trigger state timeout
<i>__readonly__</i>	(Optional)
<i>TABLE_counters</i>	(Optional)
<i>misses</i>	(Optional)

Command Mode

- /exec

show ip rsvp signalling refresh reduction

```
show ip rsvp signalling refresh reduction [ __readonly__ TABLE_counters <rr-ena> <ackdelay> <ackdelay>
<epoch> [ <msgid-inuse> <msgid-alloc> <msgid-free> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
signalling	Display signalling informaion
refresh	Display refresh information
reduction	Display refresh reduction parameters
<i>__readonly__</i>	(Optional)
<i>TABLE_counters</i>	(Optional)
<i>rr-ena</i>	(Optional)
<i>ackdelay</i>	(Optional)
<i>epoch</i>	(Optional)
<i>msgid-inuse</i>	(Optional)
<i>msgid-alloc</i>	(Optional)
<i>msgid-free</i>	(Optional)

Command Mode

- /exec

show ip sla application

```
show ip sla application [ __readonly__ <version> <line-length> <type-name> <feature-name>
<lowmemorymark> <max-entries> <probe-cap> <entries-config> <entries-active> <entries-pending>
<entries-inactive> <last-change-time> <rttMonApplTimeOfLastSet> <rttMonApplReset> ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
application	IP SLAs Application
<i>__readonly__</i>	(Optional)
<i>version</i>	(Optional)
<i>line-length</i>	(Optional)
<i>type-name</i>	(Optional)
<i>entries-config</i>	(Optional)
<i>entries-active</i>	(Optional)
<i>entries-pending</i>	(Optional)
<i>entries-inactive</i>	(Optional)
<i>last-change-time</i>	(Optional)
<i>rttMonApplTimeOfLastSet</i>	(Optional)
<i>rttMonApplReset</i>	(Optional) Appl Reset
<i>feature-name</i>	(Optional)
<i>lowmemorymark</i>	(Optional)
<i>max-entries</i>	(Optional)
<i>probe-cap</i>	(Optional)

Command Mode

- /exec

show ip sla configuration

```
show ip sla configuration [ <entry-num> ] [ __readonly__ { TABLE_oper <index> <oper-type> <owner>
<tag> <threshold> <timeout> <dest-ip> <source-ip> <dest-port> <source-port> <dns-source-port>
<dns-name-server> <traffic-class> <flow-label> <tos> <vrf-name> <source-int> } { TABLE_control
<control-enabled> } { TABLE_udpecho <packet-size> <verify-data> <data-pattern> } { TABLE_icmpecho
<packet-size> <verify-data> } { TABLE_dns } { TABLE_fabricpath <profile-id> <switch-id> <interface>
} { TABLE_udpjitter <packet-size> <packet-interval> <num-packets> <codec-type> <codec-num-packets>
<codec-packet-size> <codec-packet-interval> <codec-adv-factor> <verify-data> <packet-priority>
<ntp-sync-tolerance> <ntp-sync-toltype> } { TABLE_http <http-oper> <http-version> <url> <proxy>
<raw-strings> <cache-control> } { TABLE_schedule <frequency> <secondary-freq-timeout>
<secondary-freq-loss> <next-start-time> <group-scheduled> <randomly-scheduled> <low-frequency>
<high-frequency> <life> <ageout> <recurring> <status-of-entry> } { TABLE_diststats <hours> <buckets>
<precision> <interval> } { TABLE_enhhistory <interval> <ebuckets> } { TABLE_history-stats <lives>
<hsbuckets> <filter> } ]
```

Syntax Description

<i>__readonly__</i>	(Optional)
<i>index</i>	(Optional)
TABLE_oper	(Optional) Show operation information
<i>owner</i>	(Optional)
<i>tag</i>	(Optional)
<i>threshold</i>	(Optional)
<i>timeout</i>	(Optional)
<i>oper-type</i>	(Optional)
<i>dest-ip</i>	(Optional)
<i>source-ip</i>	(Optional)
<i>dest-port</i>	(Optional)
<i>source-port</i>	(Optional)
<i>dns-source-port</i>	(Optional)
<i>traffic-class</i>	(Optional)
<i>flow-label</i>	(Optional)
<i>tos</i>	(Optional)
<i>vrf-name</i>	(Optional)
<i>source-int</i>	(Optional)

<i>dns-name-server</i>	(Optional)
TABLE_control	(Optional) Show control information
<i>control-enabled</i>	(Optional)
TABLE_udpecho	(Optional) Show UDP echo information
<i>data-pattern</i>	(Optional)
TABLE_icmpecho	(Optional) Show ICMP echo information
TABLE_dns	(Optional) Show DNS information
TABLE_fabricpath	(Optional) Show FABRIC PATH echo information
<i>profile-id</i>	(Optional)
<i>switch-id</i>	(Optional)
<i>interface</i>	(Optional)
TABLE_udpjitter	(Optional) Show UDP jitter information
<i>packet-size</i>	(Optional)
<i>packet-interval</i>	(Optional)
<i>num-packets</i>	(Optional)
<i>codec-type</i>	(Optional)
<i>codec-num-packets</i>	(Optional)
<i>codec-packet-size</i>	(Optional)
<i>codec-packet-interval</i>	(Optional)
<i>codec-adv-factor</i>	(Optional)
<i>verify-data</i>	(Optional)
<i>packet-priority</i>	(Optional)
<i>ntp-sync-tolerance</i>	(Optional)
<i>ntp-sync-toctype</i>	(Optional)
TABLE_http	(Optional) Show HTTP information
<i>http-oper</i>	(Optional)
<i>http-version</i>	(Optional)
<i>url</i>	(Optional)
<i>proxy</i>	(Optional)

<i>raw-strings</i>	(Optional)
<i>cache-control</i>	(Optional)
TABLE_schedule	(Optional) Show schedule information
<i>frequency</i>	(Optional)
<i>secondary-freq-timeout</i>	(Optional)
<i>secondary-freq-loss</i>	(Optional)
<i>next-start-time</i>	(Optional)
<i>group-scheduled</i>	(Optional)
<i>randomly-scheduled</i>	(Optional)
<i>low-frequency</i>	(Optional)
<i>high-frequency</i>	(Optional)
<i>life</i>	(Optional)
<i>ageout</i>	(Optional)
<i>recurring</i>	(Optional)
<i>status-of-entry</i>	(Optional)
TABLE_diststats	(Optional) Show distribution of statistics information
<i>hours</i>	(Optional)
<i>buckets</i>	(Optional)
<i>precision</i>	(Optional)
<i>interval</i>	(Optional)
TABLE_enhhistory	(Optional) Show enhanced history information
<i>einterval</i>	(Optional)
<i>ebuckets</i>	(Optional)
TABLE_history-stats	(Optional) Show history statistics information
<i>lives</i>	(Optional)
<i>hsbuckets</i>	(Optional)
<i>filter</i>	(Optional)
show	
ip	

sla	Service Level Agreement (SLA)
configuration	IP SLAs Configuration
<i>entry-num</i>	(Optional) Entry Number

Command Mode

- /exec

show ip sla enhanced-history collection-statistics

```
show ip sla enhanced-history collection-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ <index> { TABLE_generic <outstring> } ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
collection-statistics	IP SLAs Collection Statistics
<i>operation-number</i>	(Optional) Entry Number
interval	(Optional) Aggregation Interval
<i>interval-in-secs</i>	(Optional) Interval in seconds
<i>__readonly__</i>	(Optional)
<i>index</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>outstring</i>	(Optional)

Command Mode

- /exec

show ip sla enhanced-history distribution-statistics

```
show ip sla enhanced-history distribution-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ <index> { TABLE_generic <outstring> } ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
distribution-statistics	IP SLAs Distribution Statistics
<i>operation-number</i>	(Optional) Entry Number
interval	(Optional) Aggregation Interval
<i>interval-in-secs</i>	(Optional) Interval in seconds
<i>__readonly__</i>	(Optional)
<i>index</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>outstring</i>	(Optional)

Command Mode

- /exec

show ip sla group schedule

```
show ip sla group schedule [ <group-operation-number> ] [ __readonly__ <entry-number> <probe-list>
<num-probes> <sched-period> <mode> <low-freq> <high-freq> <freq> <snmp-status> <next-start-time>
<life> <ageout> ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
group	IP SLAs Group Scheduling/Configuration
schedule	Group Scheduling
<i>group-operation-number</i>	(Optional) Group Schedule Entry Number
<i>__readonly__</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>probe-list</i>	(Optional)
<i>num-probes</i>	(Optional)
<i>sched-period</i>	(Optional)
<i>mode</i>	(Optional)
<i>low-freq</i>	(Optional)
<i>high-freq</i>	(Optional)
<i>freq</i>	(Optional)
<i>snmp-status</i>	(Optional)
<i>next-start-time</i>	(Optional)
<i>life</i>	(Optional)
<i>ageout</i>	(Optional)

Command Mode

- /exec

show ip sla history

```
show ip sla history [ <operation-number> ] [ tabular | full | interval-statistics ] [ __readonly__ <index> {
TABLE_generic <outstring> } ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
history	IP SLAs History
<i>operation-number</i>	(Optional) Entry Number
tabular	(Optional) Compact Output
full	(Optional) Listed Output
interval-statistics	(Optional) Interval statistics output
<i>__readonly__</i>	(Optional)
<i>index</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>outstring</i>	(Optional)

Command Mode

- /exec

show ip sla reaction-configuration

```
show ip sla reaction-configuration [ <entry-num> ] [ __readonly__ <entry-number> <index> <reaction>
<threshold-type> <rising-value> <falling-value> <threshold-countX> <threshold-countY> <action-type>
<unconfigured> ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-configuration	IP SLAs Reaction Configuration
<i>entry-num</i>	(Optional) Entry Number
<i>__readonly__</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>index</i>	(Optional)
<i>reaction</i>	(Optional)
<i>threshold-type</i>	(Optional)
<i>rising-value</i>	(Optional)
<i>falling-value</i>	(Optional)
<i>threshold-countX</i>	(Optional)
<i>threshold-countY</i>	(Optional)
<i>action-type</i>	(Optional)
<i>unconfigured</i>	(Optional)

Command Mode

- /exec

show ip sla reaction-trigger

```
show ip sla reaction-trigger [ <entry-num> ] [ __readonly__ <entry-number> <target-entry> <snmp-status>
<operational-state> <unconfigured> ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-trigger	IP SLAs Reaction Trigger
<i>entry-num</i>	(Optional) Entry Number
<i>__readonly__</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>target-entry</i>	(Optional)
<i>snmp-status</i>	(Optional)
<i>operational-state</i>	(Optional)
<i>unconfigured</i>	(Optional)

Command Mode

- /exec

show ip sla responder

```
show ip sla responder [ __readonly__ <gen-enabled> <rttMonApplResponder> <perm-enabled>
<ctrl-msg-count> <errors> { TABLE_recent <print-recent-hdr> <print-recent-err-hdr> <recent-addr>
<recent-time> <recent-error> } { TABLE_permanent <print-tcp-hdr> <print-udp-hdr> <address> <port> } ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
responder	IP SLAs Responder Information
<i>__readonly__</i>	(Optional)
<i>gen-enabled</i>	(Optional)
<i>rttMonApplResponder</i>	(Optional) rttMonApplResponder
<i>perm-enabled</i>	(Optional)
<i>ctrl-msg-count</i>	(Optional)
<i>errors</i>	(Optional)
TABLE_recent	(Optional) Show recent control message information
<i>print-recent-hdr</i>	(Optional)
<i>print-recent-err-hdr</i>	(Optional)
<i>recent-addr</i>	(Optional)
<i>recent-time</i>	(Optional)
<i>recent-error</i>	(Optional)
TABLE_permanent	(Optional) Show permanent port/address information
<i>print-tcp-hdr</i>	(Optional)
<i>print-udp-hdr</i>	(Optional)
<i>address</i>	(Optional)
<i>port</i>	(Optional)

Command Mode

- /exec

show ip sla statistics

```
show ip sla statistics [ aggregated ] [ <entry-num> ] [ details ] [ __readonly__ <index> { TABLE_common
<update-count> <latest-RTT> <latest-start-time> <latest-return-code> <micro-accuracy> <nano-accuracy>
<http-dns-rtt> <http-tcp-rtt> <http-ttfb> <http-rtt> <http-status> <http-recvlen> <http-bodysize>
<http-dns-timeout> <http-tcp-timeout> <http-t-timeout> <http-dns-error> <http-tcp-error> <http-t-error> }
{ TABLE_schedule <life-left> <oper-state> <reset-time> } { TABLE_jitter <operation-type> <ntp-sync-state>
<rtt-count> <rtt-min> <rtt-avg> <rtt-max> <lat-ow-samples> <sd-lat-sum> <sd-lat-sum2> <sd-lat-ow-min>
<sd-lat-ow-avg> <sd-lat-ow-max> <ds-lat-sum> <ds-lat-sum2> <ds-lat-ow-min> <ds-lat-ow-avg>
<ds-lat-ow-max> <sd-jitter-count> <ds-jitter-count> <sd-jitter-min> <sd-jitter-avg> <sd-jitter-max>
<sd-pos-jitter-min> <sd-pos-jitter-avg> <sd-pos-jitter-max> <sd-pos-jitter-num> <sd-pos-jitter-sum>
<sd-pos-jitter-sum2> <sd-neg-jitter-min> <sd-neg-jitter-avg> <sd-neg-jitter-max> <sd-neg-jitter-num>
<sd-neg-jitter-sum> <sd-neg-jitter-sum2> <ds-jitter-min> <ds-jitter-avg> <ds-jitter-max> <ds-pos-jitter-min>
<ds-pos-jitter-avg> <ds-pos-jitter-max> <ds-pos-jitter-num> <ds-pos-jitter-sum> <ds-pos-jitter-sum2>
<ds-neg-jitter-min> <ds-neg-jitter-avg> <ds-neg-jitter-max> <ds-neg-jitter-num> <ds-neg-jitter-sum>
<ds-neg-jitter-sum2> <pkt-unprocessed> <pkt-loss> <pkt-loss-per> <pkt-loss-min> <pkt-loss-max>
<pkt-loss-inter-min> <pkt-loss-inter-max> <pkt-loss-sd> <pkt-loss-sd-per> <pkt-loss-sd-min>
<pkt-loss-sd-max> <pkt-loss-sd-inter-min> <pkt-loss-sd-inter-max> <pkt-loss-ds> <pkt-loss-ds-per>
<pkt-loss-ds-min> <pkt-loss-ds-max> <pkt-loss-ds-inter-min> <pkt-loss-ds-inter-max> <pkt-oos> <pkt-oos-sd>
<pkt-oos-ds> <pkt-oos-both> <pkt-mia> <pkt-late> <pkt-skipped> <voice-icpif> <voice-mos> <inter-jitter-out>
<inter-jitter-in> <jitter-avg> } { TABLE_aggdetails <outstring> } <print_type> ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
statistics	IP SLAs Statistics
<i>entry-num</i>	(Optional) Entry Number
details	(Optional) Detailed Output
aggregated	(Optional) IP SLAs Statistics Aggregated
<i>__readonly__</i>	(Optional)
<i>index</i>	(Optional)
TABLE_common	(Optional) Show common statistics information
<i>update-count</i>	(Optional)
<i>latest-RTT</i>	(Optional)
<i>latest-start-time</i>	(Optional)
<i>latest-return-code</i>	(Optional)
<i>micro-accuracy</i>	(Optional)

<i>nano-accuracy</i>	(Optional)
<i>http-dns-rtt</i>	(Optional)
<i>http-tcp-rtt</i>	(Optional)
<i>http-tfb</i>	(Optional)
<i>http-rtt</i>	(Optional)
<i>http-status</i>	(Optional)
<i>http-recvlen</i>	(Optional)
<i>http-bodysize</i>	(Optional)
<i>http-dns-timeout</i>	(Optional)
<i>http-tcp-timeout</i>	(Optional)
<i>http-t-timeout</i>	(Optional)
<i>http-dns-error</i>	(Optional)
<i>http-tcp-error</i>	(Optional)
<i>http-t-error</i>	(Optional)
TABLE_schedule	(Optional) Show schedule statistics information
<i>life-left</i>	(Optional)
<i>oper-state</i>	(Optional)
<i>reset-time</i>	(Optional)
TABLE_jitter	(Optional) Show jitter statistics information
<i>operation-type</i>	(Optional)
<i>ntp-sync-state</i>	(Optional)
<i>rtt-count</i>	(Optional)
<i>rtt-min</i>	(Optional)
<i>rtt-avg</i>	(Optional)
<i>rtt-max</i>	(Optional)
<i>lat-ow-samples</i>	(Optional)
<i>sd-lat-sum</i>	(Optional)
<i>sd-lat-sum2</i>	(Optional)
<i>sd-lat-ow-min</i>	(Optional)

<i>sd-lat-ow-avg</i>	(Optional)
<i>sd-lat-ow-max</i>	(Optional)
<i>ds-lat-sum</i>	(Optional)
<i>ds-lat-sum2</i>	(Optional)
<i>ds-lat-ow-min</i>	(Optional)
<i>ds-lat-ow-avg</i>	(Optional)
<i>ds-lat-ow-max</i>	(Optional)
<i>sd-jitter-count</i>	(Optional)
<i>ds-jitter-count</i>	(Optional)
<i>sd-jitter-min</i>	(Optional)
<i>sd-jitter-avg</i>	(Optional)
<i>sd-jitter-max</i>	(Optional)
<i>sd-pos-jitter-min</i>	(Optional)
<i>sd-pos-jitter-avg</i>	(Optional)
<i>sd-pos-jitter-max</i>	(Optional)
<i>sd-pos-jitter-num</i>	(Optional)
<i>sd-pos-jitter-sum</i>	(Optional)
<i>sd-pos-jitter-sum2</i>	(Optional)
<i>sd-neg-jitter-min</i>	(Optional)
<i>sd-neg-jitter-avg</i>	(Optional)
<i>sd-neg-jitter-max</i>	(Optional)
<i>sd-neg-jitter-num</i>	(Optional)
<i>sd-neg-jitter-sum</i>	(Optional)
<i>sd-neg-jitter-sum2</i>	(Optional)
<i>ds-jitter-min</i>	(Optional)
<i>ds-jitter-avg</i>	(Optional)
<i>ds-jitter-max</i>	(Optional)
<i>ds-pos-jitter-min</i>	(Optional)
<i>ds-pos-jitter-avg</i>	(Optional)

<i>ds-pos-jitter-max</i>	(Optional)
<i>ds-pos-jitter-num</i>	(Optional)
<i>ds-pos-jitter-sum</i>	(Optional)
<i>ds-pos-jitter-sum2</i>	(Optional)
<i>ds-neg-jitter-min</i>	(Optional)
<i>ds-neg-jitter-avg</i>	(Optional)
<i>ds-neg-jitter-max</i>	(Optional)
<i>ds-neg-jitter-num</i>	(Optional)
<i>ds-neg-jitter-sum</i>	(Optional)
<i>ds-neg-jitter-sum2</i>	(Optional)
<i>pkt-unprocessed</i>	(Optional)
<i>pkt-loss</i>	(Optional)
<i>pkt-loss-per</i>	(Optional)
<i>pkt-loss-min</i>	(Optional)
<i>pkt-loss-max</i>	(Optional)
<i>pkt-loss-inter-min</i>	(Optional)
<i>pkt-loss-inter-max</i>	(Optional)
<i>pkt-loss-sd</i>	(Optional)
<i>pkt-loss-sd-per</i>	(Optional)
<i>pkt-loss-sd-min</i>	(Optional)
<i>pkt-loss-sd-max</i>	(Optional)
<i>pkt-loss-sd-inter-min</i>	(Optional)
<i>pkt-loss-sd-inter-max</i>	(Optional)
<i>pkt-loss-ds</i>	(Optional)
<i>pkt-loss-ds-per</i>	(Optional)
<i>pkt-loss-ds-min</i>	(Optional)
<i>pkt-loss-ds-max</i>	(Optional)
<i>pkt-loss-ds-inter-min</i>	(Optional)
<i>pkt-loss-ds-inter-max</i>	(Optional)

<i>pkt-oos</i>	(Optional)
<i>pkt-oos-sd</i>	(Optional)
<i>pkt-oos-ds</i>	(Optional)
<i>pkt-oos-both</i>	(Optional)
<i>pkt-mia</i>	(Optional)
<i>pkt-late</i>	(Optional)
<i>pkt-skipped</i>	(Optional)
<i>voice-icpif</i>	(Optional)
<i>voice-mos</i>	(Optional)
<i>inter-jitter-out</i>	(Optional)
<i>inter-jitter-in</i>	(Optional)
<i>jitter-avg</i>	(Optional)
TABLE_aggdetails	(Optional) Show aggregated statistics information
<i>outstring</i>	(Optional)
<i>print_type</i>	(Optional)

Command Mode

- /exec

show ip ssh source-interface

```
show ip ssh source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipsshvrf
<vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ssh	Display SSH client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipsshvrf	(Optional) source interface of ssh given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip ssh source-interface vrf all

```
show ip ssh source-interface vrf all [ __readonly__ [ { TABLE_ipssh <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ssh	Display SSH client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipssh	(Optional) source interface of ssh
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip static-route

```
show ip static-route [ multicast ] [ internal ] [ track-table ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ [ <count> <unres-count> ] [ TABLE_vrf_all { <cntxt_name> <cntxt_id> [ TABLE_each_vrf
{ <prefix_addr_msk> <nhop_addr_msk> <nhop_vrf_info> <nhop_intr_info> <urib_stat> [ <seg_id> ] [
<tunnel_id> <urib_encap_type> ] <nhop_urib_stat> [ <track_obj_num> <track_obj_state> } ] } ] [
TABLE_multicast <multicast> ] [ TABLE_track-table ] [ TABLE_route <prefix> <masklen> <nhop>
<nhop-masklen> <intf> <real-nhop> <iod> <pref> <tag> <unres> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
static-route	Display configured static routes
multicast	(Optional) Display only multicast routes
internal	(Optional) Display internal data structure info
track-table	(Optional) Display track object details associated with static routes
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf_all	(Optional)
<i>cntxt_name</i>	(Optional)
<i>cntxt_id</i>	(Optional)
TABLE_each_vrf	(Optional)
<i>prefix_addr_msk</i>	(Optional)
<i>nhop_addr_msk</i>	(Optional)
<i>nhop_vrf_info</i>	(Optional)
<i>nhop_intr_info</i>	(Optional)
<i>urib_stat</i>	(Optional)
<i>seg_id</i>	(Optional)
<i>tunnel_id</i>	(Optional)

<i>urib_encap_type</i>	(Optional)
<i>nhop_urib_stat</i>	(Optional)
<i>track_obj_num</i>	(Optional)
<i>track_obj_state</i>	(Optional)
TABLE_multicast	(Optional)
<i>multicast</i>	(Optional)
TABLE_track-table	(Optional)
TABLE_route	(Optional)
<i>prefix</i>	(Optional)
<i>masklen</i>	(Optional)
<i>nhop</i>	(Optional)
<i>nhop-masklen</i>	(Optional)
<i>intf</i>	(Optional)
<i>real-nhop</i>	(Optional)
<i>iod</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>unres</i>	(Optional)
<i>count</i>	(Optional)
<i>unres-count</i>	(Optional)

Command Mode

- /exec

show ip stats

show ip stats

Syntax Description

show	Show running system information
ip	Display IP information
stats	Display IP internal stats

Command Mode

- /exec

show ip telnet source-interface

```
show ip telnet source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ {
TABLE_iptelnetvrf <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
telnet	Display telnet information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_iptelnetvrf	(Optional) source interface of telnet given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip telnet source-interface vrf all

```
show ip telnet source-interface vrf all [ __readonly__ [ { TABLE iptelnet <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
telnet	Display telnet information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE iptelnet	(Optional) source interface of telnet
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip tftp source-interface

```
show ip tftp source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipftpvrf
<vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
tftp	Display TFTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipftpvrf	(Optional) source interface of tftp given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip tftp source-interface vrf all

```
show ip tftp source-interface vrf all [ __readonly__ [ { TABLE iptftp <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
tftp	Display TFTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE iptftp	(Optional) source interface of tftp
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip traceroute source-interface

```
show ip traceroute source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ {
TABLE_iptraceroutevrf <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
traceroute	Display traceroute client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_iptraceroutevrf	(Optional) source interface of traceroute
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip traceroute source-interface vrf all

```
show ip traceroute source-interface vrf all [ __readonly__ [ { TABLE_iptraceroute <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
traceroute	Display traceroute client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iptraceroute	(Optional) source interface of traceroute
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip traffic

```
show ip traffic [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf-name-out>
TABLE_ip_traffic <rcvd> <sent> <consumed> <fwd-ucast> <fwd-mcast> <fwd-label> <opts-end> <opts-nop>
<opts-bsec> <opts-loosesrc-route> <opts-timestamp> <opts-esec> <opts-record-route> <opts-ump> <opts-stid>
<opts-strsrc-route> <opts-alert> <opts-cipso> <opts-other> <bad-csum> <too-small> <bad-ver> <bad-hlen>
<bad-len> <bad-dest> <bad-ttl> <cant-fwd> <out-drop> <bad-encap> <no-route> <no-PROTO> <bad-options>
<frag> <fragmented> <out-frag> <frag-drop> <cant-frag> <reasm> <frag-to> <tx-redir> <tx-unreach>
<tx-echo-req> <tx-echo-reply> <tx-mask-req> <tx-mask-rep> <tx-info-req> <tx-info-reply> <tx-param-prob>
<tx-source-quench> <tx-tstamp-req> <tx-tstamp-reply> <tx-time-exceeded> <tx-router-solicit>
<tx-router-advert> <rx-redir> <rx-unreach> <rx-echo-req> <rx-echo-reply> <rx-mask-req> <rx-mask-rep>
<rx-info-req> <rx-info-reply> <rx-param-prob> <rx-source-quench> <rx-tstamp-req> <rx-tstamp-reply>
<rx-time-exceeded> <rx-router-solicit> <rx-router-advert> <rx-format-errors> <rx-csum-errors> <inrcv>
<inocet> <inhderr> <innoroutes> <inaddrerr> <innoproto> <intruncated> <inforw> <reasmoks> <reasmfails>
<reasmreqds> <indiscards> <indelivers> <outnoroutes> <outrqsts> <outforw> <outdiscards> <outfragreqds>
<outfragoks> <outfragfails> <outfragcreates> <outtxmts> <outocet> <inmcastpkts> <inmcastoctets>
<outmcastpkts> <outmcastoctets> <inbcastpkts> <outbcastpkts> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
traffic	Display IP software processed traffic statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_ip_traffic	(Optional)
<i>rcvd</i>	(Optional)
<i>sent</i>	(Optional)
<i>consumed</i>	(Optional)
<i>fwd-ucast</i>	(Optional)
<i>fwd-mcast</i>	(Optional)
<i>fwd-label</i>	(Optional)
<i>opts-end</i>	(Optional)

<i>opts-nop</i>	(Optional)
<i>opts-bsec</i>	(Optional)
<i>opts-loosesrc-route</i>	(Optional)
<i>opts-timestamp</i>	(Optional)
<i>opts-eseq</i>	(Optional)
<i>opts-record-route</i>	(Optional)
<i>opts-ump</i>	(Optional)
<i>opts-stid</i>	(Optional)
<i>opts-strsrc-route</i>	(Optional)
<i>opts-alert</i>	(Optional)
<i>opts-cipso</i>	(Optional)
<i>opts-other</i>	(Optional)
<i>bad-csum</i>	(Optional)
<i>too-small</i>	(Optional)
<i>bad-ver</i>	(Optional)
<i>bad-hlen</i>	(Optional)
<i>bad-len</i>	(Optional)
<i>bad-dest</i>	(Optional)
<i>bad-ttl</i>	(Optional)
<i>cant-fwd</i>	(Optional)
<i>out-drop</i>	(Optional)
<i>bad-encap</i>	(Optional)
<i>no-route</i>	(Optional)
<i>no-proto</i>	(Optional)
<i>bad-options</i>	(Optional)
<i>frag</i>	(Optional)
<i>fragmented</i>	(Optional)
<i>out-frag</i>	(Optional)
<i>frag-drop</i>	(Optional)

<i>cant-frag</i>	(Optional)
<i>reasm</i>	(Optional)
<i>frag-to</i>	(Optional)
<i>tx-redirect</i>	(Optional)
<i>tx-unreach</i>	(Optional)
<i>tx-echo-req</i>	(Optional)
<i>tx-echo-reply</i>	(Optional)
<i>tx-mask-req</i>	(Optional)
<i>tx-mask-rep</i>	(Optional)
<i>tx-info-req</i>	(Optional)
<i>tx-info-reply</i>	(Optional)
<i>tx-param-prob</i>	(Optional)
<i>tx-source-quench</i>	(Optional)
<i>tx-tstamp-req</i>	(Optional)
<i>tx-tstamp-reply</i>	(Optional)
<i>tx-time-exceeded</i>	(Optional)
<i>tx-router-solicit</i>	(Optional)
<i>tx-router-advert</i>	(Optional)
<i>rx-redirect</i>	(Optional)
<i>rx-unreach</i>	(Optional)
<i>rx-echo-req</i>	(Optional)
<i>rx-echo-reply</i>	(Optional)
<i>rx-mask-req</i>	(Optional)
<i>rx-mask-rep</i>	(Optional)
<i>rx-info-req</i>	(Optional)
<i>rx-info-reply</i>	(Optional)
<i>rx-param-prob</i>	(Optional)
<i>rx-source-quench</i>	(Optional)
<i>rx-tstamp-req</i>	(Optional)

<i>rx-tstamp-reply</i>	(Optional)
<i>rx-time-exceeded</i>	(Optional)
<i>rx-router-solicit</i>	(Optional)
<i>rx-router-advert</i>	(Optional)
<i>rx-format-errors</i>	(Optional)
<i>rx-csum-errors</i>	(Optional)
<i>inrcv</i>	(Optional)
<i>inoctet</i>	(Optional)
<i>inhderr</i>	(Optional)
<i>innoroutes</i>	(Optional)
<i>inaddrerr</i>	(Optional)
<i>innoproto</i>	(Optional)
<i>intruncated</i>	(Optional)
<i>inforw</i>	(Optional)
<i>reasmoks</i>	(Optional)
<i>reasmfails</i>	(Optional)
<i>reasmreqds</i>	(Optional)
<i>indiscards</i>	(Optional)
<i>indelivers</i>	(Optional)
<i>outnoroutes</i>	(Optional)
<i>outrqsts</i>	(Optional)
<i>outforw</i>	(Optional)
<i>outdiscards</i>	(Optional)
<i>outfragreqds</i>	(Optional)
<i>outfragoks</i>	(Optional)
<i>outfragfails</i>	(Optional)
<i>outfragcreates</i>	(Optional)
<i>outxmts</i>	(Optional)
<i>outoctet</i>	(Optional)

<i>inmcastpkts</i>	(Optional)
<i>inmcastoctets</i>	(Optional)
<i>outmcastpkts</i>	(Optional)
<i>outmcastoctets</i>	(Optional)
<i>inbdcastpkts</i>	(Optional)
<i>outbdcastpkts</i>	(Optional)

Command Mode

- /exec

show ip txlist list

show ip txlist { list | member }

Syntax Description

show	Show running system information
ip	Display IP information
txlist	Display IP txlist information
list	Display IP txlist main linkage
member	Display IP txlist active member linkage

Command Mode

- /exec

show ip verify source

```
show ip verify source [ interface <intf6> ] [ __readonly__ TABLE_verify_entry <verify_intf>
<verify_intf_ipsg_val> <verify_ipsg_enable_intf> <verify_hdr> <verify_filter_mode> <verify_ip_addr>
<verify_mac_addr> <verify_vlan> <verify_ipsg_exclude_vlans> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
verify	Verify IPSG information
source	IPSG source
interface	(Optional) Interface
<i>verify_intf_ipsg_val</i>	(Optional) IP source guard value (enabled or disable)
<i>verify_ipsg_enable_intf</i>	(Optional) IP source guard enabled interfaces names
<i>intf6</i>	(Optional)
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_verify_entry</i>	(Optional)
<i>verify_filter_mode</i>	(Optional)
<i>verify_intf</i>	(Optional)
<i>verify_hdr</i>	(Optional)
<i>verify_ip_addr</i>	(Optional)
<i>verify_mac_addr</i>	(Optional)
<i>verify_vlan</i>	(Optional)
<i>verify_ipsg_exclude_vlans</i>	(Optional)

Command Mode

- /exec

<i>global_punt_pkt_cnt</i>	(Optional)
<i>global_punt_byte_cnt</i>	(Optional)
<i>global_glean_pkt_cnt</i>	(Optional)
<i>global_glean_byte_cnt</i>	(Optional)
<i>glean_pkt_cnt</i>	(Optional)
<i>glean_byte_cnt</i>	(Optional)
<i>normal_pkt_cnt</i>	(Optional)
<i>normal_byte_cnt</i>	(Optional)
<i>last_updated</i>	(Optional)
<i>count-static</i>	(Optional)
<i>count-dynamic</i>	(Optional)
<i>count-others</i>	(Optional)
<i>count-throttle</i>	(Optional)
<i>count-total</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
<i>count</i>	(Optional)
TABLE_adj	(Optional)
<i>intf-out</i>	(Optional)
<i>phy-intf</i>	(Optional)
<i>time-stamp</i>	(Optional)
<i>mac</i>	(Optional)
<i>pref</i>	(Optional)
<i>owner</i>	(Optional)
<i>pkt-count</i>	(Optional)
<i>byte-count</i>	(Optional)
<i>is-best</i>	(Optional)
<i>is-thrtld</i>	(Optional)

Command Mode

- /exec

show ipv6 amt tunnel

```
show ipv6 amt tunnel [ <address6> <port> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__
TABLE_vrf <vrf> <tc6> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route
<source> <group> <rexp> } } ]
```

Syntax Description

show	Show running system information
amt	AMT show commands
ipv6	Display IPv6 information
tunnel	Display tunnel information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>port</i>	(Optional) UDP port number of gateway
detail	(Optional) Display routes joined by tunnel endpoint
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>tc6</i>	(Optional)
TABLE_tunnel	(Optional)
<i>gwa</i>	(Optional)
<i>gwp</i>	(Optional)
<i>ut</i>	(Optional)
<i>ld</i>	(Optional)
<i>lr</i>	(Optional)
<i>rc</i>	(Optional)
<i>exp</i>	(Optional)
TABLE_route	(Optional)
<i>source</i>	(Optional)
<i>group</i>	(Optional)

<i>rexp</i>	(Optional)
-------------	------------

Command Mode

- /exec

show ipv6 bgp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [
<ipv6-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234
} ]
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
longer-prefixes	(Optional) Display route and more specific routes

Command Mode

- /exec

show ipv6 bgp

```
show ipv6 { bgp | mbgp } { route-map { <rmap-name> | <rmap-name> } | prefix-list { <prfxlist-name> |
<test_pol_name> } | filter-list { <fltrlist-name> | <test_pol_name> } | community-list { <commlist-name> |
<test_pol_name> } | extcommunity-list { <extcommlist-name> | <test_pol_name> } [ exact-match ] }
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
route-map	Display routes matching the route-map
<i>rmap-name</i>	Route-map name
<i>rmap-name</i>	Known route-map name
prefix-list	Display routes matching the prefix-list
<i>prfxlist-name</i>	Name of prefix-list
filter-list	Display routes matching the filter-list
<i>fltrlist-name</i>	Name of filter-list
community-list	Display routes matching the community-list
<i>commlist-name</i>	Name of community-list
extcommunity-list	Display routes matching the extcommunity-list
<i>extcommlist-name</i>	Name of extcommunity-list
<i>test_pol_name</i>	An existing test-list policy
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ipv6 bgp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] {
rib-install | rib-uninstall | rib-pending } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv6	Display BGP information for IPv6 address family
rib-install	Routes installed in RIB
rib-uninstall	Routes not installed in RIB
rib-pending	Routes not acknowledged by RIB

Command Mode

- /exec

show ipv6 bgp community

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
community { <regex-str> | { { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv6	Display BGP information for IPv6 address family
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
community	Display routes matching the BGP communities
<i>regex-str</i>	Regular expression to match the communities
<i>comm-id</i>	BGP community value
<i>wellknown-id</i>	BGP wellknown community
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ipv6 bgp dampening

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
dampening { dampened-paths [ regexp <regexp-str> ] | history-paths [ regexp <regexp-str> ] | parameters |
flap-statistics } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
dampening	Display dampening info
parameters	Display dampening parameters
dampened-paths	Display all dampened paths
history-paths	Display all history paths
flap-statistics	Display flap statistics for routes
ipv6	Display BGP information for IPv6 address family
regexp	(Optional) Display routes matching the AS path regular expression
<i>regexp-str</i>	(Optional) Regular expression to match the AS paths

Command Mode

- /exec

show ipv6 bgp extcommunity

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
extcommunity { <regex-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
<i>regex-str</i>	Regular expression to match the extcommunities
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
exact-match	(Optional) Exact match of the extcommunities

Command Mode

- /exec

show ipv6 bgp flap-statistics

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
flap-statistics [ <ipv6-prefix> ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
flap-statistics	Display route flap statistics
ipv6	Display BGP information for IPv6 address family

Command Mode

- /exec

show ipv6 bgp neighbors

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
neighbors { [ { <neighbor-id> | <ipv6-neighbor-id> } [ routes [ advertised | received | dampened ] |
advertised-routes | paths | received-routes | flap-statistics ] ] | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id>
} [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
neighbors	Display all configured BGP neighbors
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>neighbor-id</i>	(Optional) Display one particular BGP neighbor
<i>neighbor-prefix-id</i>	Display details for a prefix peering
ipv6	Display BGP information for IPv6 address family
routes	(Optional) Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
advertised-routes	(Optional) Display all the routes advertised to this peer
received-routes	(Optional) Display all the routes received from this peer
flap-statistics	(Optional) Display flap statistics for routes received from this peer
paths	(Optional) Display AS paths learned from this peer

Command Mode

- /exec

show ipv6 bgp nexthop-database

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
nexthop-database [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
nexthop-database	Display nexthop database
ipv6	Display BGP information for IPv6 address family

Command Mode

- /exec

show ipv6 bgp nexthop

```
show ipv6 { bgp | mbgp } nexthop <ipv6nexthop>
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
nexthop	Display routes matching the nexthop

Command Mode

- /exec

show ipv6 bgp received-paths

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
received-paths [ private ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
received-paths	Display paths stored for soft-reconfig
private	(Optional) private

Command Mode

- /exec

show ipv6 bgp regexp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] regexp
<regexp-str> [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv6	Display BGP information for IPv6 address family
regexp	Display routes matching the AS path regular expression
<i>regexp-str</i>	Regular expression to match the AS paths

Command Mode

- /exec

show ipv6 bgp summary

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
summary [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
summary	Display summarized information of BGP state
ipv6	Display BGP information for IPv6 address family

Command Mode

- /exec

show ipv6 cache

```
show ipv6 cache { { brief | detail } | { interface [ <intf> ] } } [ operational ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
cache	Display ipv6 cache
interface	Display ipv6 related interface information
brief	Display summary of ipv6 interface status and configuration
detail	Display detailed information of ipv6 interface status and configuration
operational	(Optional) Display only interfaces that are administratively enabled
<i>intf</i>	(Optional) Interface name to display

Command Mode

- /exec

show ipv6 client

```
show ipv6 client [ <client-name> ] [ __readonly__ { TABLE_ipv6_client { <cli-name> <cli-stat> <cli-pid>
<cli-ext-pid> [ <protocol> ] <pib-index> <cli-uuid> <rou-vrf> <rou-flg> <ctrl-sap> <data-sap> <ipc-ctrl-mq>
<ipc-ctrl-fail> <ipc-data-mq> <ipc-data-fail> [ <if-ext-ind> ] [ <recv-fn> <recv-hex> ] } } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
client	Display clients registered with the IPv6 process
<i>client-name</i>	(Optional) Display information for a single IPv6 client
<i>__readonly__</i>	(Optional)
TABLE_ipv6_client	(Optional)
<i>cli-name</i>	(Optional)
<i>cli-stat</i>	(Optional)
<i>cli-pid</i>	(Optional)
<i>cli-ext-pid</i>	(Optional)
<i>protocol</i>	(Optional)
<i>pib-index</i>	(Optional)
<i>cli-uuid</i>	(Optional)
<i>rou-vrf</i>	(Optional)
<i>rou-flg</i>	(Optional)
<i>ctrl-sap</i>	(Optional)
<i>data-sap</i>	(Optional)
<i>ipc-ctrl-mq</i>	(Optional)
<i>ipc-ctrl-fail</i>	(Optional)
<i>ipc-data-mq</i>	(Optional)
<i>ipc-data-fail</i>	(Optional)
<i>if-ext-ind</i>	(Optional)
<i>recv-fn</i>	(Optional)
<i>recv-hex</i>	(Optional)

Command Mode

- /exec

show ipv6 dhcp relay

```
show ipv6 dhcp relay [ interface <intf-range> ] [ __readonly__ <relay_service_enable> <relay_vpn_enable>
<relay_cisco_option_enable> <gbl_src_intf> <interface-name> <intf_src_intf> <intf_header> <relay_address>
<vrf_name> <dst_intf> ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show DHCPv6
relay	DHCPv6 relay address of the interface
interface	(Optional) DHCPv6 relay address of the interface
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>relay_service_enable</i>	(Optional)
<i>relay_vpn_enable</i>	(Optional)
<i>relay_cisco_option_enable</i>	(Optional)
<i>gbl_src_intf</i>	(Optional) interface name
<i>interface-name</i>	(Optional) interface name
<i>intf_src_intf</i>	(Optional) interface name
<i>intf_header</i>	(Optional)
<i>vrf_name</i>	(Optional) VRF name
<i>dst_intf</i>	(Optional) interface name

Command Mode

- /exec

show ipv6 dhcp relay statistics

```
show ipv6 dhcp relay statistics [ interface <intf> [ [ server-ip <ip-addr-val> [ use-vrf <vrf-name> ] [ interface
<dest-interface> ] ] ] [ server-ip <ip-addr-val> [ interface <dest-interface> ] [ use-vrf <vrf-name> ] ] ] [
__readonly__ <msg_stats_hdr> <msg_type_str> <tx_pkts> <rx_pkts> <drops> <msg_type_str_total>
<server_stats_hdr> <server_helper_addr> <server_vrf> <server_intf> <server_requests> <server_responses>
<drop_hdr> <drop_relay_disable> <drop_max_hops> <drop_validation_fails> <drop_unknown_op_intf>
<drop_bad_context> <drop_opt_insert_fail> <drop_server_direct_reply> <drop_no_ipv6_addr>
<drop_intf_error> <drop_vpn_disabled> <drop_ipv6_extn_hdrs_presence> <drop_mct_drop> ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show information about DHCPv6
relay	DHCPv6 Relay
statistics	Statistics related to DHCPv6
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
server-ip	(Optional) Server address
use-vrf	(Optional) server address VRF membership
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Destination interface for the server address
<i>dest-interface</i>	(Optional) Destination interface
<i>__readonly__</i>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional)
<i>msg_type_str</i>	(Optional)
<i>tx_pkts</i>	(Optional)
<i>rx_pkts</i>	(Optional)
<i>drops</i>	(Optional)
<i>msg_type_str_total</i>	(Optional)
<i>server_stats_hdr</i>	(Optional)
<i>server_helper_addr</i>	(Optional)
<i>server_vrf</i>	(Optional)

<i>server_intf</i>	(Optional) interface name
<i>server_requests</i>	(Optional)
<i>server_responses</i>	(Optional)
<i>drop_hdr</i>	(Optional)
<i>drop_relay_disable</i>	(Optional)
<i>drop_max_hops</i>	(Optional)
<i>drop_validation_fails</i>	(Optional)
<i>drop_unknown_op_intf</i>	(Optional)
<i>drop_bad_context</i>	(Optional)
<i>drop_opt_insert_fail</i>	(Optional)
<i>drop_server_direct_reply</i>	(Optional)
<i>drop_no_ipv6_addr</i>	(Optional)
<i>drop_intf_error</i>	(Optional)
<i>drop_vpn_disabled</i>	(Optional)
<i>drop_ipv6_extn_hdrs_presence</i>	(Optional)
<i>drop_mct_drop</i>	(Optional)

Command Mode

- /exec

show ipv6 eigrp route-map statistics

```
show ipv6 eigrp [ <eigrp-ptag> ] route-map statistics { { redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip
} <tag> | static | direct | amt } } | table-map } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_asn <asn> TABLE_vrf <vrf> { TABLE_rmap <name> <action> <seq_num> [ { TABLE_cmd
<command> <compare_count> <match_count> } ] } <total_accept_count> <total_reject_count> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
route-map	Route-map related information
statistics	Route-map statistics
redistribute	Redistribute information from another routing protocol
table-map	Tablemap information
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
isis	IS-IS Routing for IPv4
ospfv3	Open Shortest Path First (OSPF) V3
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
<u>__readonly__</u>	(Optional)

TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
TABLE_rmap	(Optional) Route-map table
<i>name</i>	(Optional) Route-map name
<i>action</i>	(Optional) Route-map action
<i>seq_num</i>	(Optional) Sequence number of the clause
TABLE_cmd	(Optional) Route-map command table
<i>command</i>	(Optional) Route-map command
<i>compare_count</i>	(Optional) Number of comparisons
<i>match_count</i>	(Optional) Number of matches
<i>total_accept_count</i>	(Optional) Total number of packets accepted by this policy
<i>total_reject_count</i>	(Optional) Total number of packets rejected by this policy

Command Mode

- /exec

show ipv6 fragments

```
show ipv6 fragments [ <source-addr> ] [ __readonly__ [ TABLE_ipv6_frag [ TABLE_ipv6_each_q {
<ipv6-src> <ipv6-dest> <frag-id> <frag-off> <m-flag> <nxt-header> <pay-load> <expires> } ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
fragments	Display queued fragments
__readonly__	(Optional)
TABLE_ipv6_frag	(Optional)
TABLE_ipv6_each_q	(Optional)
<i>frag-id</i>	(Optional)
<i>frag-off</i>	(Optional)
<i>m-flag</i>	(Optional)
<i>nxt-header</i>	(Optional)
<i>pay-load</i>	(Optional)
<i>expires</i>	(Optional)

Command Mode

- /exec

show ipv6 icmp

```
show ipv6 icmp { adjacency | neighbor | sync-entries } [ <interface> ] [ detail ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ { <icmpv6-vrftype> <icmpv6-cxt-name> } [ TABLE_icmpv6_all_int
{ TABLE_icmpv6_one_int { <icmpv6-ipv6-addr> <time-stamp-icmpv6> <icmpv6-mac> <icmpv6-state>
<icmpv6-short-name> [ <phy-int-short-name> ] } } ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
adjacency	Show IPv6 dynamic learnt adjacency entry
neighbor	Show IPv6 dynamic learnt neighbor entry
sync-entries	Show IPv6 table learnt only due to table sync
<i>interface</i>	(Optional) Interface name to display
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>icmpv6-vrftype</i>	(Optional)
<i>icmpv6-cxt-name</i>	(Optional)
TABLE_icmpv6_all_int	(Optional)
TABLE_icmpv6_one_int	(Optional)
<i>time-stamp-icmpv6</i>	(Optional)
<i>icmpv6-mac</i>	(Optional)
<i>icmpv6-state</i>	(Optional)
<i>icmpv6-short-name</i>	(Optional)
<i>phy-int-short-name</i>	(Optional)

Command Mode

- /exec

show ipv6 icmp global traffic

```
show ipv6 { icmp | nd } global traffic [ __readonly__ { TABLE_icmpv6_global_stat <st-total> <rv-total>
<st-err> <rv-err> <st-int-drp-cnt> <rv-int-drp-cnt> <st-adj-nt-recov-am-ha> <rv-adj-nt-recov-am-ha>
<st-pkt-allow-inv-ttl-vpc> <rv-pkt-allow-inv-ttl-vpc> <st-drp-src-mac-own> <rv-drp-src-mac-own>
<st-drp-tgt-ip-not-own> <rv-drp-tgt-ip-not-own> <st-drp-src-ip-not-own> <rv-drp-src-ip-not-own>
<st-dest-unreach> <rv-dest-unreach> <st-admin-prohib> <rv-admin-prohib> <st-time-exceed> <rv-time-exceed>
<st-para-pbms> <rv-para-pbms> <st-echo-req> <rv-echo-req> <st-echo-reply> <rv-echo-reply> <st-redirect>
<rv-redirect> <st-pkt-too-big> <rv-pkt-too-big> <st-rtr-adver> <rv-rtr-adver> <st-rtr-solicit> <rv-rtr-solicit>
<st-nei-adver> <rv-nei-adver> <st-nei-solicit> <rv-nei-solicit> <fast-path-pkts> <fastpath-disable> <other-path>
<dup-rtr-ra-recvd> <rv-dup-rtr-ra-recvd> } { TABLE_icmpv6_mld_stat <st-v1-queries> <rv-v1-queries>
<st-v2-queries> <rv-v2-queries> <st-v1-reports> <rv-v1-reports> <st-v2-reports> <rv-v2-reports>
<st-v1-leaves> <rv-v1-leaves> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
nd	ICMPv6 Neighbor Discovery commands
global	Show ICMPv6/ND global variables
traffic	Display ICMPv6 software processed traffic statistics
__readonly__	(Optional)
TABLE_icmpv6_global_stat	(Optional)
<i>st-total</i>	(Optional)
<i>rv-total</i>	(Optional)
<i>st-err</i>	(Optional)
<i>rv-err</i>	(Optional)
<i>st-int-drp-cnt</i>	(Optional)
<i>rv-int-drp-cnt</i>	(Optional)
<i>st-adj-nt-recov-am-ha</i>	(Optional)
<i>rv-adj-nt-recov-am-ha</i>	(Optional)
<i>st-pkt-allow-inv-ttl-vpc</i>	(Optional)
<i>rv-pkt-allow-inv-ttl-vpc</i>	(Optional)
<i>st-drp-src-mac-own</i>	(Optional)

<i>rv-drp-src-mac-own</i>	(Optional)
<i>st-drp-tgt-ip-not-own</i>	(Optional)
<i>rv-drp-tgt-ip-not-own</i>	(Optional)
<i>st-drp-src-ip-not-own</i>	(Optional)
<i>rv-drp-src-ip-not-own</i>	(Optional)
<i>st-dest-unreach</i>	(Optional)
<i>rv-dest-unreach</i>	(Optional)
<i>st-admin-prohib</i>	(Optional)
<i>rv-admin-prohib</i>	(Optional)
<i>st-time-exceed</i>	(Optional)
<i>rv-time-exceed</i>	(Optional)
<i>st-para-pbms</i>	(Optional)
<i>rv-para-pbms</i>	(Optional)
<i>st-echo-req</i>	(Optional)
<i>rv-echo-req</i>	(Optional)
<i>st-echo-reply</i>	(Optional)
<i>rv-echo-reply</i>	(Optional)
<i>st-redirect</i>	(Optional)
<i>rv-redirect</i>	(Optional)
<i>st-pkt-too-big</i>	(Optional)
<i>rv-pkt-too-big</i>	(Optional)
<i>st-rtr-adver</i>	(Optional)
<i>rv-rtr-adver</i>	(Optional)
<i>st-rtr-solicit</i>	(Optional)
<i>rv-rtr-solicit</i>	(Optional)
<i>st-nei-adver</i>	(Optional)
<i>rv-nei-adver</i>	(Optional)
<i>st-nei-solicit</i>	(Optional)
<i>rv-nei-solicit</i>	(Optional)

<i>fast-path-pkts</i>	(Optional)
<i>fastpath-disable</i>	(Optional)
<i>other-path</i>	(Optional)
<i>dup-rtr-ra-recvd</i>	(Optional)
<i>rv-dup-rtr-ra-recvd</i>	(Optional)
TABLE_icmpv6_mld_stat	(Optional)
<i>st-v1-queries</i>	(Optional)
<i>rv-v1-queries</i>	(Optional)
<i>st-v2-queries</i>	(Optional)
<i>rv-v2-queries</i>	(Optional)
<i>st-v1-reports</i>	(Optional)
<i>rv-v1-reports</i>	(Optional)
<i>st-v2-reports</i>	(Optional)
<i>rv-v2-reports</i>	(Optional)
<i>st-v1-leaves</i>	(Optional)
<i>rv-v1-leaves</i>	(Optional)

Command Mode

- /exec

show ipv6 icmp interface

```
{ show ipv6 { icmp | nd } interface [ <interface> ] { [ prefix [ full ] ] | [ route ] | [ detail ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] } | { show ipv6 [ icmp ] mld interface [ brief ] [ detail ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] } | { show ipv6 [ icmp ] mld interface <interface> } [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_intf <intf-name> <proto-state> <link-state> <admin-state> <addr> <subnet>
<link-local-addr> <icmpv6-disabled> <last-ns-sent> <last-na-sent> <last-ra-sent> <next-na-sent>
<ra-min-interval> <ra-interval> <set-m-flag> <set-o-flag> <current-hop-limit> <mtu> <router-lifetime>
<reachable-time> <retrans-timer> <ns-interval> <send-redirect> <send-unreachables> <mld-disabled>
<mld-querier> <mld-entry-count> <mld-config-version> <mld-querier-version> <mld-host-version>
<mld-query-timer> <mld-querier-expiry> <mld-qi> <mld-config-qi> <mld-query-mrt> <mld-config-query-mrt>
<mld-startup-qi> <mld-config-startup-qi> <mld-startup-qc> <mld-config-last-member-mrt>
<mld-last-member-qc> <mld-group-timeout> <mld-config-group-timeout> <mld-querier-timeout>
<mld-config-querier-timeout> <mld-config-unsol-rpt-interval> <mld-qrv> <mld-config-robustness-variable>
<mld-config-rpt-link-local> <mld-refcount> <static-group-map> <join-group-map> <ra-sent> <ra-rec>
<rs-sent> <rs-rec> <na-sent> <na-rec> <ns-sent> <ns-rec> <redirect-sent> <redirect-rec> <msg-sent>
<msg-rec> <errors-sent> <erros-rec> <ifdown-sent> <ifdown-rec> <am-ha-not-ready> <allow-mct-ttl>
<our-own-mac> <tgt-not-us> <dest-unreachs-sent> <dest-unreachs-rec> <admin-prohibs-sent>
<admin-prohibs-rec> <time-excds-sent> <time-excds-rec> <parm-problems-sent> <parm-problems-rec>
<echos-sent> <echos-rec> <echo-replies-sent> <echo-replies-rec> <pkt-toobigs-sent> <pkt-toobigs-rec>
<fastpath-pkt-recv> <fastpath-disable-pkt-recv> <fastpath-ignore-pkt-recv> <v1-queries-sent> <v1-queries-rec>
<v2-queries-sent> <v2-queries-rec> <v1-reports-sent> <v1-reports-rec> <v2-reports-sent> <v2-reports-rec>
<v1-leaves-sent> <v1-leaves-rec> <v2-leaves-sent> <v2-leaves-rec> <uptime> <mld-config-il> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
nd	ICMPv6 Neighbor Discovery commands
mld	Display Multicast Listener Discovery information
interface	Display ICMPv6 related interface information
prefix	(Optional) Display List of ICMPv6 RA prefix
route	(Optional) Display List of ICMPv6 RA routes
full	(Optional) Display Complete prefix information
detail	(Optional) Display ICMPv6 related interface information in detail

<i>brief</i>	(Optional) Display ICMPv6 related interface information in brief
<i>interface</i>	(Optional) Interface name to show
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)
<i>intf-name</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>icmpv6-disabled</i>	(Optional)
<i>last-ns-sent</i>	(Optional)
<i>last-na-sent</i>	(Optional)
<i>last-ra-sent</i>	(Optional)
<i>next-na-sent</i>	(Optional)
<i>ra-min-interval</i>	(Optional)
<i>ra-interval</i>	(Optional)
<i>set-m-flag</i>	(Optional)
<i>set-o-flag</i>	(Optional)
<i>current-hop-limit</i>	(Optional)
<i>mtu</i>	(Optional)
<i>router-lifetime</i>	(Optional)
<i>reachable-time</i>	(Optional)
<i>retrans-timer</i>	(Optional)
<i>ns-interval</i>	(Optional)
<i>send-redirect</i>	(Optional)
<i>send-unreachables</i>	(Optional)
<i>mld-disabled</i>	(Optional)
<i>mld-entry-count</i>	(Optional)

<i>mld-config-version</i>	(Optional)
<i>mld-querier-version</i>	(Optional)
<i>mld-host-version</i>	(Optional)
<i>mld-query-timer</i>	(Optional)
<i>mld-querier-expiry</i>	(Optional)
<i>mld-qi</i>	(Optional)
<i>mld-config-qi</i>	(Optional)
<i>mld-query-mrt</i>	(Optional)
<i>mld-config-query-mrt</i>	(Optional)
<i>mld-startup-qi</i>	(Optional)
<i>mld-config-startup-qi</i>	(Optional)
<i>mld-startup-qc</i>	(Optional)
<i>mld-config-last-member-mrt</i>	(Optional)
<i>mld-last-member-qc</i>	(Optional)
<i>mld-group-timeout</i>	(Optional)
<i>mld-config-group-timeout</i>	(Optional)
<i>mld-querier-timeout</i>	(Optional)
<i>mld-config-querier-timeout</i>	(Optional)
<i>mld-config-unsol-rpt-interval</i>	(Optional)
<i>mld-qrv</i>	(Optional)
<i>mld-config-robustness-variable</i>	(Optional)
<i>mld-config-rpt-link-local</i>	(Optional)
<i>mld-refcount</i>	(Optional)
<i>static-group-map</i>	(Optional)
<i>join-group-map</i>	(Optional)
<i>ra-sent</i>	(Optional)
<i>ra-rec</i>	(Optional)
<i>rs-sent</i>	(Optional)
<i>rs-rec</i>	(Optional)

<i>na-sent</i>	(Optional)
<i>na-rec</i>	(Optional)
<i>ns-sent</i>	(Optional)
<i>ns-rec</i>	(Optional)
<i>redirect-sent</i>	(Optional)
<i>redirect-rec</i>	(Optional)
<i>msg-sent</i>	(Optional)
<i>msg-rec</i>	(Optional)
<i>errors-sent</i>	(Optional)
<i>erros-rec</i>	(Optional)
<i>ifdown-sent</i>	(Optional)
<i>ifdown-rec</i>	(Optional)
<i>am-ha-not-ready</i>	(Optional)
<i>allow-mct-ttl</i>	(Optional)
<i>our-own-mac</i>	(Optional)
<i>tgt-not-us</i>	(Optional)
<i>dest-unreachs-sent</i>	(Optional)
<i>dest-unreachs-rec</i>	(Optional)
<i>admin-prohibs-sent</i>	(Optional)
<i>admin-prohibs-rec</i>	(Optional)
<i>time-excds-sent</i>	(Optional)
<i>time-excds-rec</i>	(Optional)
<i>parm-problems-sent</i>	(Optional)
<i>parm-problems-rec</i>	(Optional)
<i>echos-sent</i>	(Optional)
<i>echos-rec</i>	(Optional)
<i>echo-replies-sent</i>	(Optional)
<i>echo-replies-rec</i>	(Optional)
<i>pkt-toobigs-sent</i>	(Optional)

<i>pkt-toobigs-rec</i>	(Optional)
<i>fastpath-pkt-recv</i>	(Optional)
<i>fastpath-disable-pkt-recv</i>	(Optional)
<i>fastpath-ignore-pkt-recv</i>	(Optional)
<i>v1-queries-sent</i>	(Optional)
<i>v1-queries-rec</i>	(Optional)
<i>v2-queries-sent</i>	(Optional)
<i>v2-queries-rec</i>	(Optional)
<i>v1-reports-sent</i>	(Optional)
<i>v1-reports-rec</i>	(Optional)
<i>v2-reports-sent</i>	(Optional)
<i>v2-reports-rec</i>	(Optional)
<i>v1-leaves-sent</i>	(Optional)
<i>v1-leaves-rec</i>	(Optional)
<i>v2-leaves-sent</i>	(Optional)
<i>v2-leaves-rec</i>	(Optional)
<i>uptime</i>	(Optional)
<i>mld-config-il</i>	(Optional)

Command Mode

- /exec

show ipv6 icmp ndp

show ipv6 icmp ndp

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
ndp	Displays ipv6 neighbor by looking at the top level pt

Command Mode

- /exec

show ipv6 icmp off-list

```
show ipv6 icmp off-list [ vlan <vlan-id> ] [ __readonly__ [ <vlan-adj-cnt> ] [ <icmpv6-sync-adj-cnt> ] {
TABLE_icmpv6_vlan_list <adj-vlan-id> <off-adj-ip-addr> <icmpv6-time-stamp> <icmpv6-mac-addr>
<off-adj-flags> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
off-list	Show adjacencies in off-list icmpv6 database
vlan	(Optional) Vlan id
<i>vlan-id</i>	(Optional) Show information for specified vlan
<i>__readonly__</i>	(Optional)
<i>vlan-adj-cnt</i>	(Optional)
<i>icmpv6-sync-adj-cnt</i>	(Optional)
TABLE_icmpv6_vlan_list	(Optional)
<i>adj-vlan-id</i>	(Optional)
<i>icmpv6-time-stamp</i>	(Optional)
<i>icmpv6-mac-addr</i>	(Optional)
<i>off-adj-flags</i>	(Optional)

Command Mode

- /exec

show ipv6 icmp process sdb

show ipv6 icmp process sdb

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
process	Display process information
sdb	Dump IPv6 sdb in a file

Command Mode

- /exec

show ipv6 icmp vaddr

```
show ipv6 icmp vaddr { link-local [ detail ] | global | pt-tree } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_pt_tree { <v-ipv6-addr> <v-mac-addr> <v-interface> <v-client-state> } ] [ TABLE_vrf_all [ TABLE_glo_vrf { <group-id> <protocol-vrf> <cli-uuid> <vaddr-action> <vrf-interface> <v-ipv6-addr-one> <vaddr-mac> <cxt-name> <cxt-id> } ] [ TABLE_one_int { [ <lcache-inter> <cxt-name-int> <cxt_id-int> ] <grp-id> <protocol-one-int> <client-uuid> <client-state-act> <client-in-use> <client-state> } { TABLE_vip_list { <virt-ipv6> <virt-mac> <cxt_name> <cxt_id> } [ <last-solocit-st> <last-nei-ad-st> <last-rtr-adv-st> <nxt-rtr-ad-st> <icmpv6-addr> <vmac-addr> <st-total> <rv-total> <st-err> <rv-err> <st-int-dwn-drp> <rv-int-dwn-drp> <st-adj-nt-recov-am> <rv-adj-nt-recov-am> <st-pkt-allow-inv-ttl> <rv-pkt-allow-inv-ttl> <st-pkt-drp-src-mac-own> <rv-pkt-drp-src-mac-own> <st-pkt-drp-tgt-not-own> <rv-pkt-drp-tgt-not-own> <st-pkt-drp-src-not-own> <rv-pkt-drp-src-not-own> <st-dest-unreach> <rv-dest-unreach> <st-admin-prohi> <rv-admin-prohi> <st-time-exceed> <rv-time-exceed> <st-patr-pbm> <rv-patr-pbm> <st-echo-req> <rv-echo-req> <st-echo-reply> <rv-echo-reply> <st-dup-ra> <rv-dup-ra> <st-redirect> <rv-redirect> <st-pkt-too-big> <rv-pkt-too-big> <st-rtr-adver> <rv-rtr-adver> <st-rtr-solicit> <rv-rtr-solicit> <st-nei-adver> <rv-nei-adver> <st-nei-solicit> <rv-nei-solicit> } ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vaddr	Show all virtual addresses configured
link-local	Display link-local virtual ipv6 addresses
detail	(Optional) Display detailed information
global	Display global virtual ipv6 addresses
pt-tree	Display link-local virtual ipv6 addresses pt-tree information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>TABLE_pt_tree</i>	(Optional)
<i>v-mac-addr</i>	(Optional)
<i>v-interface</i>	(Optional)
<i>v-client-state</i>	(Optional)
<i>TABLE_vrf_all</i>	(Optional)

TABLE_glo_vrf	(Optional)
<i>group-id</i>	(Optional)
<i>protocol-vrf</i>	(Optional)
<i>cli-uuid</i>	(Optional)
<i>vaddr-action</i>	(Optional)
<i>vrf-interface</i>	(Optional)
<i>vaddr-mac</i>	(Optional)
<i>cxt-name</i>	(Optional)
<i>cxt-id</i>	(Optional)
TABLE_one_int	(Optional)
<i>lcache-inter</i>	(Optional)
<i>cxt-name-int</i>	(Optional)
<i>cxt_id-int</i>	(Optional)
<i>grp-id</i>	(Optional)
<i>protocol-one-int</i>	(Optional)
<i>client-uuid</i>	(Optional)
<i>client-state-act</i>	(Optional)
<i>client-in-use</i>	(Optional)
<i>client-state</i>	(Optional)
TABLE_vip_list	(Optional)
<i>virt-mac</i>	(Optional)
<i>cxt_name</i>	(Optional)
<i>cxt_id</i>	(Optional)
<i>last-solocit-st</i>	(Optional)
<i>last-nei-ad-st</i>	(Optional)
<i>last-rtr-adv-st</i>	(Optional)
<i>nxt-rtr-ad-st</i>	(Optional)
<i>vmac-addr</i>	(Optional)
<i>st-total</i>	(Optional)

<i>rv-total</i>	(Optional)
<i>st-err</i>	(Optional)
<i>rv-err</i>	(Optional)
<i>st-int-dwn-drp</i>	(Optional)
<i>rv-int-dwn-drp</i>	(Optional)
<i>st-adj-nt-recov-am</i>	(Optional)
<i>rv-adj-nt-recov-am</i>	(Optional)
<i>st-pkt-allow-inv-ttl</i>	(Optional)
<i>rv-pkt-allow-inv-ttl</i>	(Optional)
<i>st-pkt-drp-src-mac-own</i>	(Optional)
<i>rv-pkt-drp-src-mac-own</i>	(Optional)
<i>st-pkt-drp-tgt-not-own</i>	(Optional)
<i>rv-pkt-drp-tgt-not-own</i>	(Optional)
<i>st-pkt-drp-src-not-own</i>	(Optional)
<i>rv-pkt-drp-src-not-own</i>	(Optional)
<i>st-dest-unreach</i>	(Optional)
<i>rv-dest-unreach</i>	(Optional)
<i>st-admin-prohi</i>	(Optional)
<i>rv-admin-prohi</i>	(Optional)
<i>st-time-exceed</i>	(Optional)
<i>rv-time-exceed</i>	(Optional)
<i>st-patr-pbm</i>	(Optional)
<i>rv-patr-pbm</i>	(Optional)
<i>st-echo-req</i>	(Optional)
<i>rv-echo-req</i>	(Optional)
<i>st-echo-reply</i>	(Optional)
<i>rv-echo-reply</i>	(Optional)
<i>st-dup-ra</i>	(Optional)
<i>rv-dup-ra</i>	(Optional)

<i>st-redirect</i>	(Optional)
<i>rv-redirect</i>	(Optional)
<i>st-pkt-too-big</i>	(Optional)
<i>rv-pkt-too-big</i>	(Optional)
<i>st-rtr-adver</i>	(Optional)
<i>rv-rtr-adver</i>	(Optional)
<i>st-rtr-solicit</i>	(Optional)
<i>rv-rtr-solicit</i>	(Optional)
<i>st-nei-adver</i>	(Optional)
<i>rv-nei-adver</i>	(Optional)
<i>st-nei-solicit</i>	(Optional)
<i>rv-nei-solicit</i>	(Optional)

Command Mode

- /exec

show ipv6 icmp vpc-statistics

```
show ipv6 icmp vpc-statistics [ __readonly__ { TABLE_icmpv6_vpc_stats [ <icmpv6-pro-drp-pull-disable>
] [ <icmpv6-pro-drp-push-msg-disable> ] [ <icmpv6-pro-ign-snd-pull-disabe> ] [
<icmpv6-ign-snd-push-disable> ] [ <icmpv6-drp-im-fail> ] [ <icmpv6-drp-mcecm-fail> ] [
<icmpv6-drp-invalid-pc-iod> ] [ <icmpv6-drp-pt-lookup-fail> ] [ <icmpv6-drp-resp-fail-no-mct> ] [
<icmpv6-drp-resp-fail> ] [ <icmpv6-resp-sent> ] [ <icmpv6-resp-recvd> ] [ <icmpv6-resp-recv-err> ] [
<icmpv6-rcvd-msg> ] [ <icmpv6-send-fail> ] [ <icmpv6-cfs-rel-dlvry-fail> ] [ <icmpv6-cfs-rel-dnvry-suc>
] [ <icmpv6-drp-pt-add-fail> ] [ <icmpv6-drp-no-mem> ] [ <icmpv6-drp-tmr-cre-fail> ] [
<icmpv6-drp-add-adj-fail> ] [ <icmpv6-off-drp-pt-lookup-fail> ] [ <icmpv6-dont-drp-vlan-mismat> ] [
<icmpv6-drp-svi-invalid> ] [ <icmpv6-dont-drop-sv-down> ] [ <icmpv6-drp-mct-down> ] [
<icmpv6-drp-ctxt-invalid> ] [ <icmpv6-drp-vrf-invalid> ] [ <icmpv6-drp-l3addr-invalid> ] [
<icmpv6-drp-l3addr-sanity-fail> ] [ <icmpv6-drp-mac-sanity-fail> ] [ <icmpv6-own-rtr-mac> ] [
<icmpv6-drp-own-ipv6addr> ] [ <icmpv6-drp-own-vip6add> ] [ <icmpv6-drp-adj-fail> ] [
<icmpv6-drp-subnet-mismatch> ] [ <icmpv6-drp-adj-exist> ] [ <icmpv6-dont-drp-ip-not-enable> ] [
<icmpv6-drp-total-cnt> ] [ <icmpv6-dont-drop-total-cnt> ] [ <icmpv6-add-adj> ] [ <icmpv6-del-adj> ] [
<icmpv6-adj-already-exist> ] } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vpc-statistics	Show vPC global statistics
__readonly__	(Optional)
TABLE_icmpv6_vpc_stats	(Optional) icmpv6 Vpc statistics
<i>icmpv6-pro-drp-pull-disable</i>	(Optional)
<i>icmpv6-pro-drp-push-msg-disable</i>	(Optional)
<i>icmpv6-pro-ign-snd-pull-disabe</i>	(Optional)
<i>icmpv6-ign-snd-push-disable</i>	(Optional)
<i>icmpv6-drp-im-fail</i>	(Optional)
<i>icmpv6-drp-mcecm-fail</i>	(Optional)
<i>icmpv6-drp-invalid-pc-iod</i>	(Optional)
<i>icmpv6-drp-pt-lookup-fail</i>	(Optional)
<i>icmpv6-drp-resp-fail-no-mct</i>	(Optional)
<i>icmpv6-drp-resp-fail</i>	(Optional)
<i>icmpv6-resp-sent</i>	(Optional)

<i>icmpv6-resp-recvd</i>	(Optional)
<i>icmpv6-resp-recv-err</i>	(Optional)
<i>icmpv6-rcvd-msg</i>	(Optional)
<i>icmpv6-send-fail</i>	(Optional)
<i>icmpv6-cfs-rel-dlvry-fail</i>	(Optional)
<i>icmpv6-cfs-rel-dnvry-suc</i>	(Optional)
<i>icmpv6-drp-pt-add-fail</i>	(Optional)
<i>icmpv6-drp-no-mem</i>	(Optional)
<i>icmpv6-drp-tmr-cre-fail</i>	(Optional)
<i>icmpv6-drp-add-adj-fail</i>	(Optional)
<i>icmpv6-off-drp-pt-lookup-fail</i>	(Optional)
<i>icmpv6-dont-drp-vlan-mismat</i>	(Optional)
<i>icmpv6-drp-svi-invalid</i>	(Optional)
<i>icmpv6-dont-drop-sv-down</i>	(Optional)
<i>icmpv6-drp-mct-down</i>	(Optional)
<i>icmpv6-drp-ctxt-invalid</i>	(Optional)
<i>icmpv6-drp-vrf-invalid</i>	(Optional)
<i>icmpv6-drp-l3addr-invalid</i>	(Optional)
<i>icmpv6-drp-l3addr-sanity-fail</i>	(Optional)
<i>icmpv6-drp-mac-sanity-fail</i>	(Optional)
<i>icmpv6-own-rtr-mac</i>	(Optional)
<i>icmpv6-drp-own-ipv6addr</i>	(Optional)
<i>icmpv6-drp-own-vipv6add</i>	(Optional)
<i>icmpv6-drp-adj-fail</i>	(Optional)
<i>icmpv6-drp-subnet-mismatch</i>	(Optional)
<i>icmpv6-drp-adj-exist</i>	(Optional)
<i>icmpv6-dont-drp-ip-not-enable</i>	(Optional)
<i>icmpv6-drp-total-cnt</i>	(Optional)
<i>icmpv6-dont-drop-total-cnt</i>	(Optional)

<i>icmpv6-add-adj</i>	(Optional)
<i>icmpv6-del-adj</i>	(Optional)
<i>icmpv6-adj-already-exist</i>	(Optional)

Command Mode

- /exec

show ipv6 interface

```
show ipv6 interface { [ brief [ include-secondary ] [ <interface> | <ipv6-addr> ] [ detail ] ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf <vrf-name-out> ] [ TABLE_intf <intf-name> [
<proto-state> ] [ <link-state> ] [ <admin-state> ] [ <iod> ] [ <addr> ] [ <prefix> ] [ { TABLE_sec_addr [
<sec-prefix> ] } ] [ <linklocal-addr> ] [ <linklocal-configured> ] [ <ipv6-disabled> ] [ <mrouting-enabled>
] [ <mgroup-locally-joined> ] [ { TABLE_maddr <m-addr> [ <m-addr-refcnt> ] } ] [ { TABLE_sg [ <sg-saddr>
] [ <sg-maddr> ] [ <sg-refcnt> ] } ] [ <mtu> ] [ <global-in-pcl-configured> ] [ <global-in-pcl-name> ] [
<global-in-pcl-pending> ] [ <global-out-pcl-configured> ] [ <global-out-pcl-name> ] [ <global-out-pcl-pending>
] [ <in-pcl-configured> ] [ <in-pcl-name> ] [ <in-pcl-pending> ] [ <out-pcl-configured> ] [ <out-pcl-name>
] [ <out-pcl-pending> ] [ <urpf-mode> ] [ <ipv6-lstyp> ] [ <stats-last-reset> ] [ <acl-in> ] [ <acl-out> ] [
<upkt-fwd> ] [ <upkt-orig> ] [ <upkt-consumed> ] [ <ubyte-fwd> ] [ <ubyte-orig> ] [ <ubyte-consumed> ]
] [ <mpkt-fwd> ] [ <mpkt-orig> ] [ <mpkt-consumed> ] [ <mbyte-fwd> ] [ <mbyte-orig> ] [ <mbyte-consumed>
] [ <upkt-in-acc> ] [ <upkt-in-rej> ] [ <ubyte-in-acc> ] [ <ubyte-in-rej> ] [ <mpkt-in-acc> ] [ <mpkt-in-rej>
] [ <mbyte-in-acc> ] [ <mbyte-in-rej> ] [ <upkt-out-acc> ] [ <upkt-out-rej> ] [ <ubyte-out-acc> ] [
<ubyte-out-rej> ] [ <mpkt-out-acc> ] [ <mpkt-out-rej> ] [ <mbyte-out-acc> ] [ <mbyte-out-rej> ] [
<hw-upkt-sent> ] [ <hw-upkt-recv> ] [ <hw-ubyte-sent> ] [ <hw-ubyte-recv> ] [ <hw-mpkt-sent> ] [
<hw-mpkt-recv> ] [ <hw-mbyte-sent> ] [ <hw-mbyte-recv> ] [ <hw-upkt-drop> ] [ <hw-ubyte-drop> ] [
<hw-mpkt-drop> ] [ <hw-mbyte-drop> ] [ <hw-mpkt-rpdrop> ] [ <hw-mbyte-rpdrop> ] [ <hw-mpkt-dfdrops> ]
] [ <hw-mbyte-dfdrops> ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
interface	Display IPv6 related interface information
brief	(Optional) Display summary of IPv6 status and configuration
include-secondary	(Optional) Display summary of all IPv6 addresses
<i>interface</i>	(Optional) Interface name to display
detail	(Optional) Display detailed IPv6 interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)

<i>intf-name</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>iod</i>	(Optional)
<i>prefix</i>	(Optional)
TABLE_sec_addr	(Optional)
<i>sec-prefix</i>	(Optional)
<i>linklocal-configured</i>	(Optional)
<i>ipv6-disabled</i>	(Optional)
<i>mrouting-enabled</i>	(Optional)
<i>mgroup-locally-joined</i>	(Optional)
TABLE_maddr	(Optional)
<i>m-addr-refcnt</i>	(Optional)
TABLE_sg	(Optional)
<i>sg-refcnt</i>	(Optional)
<i>mtu</i>	(Optional)
<i>global-in-pcl-configured</i>	(Optional)
<i>global-in-pcl-name</i>	(Optional)
<i>global-in-pcl-pending</i>	(Optional)
<i>global-out-pcl-configured</i>	(Optional)
<i>global-out-pcl-name</i>	(Optional)
<i>global-out-pcl-pending</i>	(Optional)
<i>in-pcl-configured</i>	(Optional)
<i>in-pcl-name</i>	(Optional)
<i>in-pcl-pending</i>	(Optional)
<i>out-pcl-configured</i>	(Optional)
<i>out-pcl-name</i>	(Optional)
<i>out-pcl-pending</i>	(Optional)

<i>urpf-mode</i>	(Optional)
<i>ipv6-lstype</i>	(Optional)
<i>stats-last-reset</i>	(Optional)
<i>acl-in</i>	(Optional)
<i>acl-out</i>	(Optional)
<i>upkt-fwd</i>	(Optional)
<i>upkt-orig</i>	(Optional)
<i>upkt-consumed</i>	(Optional)
<i>ubyte-fwd</i>	(Optional)
<i>ubyte-orig</i>	(Optional)
<i>ubyte-consumed</i>	(Optional)
<i>mpkt-fwd</i>	(Optional)
<i>mpkt-orig</i>	(Optional)
<i>mpkt-consumed</i>	(Optional)
<i>mbyte-fwd</i>	(Optional)
<i>mbyte-orig</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>upkt-in-acc</i>	(Optional)
<i>upkt-in-rej</i>	(Optional)
<i>ubyte-in-acc</i>	(Optional)
<i>ubyte-in-rej</i>	(Optional)
<i>mpkt-in-acc</i>	(Optional)
<i>mpkt-in-rej</i>	(Optional)
<i>mbyte-in-acc</i>	(Optional)
<i>mbyte-in-rej</i>	(Optional)
<i>upkt-out-acc</i>	(Optional)
<i>upkt-out-rej</i>	(Optional)
<i>ubyte-out-acc</i>	(Optional)
<i>ubyte-out-rej</i>	(Optional)

<i>mpkt-out-acc</i>	(Optional)
<i>mpkt-out-rej</i>	(Optional)
<i>mbyte-out-acc</i>	(Optional)
<i>mbyte-out-rej</i>	(Optional)
<i>hw-upkt-sent</i>	(Optional)
<i>hw-upkt-recv</i>	(Optional)
<i>hw-ubyte-sent</i>	(Optional)
<i>hw-ubyte-recv</i>	(Optional)
<i>hw-mpkt-sent</i>	(Optional)
<i>hw-mpkt-recv</i>	(Optional)
<i>hw-mbyte-sent</i>	(Optional)
<i>hw-mbyte-recv</i>	(Optional)
<i>hw-upkt-drop</i>	(Optional)
<i>hw-ubyte-drop</i>	(Optional)
<i>hw-mpkt-drop</i>	(Optional)
<i>hw-mbyte-drop</i>	(Optional)
<i>hw-mpkt-rpdrop</i>	(Optional)
<i>hw-mbyte-rpdrop</i>	(Optional)
<i>hw-mpkt-dfdrop</i>	(Optional)
<i>hw-mbyte-dfdrop</i>	(Optional)

Command Mode

- /exec

show ipv6 interface global

show ipv6 interface global

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
interface	Display IPv6 related interface information
global	Show IPv6 global parameters

Command Mode

- /exec

show ipv6 lisp data-cache

```
show ipv6 lisp data-cache [ <eid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
lisp	LISP show commands
data-cache	Display EID-to-RLOC data cache mapping in this ITR
<i>eid</i>	(Optional) Display mapping for IPv6 destination EID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ipv6 local-pt

```
show ipv6 local-pt [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
local-pt	Display IPv6 local address pt data structure
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs

Command Mode

- /exec

show ipv6 local policy

```
show ipv6 local policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_pbr <interface>
<rmap> <status> <vrf_name> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
local	IPv6 local options
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

Command Mode

- /exec

show ipv6 mld groups

```
show ipv6 [ icmp ] mld groups [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <interface> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <vrf-name-out> <entry-count>
TABLE_group <group-out> TABLE_intf <intf-name> <icmpv6-disabled> <mld-source> <mld-group>
<mld-source-unspec> <mld-static> <mld-local-group> <mld-translated> <mld-uptime> <mld-expire> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
groups	Display MLD attached group membership information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>interface</i>	(Optional) Display group membership on interface name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>entry-count</i>	(Optional)
TABLE_group	(Optional)
TABLE_intf	(Optional)
<i>intf-name</i>	(Optional)
<i>icmpv6-disabled</i>	(Optional)
<i>mld-source-unspec</i>	(Optional)
<i>mld-static</i>	(Optional)
<i>mld-local-group</i>	(Optional)
<i>mld-translated</i>	(Optional)
<i>mld-uptime</i>	(Optional)

<i>mld-expire</i>	(Optional)
-------------------	------------

Command Mode

- /exec

show ipv6 mld local-groups

```
show ipv6 [ icmp ] mld local-groups [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_vrf <vrf> { TABLE_entry <group-addr> <source-addr> <static-oif> <local-group>
<if-name> <last-reported> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
local-groups	Display MLD local group membership information
<i>interface</i>	(Optional) Display group membership on interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_entry	(Optional)
<i>static-oif</i>	(Optional)
<i>local-group</i>	(Optional)
<i>if-name</i>	(Optional)
<i>last-reported</i>	(Optional)

Command Mode

- /exec

show ipv6 mld vrf all

show ipv6 [icmp] mld vrf all

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
vrf	Display per-VRF information
all	Display MLD VRFs

Command Mode

- /exec

show ipv6 mroute

```
show ipv6 mroute [ [ bitfield ] | rp | { [ <group> ] summary [ software-forwarded ] } | { summary [ count |
software-forwarded ] } | { { <source> <group> } | { <group> [ <source> ] } } [ summary [ software-forwarded
] | bitfield ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_vrf <vrf-name> [
TABLE_addr <mcast-addr> <pending> <bidir> <uptime> [ TABLE_mpib <mpib-name> <stale-route> ]
<if-name><rpf-nbr> <internal> <oif-count><fabric-oif><fabric-loser> [ TABLE_oif <oif-name> <oif-uptime>
[ TABLE_oif_mpib <oif-mpib-name> <stale-oif> ] <rpf> ] [ <oif-list-bitfield> ] ] [ <total-route-count>
<star-g-count> <source-count> <star-g-prefix-count> <group-count> <avg-sources-per-group><rem> [
<reason-for-route-stats-pending> ] ] [ TABLE_group <group-addr> <group-mask-len> <source-count-per-grp>
[ TABLE_source <route-or-source> [ <name> ] <packets> <bytes> <aps> <pps> <bit-rate-in-bps> <oifs> [
<software-pkts> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) Multicast VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mroute	Display IPv6 multicast routing table
summary	(Optional) Display route counts and packet rates
software-forwarded	(Optional) Display software switched route counts only
rp	(Optional) Display RP routes (RP, 0.0.0.0/32)
count	(Optional) Display route counts only
bitfield	(Optional) Display bitfield details
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_addr	(Optional)
<i>mcast-addr</i>	(Optional)
<i>bidir</i>	(Optional)
<i>pending</i>	(Optional)
<i>uptime</i>	(Optional)

<i>internal</i>	(Optional)
TABLE_mpib	(Optional)
<i>mpib-name</i>	(Optional)
<i>stale-route</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>oif-uptime</i>	(Optional)
<i>rpf</i>	(Optional)
<i>oif-list-bitfield</i>	(Optional)
TABLE_oif_mpib	(Optional)
<i>oif-mpib-name</i>	(Optional)
<i>stale-oif</i>	(Optional)
<i>total-route-count</i>	(Optional)
<i>star-g-count</i>	(Optional)
<i>source-count</i>	(Optional)
<i>star-g-prefix-count</i>	(Optional)
<i>group-count</i>	(Optional)
<i>reason-for-route-stats-pending</i>	(Optional)
TABLE_group	(Optional)
<i>group-addr</i>	(Optional)
<i>group-mask-len</i>	(Optional)
<i>source-count-per-grp</i>	(Optional)
TABLE_source	(Optional)
<i>route-or-source</i>	(Optional)
<i>name</i>	(Optional)
<i>packets</i>	(Optional)
<i>bytes</i>	(Optional)
<i>aps</i>	(Optional)
<i>pps</i>	(Optional)

<i>bit-rate-in-bps</i>	(Optional)
<i>oifs</i>	(Optional)
<i>software-pkts</i>	(Optional)

Command Mode

- /exec

show ipv6 mtu

```
show ipv6 mtu [ statistics | vrf { <vrf-name> | <vrf-known-name> | all [ detail ] } ] [ __readonly__ [
TABLE_mtu_stat <out-ent> <exp-ent> <purge-ent> <int-err> <pkt-too-big> <cache-miss> <cache-upd>
<mtu-small> <cache-no-upd> ] [ TABLE_mtu_vrf [ <tot-ipv6-mtu> ] [ TABLE_one_mtu [ <pmtu-cntxt> ]
[ { <mtu-ipv6> <mtu-cache> <up-time> <iod-lcache> } ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPV6 information
mtu	Display IPV6 Path MTU Cache
statistics	(Optional) Display non-TCP Path MTU Statistics
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display IPV6 Path MTU Cache with detail
__readonly__	(Optional)
TABLE_mtu_stat	(Optional)
<i>out-ent</i>	(Optional)
<i>exp-ent</i>	(Optional)
<i>purge-ent</i>	(Optional)
<i>int-err</i>	(Optional)
<i>pkt-too-big</i>	(Optional)
<i>cache-miss</i>	(Optional)
<i>cache-upd</i>	(Optional)
<i>mtu-small</i>	(Optional)
<i>cache-no-upd</i>	(Optional)
TABLE_mtu_vrf	(Optional)
<i>tot-ipv6-mtu</i>	(Optional)
TABLE_one_mtu	(Optional)

<i>pmtu-cntxt</i>	(Optional)
<i>mtu-cache</i>	(Optional)
<i>up-time</i>	(Optional)
<i>iod-lcache</i>	(Optional)

Command Mode

- /exec

show ipv6 multicast vrf

```
show ipv6 multicast vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <vrf-count> { TABLE_vrf
<vrf-name> <cid> <tid> <rc> <gc> <sc> <star_gc> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
multicast	Display multicast routing VRFs
vrf	Display multicast routing VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-count</i>	(Optional)
<i>cid</i>	(Optional)
<i>tid</i>	(Optional)
<i>rc</i>	(Optional)
<i>gc</i>	(Optional)
<i>sc</i>	(Optional)
<i>star_gc</i>	(Optional)

Command Mode

- /exec

show ipv6 nd ra dns search-list

```
show ipv6 nd ra dns search-list [ interface <interface> ] [ __readonly__ { TABLE_intf <intf_name>
<dns_supress_server_list> [ { TABLE_list <list_no> <list_name> [ { <finite> | <infinite> } ] <seq_no> } ]
} ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
search-list	DNS Search List
interface	(Optional) Display DNS Search List information on interface
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional) IPV6 Interface name
<i>intf_name</i>	(Optional) Interface name
<i>dns_supress_server_list</i>	(Optional) DNS Supress server list
TABLE_list	(Optional) Search list
<i>list_no</i>	(Optional) Search list number
<i>list_name</i>	(Optional) Search list name
<i>finite</i>	(Optional) Search list life time
<i>infinite</i>	(Optional) Search list infinte time
<i>seq_no</i>	(Optional) Search list sequence number

Command Mode

- /exec

show ipv6 nd ra dns server

```
show ipv6 nd ra dns server [ interface <interface> ] [ __readonly__ { TABLE_intf <intf_name>
<dns_supress_server_list> [ { TABLE_list <dns_server> <dns_addr> [ { <finite> | <infinite> } ] <seq_no>
} ] } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
server	Domain Name System Server
interface	(Optional) Display Recursive DNS Server List information on interface
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional) IPV6 Interface name
<i>intf_name</i>	(Optional) Interface name
<i>dns_supress_server_list</i>	(Optional) DNS Supress server list
TABLE_list	(Optional) Search list
<i>dns_server</i>	(Optional) DNS server number
<i>dns_addr</i>	(Optional) DNS server address
<i>finite</i>	(Optional) DNS server life time
<i>infinite</i>	(Optional) DNS server time infinte
<i>seq_no</i>	(Optional) DNS server sequence number

Command Mode

- /exec

show ipv6 nd rt-pref global pt

show ipv6 nd rt-pref global pt

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
rt-pref	Router Preference
global	Global
pt	PTREE

Command Mode

- /exec

show ipv6 ndp

show ipv6 ndp

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ndp	Show IPv6 neighbors from netstack

Command Mode

- /exec

show ipv6 neighbor static

```
show ipv6 neighbor static [ interface <interface> ] [ __readonly__ [ TABLE_i6_nei { <nei-ipv6> <nei-mac>
<nei-iod> <nei-if-iod> } ] [ <tot-nei-ent> ] [ TABLE_nei_cnt { <nei-ipv6-tot> <nei-mac-tot> <nei-iod-tot>
<nei-if-iod-tot> } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
neighbor	Show IPv6 neighbor entry
static	Displays only static neighbors
interface	(Optional) Display IPv6 related interface information
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_i6_nei	(Optional)
<i>nei-mac</i>	(Optional)
<i>nei-iod</i>	(Optional)
<i>nei-if-iod</i>	(Optional)
<i>tot-nei-ent</i>	(Optional)
TABLE_nei_cnt	(Optional)
<i>nei-mac-tot</i>	(Optional)
<i>nei-iod-tot</i>	(Optional)
<i>nei-if-iod-tot</i>	(Optional)

Command Mode

- /exec

show ipv6 pim bitfield

show ipv6 pim bitfield

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
bitfield	Display compressed bitfield details

Command Mode

- /exec

show ipv6 pim df

```
show ipv6 pim df [ <rp-or-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
<out-context> { TABLE_rp <rp-addr> <df-ordinal> <df-bits> <df-bits-count> <metric-pref> <metric> {
TABLE_grange <grange-grp> <grange-masklen> } { TABLE_iod <if-name> <df-winner> <df-state>
<winner-metric-pref> <winner-metric> <uptime> <is-rpf> } } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
df	Display Bidir Designated Forwarders
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-context</i>	(Optional)
TABLE_rp	(Optional)
<i>df-ordinal</i>	(Optional)
<i>df-bits</i>	(Optional)
<i>df-bits-count</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>metric</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-masklen</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>df-state</i>	(Optional)
<i>winner-metric-pref</i>	(Optional)
<i>winner-metric</i>	(Optional)

<i>uptime</i>	(Optional)
<i>is-rpf</i>	(Optional)

Command Mode

- /exec

show ipv6 pim embed-rp

show ipv6 pim embed-rp <group>

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
embed-rp	Display Embed-RP group address mapping

Command Mode

- /exec

show ipv6 pim event-history

```
show ipv6 pim [ internal ] event-history { errors | msgs | <pim6-event-hist-buf-name> | statistics }
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	PIM6 global configuration commands
internal	(Optional) Commands for internal use
event-history	Show various event logs of PIM6
errors	Show error logs of PIM6
msgs	Show various message logs of PIM6
<i>pim6-event-hist-buf-name</i>	Show logs of event-hist buffer
statistics	Show state and size of buffers

Command Mode

- /exec

show ipv6 pim fabric info

show ipv6 pim fabric info [*__readonly__* <*switch_role*>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
fabric	Fabric functionality
info	show the fabric info
<i>__readonly__</i>	(Optional)
<i>switch_role</i>	(Optional)

Command Mode

- /exec

show ipv6 pim fabric legacy-vlans

show ipv6 pim fabric legacy-vlans [*__readonly__* *TABLE_legacy_vlan* <*vlan_id*>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
fabric	Fabric functionality
legacy-vlans	Show legacy VLANs on this switch
<i>__readonly__</i>	(Optional)
<i>TABLE_legacy_vlan</i>	(Optional)
<i>vlan_id</i>	(Optional)

Command Mode

- /exec

show ipv6 pim group-range

```
show ipv6 pim group-range [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
<out-context> { TABLE_group <grp-addr> <invalid-grp> <mode> <rp-addr> <sh-tree-only-range> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
group-range	Display the various group ranges
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-context</i>	(Optional)
TABLE_group	(Optional)
<i>invalid-grp</i>	(Optional)
<i>mode</i>	(Optional)

Command Mode

- /exec

show ipv6 pim interface show ipv6 pim interface

```
show ipv6 pim interface <interface> | show ipv6 pim interface [ brief ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ <out-context> { TABLE_iod <if-name> <if-addr> <dr> <nbr-cnt> <is-border>
<is-iface-in-cib> <is-pim-enabled> <if-addr-summary> <if-status> <dr-priority> <no-dr-priority>
<hello-interval-sec> <hello-interval-msec> <hello-timer> <holdtime-sec> <holdtime-msec> <genid>
<isauth-config> <is-passive> <nbr-policy-name> <jp-in-policy-name> <jp-out-policy-name> <last-cleared>
<hello-sent> <hello-rcvd> <jp-sent> <jp-rcvd> <assert-sent> <assert-rcvd> <graft-sent> <graft-rcvd>
<graft-ack-sent> <graft-ack-rcvd> <df-offer-sent> <df-offer-rcvd> <df-winner-sent> <df-winner-rcvd>
<df-backoff-sent> <df-backoff-rcvd> <pass-sent> <pass-rcvd> <cksum-errors> <invalid-errors>
<invalid-df-errors> <auth-failed> <pak-len-errors> <ver-errors> <pkts-self> <pkts-non-nbr> <pkts-on-passive>
<jp-rcvd-on-rpf> <jp-rcvd-no-rp> <jp-rcvd-wrong-rp> <jp-rcvd-for-ssm> <jp-rcvd-for-bidir>
<jp-in-policy-filter> <jp-out-policy-filter> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
interface	Display PIM6 interface related information
<i>interface</i>	Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>nbr-cnt</i>	(Optional)
<i>is-iface-in-cib</i>	(Optional)
<i>is-pim-enabled</i>	(Optional)
<i>is-border</i>	(Optional)
<i>if-addr-summary</i>	(Optional)

<i>if-status</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)
<i>hello-interval-sec</i>	(Optional)
<i>hello-interval-msec</i>	(Optional)
<i>hello-timer</i>	(Optional)
<i>holdtime-sec</i>	(Optional)
<i>holdtime-msec</i>	(Optional)
<i>genid</i>	(Optional)
<i>isauth-config</i>	(Optional)
<i>is-passive</i>	(Optional)
<i>nbr-policy-name</i>	(Optional)
<i>jp-in-policy-name</i>	(Optional)
<i>jp-out-policy-name</i>	(Optional)
<i>last-cleared</i>	(Optional)
<i>hello-sent</i>	(Optional)
<i>hello-rcvd</i>	(Optional)
<i>jp-sent</i>	(Optional)
<i>jp-rcvd</i>	(Optional)
<i>assert-sent</i>	(Optional)
<i>assert-rcvd</i>	(Optional)
<i>graft-sent</i>	(Optional)
<i>graft-rcvd</i>	(Optional)
<i>graft-ack-sent</i>	(Optional)
<i>graft-ack-rcvd</i>	(Optional)
<i>df-offer-sent</i>	(Optional)
<i>df-offer-rcvd</i>	(Optional)
<i>df-winner-sent</i>	(Optional)
<i>df-winner-rcvd</i>	(Optional)

<i>df-backoff-sent</i>	(Optional)
<i>df-backoff-rcvd</i>	(Optional)
<i>pass-sent</i>	(Optional)
<i>pass-rcvd</i>	(Optional)
<i>cksum-errors</i>	(Optional)
<i>invalid-errors</i>	(Optional)
<i>invalid-df-errors</i>	(Optional)
<i>auth-failed</i>	(Optional)
<i>pak-len-errors</i>	(Optional)
<i>ver-errors</i>	(Optional)
<i>pkts-self</i>	(Optional)
<i>pkts-non-nbr</i>	(Optional)
<i>pkts-on-passive</i>	(Optional)
<i>jp-rcvd-on-rpf</i>	(Optional)
<i>jp-rcvd-no-rp</i>	(Optional)
<i>jp-rcvd-wrong-rp</i>	(Optional)
<i>jp-rcvd-for-ssm</i>	(Optional)
<i>jp-rcvd-for-bidir</i>	(Optional)
<i>jp-in-policy-filter</i>	(Optional)
<i>jp-out-policy-filter</i>	(Optional)

Command Mode

- /exec

show ipv6 pim neighbor

```
show ipv6 pim neighbor { [ <interface> ] | [ <ipv6addr> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
[ __readonly__ [ TABLE_vrf <out-context> [ TABLE_neighbor <nbr-addr><if-name><uptime><expires>
[ <dr-priority> ] <bidir-capable> <bfd-state><name> [ TABLE_secondary <sec-addr> ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
neighbor	Display PIM6 neighbor related information
<i>interface</i>	(Optional) Display neighbors on single interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_neighbor	(Optional)
<i>dr-priority</i>	(Optional)
<i>bidir-capable</i>	(Optional)
TABLE_secondary	(Optional)

Command Mode

- /exec

show ipv6 pim oif-list

```
show ipv6 pim oif-list <group> [ <source> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <vrf-name> { TABLE_grp <mcast-addr> <incoming-intf> <rpf-nbr> <timeout-interval>
<oif-list-count> [ { TABLE_oiflist <oif-name> } ] <timeout-list-count> [ { TABLE_timeoutlist
<timeoutoif-name> } ] <immediate-list-count> [ { TABLE_immediatelist <immediateoif-name> } ]
<immediate-timeout-list-count> [ { TABLE_immediatettimeoutlist <immediatettimeoutoif-name> } ]
<mgr-prune-list-count> [ { TABLE_mgrprunelist <mgrprunelistoif-name> } ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
oif-list	Display interfaces for oif-list of PIM6 route
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_grp	(Optional)
<i>mcast-addr</i>	(Optional)
<i>incoming-intf</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>oif-list-count</i>	(Optional)
TABLE_oiflist	(Optional)
<i>oif-name</i>	(Optional)
<i>timeout-list-count</i>	(Optional)
TABLE_timeoutlist	(Optional)
<i>timeoutoif-name</i>	(Optional)
<i>immediate-list-count</i>	(Optional)

TABLE_immediatelist	(Optional)
<i>immediateoif-name</i>	(Optional)
<i>immediate-timeout-list-count</i>	(Optional)
TABLE_immediatettimeoutlist	(Optional)
<i>immediatettimeoutoif-name</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
TABLE_sgrprunelist	(Optional)
<i>sgrprunelistoif-name</i>	(Optional)

Command Mode

- /exec

show ipv6 pim policy statistics jp

```
show ipv6 pim policy statistics { jp-policy | neighbor-policy } <interface> [ __readonly__ { TABLE_routemap
<name> <action> <seq_num> [ { TABLE_cmd <command> <match_count> <compare_count> } ] }
<total_accept_count> <total_reject_count> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	PIM6 global configuration commands
policy	Policy related information
statistics	Policy statistics
jp-policy	Statistics for jp-policy
neighbor-policy	Statistics for neighbor-policy
<i>interface</i>	Interface to display policy statistics for
<i>__readonly__</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ipv6 pim route

```
show ipv6 pim route { [ bitfield ] | <source> <group> | <group> [ <source> ] [ bitfield ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <context-name> <route-count> [ TABLE_one_route
<mcast-addr> [ <rp-addr> <rp-local> ] <bidir> <sgexpire> <is-fabricowned> [ <sgexpire> ] [ <timeleft> ]
<rp-bit> [ <register> ] [ <assert-timeout> ] <intf-name> <rpf-nbr-1> <rpf-nbr-addr> <rpf-nbr-2> [ <metric-pref>
<route-metric> ] [ <oif-count> ] [ <oif-bf-str> ] [ <timeout-count> ] [ <timeout-bf-str> ] [ <immediate-count>
] [ <immediate-bf-str> ] [ <immediate-timeout-count> ] [ <immediate-timeout-bf-str> ] [ <sgr-prune-list-count>
] [ <sgr-prune-list-bf-str> ] [ <timeout-interval> <jp-holdtime-rndup> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
route	Display PIM6 specific route information
bitfield	(Optional) Display details of each bitfield for PIM6 route
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>context-name</i>	(Optional)
<i>route-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>mcast-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>rp-local</i>	(Optional)
<i>bidir</i>	(Optional)
<i>sgexpire</i>	(Optional)
<i>is-fabricowned</i>	(Optional)
<i>sgexpire</i>	(Optional)
<i>timeleft</i>	(Optional)

<i>rp-bit</i>	(Optional)
<i>register</i>	(Optional)
<i>assert-timeout</i>	(Optional)
<i>intf-name</i>	(Optional)
<i>rpf-nbr-1</i>	(Optional)
<i>rpf-nbr-addr</i>	(Optional)
<i>rpf-nbr-2</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>route-metric</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oif-bf-str</i>	(Optional)
<i>timeout-count</i>	(Optional)
<i>timeout-bf-str</i>	(Optional)
<i>immediate-count</i>	(Optional)
<i>immediate-bf-str</i>	(Optional)
<i>immediate-timeout-count</i>	(Optional)
<i>immediate-timeout-bf-str</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
<i>sgr-prune-list-bf-str</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>jp-holdtime-rndup</i>	(Optional)

Command Mode

- /exec

show ipv6 pim rp-hash

```
show ipv6 pim rp-hash <group> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-context>
<rp-found> <is-rp-bsr-learned> <out-group> <hash-length> <out-bsr> { TABLE_rp <rp-addr> <hash>
<isbest_hash> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
rp-hash	Display RP hash value for group
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
<i>rp-found</i>	(Optional)
<i>is-rp-bsr-learned</i>	(Optional)
<i>hash-length</i>	(Optional)
TABLE_rp	(Optional)
<i>hash</i>	(Optional)
<i>isbest_hash</i>	(Optional)

Command Mode

- /exec

show ipv6 pim rp

```
show ipv6 pim rp [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-context>
<is-bsr-enabled> <is-bsr-listen-only> <is-bsr-forward-only> <are-we-bsr> <bsr-address> <is-bsr-address>
<bsr-priority> <bsr-hash-masklen> <bs-timer> <bsr-uptime> <bsr-expires> <is-autorp-enabled>
<is-autorp-listen-only> <is-autorp-forward-only> <are-we-autorp> <autorp-address> <is-autorp-address>
<autorp-dis-timer> <autorp-up-time> <autorp-expire-time> <rp-cand-policy-name> <bsr-policy-name>
<rp-announce-policy-name> <rp-discovery-policy-name> { TABLE_anycast_rp <anycast-rp-addr> {
TABLE_arp_rp <arp-rp-addr> <is-rpaddr-local> } } { TABLE_rp <rp-addr> <is-rp-in-cib> <df-ordinal>
<rp-uptime> <rp-priority> <autorp-expires> <bsr-rp-expires> <autorp-info-src> <bsr-info-src> <is-rp-static>
<static-rp-group-map> { TABLE_grange <grange-grp> <grange-masklen> <is-bidir-grp> <is-autorp-rp-owner>
<is-bsr-rp-owner> <is-static-rp-owner> } } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
rp	Display PIM6 RP, Auto-RP, and BSR related information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
<i>is-bsr-enabled</i>	(Optional)
<i>is-bsr-listen-only</i>	(Optional)
<i>is-bsr-forward-only</i>	(Optional)
<i>are-we-bsr</i>	(Optional)
<i>is-bsr-address</i>	(Optional)
<i>bsr-priority</i>	(Optional)
<i>bsr-hash-masklen</i>	(Optional)
<i>bs-timer</i>	(Optional)
<i>bsr-uptime</i>	(Optional)
<i>bsr-expires</i>	(Optional)

<i>is-autorp-enabled</i>	(Optional)
<i>is-autorp-listen-only</i>	(Optional)
<i>is-autorp-forward-only</i>	(Optional)
<i>are-we-autorp</i>	(Optional)
<i>is-autorp-address</i>	(Optional)
<i>autorp-dis-timer</i>	(Optional)
<i>autorp-up-time</i>	(Optional)
<i>autorp-expire-time</i>	(Optional)
<i>rp-cand-policy-name</i>	(Optional)
<i>bsr-policy-name</i>	(Optional)
<i>rp-announce-policy-name</i>	(Optional)
<i>rp-discovery-policy-name</i>	(Optional)
TABLE_anycast_rp	(Optional)
TABLE_arp_rp	(Optional)
<i>is-rpaddr-local</i>	(Optional)
TABLE_rp	(Optional)
<i>is-rp-in-cib</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rp-uptime</i>	(Optional)
<i>rp-priority</i>	(Optional)
<i>autorp-expires</i>	(Optional)
<i>bsr-rp-expires</i>	(Optional)
<i>is-rp-static</i>	(Optional)
<i>static-rp-group-map</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-masklen</i>	(Optional)
<i>is-bidir-grp</i>	(Optional)
<i>is-autorp-rp-owner</i>	(Optional)
<i>is-bsr-rp-owner</i>	(Optional)

<i>is-static-rp-owner</i>	(Optional)
---------------------------	------------

Command Mode

- /exec

show ipv6 pim statistics

```
show ipv6 pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <uptime> <reg-sent>
<reg-rcvd> <null-reg-sent> <null-reg-rcvd> <reg-stop-sent> <reg-stop-rcvd> <reg-rcvd-not-rp>
<reg-rcvd-for-ssm> <reg-rcvd-for-bidir> <bootstrap-sent> <bootstrap-rcvd> <cand-rp-sent> <cand-rp-rcvd>
<bs-no-nbr> <bs-border-deny> <bs-len-errors> <bs-rpf-failed> <bs-no-listen> <candrp-border-deny>
<candrp-no-listen> <autorp-announce-sent> <autorp-announce-rcvd> <autorp-discovery-sent>
<autorp-discovery-rcvd> <autorp-rpf-failed> <autorp-border-deny> <autorp-invalid-type> <autorp-ttl-expired>
<autorp-no-listen> <ctrl-no-route> <data-no-route> <no-state> <create-state> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
statistics	Packet counter statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>uptime</i>	(Optional)
<i>reg-sent</i>	(Optional)
<i>reg-rcvd</i>	(Optional)
<i>null-reg-sent</i>	(Optional)
<i>null-reg-rcvd</i>	(Optional)
<i>reg-stop-sent</i>	(Optional)
<i>reg-stop-rcvd</i>	(Optional)
<i>reg-rcvd-not-rp</i>	(Optional)
<i>reg-rcvd-for-ssm</i>	(Optional)
<i>reg-rcvd-for-bidir</i>	(Optional)
<i>bootstrap-sent</i>	(Optional)
<i>bootstrap-rcvd</i>	(Optional)
<i>cand-rp-sent</i>	(Optional)

<i>cand-rp-rcvd</i>	(Optional)
<i>bs-no-nbr</i>	(Optional)
<i>bs-border-deny</i>	(Optional)
<i>bs-len-errors</i>	(Optional)
<i>bs-rpf-failed</i>	(Optional)
<i>bs-no-listen</i>	(Optional)
<i>candrp-border-deny</i>	(Optional)
<i>candrp-no-listen</i>	(Optional)
<i>autorp-announce-sent</i>	(Optional)
<i>autorp-announce-rcvd</i>	(Optional)
<i>autorp-discovery-sent</i>	(Optional)
<i>autorp-discovery-rcvd</i>	(Optional)
<i>autorp-rpf-failed</i>	(Optional)
<i>autorp-border-deny</i>	(Optional)
<i>autorp-invalid-type</i>	(Optional)
<i>autorp-ttl-expired</i>	(Optional)
<i>autorp-no-listen</i>	(Optional)
<i>ctrl-no-route</i>	(Optional)
<i>data-no-route</i>	(Optional)
<i>no-state</i>	(Optional)
<i>create-state</i>	(Optional)

Command Mode

- /exec

show ipv6 pim vrf

```
show ipv6 pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail ] [ __readonly__ TABLE_context
<out-context> <context-id> <table-id> <count> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
vrf	Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs PIM6 is configured for
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_context	(Optional)
<i>out-context</i>	(Optional)
<i>context-id</i>	(Optional)
<i>table-id</i>	(Optional)
<i>count</i>	(Optional)

Command Mode

- /exec

show ipv6 policy

```
show ipv6 policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_pbr <interface>
<rmap> <status> <vrf_name> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

Command Mode

- /exec

show ipv6 prefix-list

```
show ipv6 prefix-list { [ detail | summary ] [ <ipv6-pfl-name> | <ipv6-pfl-cfg-name> ] } | { { <ipv6-pfl-name>
| <ipv6-pfl-cfg-name> } seq <seq-no> } | { { <ipv6-pfl-name> | <ipv6-pfl-cfg-name> } <prefix> [ first-match
| longer ] } } [ __readonly__ TABLE_ipv6_pfl <name> <seq> <action> <rule> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
detail	(Optional) Show detailed information
summary	(Optional) Show summarized information
prefix-list	List IPv6 prefix lists
<i>ipv6-pfl-name</i>	(Optional) Name of prefix-list
<i>ipv6-pfl-cfg-name</i>	(Optional) Known prefix-list name
seq	Sequence number
<i>seq-no</i>	Sequence number
first-match	(Optional) Find the first match
longer	(Optional) Find the more specific entries
<i>__readonly__</i>	(Optional)
TABLE_ipv6_pfl	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ipv6 process

```
show ipv6 process [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_ipv6_all {
<cnxt-name> <cnxt-id> } ] [ TABLE_ipv6 { <ipv6-vrf> <ipv6-vrf-id> <auto-disc> <auto-add> <sta-disc>
<sta-def> [ <ipv6-unreach> } ] [ TABLE_iod { <iod-val> <iod-ifind> } ] [ TABLE_ipv6_nxt { <ipv6-nxt>
} ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
process	Display IPv6 global information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
<i>__readonly__</i>	(Optional)
TABLE_ipv6_all	(Optional)
<i>cnxt-name</i>	(Optional)
<i>cnxt-id</i>	(Optional)
TABLE_ipv6	(Optional)
<i>ipv6-vrf</i>	(Optional)
<i>ipv6-vrf-id</i>	(Optional)
<i>auto-disc</i>	(Optional)
<i>auto-add</i>	(Optional)
<i>sta-disc</i>	(Optional)
<i>sta-def</i>	(Optional)
<i>ipv6-unreach</i>	(Optional)
TABLE_iod	(Optional)
<i>iod-val</i>	(Optional)
<i>iod-ifind</i>	(Optional)
TABLE_ipv6_nxt	(Optional)

Command Mode

- /exec

show ipv6 process sdb

show ipv6 process sdb

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
process	Display IPv6 global information
sdb	Dump IPv6 sdb in a file

Command Mode

- /exec

show ipv6 rguard statistics

```
show ipv6 rguard statistics [ interface <intf-range> ] [ __readonly__ <msg_stats_hdr> <intf2> <rx_pkts>
<drop_count> ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
rguard	IPV6 rguard
statistics	RA packet drop count
interface	(Optional) Rguard enabled interfaces
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional)
<i>intf2</i>	(Optional) interface name
<i>rx_pkts</i>	(Optional)
<i>drop_count</i>	(Optional)

Command Mode

- /exec

show ipv6 rip policy statistics redistribute

```
show ipv6 rip [ instance <inst> ] policy statistics redistribute { bgp <as> | { eigrp | isis | <src-rip> | ospfv3 |
lisp } <tag> | direct | static } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
isis	Intermediate-to-intermediate (ISIS)
src-rip	Routing Information Protocol (RIP)
ospfv3	Open Shortest Path First (OSPFv3)
lisp	LISP EID-prefixes
<i>tag</i>	Process tag
direct	Directly connected routes
static	Static routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ipv6 routers

```
show ipv6 routers [ all-routers ] [ [ interface <interface> ] | [ vrf { <vrf-name> | <vrf-known-name> | all } ] ] [ __readonly__ { TABLE_ipv6_routers [ TABLE_interface_ipv6 { <rtr-ipv6> <ipv6-int-addr> <rtr-flo-time> <curr-hop-lmt> <life-time> <addr-flag> <other-flg> <mtu-rtr> <hm-agent-flg> <preference> <reach-time> <retrans-time> [ TABLE_prefix_ipv6 { <ipv6-prefix> <buf-ipv6> <buf-autono> <valid-life-time> <prefer-life> } ] } ] } ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
routers	Display neighbor router information
all-routers	(Optional) All routers even on down interface
interface	(Optional) Display neighbor router information on interface
<i>interface</i>	(Optional) Interface name to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_ipv6_routers	(Optional)
TABLE_interface_ipv6	(Optional)
<i>ipv6-int-addr</i>	(Optional)
<i>rtr-flo-time</i>	(Optional)
<i>curr-hop-lmt</i>	(Optional)
<i>life-time</i>	(Optional)
<i>addr-flag</i>	(Optional)
<i>other-flg</i>	(Optional)
<i>mtu-rtr</i>	(Optional)
<i>hm-agent-flg</i>	(Optional)
<i>preference</i>	(Optional)
<i>reach-time</i>	(Optional)

<i>retrans-time</i>	(Optional)
TABLE_prefix_ipv6	(Optional)
<i>ipv6-prefix</i>	(Optional)
<i>buf-ipv6</i>	(Optional)
<i>buf-autono</i>	(Optional)
<i>valid-life-time</i>	(Optional)
<i>prefer-life</i>	(Optional)

Command Mode

- /exec

show ipv6 static-route

```
show ipv6 static-route [ <prefix> ] [ multicast ] [ track-table ] [ vrf { <vrf-name> | <vrf-known-name> | all }
] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_route <prefix-out> <next-hop> <intf-name> <pref>
<real-nh> <has-real-intf> <real-intf-name> TABLE_track-table ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
static-route	Display configured static routes
multicast	(Optional) Display configured static mroutes
track-table	(Optional) Display track object details associated with static routes
all	(Optional) Display all VRFs
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_route	(Optional)
<i>intf-name</i>	(Optional)
<i>pref</i>	(Optional)
<i>has-real-intf</i>	(Optional)
<i>real-intf-name</i>	(Optional)
TABLE_track-table	(Optional)

Command Mode

- /exec

show ipv6 statistics

show ipv6 statistics

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
statistics	Display IPv6 global statistics

Command Mode

- /exec

show ipv6 traffic

```
show ipv6 traffic [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_ipv6_traffic <uptime> <upkt-fwd> <mpkt-fwd> <ubyte-fwd> <mbyte-fwd>
<upkt-orig> <mpkt-orig> <ubyte-orig> <mbyte-orig> <upkt-consumed> <mpkt-consumed> <ubyte-consumed>
<mbyte-consumed> <ufrag-orig> <mfra-orig> <ufrag-consumed> <mfrag-consumed> <bad-version>
<rt-lookup-fail> <hoplimit-excd> <opt-header-error> <pld-length-too-small> <pm-failed> <mbuf-error>
<could-not-enc> <dest-if-down> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
traffic	Display IPv6 traffic statistics
detail	(Optional) Display per protocol IPv6 statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_ipv6_traffic	(Optional)
<i>uptime</i>	(Optional)
<i>upkt-fwd</i>	(Optional)
<i>mpkt-fwd</i>	(Optional)
<i>ubyte-fwd</i>	(Optional)
<i>mbyte-fwd</i>	(Optional)
<i>upkt-orig</i>	(Optional)
<i>mpkt-orig</i>	(Optional)
<i>ubyte-orig</i>	(Optional)
<i>mbyte-orig</i>	(Optional)
<i>upkt-consumed</i>	(Optional)
<i>mpkt-consumed</i>	(Optional)

<i>ubyte-consumed</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>ufrag-orig</i>	(Optional)
<i>mfra-orig</i>	(Optional)
<i>ufrag-consumed</i>	(Optional)
<i>mfrag-consumed</i>	(Optional)
<i>bad-version</i>	(Optional)
<i>rt-lookup-fail</i>	(Optional)
<i>hoplimit-excd</i>	(Optional)
<i>opt-header-error</i>	(Optional)
<i>pld-length-too-small</i>	(Optional)
<i>pm-failed</i>	(Optional)
<i>mbuf-error</i>	(Optional)
<i>could-not-enc</i>	(Optional)
<i>dest-if-down</i>	(Optional)

Command Mode

- /exec

show isis

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ process | protocol ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <instance_num> <uuid>
<process-id> <vrf-name-out> <system-id-out> <is-type-out> <sap-out> <qh-out> <mtu-out> [ <gr-status-out>
] [ <gr-state-active-out> ] [ <gr-state-inactive-out> ] [ <last-gr-status-fail-out> ] [ <last-gr-status-success-out>
] [ <last-gr-status-none-out> ] [ <gr-status-disable-out> ] [ TABLE_afi_safi <af-ix> <af-bfd-config>
<af-pib-tag> ] <metric-style> <accept-metric> [ <net-set-none> ] [ TABLE_area_addr <area-addr-nsap> ] [
<proc-state-not-config> ] [ <proc-state-admin-down> ] [ <proc-state-l3vm-down> ] [
<proc-state-unknown-down> ] [ <proc-state-not-specified> ] [ <proc-state-no-net> ] [ <proc-state-no-vrf-id>
] [ <proc-state-out-memory> ] [ <proc-state-restart> ] [ <proc-state-running> ] <vrf-id-out> [ TABLE_te
<te-lvl-out> <te-lvl-active> ] [ <te-ted-out> ] [ <mpls-te-out> ] [ TABLE_mpls_te [ <mpls-te-lvl-out> ] [
<mpls-te-rtrid-intf-out> ] [ <mpls-te-fa-lvl-out> ] [ TABLE_te_fa <te-fa-sysid-out> <te-fa-intf-out> ] [
<te-stat-sys-id-out> ] [ <te-stat-rtr-id-out> ] [ TABLE_te_stat_lvl <te-stat-lvl-out> <te-stat-up-out>
<te-stat-down-out> ] [ TABLE_iib_list_yeild <intf-name-out> ] [ TABLE_auth <auth-lvl-out> [
<auth-type-no-type> ] [ <auth-type-cleartext> ] [ <auth-type-md5> ] [ <auth-type-key-chain> ] [
<auth-type-none> ] [ <auth-check> ] [ <auth-no-check> ] ] [ TABLE_spf <spf-lvl-out> [ <spf-timer> ] ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
process	(Optional) Display IS-IS process information
protocol	(Optional) Display IS-IS process information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>instance_num</i>	(Optional)
<i>uuid</i>	(Optional)
<i>process-id</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>system-id-out</i>	(Optional)

<i>is-type-out</i>	(Optional)
<i>sap-out</i>	(Optional)
<i>qh-out</i>	(Optional)
<i>mtu-out</i>	(Optional)
<i>gr-status-out</i>	(Optional)
<i>gr-state-active-out</i>	(Optional)
<i>gr-state-inactive-out</i>	(Optional)
<i>last-gr-status-fail-out</i>	(Optional)
<i>last-gr-status-success-out</i>	(Optional)
<i>last-gr-status-none-out</i>	(Optional)
<i>gr-status-disable-out</i>	(Optional)
TABLE_afi_safi	(Optional)
<i>af-ix</i>	(Optional)
<i>af-bfd-config</i>	(Optional)
<i>af-pib-tag</i>	(Optional)
<i>metric-style</i>	(Optional)
<i>accept-metric</i>	(Optional)
<i>net-set-none</i>	(Optional)
TABLE_area_addr	(Optional)
<i>area-addr-nsap</i>	(Optional)
<i>proc-state-not-config</i>	(Optional)
<i>proc-state-admin-down</i>	(Optional)
<i>proc-state-l3vm-down</i>	(Optional)
<i>proc-state-unknown-down</i>	(Optional)
<i>proc-state-not-specified</i>	(Optional)
<i>proc-state-no-net</i>	(Optional)
<i>proc-state-no-vrf-id</i>	(Optional)
<i>proc-state-out-memory</i>	(Optional)
<i>proc-state-restart</i>	(Optional)

<i>proc-state-running</i>	(Optional)
<i>vrf-id-out</i>	(Optional)
TABLE_te	(Optional)
<i>te-lvl-out</i>	(Optional)
<i>te-lvl-active</i>	(Optional)
<i>te-ted-out</i>	(Optional)
<i>mpls-te-out</i>	(Optional)
TABLE_mpls_te	(Optional)
<i>mpls-te-lvl-out</i>	(Optional)
<i>mpls-te-rtrid-intf-out</i>	(Optional)
<i>mpls-te-fa-lvl-out</i>	(Optional)
TABLE_te_fa	(Optional)
<i>te-fa-sysid-out</i>	(Optional)
<i>te-fa-intf-out</i>	(Optional)
<i>te-stat-sys-id-out</i>	(Optional)
<i>te-stat-rtr-id-out</i>	(Optional)
TABLE_te_stat_lvl	(Optional)
<i>te-stat-lvl-out</i>	(Optional)
<i>te-stat-up-out</i>	(Optional)
<i>te-stat-down-out</i>	(Optional)
TABLE_iib_list_yeild	(Optional)
<i>intf-name-out</i>	(Optional)
TABLE_auth	(Optional)
<i>auth-lvl-out</i>	(Optional)
<i>auth-type-no-type</i>	(Optional)
<i>auth-type-cleartext</i>	(Optional)
<i>auth-type-md5</i>	(Optional)
<i>auth-type-key-chain</i>	(Optional)
<i>auth-type-none</i>	(Optional)

<i>auth-check</i>	(Optional)
<i>auth-no-check</i>	(Optional)
TABLE_spf	(Optional)
<i>spf-lvl-out</i>	(Optional)
<i>spf-timer</i>	(Optional)

Command Mode

- /exec

show isis adjacency

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] adjacency [ <interface> [ p2p-level-1-2 ] ] [ { system-id <sid> } | [ detail ] | [ summary ] } ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <adj-summary-out> <adj-interface-out> [ <adj-interface-name-out> ] [ { TABLE_process_adj <adj-sys-name-out> <adj-sys-id-out> [ <adj-usage-out> ] [ <adj-level-out> ] <adj-state-out> <adj-hold-time-out> <adj-intf-name-out> <adj-detail-set-out> [ { <adj-transitions-out> <adj-flap-out> [ <adj-flap-time-out> ] <adj-ckt-type-out> <adj-ipv4-addr-out> <adj-ipv6-addr-out> <adj-bcast-out> [ { <adj-ckt-id-out> <adj-lan-prio-out> } ] <adj-bfd-ipv4-establish-out> <adj-bfd-ipv6-establish-out> <adj-resurrect-out> [ { <adj-resurrect-count-out> <adj-resurrect-hwm-out> } ] <adj-restart-capable-out> <adj-restart-ack-out> [ { <adj-restart-mode-out> <adj-restart-adj-seen-ra-out> <adj-restart-adj-seen-csnp-out> <adj-restart-adj-seen-l1-csnp-out> <adj-restart-adj-seen-l2-csnp-out> <adj-restart-suppress-adj-out> } ] } ] } ] [ { TABLE_p2p_adj_sum <adj-summ-p2p-level-out> <adj-summ-p2p-state-out> <adj-summ-p2p-count-out> } ] [ { TABLE_lan_adj_sum <adj-summ-lan-level-out> <adj-summ-lan-state-out> <adj-summ-lan-count-out> } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
adjacency	Display IS-IS adjacency information
<i>interface</i>	(Optional) IS-IS interface
system-id	(Optional) Hostname or System ID
<i>sid</i>	(Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX)
detail	(Optional) Display IS-IS adjacency detail information
p2p-level-1-2	(Optional) Display IS-IS point-to-point information at level-1-2
summary	(Optional) Display IS-IS adjacency summary information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)

<i>vrf-name-out</i>	(Optional)
<i>adj-summary-out</i>	(Optional)
<i>adj-interface-out</i>	(Optional)
<i>adj-interface-name-out</i>	(Optional)
TABLE_process_adj	(Optional)
<i>adj-sys-name-out</i>	(Optional)
<i>adj-sys-id-out</i>	(Optional)
<i>adj-usage-out</i>	(Optional)
<i>adj-level-out</i>	(Optional)
<i>adj-state-out</i>	(Optional)
<i>adj-hold-time-out</i>	(Optional)
<i>adj-intf-name-out</i>	(Optional)
<i>adj-detail-set-out</i>	(Optional)
<i>adj-transitions-out</i>	(Optional)
<i>adj-flap-out</i>	(Optional)
<i>adj-flap-time-out</i>	(Optional)
<i>adj-ckt-type-out</i>	(Optional)
<i>adj-ipv4-addr-out</i>	(Optional)
<i>adj-ipv6-addr-out</i>	(Optional)
<i>adj-bcast-out</i>	(Optional)
<i>adj-ckt-id-out</i>	(Optional)
<i>adj-lan-prio-out</i>	(Optional)
<i>adj-bfd-ipv4-establish-out</i>	(Optional)
<i>adj-bfd-ipv6-establish-out</i>	(Optional)
<i>adj-resurrect-out</i>	(Optional)
<i>adj-resurrect-count-out</i>	(Optional)
<i>adj-resurrect-hwm-out</i>	(Optional)
<i>adj-restart-capable-out</i>	(Optional)
<i>adj-restart-ack-out</i>	(Optional)

<i>adj-restart-mode-out</i>	(Optional)
<i>adj-restart-adj-seen-ra-out</i>	(Optional)
<i>adj-restart-adj-seen-csnp-out</i>	(Optional)
<i>adj-restart-adj-seen-l1-csnp-out</i>	(Optional)
<i>adj-restart-adj-seen-l2-csnp-out</i>	(Optional)
<i>adj-restart-suppress-adj-out</i>	(Optional)
TABLE_p2p_adj_sum	(Optional)
<i>adj-summ-p2p-level-out</i>	(Optional)
<i>adj-summ-p2p-state-out</i>	(Optional)
<i>adj-summ-p2p-count-out</i>	(Optional)
TABLE_lan_adj_sum	(Optional)
<i>adj-summ-lan-level-out</i>	(Optional)
<i>adj-summ-lan-state-out</i>	(Optional)
<i>adj-summ-lan-count-out</i>	(Optional)

Command Mode

- /exec

show isis csnp

```
show isis [ <isis-tag> ] csnp [ detail ] [ __readonly__ TABLE_process_tag <process-tag-out> [ {
TABLE_CSNPLEVEL <csnp-level> <csnp-cache-valid> <csnp-cache-hit> <cscnp-cache-miss> <csnp-hit-rate>
[ { TABLE_CSNPLSPS <csnp-start-lsp-id> <csnp-end-lsp-id> <csnp-entry-valid> <csnp-pdu-lengh> [ {
TABLE_CSNPONELSP <csnp-lsp-id> <csnp-lsp-seq-num> <csnp-lsp-chk-sum> <csnp-lsp-life-time> } ] }
] } ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
csnp	Display IS-IS CSNP cache contents
detail	(Optional) Display detailed IS-IS information
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_CSNPLEVEL	(Optional)
<i>csnp-level</i>	(Optional)
<i>csnp-cache-valid</i>	(Optional)
<i>csnp-cache-hit</i>	(Optional)
<i>cscnp-cache-miss</i>	(Optional)
<i>csnp-hit-rate</i>	(Optional)
TABLE_CSNPLSPS	(Optional)
<i>csnp-start-lsp-id</i>	(Optional)
<i>csnp-end-lsp-id</i>	(Optional)
<i>csnp-entry-valid</i>	(Optional)
<i>csnp-pdu-lengh</i>	(Optional)
TABLE_CSNPONELSP	(Optional)
<i>csnp-lsp-id</i>	(Optional)
<i>csnp-lsp-seq-num</i>	(Optional)
<i>csnp-lsp-chk-sum</i>	(Optional)

<i>csnp-lsp-life-time</i>	(Optional)
---------------------------	------------

Command Mode

- /exec

show isis database

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ <level> ] [ detail | advertise
| summary ] [ <lid> ] { [ zero-sequence ] | [ ip prefix <ip-prefix> ] | [ ipv6 prefix <ipv6-prefix> ] | [ router-id
<rid> ] | [ adjacency <adj-id> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ {
TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [ <dbase-hname-absent-out> ] [ {
TABLE_process_lvl <dbase-level-out> [ { TABLE_process_lsp <dbase-lsp-name-out> <dbase-lsp-status-out>
<dbase-lsp-absent-out> [ { <dbase-lsp-seqnum-out> <dbase-lsp-cksum-out> [ <dbase-lsp-lifetime-str-out> ]
[ <dbase-lsp-lifetime-out> ] <dbase-att-out> <dbase-partition-out> <dbase-overload-out> <dbase-istype-out>
} ] [ <dbase-lsp-instance-out> [ { TABLE_process_tlv <dbase-lsp-tlv-name-out> [ <dbase-lsp-area-addr-out>
] [ <dbase-lsp-is-nbr-name-out> ] [ <dbase-lsp-is-nbr-metric-out> ] [ <dbase-lsp-is-nbr-ext-metric-out> ] [
<dbase-lsp-es-nbr-name-out> ] [ <dbase-lsp-es-nbr-metric-out> ] [ <dbase-lsp-es-nbr-ext-metric-out> ] [
<dbase-lsp-auth-type-out> ] [ <dbase-lsp-auth-len-out> ] [ <dbase-lsp-ext-is-name-out> ] [
<dbase-lsp-ext-is-metric-out> ] [ <dbase-lsp-ip-ri-addr-out> ] [ <dbase-lsp-ip-ri-mask-out> ] [
<dbase-lsp-ip-ri-metric-out> ] [ <dbase-lsp-ip-ri-ext-metric-out> ] [ <dbase-lsp-ip-ri-up-down-out> ] [ {
TABLE_process_nlpid <dbase-lsp-prot-support-out> } ] [ <dbase-lsp-ip-addr-out> ] [ <dbase-lsp-ipv6-addr-out>
] [ { TABLE_process_extip <dbase-lsp-extip-addr-out> <dbase-lsp-extip-prefix-len-out>
<dbase-lsp-extip-metric-out> <dbase-lsp-extip-up-down-out> } ] [ <dbase-lsp-hname-out> ] [
<dbase-lsp-hname-len-out> ] [ { TABLE_process_extipv6 <dbase-lsp-extipv6-addr-out>
<dbase-lsp-extipv6-prefix-len-out> <dbase-lsp-extipv6-metric-out> <dbase-lsp-extipv6-up-down-out>
<dbase-lsp-extipv6-ext-origin-out> } ] [ <dbase-lsp-tlv-len-out> ] [ <dbase-lsp-tlv-unknown-out> ] [ {
TABLE_process_subtlv <dbase-lsp-subtlv-name-out> [ <dbase-lsp-extis-admin-group-out> ] [
<dbase-lsp-subtlv-ip-addr-out> ] [ <dbase-lsp-extis-bw-out> ] [ <dbase-lsp-extis-pri1-out> ] [
<dbase-lsp-extis-pri1-val-out> ] [ <dbase-lsp-extis-pri2-out> ] [ <dbase-lsp-extis-pri2-val-out> ] [
<dbase-lsp-extis-te-metric-out> ] [ <dbase-lsp-subtlv-len-out> ] [ <dbase-lsp-subtlv-unknown-out> } ] } ]
<dbase-lsp-digest-out> } ] } ] [ { <dbase-lsp-total-out> [ { <dbase-lsp-empty-out> <dbase-lsp-zeroseq-out>
} ] } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Display IS-IS database information
<i>level</i>	(Optional) IS-IS level
<i>lid</i>	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
detail	(Optional) Display detailed IS-IS information
advertise	(Optional) Display advertise tlv lsp-memory information

summary	(Optional) Display summary IS-IS information
zero-sequence	(Optional) LSP with zero sequence number
ip	(Optional) IP attribute filter
ipv6	(Optional) IPv6 attribute filter
prefix	(Optional) Prefix filter
<i>ip-prefix</i>	(Optional) Single exact match IP prefix filter
adjacency	(Optional) Adjacency filter
<i>adj-id</i>	(Optional) Single exact match adjacency filter
router-id	(Optional) Router-id filter
<i>rid</i>	(Optional) single exact match router-id filter
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>dbase-hname-absent-out</i>	(Optional)
TABLE_process_lvl	(Optional)
<i>dbase-level-out</i>	(Optional)
TABLE_process_lsp	(Optional)
<i>dbase-lsp-name-out</i>	(Optional)
<i>dbase-lsp-status-out</i>	(Optional)
<i>dbase-lsp-absent-out</i>	(Optional)
<i>dbase-lsp-seqnum-out</i>	(Optional)
<i>dbase-lsp-cksum-out</i>	(Optional)
<i>dbase-lsp-lifetime-str-out</i>	(Optional)
<i>dbase-lsp-lifetime-out</i>	(Optional)
<i>dbase-att-out</i>	(Optional)
<i>dbase-partition-out</i>	(Optional)
<i>dbase-overload-out</i>	(Optional)

<i>dbase-istype-out</i>	(Optional)
<i>dbase-lsp-instance-out</i>	(Optional)
TABLE_process_tlv	(Optional)
<i>dbase-lsp-tlv-name-out</i>	(Optional)
<i>dbase-lsp-area-addr-out</i>	(Optional)
<i>dbase-lsp-is-nbr-name-out</i>	(Optional)
<i>dbase-lsp-is-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-is-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-name-out</i>	(Optional)
<i>dbase-lsp-es-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-auth-type-out</i>	(Optional)
<i>dbase-lsp-auth-len-out</i>	(Optional)
<i>dbase-lsp-ext-is-name-out</i>	(Optional)
<i>dbase-lsp-ext-is-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-addr-out</i>	(Optional)
<i>dbase-lsp-ip-ri-mask-out</i>	(Optional)
<i>dbase-lsp-ip-ri-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-ext-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-up-down-out</i>	(Optional)
TABLE_process_nlpid	(Optional)
<i>dbase-lsp-prot-support-out</i>	(Optional)
<i>dbase-lsp-ip-addr-out</i>	(Optional)
<i>dbase-lsp-ipv6-addr-out</i>	(Optional)
TABLE_process_extip	(Optional)
<i>dbase-lsp-extip-addr-out</i>	(Optional)
<i>dbase-lsp-extip-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extip-metric-out</i>	(Optional)
<i>dbase-lsp-extip-up-down-out</i>	(Optional)

<i>dbase-lsp-hname-out</i>	(Optional)
<i>dbase-lsp-hname-len-out</i>	(Optional)
TABLE_process_extipv6	(Optional)
<i>dbase-lsp-extipv6-addr-out</i>	(Optional)
<i>dbase-lsp-extipv6-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extipv6-metric-out</i>	(Optional)
<i>dbase-lsp-extipv6-up-down-out</i>	(Optional)
<i>dbase-lsp-extipv6-ext-origin-out</i>	(Optional)
<i>dbase-lsp-tlv-len-out</i>	(Optional)
<i>dbase-lsp-tlv-unknown-out</i>	(Optional)
TABLE_process_subtlv	(Optional)
<i>dbase-lsp-subtlv-name-out</i>	(Optional)
<i>dbase-lsp-extis-admin-group-out</i>	(Optional)
<i>dbase-lsp-subtlv-ip-addr-out</i>	(Optional)
<i>dbase-lsp-extis-bw-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-val-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-val-out</i>	(Optional)
<i>dbase-lsp-extis-te-metric-out</i>	(Optional)
<i>dbase-lsp-subtlv-len-out</i>	(Optional)
<i>dbase-lsp-subtlv-unknown-out</i>	(Optional)
<i>dbase-lsp-digest-out</i>	(Optional)
<i>dbase-lsp-total-out</i>	(Optional)
<i>dbase-lsp-empty-out</i>	(Optional)
<i>dbase-lsp-zeroseq-out</i>	(Optional)

Command Mode

- /exec

show isis event-history

```
show isis [ <isis-tag> ] [ internal ] event-history { errors | msgs | <isis-event-hist-buf-name> | statistics }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
internal	(Optional) Commands for internal use
event-history	Display IS-IS event history
errors	Error history
msgs	Message history
<i>isis-event-hist-buf-name</i>	Event history buffer
statistics	Show the state and size of the buffer

Command Mode

- /exec

show isis hostname

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] { hostname | hostname-table } [ detail
] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf <vrf-name-out>
<hname-enabled-out> <hname-detail-out> <hname-level-out> <hname-id-out> <hname-id-mine-out>
<hname-name-out> ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
hostname	Display IS-IS hostname table information
hostname-table	Display IS-IS hostname table information
detail	(Optional) Display detailed IS-IS information
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>hname-enabled-out</i>	(Optional)
<i>hname-detail-out</i>	(Optional)
<i>hname-level-out</i>	(Optional)
<i>hname-id-out</i>	(Optional)
<i>hname-id-mine-out</i>	(Optional)
<i>hname-name-out</i>	(Optional)

Command Mode

- /exec

show isis interface

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface [ brief | <interface> ] [ level-1
| level-2 ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag
<process-tag-out> { TABLE_vrf <vrf-name-out> [ { TABLE_interface [ { <intfb-name-out> <intfb-type-out>
<intfb-ix-out> <intfb-state-out> <intfb-ready-state-out> <intfb-cid-out> <intfb-ckt-type-out> <intfb-mtu-out>
[ { <intf-p2p-metric-lvl-1-out> <intf-p2p-metric-lvl-2-out> <intf-p2p-prio-lvl-1-out> <intf-p2p-prio-lvl-2-out>
<intf-p2p-adj-count-lvl-1-out> <intf-p2p-adj-up-count-lvl-1-out> <intf-p2p-adj-count-lvl-2-out>
<intf-p2p-adj-up-count-lvl-2-out> } ] [ { <intf-loopback-metric-lvl-1-out> <intf-loopback-metric-lvl-2-out>
<intf-loopback-prio-lvl-1-out> <intf-loopback-prio-lvl-2-out> <intf-loopback-adj-count-lvl-1-out>
<intf-loopback-adj-up-count-lvl-1-out> <intf-loopback-adj-count-lvl-2-out>
<intf-loopback-adj-up-count-lvl-2-out> } ] [ { <intf-bcast-metric-lvl-1-out> <intf-bcast-metric-lvl-2-out>
<intf-bcast-prio-lvl-1-out> <intf-bcast-prio-lvl-2-out> <intf-bcast-adj-count-lvl-1-out>
<intf-bcast-adj-up-count-lvl-1-out> <intf-bcast-adj-count-lvl-2-out> <intf-bcast-adj-up-count-lvl-2-out> } ]
} ] [ { <intf-name-out> <intf-status-out> } ] [ { <intf-state-out> <intf-internal-state-out> [
<intf-cib-disabled-out> ] [ <intf-cid-invalid-out> ] } ] [ { TABLE_auth [ { <intf-auth-info-out> [
<intf-auth-kchain-out> ] <intf-auth-chk-info-out> } ] } ] [ { <intf-ix-out> <intf-cid-out> <intf-ckt-type-out>
} ] [ { TABLE_bfd [ <intf-bfd-ipv4-state-out> ] [ <intf-bfd-ipv6-state-out> ] } ] [ <intf-passive-mask-out> ]
[ <intf-passive-mask-lvl-out> ] [ <intf-mgrp-set-out> ] [ <intf-mgrp-state-out> ] [ <intf-mgrp-id-out> ] [
<intf-p2p-type-out> ] [ { <intf-p2p-ext-local-cid-out> <intf-p2p-cid-out> <intf-retx-intv-out>
<intf-retx-throttle-out> } ] [ <intf-loopback-type-out> ] [ { <intf-lsp-intv-out> <intf-mtu-out> [
<intf-hpad-state-out> ] } ] [ { [ <intf-p2p-pad-ts-out> ] <intf-p2p-adj-count-out> <intf-p2p-adj-up-count-out>
<intf-p2p-prio-out> <intf-p2p-hello-intv-out> <intf-p2p-hello-multi-out> <intf-p2p-hello-next-out> [ {
TABLE_p2p <intf-p2p-lvl-out> <intf-p2p-adj-lvl-out> <intf-p2p-adj-up-lvl-out> <intf-p2p-metric-lvl-out>
<intf-p2p-csnp-lvl-out> <intf-p2p-csnp-nxt-lvl-out> <intf-p2p-lspid-last-lvl-out> } ] } ] [ { <intf-bcast-type-out>
[ { TABLE_bcast_pad [ { <intf-bcast-lvl-out> <intf-bcast-pad-ts-out> } ] } ] [ { TABLE_bcast_dis [ {
<intf-bcast-lvl-dis-out> <intf-bcast-dis-ts-out> } ] } ] [ { TABLE_bcast_pkt <intf-bcast-lvl-info-out>
<intf-bcast-lvl-metric-0-out> <intf-bcast-lvl-metric-2-out> <intf-bcast-lvl-csnp-intv-out>
<intf-bcast-lvl-csnp-next-out> <intf-bcast-lvl-iih-intv-out> <intf-bcast-lvl-iih-multi-out>
<intf-bcast-lvl-iih-next-out> } ] [ { TABLE_bcast_adj <intf-bcast-lvl-value-out> <intf-bcast-lvl-adj-out>
<intf-bcast-lvl-adj-up-out> <intf-bcast-lvl-prio-out> <intf-bcast-lvl-ctid-out> <intf-bcast-lvl-ctid-ts-out>
} ] } ] [ { TABLE_loopback <intf-loopback-lvl-out> <intf-loopback-lvl-metric-out> } ] [ <intf-unknown-out>
} ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
brief	(Optional) Brief display of IS-IS interfaces

interface	Display IS-IS interface information
level-1	(Optional) Display Level-1 interfaces
level-2	(Optional) Display level-2 interfaces
<i>interface</i>	(Optional) IS-IS interface
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_interface	(Optional)
<i>intf-status-out</i>	(Optional)
<i>intf-name-out</i>	(Optional)
<i>intf-ix-out</i>	(Optional)
<i>intf-state-out</i>	(Optional)
<i>intf-cid-out</i>	(Optional)
<i>intf-ckt-type-out</i>	(Optional)
<i>intfb-name-out</i>	(Optional)
<i>intfb-type-out</i>	(Optional)
<i>intfb-ix-out</i>	(Optional)
<i>intfb-state-out</i>	(Optional)
<i>intfb-ready-state-out</i>	(Optional)
<i>intfb-cid-out</i>	(Optional)
<i>intfb-ckt-type-out</i>	(Optional)
<i>intf-p2p-metric-lvl-1-out</i>	(Optional)
<i>intf-p2p-metric-lvl-2-out</i>	(Optional)
<i>intf-p2p-prio-lvl-1-out</i>	(Optional)
<i>intf-p2p-prio-lvl-2-out</i>	(Optional)
<i>intf-p2p-adj-count-lvl-1-out</i>	(Optional)
<i>intf-p2p-adj-count-lvl-2-out</i>	(Optional)

<i>intf-p2p-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-p2p-adj-up-count-lvl-2-out</i>	(Optional)
<i>intf-loopback-metric-lvl-1-out</i>	(Optional)
<i>intf-loopback-metric-lvl-2-out</i>	(Optional)
<i>intf-loopback-prio-lvl-1-out</i>	(Optional)
<i>intf-loopback-prio-lvl-2-out</i>	(Optional)
<i>intf-loopback-adj-count-lvl-1-out</i>	(Optional)
<i>intf-loopback-adj-count-lvl-2-out</i>	(Optional)
<i>intf-loopback-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-loopback-adj-up-count-lvl-2-out</i>	(Optional)
<i>intf-bcast-metric-lvl-1-out</i>	(Optional)
<i>intf-bcast-metric-lvl-2-out</i>	(Optional)
<i>intf-bcast-prio-lvl-1-out</i>	(Optional)
<i>intf-bcast-prio-lvl-2-out</i>	(Optional)
<i>intf-bcast-adj-count-lvl-1-out</i>	(Optional)
<i>intf-bcast-adj-count-lvl-2-out</i>	(Optional)
<i>intf-bcast-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-bcast-adj-up-count-lvl-2-out</i>	(Optional)
<i>intf-internal-state-out</i>	(Optional)
<i>intf-cib-disabled-out</i>	(Optional)
<i>intf-cid-invalid-out</i>	(Optional)
TABLE_auth	(Optional)
<i>intf-auth-info-out</i>	(Optional)
<i>intf-auth-kchain-out</i>	(Optional)
<i>intf-auth-chk-info-out</i>	(Optional)
TABLE_bfd	(Optional)
<i>intf-bfd-ipv4-state-out</i>	(Optional)
<i>intf-bfd-ipv6-state-out</i>	(Optional)
<i>intf-passive-mask-out</i>	(Optional)

<i>intf-passive-mask-lvl-out</i>	(Optional)
<i>intf-mgrp-set-out</i>	(Optional)
<i>intf-mgrp-state-out</i>	(Optional)
<i>intf-mgrp-id-out</i>	(Optional)
<i>intf-p2p-type-out</i>	(Optional)
<i>intf-p2p-ext-local-cid-out</i>	(Optional)
<i>intf-p2p-cid-out</i>	(Optional)
<i>intf-retx-intv-out</i>	(Optional)
<i>intf-retx-throttle-out</i>	(Optional)
<i>intf-loopback-type-out</i>	(Optional)
<i>intf-lsp-intv-out</i>	(Optional)
<i>intf-mtu-out</i>	(Optional)
<i>intfb-mtu-out</i>	(Optional)
<i>intf-hpad-state-out</i>	(Optional)
<i>intf-p2p-pad-ts-out</i>	(Optional)
<i>intf-p2p-adj-count-out</i>	(Optional)
<i>intf-p2p-adj-up-count-out</i>	(Optional)
<i>intf-p2p-prio-out</i>	(Optional)
<i>intf-p2p-hello-intv-out</i>	(Optional)
<i>intf-p2p-hello-multi-out</i>	(Optional)
<i>intf-p2p-hello-next-out</i>	(Optional)
TABLE_p2p	(Optional)
<i>intf-p2p-lvl-out</i>	(Optional)
<i>intf-p2p-adj-lvl-out</i>	(Optional)
<i>intf-p2p-adj-up-lvl-out</i>	(Optional)
<i>intf-p2p-metric-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-nxt-lvl-out</i>	(Optional)
<i>intf-p2p-lspid-last-lvl-out</i>	(Optional)

<i>intf-bcast-type-out</i>	(Optional)
TABLE_bcast_pad	(Optional)
<i>intf-bcast-lvl-out</i>	(Optional)
<i>intf-bcast-pad-ts-out</i>	(Optional)
TABLE_bcast_dis	(Optional)
<i>intf-bcast-lvl-dis-out</i>	(Optional)
<i>intf-bcast-dis-ts-out</i>	(Optional)
TABLE_bcast_pkt	(Optional)
<i>intf-bcast-lvl-info-out</i>	(Optional)
<i>intf-bcast-lvl-metric-0-out</i>	(Optional)
<i>intf-bcast-lvl-metric-2-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-intv-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-next-out</i>	(Optional)
<i>intf-bcast-lvl-iih-intv-out</i>	(Optional)
<i>intf-bcast-lvl-iih-multi-out</i>	(Optional)
<i>intf-bcast-lvl-iih-next-out</i>	(Optional)
TABLE_bcast_adj	(Optional)
<i>intf-bcast-lvl-value-out</i>	(Optional)
<i>intf-bcast-lvl-adj-out</i>	(Optional)
<i>intf-bcast-lvl-adj-up-out</i>	(Optional)
<i>intf-bcast-lvl-prio-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-ts-out</i>	(Optional)
TABLE_loopback	(Optional)
<i>intf-loopback-lvl-out</i>	(Optional)
<i>intf-loopback-lvl-metric-out</i>	(Optional)
<i>intf-unknown-out</i>	(Optional)

Command Mode

- /exec

show isis ipv6 redistribute route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 redistribute route [ summary |
<ipv6-addr> | <ipv6-prefix> [ longer-prefixes [ summary ] ] ] [ direct-mask ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <redist-route-ipv6-vrf>
[ <redist-route-ipv6-af-ix> ] [ { TABLE_one_route <redist-route-ipv6-prefix> [ <redist-route-ipv6-mask-len>
] [ <redist-route-ipv6-pib-name> ] [ <redist-route-ipv6-direct-mask> ] [ <redist-route-ipv6-route-type> ] [ {
TABLE_redist <redist-route-ipv6-status> <redist-route-ipv6-level> [ <redist-route-ipv6-metric> ] [
<redist-route-ipv6-sum-addr-prefix> ] [ <redist-route-ipv6-sum-addr-mask-len> ] } ] } ] [
<redist-route-ipv6-summary-addr-prefix> ] [ <redist-route-ipv6-summary-addr-mask-len> ] [
<redist-route-ipv6-summary-route-total> ] [ { TABLE_protocol <redist-route-ipv6-summary-pib-name> [
<redist-route-ipv6-summary-prot-route-total> ] } ] [ <redist-route-ipv6-summary-pending-total> ] [ {
TABLE_mask_len <redist-route-ipv6-summary-mask-len-ix> [ <redist-route-ipv6-summary-mask-len> ] }
] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ipv6	Display IS-IS IPv6 information
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
direct-mask	(Optional) Display routes with direct-mask set
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>redist-route-ipv6-vrf</i>	(Optional)
<i>redist-route-ipv6-af-ix</i>	(Optional)
TABLE_one_route	(Optional)

<i>redist-route-ipv6-prefix</i>	(Optional)
<i>redist-route-ipv6-mask-len</i>	(Optional)
<i>redist-route-ipv6-pib-name</i>	(Optional)
<i>redist-route-ipv6-direct-mask</i>	(Optional)
<i>redist-route-ipv6-route-type</i>	(Optional)
TABLE_redist	(Optional)
<i>redist-route-ipv6-status</i>	(Optional)
<i>redist-route-ipv6-level</i>	(Optional)
<i>redist-route-ipv6-metric</i>	(Optional)
<i>redist-route-ipv6-sum-addr-prefix</i>	(Optional)
<i>redist-route-ipv6-sum-addr-mask-len</i>	(Optional)
<i>redist-route-ipv6-summary-addr-prefix</i>	(Optional)
<i>redist-route-ipv6-summary-addr-mask-len</i>	(Optional)
<i>redist-route-ipv6-summary-route-total</i>	(Optional)
TABLE_protocol	(Optional)
<i>redist-route-ipv6-summary-pib-name</i>	(Optional)
<i>redist-route-ipv6-summary-prot-route-total</i>	(Optional)
<i>redist-route-ipv6-summary-pending-total</i>	(Optional)
TABLE_mask_len	(Optional)
<i>redist-route-ipv6-summary-mask-len-ix</i>	(Optional)
<i>redist-route-ipv6-summary-mask-len</i>	(Optional)

Command Mode

- /exec

show isis ipv6 route-map statistics

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 route-map statistics { { redistribute
{ static | direct | amt | bgp <as> | { <src-isis> | eigrp | ospfv3 | rip } <tag> } } | { distribute <src-level> into
<dst-level> } } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag [
<process-tag-out> ] [ <route-map-stat-vrf> ] [ { TABLE_process_route_map [ <name> ] [ <action> ] [ <seq>
] [ { TABLE_cmd [ <str> ] [ <compare-count> ] [ <match-count> } ] ] <accept-count> <reject-count> } ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv6	Display IS-IS IPv6 information
route-map	Display IS-IS route-map information
statistics	Display IS-IS route-map statistics
redistribute	Redistribute information from another routing protocol
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
eigrp	Enhanced Interior Gateway Protocol
src-isis	IS-IS Routing for IPv6
ospfv3	Open Shortest Path First (OSPF) V3
rip	RIP for IPv6 (RIPNG)
<i>tag</i>	Process tag
distribute	Distribute routes between ISIS levels
into	from level-n into level-m

<i>src-level</i>	Route-distribution between levels
<i>dst-level</i>	Route-distribution between levels
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>route-map-stat-vrf</i>	(Optional)
TABLE_process_route_map	(Optional) Routemap table
<i>name</i>	(Optional) Route-map Name
<i>action</i>	(Optional) Route-map action
<i>seq</i>	(Optional) Sequence number of the rule in route-map
TABLE_cmd	(Optional) Route-map command table
<i>str</i>	(Optional) Route-map command
<i>compare-count</i>	(Optional) Number of comparisons
<i>match-count</i>	(Optional) Number of matches
<i>accept-count</i>	(Optional) Total number of packets accepted by the policy
<i>reject-count</i>	(Optional) Total number of packets rejected by the policy

Command Mode

- /exec

show isis ipv6 route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 route [ topology { [ base ] |
mt-ipv6 } ] [ summary | detail | <ipv6-addr> [ detail ] | <ipv6-prefix> [ detail | longer-prefixes [ summary |
detail ] ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag
<process-tag-out> { TABLE_vrf <vrf-name-out> <afi-safi-out> [ TABLE_prefix [ <route-prefix-out>
<route-mask-len-out> <route-level-out> ] [ <route-summ-discard-addr-out>
<route-summ-discard-mask-len-out> ] [ <route-discard-addr-out> <route-discard-mask-len-out> ] [
<route-addr-print-out> <route-mask-len-print-out> <route-direct-print-out> ] [ TABLE_direct_path [
<route-direct-out> <route-direct-via-out> <route-direct-if-name-out> <route-direct-metric-out>
<route-direct-level-out> ] [ <route-direct-instance-out> ] ] [ TABLE_best_path [ <route-no-def-prefix-out>
] [ <route-def-prefix-out> ] <route-addr-valid-out> <route-marker-out> <route-ifname-out> <route-metric-out>
<route-pref-out> [ <route-instance-out> ] ] [ <route-discard-mask-out> ] [ [ <route-sum-prefix-out>
<route-sum-prefix-len-out> ] <route-total-out> <route-paths-total-out> <route-paths-best-out>
<route-paths-backup-out> [ TABLE_sum_best_route <route-sum-lvl-out> <route-sum-total-out> [
<route-sum-direct-out> ] [ <route-sum-normal-out> ] [ <route-sum-missing-out> ] ] [
<route-best-pend-num-out> ] <route-bestpaths-out> [ TABLE_sum_best_path <route-path-sum-lvl-out>
<route-path-sum-total-out> [ <route-path-sum-direct-out> ] [ <route-path-sum-normal-out> ] ]
<route-backuppaths-out> [ TABLE_sum_backup_path <backup-path-sum-lvl-out> <backup-path-sum-total-out>
[ <backup-path-sum-direct-out> ] [ <backup-path-sum-normal-out> ] ] <route-bestroutes-per-mask-out> [
TABLE_best_mask <route-best-mask-val-out> <route-best-mask-count-out> ] [ <route-pend-q-count-out> ]
] ] ] ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv6	Display IS-IS IPv6 information
route	Display IS-IS route information
topology	(Optional) Display routes for a topology
base	(Optional) Display routes for BASE topology
mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts

detail	(Optional) Display detail route information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
TABLE_prefix	(Optional)
<i>route-prefix-out</i>	(Optional)
<i>route-mask-len-out</i>	(Optional)
<i>route-level-out</i>	(Optional)
<i>route-summ-discard-addr-out</i>	(Optional)
<i>route-summ-discard-mask-len-out</i>	(Optional)
<i>route-discard-addr-out</i>	(Optional)
<i>route-discard-mask-len-out</i>	(Optional)
<i>route-addr-print-out</i>	(Optional)
<i>route-mask-len-print-out</i>	(Optional)
<i>route-direct-print-out</i>	(Optional)
TABLE_direct_path	(Optional)
<i>route-direct-out</i>	(Optional)
<i>route-direct-via-out</i>	(Optional)
<i>route-direct-if-name-out</i>	(Optional)
<i>route-direct-metric-out</i>	(Optional)
<i>route-direct-level-out</i>	(Optional)
<i>route-direct-instance-out</i>	(Optional)
TABLE_best_path	(Optional)
<i>route-no-def-prefix-out</i>	(Optional)
<i>route-def-prefix-out</i>	(Optional)
<i>route-addr-valid-out</i>	(Optional)

<i>route-marker-out</i>	(Optional)
<i>route-ifname-out</i>	(Optional)
<i>route-metric-out</i>	(Optional)
<i>route-pref-out</i>	(Optional)
<i>route-instance-out</i>	(Optional)
<i>route-discard-mask-out</i>	(Optional)
<i>route-sum-prefix-out</i>	(Optional)
<i>route-sum-prefix-len-out</i>	(Optional)
<i>route-total-out</i>	(Optional)
<i>route-paths-total-out</i>	(Optional)
<i>route-paths-best-out</i>	(Optional)
<i>route-paths-backup-out</i>	(Optional)
TABLE_sum_best_route	(Optional)
<i>route-sum-lvl-out</i>	(Optional)
<i>route-sum-total-out</i>	(Optional)
<i>route-sum-direct-out</i>	(Optional)
<i>route-sum-normal-out</i>	(Optional)
<i>route-sum-missing-out</i>	(Optional)
<i>route-best-pend-num-out</i>	(Optional)
<i>route-bestpaths-out</i>	(Optional)
TABLE_sum_best_path	(Optional)
<i>route-path-sum-lvl-out</i>	(Optional)
<i>route-path-sum-total-out</i>	(Optional)
<i>route-path-sum-direct-out</i>	(Optional)
<i>route-path-sum-normal-out</i>	(Optional)
<i>route-backuppaths-out</i>	(Optional)
TABLE_sum_backup_path	(Optional)
<i>backup-path-sum-lvl-out</i>	(Optional)
<i>backup-path-sum-total-out</i>	(Optional)

<i>backup-path-sum-direct-out</i>	(Optional)
<i>backup-path-sum-normal-out</i>	(Optional)
<i>route-bestroutes-per-mask-out</i>	(Optional)
TABLE_best_mask	(Optional)
<i>route-best-mask-val-out</i>	(Optional)
<i>route-best-mask-count-out</i>	(Optional)
<i>route-pend-q-count-out</i>	(Optional)

Command Mode

- /exec

show isis lsp free-list

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] { non-pseudonode | pseudonode {
<interface> | orphan } } lsp free-list [ summary ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
non-pseudonode	Display IS-IS non-pseudo-node information
pseudonode	Display IS-IS pseudo-node information
<i>interface</i>	IS-IS interface
orphan	Display orphan LSP information
lsp	Display IS-IS LSP information
free-list	Display free-list information
summary	(Optional) Display LSP count per free-list

Command Mode

- /exec

show isis mesh-group

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] mesh-group [ <mesh-id> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf <vrf-name-out>
<mesh-id-set-out> <mesh-id-out> <mesh-set-id-out> <mesh-id-intf-name-out> <mesh-id-none-out> ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mesh-group	Display IS-IS mesh-groups
<i>mesh-id</i>	(Optional) Display a single mesh-group
__readonly__	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>mesh-id-set-out</i>	(Optional)
<i>mesh-id-out</i>	(Optional)
<i>mesh-set-id-out</i>	(Optional)
<i>mesh-id-intf-name-out</i>	(Optional)
<i>mesh-id-none-out</i>	(Optional)

Command Mode

- /exec

show isis non tlv overflow-list

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] { non-pseudonode | pseudonode
<interface> } tlv overflow-list [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
non-pseudonode	Display IS-IS non-pseudo-node information
pseudonode	Display IS-IS pseudo-node information
<i>interface</i>	IS-IS interface
tlv	Display IS-IS TLV information
overflow-list	Display ISIS TLV overflow-list information

Command Mode

- /exec

show isis redistribute route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] redistribute route [ summary |
<ip-addr> | <ip-prefix> [ longer-prefixes [ summary ] ] ] [ direct-mask ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <redist-route-vrf> [ <redist-route-af-ix> ] [
{ TABLE_one_route <redist-route-prefix> [ <redist-route-mask-len> ] [ <redist-route-pib-name> ] [
<redist-route-direct-mask> ] [ <redist-route-route-type> ] [ { TABLE_redist <redist-route-status>
<redist-route-level> [ <redist-route-metric> ] [ <redist-route-sum-addr-prefix> ] [
<redist-route-sum-addr-mask-len> ] } ] [ <redist-route-summary-addr-prefix> ] [
<redist-route-summary-addr-mask-len> ] [ <redist-route-summary-route-total> ] [ { TABLE_protocol
<redist-route-summary-pib-name> [ <redist-route-summary-prot-route-total> } ] ] [
<redist-route-summary-pending-total> ] [ { TABLE_mask_len <redist-route-summary-mask-len-ix> [
<redist-route-summary-mask-len> ] } ] ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ip	(Optional) Display IS-IS IPv4 information
<i>ip-addr</i>	(Optional) Display single IP redistribute route
<i>ip-prefix</i>	(Optional) Display single exact match IP redistribute route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
direct-mask	(Optional) Display routes with direct-mask set
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>redist-route-vrf</i>	(Optional)

<i>redist-route-af-ix</i>	(Optional)
TABLE_one_route	(Optional)
<i>redist-route-prefix</i>	(Optional)
<i>redist-route-mask-len</i>	(Optional)
<i>redist-route-pib-name</i>	(Optional)
<i>redist-route-direct-mask</i>	(Optional)
<i>redist-route-route-type</i>	(Optional)
TABLE_redist	(Optional)
<i>redist-route-status</i>	(Optional)
<i>redist-route-level</i>	(Optional)
<i>redist-route-metric</i>	(Optional)
<i>redist-route-sum-addr-prefix</i>	(Optional)
<i>redist-route-sum-addr-mask-len</i>	(Optional)
<i>redist-route-summary-addr-prefix</i>	(Optional)
<i>redist-route-summary-addr-mask-len</i>	(Optional)
<i>redist-route-summary-route-total</i>	(Optional)
TABLE_protocol	(Optional)
<i>redist-route-summary-pib-name</i>	(Optional)
<i>redist-route-summary-prot-route-total</i>	(Optional)
<i>redist-route-summary-pending-total</i>	(Optional)
TABLE_mask_len	(Optional)
<i>redist-route-summary-mask-len-ix</i>	(Optional)
<i>redist-route-summary-mask-len</i>	(Optional)

Command Mode

- /exec

show isis route-map statistics

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] route-map statistics { { redistribute
{ static | direct | amt | bgp <as> | { <src-isis> | eigrp | ospf | rip } <tag> } } | { distribute <src-level> into
<dst-level> } } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag
<process-tag-out> { TABLE_vrf <route-map-stat-vrf> [ { TABLE_process_route_map [ <name> ] [ <action>
] [ <seq> ] [ { TABLE_cmd [ <str> ] [ <compare-count> ] [ <match-count> ] } ] <accept-count> <reject-count>
} } } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
route-map	Display IS-IS route-map information
statistics	Display IS-IS route-map statistics
redistribute	Redistribute information from another routing protocol
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
eigrp	Enhanced Interior Gateway Protocol
src-isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
rip	RIP for IPv4
<i>tag</i>	Process tag
distribute	Distribute routes between ISIS levels

<i>into</i>	from level-n into level-m
<i>src-level</i>	Route-distribution between levels
<i>dst-level</i>	Route-distribution between levels
<i>__readonly__</i>	(Optional)
<i>TABLE_process_tag</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>route-map-stat-vrf</i>	(Optional)
<i>TABLE_process_route_map</i>	(Optional) Routemap table
<i>name</i>	(Optional) Route-map Name
<i>action</i>	(Optional) Route-map action
<i>seq</i>	(Optional) Sequence number of the rule in route-map
<i>TABLE_cmd</i>	(Optional) Route-map command table
<i>str</i>	(Optional) Route-map command
<i>compare-count</i>	(Optional) Number of comparisons
<i>match-count</i>	(Optional) Number of matches
<i>accept-count</i>	(Optional) Total number of packets accepted by the policy
<i>reject-count</i>	(Optional) Total number of packets rejected by the policy

Command Mode

- /exec

show isis route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] route [ summary | detail | <ip-addr>
[ detail ] | <ip-prefix> [ detail | longer-prefixes [ summary | detail ] ] ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <afi-safi-out>
[ TABLE_prefix [ <route-prefix-out> <route-mask-len-out> <route-level-out> ] [
<route-summ-discard-addr-out> <route-summ-discard-mask-len-out> ] [ <route-discard-addr-out>
<route-discard-mask-len-out> ] [ <route-addr-print-out> <route-mask-len-print-out> <route-direct-print-out>
] [ TABLE_direct_path [ <route-direct-out> <route-direct-via-out> <route-direct-if-name-out>
<route-direct-metric-out> <route-direct-level-out> ] [ <route-direct-instance-out> ] ] [ TABLE_best_path [
<route-no-def-prefix-out> ] [ <route-def-prefix-out> ] <route-addr-valid-out> <route-marker-out>
<route-ifname-out> <route-metric-out> <route-pref-out> [ <route-instance-out> ] ] [ <route-discard-mask-out>
] [ [ <route-sum-prefix-out> <route-sum-prefix-len-out> ] <route-total-out> <route-paths-total-out>
<route-paths-best-out> <route-paths-backup-out> [ TABLE_sum_best_route <route-sum-lvl-out>
<route-sum-total-out> [ <route-sum-direct-out> ] [ <route-sum-normal-out> ] [ <route-sum-missing-out> ] ]
[ <route-best-pend-num-out> ] <route-bestpaths-out> [ TABLE_sum_best_path <route-path-sum-lvl-out>
<route-path-sum-total-out> [ <route-path-sum-direct-out> ] [ <route-path-sum-normal-out> ] ]
<route-backuppaths-out> [ TABLE_sum_backup_path <backup-path-sum-lvl-out> <backup-path-sum-total-out>
[ <backup-path-sum-direct-out> ] [ <backup-path-sum-normal-out> ] ] <route-bestroutes-per-mask-out> [
TABLE_best_mask <route-best-mask-val-out> <route-best-mask-count-out> ] [ <route-pend-q-count-out> ]
] ] ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
route	Display IS-IS route information
<i>ip-addr</i>	(Optional) Display single IP route
<i>ip-prefix</i>	(Optional) Display single exact match IP route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
detail	(Optional) Display detail route information
<i>__readonly__</i>	(Optional)

TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
TABLE_prefix	(Optional)
<i>route-prefix-out</i>	(Optional)
<i>route-mask-len-out</i>	(Optional)
<i>route-level-out</i>	(Optional)
<i>route-summ-discard-addr-out</i>	(Optional)
<i>route-summ-discard-mask-len-out</i>	(Optional)
<i>route-discard-addr-out</i>	(Optional)
<i>route-discard-mask-len-out</i>	(Optional)
<i>route-addr-print-out</i>	(Optional)
<i>route-mask-len-print-out</i>	(Optional)
<i>route-direct-print-out</i>	(Optional)
TABLE_direct_path	(Optional)
<i>route-direct-out</i>	(Optional)
<i>route-direct-via-out</i>	(Optional)
<i>route-direct-if-name-out</i>	(Optional)
<i>route-direct-metric-out</i>	(Optional)
<i>route-direct-level-out</i>	(Optional)
<i>route-direct-instance-out</i>	(Optional)
TABLE_best_path	(Optional)
<i>route-no-def-prefix-out</i>	(Optional)
<i>route-def-prefix-out</i>	(Optional)
<i>route-addr-valid-out</i>	(Optional)
<i>route-marker-out</i>	(Optional)
<i>route-ifname-out</i>	(Optional)

<i>route-metric-out</i>	(Optional)
<i>route-pref-out</i>	(Optional)
<i>route-instance-out</i>	(Optional)
<i>route-discard-mask-out</i>	(Optional)
<i>route-sum-prefix-out</i>	(Optional)
<i>route-sum-prefix-len-out</i>	(Optional)
<i>route-total-out</i>	(Optional)
<i>route-paths-total-out</i>	(Optional)
<i>route-paths-best-out</i>	(Optional)
<i>route-paths-backup-out</i>	(Optional)
TABLE_sum_best_route	(Optional)
<i>route-sum-lvl-out</i>	(Optional)
<i>route-sum-total-out</i>	(Optional)
<i>route-sum-direct-out</i>	(Optional)
<i>route-sum-normal-out</i>	(Optional)
<i>route-sum-missing-out</i>	(Optional)
<i>route-best-pend-num-out</i>	(Optional)
<i>route-bestpaths-out</i>	(Optional)
TABLE_sum_best_path	(Optional)
<i>route-path-sum-lvl-out</i>	(Optional)
<i>route-path-sum-total-out</i>	(Optional)
<i>route-path-sum-direct-out</i>	(Optional)
<i>route-path-sum-normal-out</i>	(Optional)
<i>route-backuppaths-out</i>	(Optional)
TABLE_sum_backup_path	(Optional)
<i>backup-path-sum-lvl-out</i>	(Optional)
<i>backup-path-sum-total-out</i>	(Optional)
<i>backup-path-sum-direct-out</i>	(Optional)
<i>backup-path-sum-normal-out</i>	(Optional)

<i>route-bestroutes-per-mask-out</i>	(Optional)
TABLE_best_mask	(Optional)
<i>route-best-mask-val-out</i>	(Optional)
<i>route-best-mask-count-out</i>	(Optional)
<i>route-pend-q-count-out</i>	(Optional)

Command Mode

- /exec

show isis route is

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] route is [ topology { [ base ] | mt-ipv6 } ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Display IS-IS route information
is	Display IS route
topology	(Optional) Display routes for a topology
base	(Optional) Display routes for BASE topology
mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology

Command Mode

- /exec

show isis rrm

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] rrm <interface> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <rrm-if-name> [ { TABLE_rrm <rrm-level> <rrm-retx-interval> <rrm-retx-throttle-interval> <rrm-retx-queue-length> <rrm-next-retx> <rrm-retx-queue-hwm> <rrm-retx-queue-exceed> <rrm-dbase-hdr> [ <rrm-timestamp> ] [ <rrm-lsp-retx-instance> ] [ <rrm-lsp-db-instance> ] [ <rrm-rrm-set> ] [ <rrm-srm-set> ] } } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
rrm	Display IS-IS Retransmit-Routing-Message information
<i>interface</i>	IS-IS interface
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>rrm-if-name</i>	(Optional)
TABLE_rrm	(Optional)
<i>rrm-level</i>	(Optional)
<i>rrm-retx-interval</i>	(Optional)
<i>rrm-retx-throttle-interval</i>	(Optional)
<i>rrm-retx-queue-length</i>	(Optional)
<i>rrm-next-retx</i>	(Optional)
<i>rrm-retx-queue-hwm</i>	(Optional)
<i>rrm-retx-queue-exceed</i>	(Optional)
<i>rrm-dbase-hdr</i>	(Optional)
<i>rrm-timestamp</i>	(Optional)

<i>rrm-lsp-retx-instance</i>	(Optional)
<i>rrm-lsp-db-instance</i>	(Optional)
<i>rrm-rrm-set</i>	(Optional)
<i>rrm-srm-set</i>	(Optional)

Command Mode

- /exec

show isis spf-adjacency

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] spf-adjacency [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <spf-adjacency-vrf> [
<spf-adjacency-system-name> ] [ <spf-adjacency-refcount> ] [ <spf-adjacency-if-name> ] [
<spf-adjacency-rib-addr> ] [ <spf-adjacency-rib-addr-valid> ] [ <spf-adjacency-rib-ipv6-addr> ] [
<spf-adjacency-rib-ipv6-addr-valid> ] [ <spf-adjacency-spf-addr> ] [ <spf-adjacency-spf-ipv6-addr> ] [ {
TABLE_SPFADJLEVEL <spf-adjacency-level> } ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
spf-adjacency	Display IS-IS SPF adjacency information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>spf-adjacency-vrf</i>	(Optional)
<i>spf-adjacency-system-name</i>	(Optional)
<i>spf-adjacency-refcount</i>	(Optional)
<i>spf-adjacency-if-name</i>	(Optional)
<i>spf-adjacency-rib-addr</i>	(Optional)
<i>spf-adjacency-rib-addr-valid</i>	(Optional)
<i>spf-adjacency-rib-ipv6-addr</i>	(Optional)
<i>spf-adjacency-rib-ipv6-addr-valid</i>	(Optional)
<i>spf-adjacency-spf-addr</i>	(Optional)
<i>spf-adjacency-spf-ipv6-addr</i>	(Optional)
TABLE_SPFADJLEVEL	(Optional)

<i>spf-adjacency-level</i>	(Optional)
----------------------------	------------

Command Mode

- /exec

show isis spf-log

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] spf-log [ detail ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf <vrf-name-out> <spflog-calc-out>
<spflog-size-out> <spflog-maxsize-out> <spflog-ago-time-out> <spflog-lvl-out> <spflog-reason-out>
<spflog-count-out> <spflog-elapsed-ts-out> <spflog-log-num-out> <spflog-ts-detail-out>
<spflog-date-detail-out> <spflog-lvl-detail-out> <spflog-instance-detail-out> <spflog-init-ts-detail-out>
<spflog-spf-ts-detail-out> <spflog-detail-ts-is-out> <spflog-detail-ts-urib-out> <spflog-detail-ts-elapsed-out>
<spflog-detail-lvl-out> <spflog-detail-spf-cnt-out> <spflog-detail-sync-cnt-out> <spflog-detail-spf-reason-out>
]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
spf-log	Display IS-IS SPF information
detail	(Optional) Display detail ISIS SPF information
__readonly__	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>spflog-calc-out</i>	(Optional)
<i>spflog-size-out</i>	(Optional)
<i>spflog-maxsize-out</i>	(Optional)
<i>spflog-ago-time-out</i>	(Optional)
<i>spflog-lvl-out</i>	(Optional)
<i>spflog-reason-out</i>	(Optional)
<i>spflog-count-out</i>	(Optional)
<i>spflog-elapsed-ts-out</i>	(Optional)

<i>spflog-log-num-out</i>	(Optional)
<i>spflog-ts-detail-out</i>	(Optional)
<i>spflog-date-detail-out</i>	(Optional)
<i>spflog-lvl-detail-out</i>	(Optional)
<i>spflog-instance-detail-out</i>	(Optional)
<i>spflog-init-ts-detail-out</i>	(Optional)
<i>spflog-spf-ts-detail-out</i>	(Optional)
<i>spflog-detail-ts-is-out</i>	(Optional)
<i>spflog-detail-ts-urib-out</i>	(Optional)
<i>spflog-detail-ts-elapsed-out</i>	(Optional)
<i>spflog-detail-lvl-out</i>	(Optional)
<i>spflog-detail-spf-cnt-out</i>	(Optional)
<i>spflog-detail-sync-cnt-out</i>	(Optional)
<i>spflog-detail-spf-reason-out</i>	(Optional)

Command Mode

- /exec

show isis srm

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] srm <interface> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <srm-if-name> [ { TABLE_srm <srm-level> <srm-if-eligible> <srm-if-not-on-srm-list> <srm-lsp-interval> <srm-next-lsp> <srm-dbase-hdr> } } ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
srm	Display IS-IS Send-Routing-Message information
<i>interface</i>	IS-IS interface
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>srm-if-name</i>	(Optional)
TABLE_srm	(Optional)
<i>srm-level</i>	(Optional)
<i>srm-if-eligible</i>	(Optional)
<i>srm-if-not-on-srm-list</i>	(Optional)
<i>srm-lsp-interval</i>	(Optional)
<i>srm-next-lsp</i>	(Optional)
<i>srm-dbase-hdr</i>	(Optional)

Command Mode

- /exec

show isis ssn

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ssn <interface> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <snn-if-name> [ { TABLE_ssn <snn-level> <snn-psnp-eligible> <snn-next-psnp> <snn-dbase_hdr> } ] } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ssn	Display IS-IS Send-Sequence-Number information
<i>interface</i>	IS-IS interface
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>snn-if-name</i>	(Optional)
TABLE_ssn	(Optional)
<i>snn-level</i>	(Optional)
<i>snn-psnp-eligible</i>	(Optional)
<i>snn-next-psnp</i>	(Optional)
<i>snn-dbase_hdr</i>	(Optional)

Command Mode

- /exec

show isis statistics

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics [ <interface> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf <vrf-name-out> <stat-if-out>
<stat-if-name-out> <stat-spf-calc-out> <stat-lsp-sourced-out> <stat-lsp-refresh-out> <stat-lsp-purge-out>
<stat-dis-elections-out> ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Display IS-IS protocol statistics
<i>interface</i>	(Optional) IS-IS interface
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>stat-if-out</i>	(Optional)
<i>stat-if-name-out</i>	(Optional)
<i>stat-spf-calc-out</i>	(Optional)
<i>stat-lsp-sourced-out</i>	(Optional)
<i>stat-lsp-refresh-out</i>	(Optional)
<i>stat-lsp-purge-out</i>	(Optional)
<i>stat-dis-elections-out</i>	(Optional)

Command Mode

- /exec

show isis summary-address show isis ipv6 summary-address

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] summary-address [ <ip-addr> |
<ip-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] | show isis [ <isis-tag> ] [
vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 summary-address [ <ipv6-addr> | <ipv6-prefix> [
longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf
<vrf-name-out> <afi-safi-out> <addr-absent-out> <addr-prefix-out> <addr-mask-len-out> <addr-level-out>
<addr-num-out> <addr-lvl-out> <addr-metric-absent-out> <addr-metric-out> <addr-route-count-out> ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
ipv6	Display IS-IS IPv6 information
summary-address	Display IS-IS summary address
<i>ip-addr</i>	(Optional) Display single IP summary address
<i>ip-prefix</i>	(Optional) Display single exact match IP summary address
longer-prefixes	(Optional) Display exact match and more specific summary address
<i>isis-tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
<i>addr-absent-out</i>	(Optional)
<i>addr-prefix-out</i>	(Optional)
<i>addr-mask-len-out</i>	(Optional)

show isis summary-address show isis ipv6 summary-address

<i>addr-level-out</i>	(Optional)
<i>addr-num-out</i>	(Optional)
<i>addr-lvl-out</i>	(Optional)
<i>addr-metric-absent-out</i>	(Optional)
<i>addr-metric-out</i>	(Optional)
<i>addr-route-count-out</i>	(Optional)

Command Mode

- /exec

show isis topology

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] topology [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <topology-vrf> [ {
TABLE_LEVEL <topology-level> [ { TABLE_ONE_ROUTE <topology-one-route-node-name> [
<topology-one-route-spf-instance> ] [ <topology-one-route-on-path> ] [ <topology-one-route-mt-id> ] [ {
TABLE_ONE_ROUTE_NH <topology-one-route-nh-system-name> [ <topology-one-route-nh-if-name> ] [
<topology-one-route-nh-metric> ] } ] [ { TABLE_ONE_ROUTE_MBEST
<topology-one-route-mbest-system-name> [ <topology-one-route-mbest-if-name> ] [
<topology-one-route-mbest-metric> ] } ] } ] [ <topology-default-spf-instance> ] [ { TABLE_NH
<topology-nh-system-name> [ <topology-nh-if-name> ] [ <topology-nh-metric> ] } ] [ { TABLE_MBEST
<topology-mbest-system-name> [ <topology-mbest-if-name> ] [ <topology-mbest-metric> ] } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
topology	Display IS-IS Topology information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>topology-vrf</i>	(Optional)
TABLE_LEVEL	(Optional)
<i>topology-level</i>	(Optional)
TABLE_ONE_ROUTE	(Optional)
<i>topology-one-route-node-name</i>	(Optional)
<i>topology-one-route-spf-instance</i>	(Optional)
<i>topology-one-route-on-path</i>	(Optional)
<i>topology-one-route-mt-id</i>	(Optional)
TABLE_ONE_ROUTE_NH	(Optional)

<i>topology-one-route-nh-system-name</i>	(Optional)
<i>topology-one-route-nh-if-name</i>	(Optional)
<i>topology-one-route-nh-metric</i>	(Optional)
TABLE_ONE_ROUTE_MBEST	(Optional)
<i>topology-one-route-mbest-system-name</i>	(Optional)
<i>topology-one-route-mbest-if-name</i>	(Optional)
<i>topology-one-route-mbest-metric</i>	(Optional)
<i>topology-default-spf-instance</i>	(Optional)
TABLE_NH	(Optional)
<i>topology-nh-system-name</i>	(Optional)
<i>topology-nh-if-name</i>	(Optional)
<i>topology-nh-metric</i>	(Optional)
TABLE_MBEST	(Optional)
<i>topology-mbest-system-name</i>	(Optional)
<i>topology-mbest-if-name</i>	(Optional)
<i>topology-mbest-metric</i>	(Optional)

Command Mode

- /exec

show isis traffic

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> ] [ mbuf-priority
] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out>
{ TABLE_vrf <vrf-name-out> <traffic-if-out> [ <traffic-if-name-out> ] <traffic-lan-iih-out>
<traffic-lan-iih-rcv-out> <traffic-lan-iih-xmit-out> <traffic-lan-iih-rcv-auth-err-out> <traffic-lan-iih-rcv-err-out>
<traffic-p2p-iih-out> <traffic-p2p-iih-rcv-out> <traffic-p2p-iih-xmit-out> <traffic-p2p-iih-rcv-auth-err-out>
<traffic-p2p-iih-rcv-err-out> <traffic-csnp-out> <traffic-csnp-rcv-out> <traffic-csnp-xmit-out>
<traffic-csnp-rcv-auth-err-out> <traffic-csnp-rcv-err-out> <traffic-psnp-out> <traffic-psnp-rcv-out>
<traffic-psnp-xmit-out> <traffic-psnp-rcv-auth-err-out> <traffic-psnp-rcv-err-out> <traffic-lsp-out>
<traffic-lsp-rcv-out> <traffic-lsp-flood-out> <traffic-lsp-rcv-auth-err-out> <traffic-lsp-rcv-err-out>
<traffic-lsp-rexmit-out> [ <traffic-xmit-err-out> ] [ <traffic-unknown-pdu-rcv-out> } } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Display IS-IS traffic information
<i>interface</i>	(Optional) IS-IS interface
mbuf-priority	(Optional) Display mbuf priorities for received PDUs
<u>__readonly__</u>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>traffic-if-out</i>	(Optional)
<i>traffic-if-name-out</i>	(Optional)
<i>traffic-lan-iih-out</i>	(Optional)
<i>traffic-lan-iih-rcv-out</i>	(Optional)
<i>traffic-lan-iih-xmit-out</i>	(Optional)

<i>traffic-lan-iih-rcv-auth-err-out</i>	(Optional)
<i>traffic-lan-iih-rcv-err-out</i>	(Optional)
<i>traffic-p2p-iih-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-out</i>	(Optional)
<i>traffic-p2p-iih-xmit-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-auth-err-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-err-out</i>	(Optional)
<i>traffic-csnp-out</i>	(Optional)
<i>traffic-csnp-rcv-out</i>	(Optional)
<i>traffic-csnp-xmit-out</i>	(Optional)
<i>traffic-csnp-rcv-auth-err-out</i>	(Optional)
<i>traffic-csnp-rcv-err-out</i>	(Optional)
<i>traffic-psnp-out</i>	(Optional)
<i>traffic-psnp-rcv-out</i>	(Optional)
<i>traffic-psnp-xmit-out</i>	(Optional)
<i>traffic-psnp-rcv-auth-err-out</i>	(Optional)
<i>traffic-psnp-rcv-err-out</i>	(Optional)
<i>traffic-lsp-out</i>	(Optional)
<i>traffic-lsp-rcv-out</i>	(Optional)
<i>traffic-lsp-flood-out</i>	(Optional)
<i>traffic-lsp-rcv-auth-err-out</i>	(Optional)
<i>traffic-lsp-rcv-err-out</i>	(Optional)
<i>traffic-lsp-rexmit-out</i>	(Optional)
<i>traffic-xmit-err-out</i>	(Optional)
<i>traffic-unknown-pdu-rcv-out</i>	(Optional)

Command Mode

- /exec

TABLE_device	(Optional)
<i>device_grp</i>	(Optional) service device group
TABLE_route_map	(Optional)
<i>route_map</i>	(Optional) service route map
<i>interface</i>	(Optional) interface
<i>r_status</i>	(Optional) route map status
<i>int_track_id</i>	(Optional) interface track id
TABLE_vip	(Optional)
<i>vip_ip</i>	(Optional) vip ip
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
TABLE_vip_node	(Optional)
<i>vip_node</i>	(Optional) service node ip
<i>vip_nodev6</i>	(Optional) service node IPv6
<i>vip_config</i>	(Optional) node config
<i>vip_weight</i>	(Optional) node weight
<i>vip_status</i>	(Optional) node status
<i>vip_track_id</i>	(Optional) node track id
<i>vip_ip_sla_id</i>	(Optional) node ip sla id
TABLE_vip_acl	(Optional)
<i>vip_access_list</i>	(Optional) access list
TABLE_node	(Optional)
<i>node</i>	(Optional) service node ip
<i>nodev6</i>	(Optional) service node IPv6
<i>config</i>	(Optional) node config
<i>weight</i>	(Optional) node weight
<i>status</i>	(Optional) node status
<i>track_id</i>	(Optional) node track id
<i>ip_sla_id</i>	(Optional) node ip sla id

TABLE_acl	(Optional)
<i>access_list</i>	(Optional) access list

Command Mode

- /exec

<i>device_grp</i>	(Optional) service device group
TABLE_route_map	(Optional)
<i>route_map</i>	(Optional) service route map
<i>interface</i>	(Optional) interface
<i>r_status</i>	(Optional) route map status
<i>int_track_id</i>	(Optional) interface track id
TABLE_vip	(Optional)
<i>vip_ip</i>	(Optional) vip ip
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
TABLE_vip_node	(Optional)
<i>vip_node</i>	(Optional) service node ip
<i>vip_nodev6</i>	(Optional) service node IPv6
<i>vip_config</i>	(Optional) node config
<i>vip_weight</i>	(Optional) node weight
<i>vip_status</i>	(Optional) node status
<i>vip_track_id</i>	(Optional) node track id
<i>vip_ip_sla_id</i>	(Optional) node ip sla id
TABLE_vip_acl	(Optional)
<i>vip_access_list</i>	(Optional) access list
TABLE_node	(Optional)
<i>node</i>	(Optional) service node ip
<i>nodev6</i>	(Optional) service node IPv6
<i>config</i>	(Optional) node config
<i>weight</i>	(Optional) node weight
<i>status</i>	(Optional) node status
<i>track_id</i>	(Optional) node track id
<i>ip_sla_id</i>	(Optional) node ip sla id
TABLE_acl	(Optional)

<i>access_list</i>	(Optional) access list
--------------------	------------------------

Command Mode

- /exec

show itd

```
show itd <svc-name> [ brief ] [ __readonly__ <is_firstentry> <is_detail> <is_active> <is_firstentry_routemap>
<is_firstentry_standby> <is_firstentry_acl> <is_lastentry> [ TABLE_summary <service_name> <probe>
<lb_scheme> [ <interface> ] <state> <buckets> [ <reason> ] <vrf_name> <userACL> <peer_status> [
TABLE_device <device_grp> <dg_probe> <dg_probe_port> ] [ TABLE_route_map [ <route_map> ] [
<interface> ] [ <r_status> ] [ <int_track_id> ] ] [ TABLE_vip [ <vip_ip> ] [ <vip_probe> ] [ <vip_port> ] [
<vip_dgname> ] [ <ace_name> ] [ <ace_seq> ] [ <ace_ip> ] [ <ace_protocol> ] [ <ace_port> ] [
TABLE_vip_node [ <vip_node> ] [ <vip_nodev6> ] <vip_config> <vip_weight> <vip_node_probe>
<vip_node_probe_port> <vip_node_probe_ip> <vip_status> <vip_track_id> <vip_ip_sla_id> [
TABLE_vip_standby [ <vip_standby_ip> ] [ <vip_standby_ipv6> ] <vip_standby_config>
<vip_standby_weight> <vip_standby_probe> <vip_standby_probe_port> <vip_standby_probe_ip>
<vip_standby_status> <vip_standby_track_id> <vip_standby_sla_id> ] [ TABLE_vip_acl [ <vip_access_list>
] ] ] [ TABLE_node [ <node> ] [ <nodev6> ] <config> <weight> <node_probe> <node_probe_port>
<node_probe_ip> <status> <track_id> <ip_sla_id> [ TABLE_standby [ <standby_ip> ] [ <standby_ipv6> ]
<standby_config> <standby_weight> <standby_probe> <standby_probe_port> <standby_probe_ip>
<standby_status> <standby_track_id> <standby_sla_id> ] [ TABLE_acl [ <access_list> ] ] ] ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
<i>svc-name</i>	ITD service name
brief	(Optional) brief
<i>__readonly__</i>	(Optional) Read Only
<i>is_firstentry</i>	(Optional)
<i>is_detail</i>	(Optional)
<i>is_active</i>	(Optional)
<i>is_firstentry_routemap</i>	(Optional)
<i>is_firstentry_acl</i>	(Optional)
<i>is_lastentry</i>	(Optional)
<i>is_firstentry_standby</i>	(Optional)
TABLE_summary	(Optional)
<i>service_name</i>	(Optional) service_name
<i>probe</i>	(Optional) probe
<i>lb_scheme</i>	(Optional) lb scheme
<i>interface</i>	(Optional) interface

<i>state</i>	(Optional) state
<i>buckets</i>	(Optional) buckets
<i>reason</i>	(Optional) inactive reason
<i>vrf_name</i>	(Optional) VRF-Name
<i>userACL</i>	(Optional) user access-list
<i>peer_status</i>	(Optional) peer status
TABLE_device	(Optional)
<i>device_grp</i>	(Optional) service device group
<i>dg_probe</i>	(Optional) probe type
<i>dg_probe_port</i>	(Optional) probe port
TABLE_route_map	(Optional)
<i>route_map</i>	(Optional) service route map
<i>interface</i>	(Optional) interface
<i>r_status</i>	(Optional) route map status
<i>int_track_id</i>	(Optional) interface track id
TABLE_vip	(Optional)
<i>vip_ip</i>	(Optional) vip ip
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
<i>vip_dgname</i>	(Optional) vip device group
<i>ace_name</i>	(Optional) ace information
<i>ace_seq</i>	(Optional) ace information
<i>ace_ip</i>	(Optional) ace information
<i>ace_protocol</i>	(Optional) ace information
<i>ace_port</i>	(Optional) ace information
TABLE_vip_node	(Optional)
<i>vip_node</i>	(Optional) service node ip
<i>vip_nodev6</i>	(Optional) service node IPv6
<i>vip_config</i>	(Optional) node config

<i>vip_weight</i>	(Optional) node weight
<i>vip_status</i>	(Optional) node status
<i>vip_node_probe</i>	(Optional) node probe type
<i>vip_node_probe_port</i>	(Optional) node probe port
<i>vip_node_probe_ip</i>	(Optional) node probe ip
<i>vip_track_id</i>	(Optional) node track id
<i>vip_ip_sla_id</i>	(Optional) node ip sla id
TABLE_vip_standby	(Optional)
<i>vip_standby_ip</i>	(Optional) standby node ip
<i>vip_standby_ipv6</i>	(Optional) standby node ipv6
<i>vip_standby_config</i>	(Optional) standby node config
<i>vip_standby_weight</i>	(Optional) standby node weight
<i>vip_standby_status</i>	(Optional) standby node status
<i>vip_standby_probe</i>	(Optional) standby node probe type
<i>vip_standby_probe_port</i>	(Optional) standby node probe port
<i>vip_standby_probe_ip</i>	(Optional) standby node probe ip
<i>vip_standby_track_id</i>	(Optional) standby node track id
<i>vip_standby_sla_id</i>	(Optional) standby node sla id
TABLE_vip_acl	(Optional)
<i>vip_access_list</i>	(Optional) access list
TABLE_node	(Optional)
<i>node</i>	(Optional) service node ip
<i>nodev6</i>	(Optional) service node IPv6
<i>config</i>	(Optional) node config
<i>weight</i>	(Optional) node weight
<i>status</i>	(Optional) node status
<i>node_probe</i>	(Optional) node probe type
<i>node_probe_port</i>	(Optional) node probe port
<i>node_probe_ip</i>	(Optional) node probe ip

<i>track_id</i>	(Optional) node track id
<i>ip_sla_id</i>	(Optional) node ip sla id
TABLE_standby	(Optional)
<i>standby_ip</i>	(Optional) standby node ip
<i>standby_ipv6</i>	(Optional) standby node ipv6
<i>standby_config</i>	(Optional) standby node config
<i>standby_weight</i>	(Optional) standby node weight
<i>standby_status</i>	(Optional) standby node status
<i>standby_probe</i>	(Optional) standby node probe type
<i>standby_probe_port</i>	(Optional) standby node probe port
<i>standby_probe_ip</i>	(Optional) standby node probe ip
<i>standby_track_id</i>	(Optional) standby node track id
<i>standby_sla_id</i>	(Optional) standby node sla id
TABLE_acl	(Optional)
<i>access_list</i>	(Optional) access list

Command Mode

- /exec

<i>reason</i>	(Optional) inactive reason
<i>vrf_name</i>	(Optional) VRF-Name
<i>userACL</i>	(Optional) user access-list
<i>peer_status</i>	(Optional) peer status
TABLE_device	(Optional)
<i>device_grp</i>	(Optional) service device group
<i>dg_probe</i>	(Optional) device-group probe type
<i>dg_probe_port</i>	(Optional) device-group probe port
TABLE_route_map	(Optional)
<i>route_map</i>	(Optional) service route map
<i>interface</i>	(Optional) interface
<i>r_status</i>	(Optional) route map status
<i>int_track_id</i>	(Optional) interface track id
TABLE_vip	(Optional)
<i>vip_ip</i>	(Optional) vip ip
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
<i>vip_dgname</i>	(Optional) vip device group
TABLE_vip_node	(Optional)
<i>vip_node</i>	(Optional) service node ip
<i>vip_nodev6</i>	(Optional) service node IPv6
<i>vip_config</i>	(Optional) node config
<i>vip_weight</i>	(Optional) node weight
<i>vip_status</i>	(Optional) node status
<i>vip_node_probe</i>	(Optional) node probe type
<i>vip_node_probe_port</i>	(Optional) node probe port
<i>vip_node_probe_ip</i>	(Optional) node probe ip
<i>vip_track_id</i>	(Optional) node track id
<i>vip_ip_sla_id</i>	(Optional) node ip sla id

TABLE_vip_standby	(Optional)
<i>vip_standby_ip</i>	(Optional) standby node ip
<i>vip_standby_ipv6</i>	(Optional) standby node ipv6
<i>vip_standby_config</i>	(Optional) standby node config
<i>vip_standby_weight</i>	(Optional) standby node weight
<i>vip_standby_status</i>	(Optional) standby node status
<i>vip_standby_probe</i>	(Optional) standby node probe type
<i>vip_standby_probe_port</i>	(Optional) standby node probe port
<i>vip_standby_probe_ip</i>	(Optional) standby node probe ip
<i>vip_standby_track_id</i>	(Optional) standby node track id
<i>vip_standby_sla_id</i>	(Optional) standby node sla id
TABLE_vip_acl	(Optional)
<i>vip_access_list</i>	(Optional) access list
TABLE_node	(Optional)
<i>node</i>	(Optional) service node ip
<i>nodev6</i>	(Optional) service node IPv6
<i>config</i>	(Optional) node config
<i>weight</i>	(Optional) node weight
<i>status</i>	(Optional) node status
<i>node_probe</i>	(Optional) node probe type
<i>node_probe_port</i>	(Optional) node probe port
<i>node_probe_ip</i>	(Optional) node probe ip
<i>track_id</i>	(Optional) node track id
<i>ip_sla_id</i>	(Optional) node ip sla id
TABLE_standby	(Optional)
<i>standby_ip</i>	(Optional) standby node ip
<i>standby_ipv6</i>	(Optional) standby node ipv6
<i>standby_config</i>	(Optional) standby node config
<i>standby_weight</i>	(Optional) standby node weight

<i>standby_status</i>	(Optional) standby node status
<i>standby_probe</i>	(Optional) standby node probe type
<i>standby_probe_port</i>	(Optional) standby node probe port
<i>standby_probe_ip</i>	(Optional) standby node probe ip
<i>standby_track_id</i>	(Optional) standby node track id
<i>standby_sla_id</i>	(Optional) standby node sla id
TABLE_acl	(Optional)
<i>access_list</i>	(Optional) access list

Command Mode

- /exec

show itd session device-group

```
show itd session device-group [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <node> ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
session	ITD service session
device-group	ITD service session device-group
<i>name</i>	(Optional) ITD Service session name
<i>__readonly__</i>	(Optional) Read Only
<i>first_entry</i>	(Optional)
TABLE_svc	(Optional)
<i>node</i>	(Optional) node

Command Mode

- /exec

show itd statistics

```
show itd { <service_name> | all } [ src { <src-ip> | <src-IPv6> } | dst { <dst-ip> | <dst-IPv6> } ] statistics [
brief ] [ __readonly__ <is_firstentry_node> <is_firstentry_acl> [ TABLE_nice <service_name> [ <vip> ] [
<vip_pkt> ] <dev_grp> <node> <node_pkt> [ <acl> ] [ <acl_pkt> ] <mode> <percentage> ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
statistics	ITD statistics
brief	(Optional) brief
__readonly__	(Optional) Read Only
<i>is_firstentry_node</i>	(Optional)
<i>is_firstentry_acl</i>	(Optional)
TABLE_nice	(Optional)
<i>service_name</i>	service_name
all	All ITD services
src	(Optional) Statistics for src ip
<i>src-ip</i>	(Optional) Provide statistics for src ip
dst	(Optional) Statistics for dst ip
<i>dst-ip</i>	(Optional) Provide statistics for dst ip
<i>vip</i>	(Optional) service virtual ip
<i>vip_pkt</i>	(Optional) virtual ip pkt_count
<i>dev_grp</i>	(Optional) device group
<i>node</i>	(Optional) service node ip
<i>node_pkt</i>	(Optional) node pkt count
<i>acl</i>	(Optional) access list
<i>acl_pkt</i>	(Optional) acl pkt count
<i>mode</i>	(Optional) Redirect mode
<i>percentage</i>	(Optional) Packet percentage

Command Mode

- /exec

show itd statistics

```
show itd { <service_name> | all } [ src { <src-ip> | <src-IPv6> } | dst { <dst-ip> | <dst-IPv6> } ] statistics [
brief] [ __readonly__ <is_firstentry_node> <is_firstentry_acl> <is_for_ace> [ TABLE_nice <service_name>
[ <vip> ] [ <ace_seq> ] [ <ace_ip> ] [ <vip_pkt> ] <dev_grp> <node> <node_pkt> [ <acl> ] [ <acl_pkt> ]
<mode> <percentage> ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
statistics	ITD statistics
brief	(Optional) brief
__readonly__	(Optional) Read Only
<i>is_firstentry_node</i>	(Optional)
<i>is_firstentry_acl</i>	(Optional)
<i>is_for_ace</i>	(Optional)
TABLE_nice	(Optional)
<i>service_name</i>	service_name
all	All ITD services
src	(Optional) Statistics for src ip
<i>src-ip</i>	(Optional) Provide statistics for src ip
dst	(Optional) Statistics for dst ip
<i>dst-ip</i>	(Optional) Provide statistics for dst ip
<i>vip</i>	(Optional) service virtual ip
<i>ace_seq</i>	(Optional) service ACE name and sequence number
<i>ace_ip</i>	(Optional) service ACE ip/mask/prefix
<i>vip_pkt</i>	(Optional) virtual ip pkt_count
<i>dev_grp</i>	(Optional) device group
<i>node</i>	(Optional) service node ip
<i>node_pkt</i>	(Optional) node pkt count
<i>acl</i>	(Optional) access list

<i>acl_pkt</i>	(Optional) acl pkt count
<i>mode</i>	(Optional) Redirect mode
<i>percentage</i>	(Optional) Packet percentage

Command Mode

- /exec

show itd vrf

```
show itd vrf [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <service_name> <vrf_name> <vrf_id> ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
vrf	ITD service vrf
<i>name</i>	(Optional) ITD Service VRF name
<i>__readonly__</i>	(Optional) Read Only
<i>first_entry</i>	(Optional)
TABLE_svc	(Optional)
<i>service_name</i>	(Optional) itd service name
<i>vrf_name</i>	(Optional) vrf name
<i>vrf_id</i>	(Optional) vrf id

Command Mode

- /exec

show itd vrf

```
show itd vrf [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <service_name> <vrf_name> <vrf_id> ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
vrf	ITD service vrf
<i>name</i>	(Optional) ITD Service VRF name
<i>__readonly__</i>	(Optional) Read Only
<i>first_entry</i>	(Optional)
TABLE_svc	(Optional)
<i>service_name</i>	(Optional) itd service name
<i>vrf_name</i>	(Optional) vrf name
<i>vrf_id</i>	(Optional) vrf id

Command Mode

- /exec



K Commands

- [show key chain, on page 1532](#)
- [show key chain mode decrypt, on page 1533](#)
- [show keystore, on page 1534](#)
- [show kim inconsistency, on page 1535](#)

show key chain

```
{ show key chain [ <keychain> ] } [ __readonly__ TABLE_keychain <chain_name> TABLE_key <key_id>
<key_string> <crypto_algo> <accept_utc_zone> <accept_start> <accept_end> <accept_valid> <send_utc_zone>
<send_start> <send_end> <send_valid> ]
```

Syntax Description

show	Show running system information
key	Display Key Information
chain	Display Keychain Information
<i>keychain</i>	(Optional) Keychain name
<i>__readonly__</i>	(Optional)
TABLE_keychain	(Optional)
TABLE_key	(Optional)
<i>chain_name</i>	(Optional)
<i>key_id</i>	(Optional)
<i>key_string</i>	(Optional)
<i>crypto_algo</i>	(Optional)
<i>accept_utc_zone</i>	(Optional)
<i>accept_start</i>	(Optional)
<i>accept_end</i>	(Optional)
<i>accept_valid</i>	(Optional)
<i>send_utc_zone</i>	(Optional)
<i>send_start</i>	(Optional)
<i>send_end</i>	(Optional)
<i>send_valid</i>	(Optional)

Command Mode

- /exec

show key chain mode decrypt

```
{ show key chain [ <keychain> ] mode decrypt } [ __readonly__ TABLE_keychain_decrypt <chain_name>
TABLE_key <key_id> <key_string> <crypto_algo> <accept_utc_zone> <accept_start> <accept_end>
<accept_valid> <send_utc_zone> <send_start> <send_end> <send_valid> ]
```

Syntax Description

show	Show running system information
key	Display Key Information
chain	Display Keychain Information
<i>keychain</i>	(Optional) Keychain name
mode	Mode of display
decrypt	Display Decrypted Keystings
<i>__readonly__</i>	(Optional)
TABLE_keychain_decrypt	(Optional)
TABLE_key	(Optional)
<i>chain_name</i>	(Optional)
<i>key_id</i>	(Optional)
<i>key_string</i>	(Optional)
<i>crypto_algo</i>	(Optional)
<i>accept_utc_zone</i>	(Optional)
<i>accept_start</i>	(Optional)
<i>accept_end</i>	(Optional)
<i>accept_valid</i>	(Optional)
<i>send_utc_zone</i>	(Optional)
<i>send_start</i>	(Optional)
<i>send_end</i>	(Optional)
<i>send_valid</i>	(Optional)

Command Mode

- /exec

show keystore

```
show keystore [ __readonly__ { TABLE_sksd_state_entries <index> <handle> } <keystore_type>
<keystore_ver> <fw_panic> <fw_resets> <rx_fifo_underruns> <rx_timeouts> <rx_bad_checksums>
<rx_bad_fragment_lengths> <keystore_corruption> ]
```

Syntax Description

keystore	keystore stats
<i>__readonly__</i>	(Optional)
TABLE_sksd_state_entries	(Optional) Displays handles of the keys stored
<i>index</i>	(Optional) Index value
<i>handle</i>	(Optional) Handle Name
<i>keystore_type</i>	(Optional) Type of storage h/w or s/w
<i>keystore_ver</i>	(Optional) Version
<i>fw_panic</i>	(Optional) Number of panics
<i>fw_resets</i>	(Optional) Number of Resets
<i>rx_fifo_underruns</i>	(Optional) Rx FIFO Underruns
<i>rx_timeouts</i>	(Optional) Number of Rx timeouts
<i>rx_bad_checksums</i>	(Optional) Number of Bad Checsums
<i>rx_bad_fragment_lengths</i>	(Optional) Bad fragment lenghts received
<i>keystore_corruption</i>	(Optional) Number of corruptions detected

Command Mode

- /exec

show kim inconsistency

show kim inconsistency

Syntax Description

show	Show running system information
kim	Display KIM information
inconsistency	KIM inconsistency

Command Mode

- /exec

show kim inconsistency



L Commands

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show l2 mroute

```
show { l2 | fabricpath } mroute { [ vdc-omf ] { [ resolved ] } | [ vlan <vlanid> ] { { [ omf ] | [ flood ] | [ source
{ <srcaddr> | <v6srcaddr> | <macsrcaddr> } ] [ group { <groupaddr> | <v6groupaddr> | <macgroupaddr> }
] } [ resolved ] [ ftag <ftag-id> ] [ hex ] } } [ __readonly__ [ <hex2> ] { TABLE_gr [ <ftag> ] <vlan_id> [ {
<v4src> <v4grp> <macgrp> | <v6src> <v6grp> <macsrc> } ] [ <omf> | <flood> ] <rt-uptime> <owners>
<num_nh> TABLE_nh { <nh_if> | <nh_sw> } [ <stale> ] [ <exclude> ] [ <svi> ] <flags> <nh-uptime>
<owner> <rt_type> | <done> | <start> } ]
```

Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
mroute	Show multicast route database
vdc-omf	(Optional) Display vdc omf route
vlan	(Optional) Show information for a vlan
omf	(Optional) Show catch-all entry consisting of mroute ports
flood	(Optional) Display vlan flood route
ftag	(Optional) Show ftag number
source	(Optional) Show (s, g) source IP address
group	(Optional) Show group address
hex	(Optional) Display switch-ids in hex
<i>vlanid</i>	(Optional) Vlan value
<i>ftag-id</i>	(Optional) ftag id
<i>groupaddr</i>	(Optional) Group address
<i>macgroupaddr</i>	(Optional) MAC Group address
<i>srcaddr</i>	(Optional) Source address
<i>macsrcaddr</i>	(Optional) MAC source address
resolved	(Optional) Resolve switchid nexthops into the underlying interfaces
__readonly__	(Optional) Read Only
<i>hex2</i>	(Optional)
TABLE_gr	(Optional)

<i>vlan_id</i>	(Optional) VLAN
<i>rt-uptime</i>	(Optional) Time route was created
<i>num_nh</i>	(Optional) Number of next-hops
<i>owners</i>	(Optional) Owners
<i>v4src</i>	(Optional) IPv4 Multicast traffic source
<i>v4grp</i>	(Optional) IPv4 Multicast Group address
<i>macsrc</i>	(Optional) MAC Multicast traffic source
<i>macgrp</i>	(Optional) MAC Multicast Group address
<i>ftag</i>	(Optional) ftag id
<i>omf</i>	(Optional) Is OMF route
<i>flood</i>	(Optional) Is flood to vlan route
TABLE_nh	(Optional)
<i>nh_if</i>	(Optional) The next hop interface
<i>nh_sw</i>	(Optional) The next hop switch id
<i>owner</i>	(Optional) Owner
<i>flags</i>	(Optional) flags
<i>nh-uptime</i>	(Optional) Time nexthop was created
<i>rt_type</i>	(Optional) Route type
<i>stale</i>	(Optional) Is stale
<i>exclude</i>	(Optional) exclude from post routing replication
<i>svi</i>	(Optional) SVI interface
<i>done</i>	(Optional) Done displaying route data
<i>start</i>	(Optional) Print header

Command Mode

- /exec

show l2 multicast ftag

```
show { l2 | fabricpath } multicast ftag [ <ftag-id> ] [ __readonly__ TABLE_topo <id> <topo_config>
TABLE_ftag <ftag> <topo_id> <config> ]
```

Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
multicast	Multicast information
ftag	ftag number
<i>ftag-id</i>	(Optional) ftag id
<i>__readonly__</i>	(Optional) Read Only
TABLE_topo	(Optional)
<i>id</i>	(Optional) topo id
<i>topo_config</i>	(Optional) program ftag star route
TABLE_ftag	(Optional)
<i>ftag</i>	(Optional) ftag
<i>topo_id</i>	(Optional) topo id
<i>config</i>	(Optional) ftag config

Command Mode

- /exec

show l2 multicast trees

```
show { l2 | fabricpath } multicast trees [ topo <topo-id> ] [ ftag <ftag-id> ] [ hex ] [ __readonly__ [ <hex2> ] ]
{ TABLE_swid <ftag> <topo_id> <sw_id> <rt-uptime> <owners> <num_nh> TABLE_nh [ <preferred> ]
{ <nh_if> | <nh_sw> } [ <stale> ] <distance> <nh-uptime> <owner> <flags> <rt_type> | <start> | <done> }
]
```

Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
multicast	Multicast information
trees	Show the broadcast/multicast tree database
topo	(Optional) Show topo instance
ftag	(Optional) Show ftag number
hex	(Optional) Display switch-ids in hex
<i>topo-id</i>	(Optional) topo id
<i>ftag-id</i>	(Optional) ftag id
<i>__readonly__</i>	(Optional) Read Only
<i>hex2</i>	(Optional)
TABLE_swid	(Optional)
<i>sw_id</i>	(Optional) switch id
<i>topo_id</i>	(Optional) topo id
<i>ftag</i>	(Optional) ftag id
<i>rt-uptime</i>	(Optional) Time route was created
<i>num_nh</i>	(Optional) Number of next-hops
<i>owners</i>	(Optional) Owners
TABLE_nh	(Optional)
<i>preferred</i>	(Optional) Is preferred interface
<i>nh_if</i>	(Optional) The next hop interface
<i>nh_sw</i>	(Optional) The next hop switch id

<i>owner</i>	(Optional) Owner
<i>flags</i>	(Optional) flags
<i>rt_type</i>	(Optional) Route type
<i>nh-uptime</i>	(Optional) Time nexthop was created
<i>distance</i>	(Optional) admin distance
<i>stale</i>	(Optional) Is stale
<i>start</i>	(Optional)
<i>done</i>	(Optional)

Command Mode

- /exec

show l2 route

```
show { l2 | fabricpath } route [ topology { <topo_val> [ switchid <switchid> ] | all } | switchid <switchid> ]
[ detail | hex ] + [ __readonly__ <line_marker> <is_hex> { TABLE_route <topo_id> <ftag_value> <swid>
<sswid> <num_paths> { TABLE_path <path_str> <admin_distance> <metric> <time> <time_detail> <uuid>
} } ]
```

Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
route	Show FabricPath route information
topology	(Optional) topology
<i>topo_val</i>	(Optional) topology value
switchid	(Optional) switchid
<i>switchid</i>	(Optional) switchid value
all	(Optional) all topologies
detail	(Optional) detail
hex	(Optional) display in hex
__readonly__	(Optional) Read Only
<i>line_marker</i>	(Optional) line marker
<i>is_hex</i>	(Optional) print in hex
TABLE_route	(Optional) Route delimiter
<i>topo_id</i>	(Optional) topo-id value
<i>ftag_value</i>	(Optional) ftag value
<i>swid</i>	(Optional) switch-id
<i>sswid</i>	(Optional) sub-switch id
<i>num_paths</i>	(Optional) num of paths
TABLE_path	(Optional) Path delimiter
<i>path_str</i>	(Optional) paths
<i>admin_distance</i>	(Optional) admin distance

<i>metric</i>	(Optional) metric
<i>time</i>	(Optional) time
<i>time_detail</i>	(Optional) time_detail
<i>uuid</i>	(Optional) uuid

Command Mode

- /exec

show l2fwder l2rib info

show l2fwder l2rib info

Syntax Description

show	Show running system information
l2fwder	L2 software forwarding
l2rib	L2RIB
info	stats and info

Command Mode

- /exec

show l2fwder rmac

show l2fwder rmac <mac-address>

Syntax Description

show	Show running system information
l2fwder	Display L2FWDER forwarding information
rmac	router mac
<i>mac-address</i>	MAC address

Command Mode

- /exec

show l2fwder statistics

show l2fwder statistics

Syntax Description

show	Show running system information
l2fwder	Display L2FWDER forwarding information
statistics	Show L2FWDER packet counters

Command Mode

- /exec

show l2rib clients

```
show l2rib clients [ <client_id> ] [ __readonly__ TABLE_l2rib_clients <client-id> <uuid> <process-suffix> ]
```

Syntax Description

show	Show running system information
l2rib	Layer 2 routing information base
clients	L2RIB Clients
<i>client_id</i>	(Optional) Enter Client ID
<i>__readonly__</i>	(Optional)
<i>TABLE_l2rib_clients</i>	(Optional) L2RIB Clients Table
<i>client-id</i>	(Optional) Client ID
<i>uuid</i>	(Optional) Process ID
<i>process-suffix</i>	(Optional) Process Name Suffix

Command Mode

- /exec

show l2rib producers

```
show l2rib producers [ { topology | mac | mac-ip | ead | pl | imet | flood-list | startup-route | peerid | es } [ static
| local | bgp | vxlan | hmm | arp | ofa | lisp ] ] [ detail ] [ __readonly__ TABLE_l2rib_producers <prod-name>
<prod-id> <client-id> <obj-type> <admin-dist> <purge-time> <state> [ <prod-flags> ] ]
```

Syntax Description

show	Show running system information
l2rib	Layer 2 routing information base
producers	L2RIB Producers
detail	(Optional) Detailed information
topology	(Optional) Filter on Topology
mac	(Optional) Filter on MAC
mac-ip	(Optional) Filter on MAC-IP
ead	(Optional) Filter on Ethernet-AD
pl	(Optional) Filter on Path List
imet	(Optional) Filter on IMET Route
flood-list	(Optional) Filter on Flood List
startup-route	(Optional) Filter on Startup Route
peerid	(Optional) Filter on Peerid
es	(Optional) Filter on ES
static	(Optional) Static
local	(Optional) Local
bgp	(Optional) BGP
vxlan	(Optional) VXLAN
hmm	(Optional) HMM
arp	(Optional) ARP
ofa	(Optional) OFA
lisp	(Optional) lisp
__readonly__	(Optional)
TABLE_l2rib_producers	(Optional) L2RIB Producers Table

<i>prod-name</i>	(Optional) Producer Name
<i>prod-id</i>	(Optional) Producer ID
<i>client-id</i>	(Optional) Client ID
<i>obj-type</i>	(Optional) Object Type
<i>admin-dist</i>	(Optional) Admin Distance
<i>purge-time</i>	(Optional) Purge Time
<i>state</i>	(Optional) State
<i>prod-flags</i>	(Optional) Global Producer Flags

Command Mode

- /exec

show l2rib registrations

```
show l2rib registrations [ client <client_id> [ <topo_id> { mac | mac-ip | ead | pl | imet | flood-list | arp-signal
| startup-route | topo | es } ] ] [ __readonly__ TABLE_l2rib_registrations <client-id> <topo-id> <obj-type>
<prod> ]
```

Syntax Description

show	Show running system information
l2rib	Layer 2 routing information base
registrations	L2RIB Registrations
client	(Optional) Global Registraion Entries
<i>client_id</i>	(Optional) Enter Client ID
<i>topo_id</i>	(Optional) Enter Topology ID
mac	(Optional) Filter on MAC
mac-ip	(Optional) Filter on MAC-IP
ead	(Optional) Filter on Ethernet-AD
pl	(Optional) Filter on Path List
imet	(Optional) Filter on IMET Route
es	(Optional) Filter on Ethernet Segment ID
flood-list	(Optional) Filter on Flood List
startup-route	(Optional) Filter on Startup Route
arp-signal	(Optional) Filter on ARP Signal
topo	(Optional) Filter on Topo Subtype
__readonly__	(Optional)
TABLE_l2rib_registrations	(Optional) L2RIB Registrations Table
<i>client-id</i>	(Optional) Client ID
<i>topo-id</i>	(Optional) Topology ID
<i>obj-type</i>	(Optional) Object Type
<i>prod</i>	(Optional) Producer

Command Mode

- /exec

show l2route evpn ead all

```
show l2route evpn ead all [ detail ] [ __readonly__ TABLE_l2route_evpn_ead_all <topo-id> <prod> <esi>
<client-nfn> <num_pls> [ { <next-hop> } ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
ead	EAD
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_evpn_ead_all	(Optional) L2RIB EVPN EAD All Table
<i>topo-id</i>	(Optional) Topology ID
<i>prod</i>	(Optional) Producer
<i>esi</i>	(Optional) ESI
<i>client-nfn</i>	(Optional) Client Notification Bitmap
<i>num_pls</i>	(Optional) Number of Path lists
<i>next-hop</i>	(Optional) Next Hop

Command Mode

- /exec

show l2route evpn ethernet-segment esi

```
show l2route evpn ethernet-segment { esi <esi-id> | all } [ bgp | vxlan ] [ detail ] [ __readonly__
TABLE_l2route_es <ethernet-segment> <originating-rtr> <prod-name> <int-ifhdl> <client-nfn> ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
ethernet-segment	Ethernet Segment ID
esi	ESI Value
<i>esi-id</i>	ESI ID
all	Display all entries without filtering
bgp	(Optional) Filter on BGP producer
vxlan	(Optional) Filter on VXLAN producer
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_es	(Optional) L2RIB ES Table
<i>ethernet-segment</i>	(Optional) ESI
<i>originating-rtr</i>	(Optional) Originating Router
<i>prod-name</i>	(Optional) Producer Name
<i>int-ifhdl</i>	(Optional) Interface Handle
<i>client-nfn</i>	(Optional) Client Notification Bitmap

Command Mode

- /exec

show l2route evpn fl all

```
show l2route evpn fl all [ detail ] [ __readonly__ TABLE_l2route_fl_all <topo-id> <peer-id> <flood-list>
<is-service-node> [ <client-nfn> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
fl	Flood List
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_fl_all	(Optional) L2RIB Flood List All Table
<i>topo-id</i>	(Optional) Topology ID
<i>peer-id</i>	(Optional) Peer-ID
<i>flood-list</i>	(Optional) Flood List
<i>is-service-node</i>	(Optional) Is Service Node
<i>client-nfn</i>	(Optional) Client Notification Bitmap

Command Mode

- /exec

show l2route evpn fl evi

```
show l2route evpn fl evi <vpn-id> [ detail ] [ __readonly__ TABLE_l2route_fl <peer-id> <flood-list>
<is-service-node> [ <client-nfn> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
fl	Flood List
evi	Filter on E-VPN identifier (VLAN-ID or BD-ID)
<i>vpn-id</i>	E-VPN identifier (VLAN-ID or BD-ID)
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_fl	(Optional) L2RIB Flood List Table
<i>peer-id</i>	(Optional) Peer-ID
<i>flood-list</i>	(Optional) Flood List
<i>is-service-node</i>	(Optional) Is Service Node
<i>client-nfn</i>	(Optional) Client Notification Bitmap

Command Mode

- /exec

show l2route evpn imet all

```
show l2route evpn imet all [ detail ] [ __readonly__ TABLE_l2route_imet_all <topo-id> <vni> <prod-type>
<ip-addr> [ <eth-tag-id> ] [ <pmsi-flags> ] [ <flags> ] [ <type> ] [ <vni-label> ] [ <tunnel-id> ] [ <client-nfn>
]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
imet	IMET Route
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_imet_all	(Optional) L2RIB IMET All Table
<i>topo-id</i>	(Optional) Topology ID
<i>vni</i>	(Optional) VNI
<i>prod-type</i>	(Optional) Producer Type
<i>ip-addr</i>	(Optional) IP Address
<i>eth-tag-id</i>	(Optional) Ethernet Tag ID
<i>pmsi-flags</i>	(Optional) PMSI Flags
<i>flags</i>	(Optional) Flags
<i>type</i>	(Optional) Type
<i>vni-label</i>	(Optional) VNI Label
<i>tunnel-id</i>	(Optional) Tunnel ID
<i>client-nfn</i>	(Optional) Client Notification Bitmap

Command Mode

- /exec

show l2route evpn imet evi

```
show l2route evpn imet evi <vpn-id> [ bgp | vxlan ] [ detail ] [ __readonly__ TABLE_l2route_imet <vni>
<prod-type> <ip-addr> [ <eth-tag-id> ] [ <pmsi-flags> ] [ <flags> ] [ <type> ] [ <vni-label> ] [ <tunnel-id>
] [ <client-nfn> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
imet	IMET Route
evi	Filter on E-VPN identifier (VLAN-ID or BD-ID)
<i>vpn-id</i>	E-VPN identifier (VLAN-ID or BD-ID)
bgp	(Optional) Filter on BGP producer (remote imet routes)
vxlan	(Optional) Filter on VXLAN producer (local imet routes)
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_imet	(Optional) L2RIB IMET Table
<i>vni</i>	(Optional) VNI
<i>prod-type</i>	(Optional) Producer Type
<i>ip-addr</i>	(Optional) IP Address
<i>eth-tag-id</i>	(Optional) Ethernet Tag ID
<i>pmsi-flags</i>	(Optional) PMSI Flags
<i>flags</i>	(Optional) Flags
<i>type</i>	(Optional) Type
<i>vni-label</i>	(Optional) VNI Label
<i>tunnel-id</i>	(Optional) Tunnel ID
<i>client-nfn</i>	(Optional) Client Notification Bitmap

Command Mode

- /exec

show l2route evpn mac-ip all

```
show l2route evpn mac-ip all [ detail ] [ __readonly__ TABLE_l2route_mac_ip_all <topo-id> <mac-addr>
<prod-type> <flags> <seq-num> <host-ip> <next-hop1> [ <next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [
<rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id> ] [ <soo> ] [ <pcinfo> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
mac-ip	MAC-IP Route
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_mac_ip_all	(Optional) L2RIB Mac-IP All Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>prod-type</i>	(Optional) Producer Type
<i>flags</i>	(Optional) Flags
<i>seq-num</i>	(Optional) Sequence Number
<i>host-ip</i>	(Optional) Host IP
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2
<i>l3-info</i>	(Optional) L3 Information
<i>fwd-state</i>	(Optional) Forwarding State
<i>rte-res</i>	(Optional) Route Resolution
<i>sent-to</i>	(Optional) Active Clients
<i>peerid</i>	(Optional) Peer ID
<i>peer-ifindex</i>	(Optional) Peer Interface Index
<i>esi-id</i>	(Optional) ESI ID
<i>soo</i>	(Optional) SOO

<i>pcinfo</i>	(Optional) Port-Channel Info
---------------	------------------------------

Command Mode

- /exec

show l2route evpn mac-ip evi

```
show l2route evpn mac-ip evi <vpn-id> [ arp | bgp | hmm ] [ mac <mac_addr> ] [ host-ip { <ipv4_host> | <ipv6_host> } ] [ next-hop { <ipv4_addr> | <ipv6_addr> | <if-hdl> } ] [ detail ] [ __readonly__
TABLE_l2route_mac_ip_evi <topo-id> <mac-addr> <prod-type> <seq-num> <host-ip> <next-hop1> [
<next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [ <rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id>
] [ <soo> ] [ <pcinfo> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
mac-ip	MAC-IP Route
evi	Filter on E-VPN identifier (VLAN-ID or BD-ID)
<i>vpn-id</i>	E-VPN identifier (VLAN-ID or BD-ID)
arp	(Optional) Filter on ARP producer
bgp	(Optional) Filter on BGP producer
hmm	(Optional) Filter on HMM producer
mac	(Optional) Filter on MAC address
<i>mac_addr</i>	(Optional) 48-bit MAC address value
host-ip	(Optional) Filter on Host IP address
<i>ipv4_host</i>	(Optional) IPv4 address
next-hop	(Optional) Filter on Next-Hop IP or Interface Name
<i>ipv4_addr</i>	(Optional) IPv4 address of Next Hop
<i>if-hdl</i>	(Optional) Interface index of Next Hop
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_mac_ip_evi	(Optional) L2RIB Mac-IP Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>prod-type</i>	(Optional) Producer Type
<i>host-ip</i>	(Optional) Host IP

<i>seq-num</i>	(Optional) Sequence Number
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2
<i>fwd-state</i>	(Optional) Forwarding State
<i>rte-res</i>	(Optional) Route Resolution
<i>sent-to</i>	(Optional) Active Clients
<i>esi-id</i>	(Optional) ESI ID
<i>soo</i>	(Optional) SOO
<i>pcinfo</i>	(Optional) Port-Channel Info
<i>l3-info</i>	(Optional) L3 Information
<i>peerid</i>	(Optional) Peer ID
<i>peer-ifindex</i>	(Optional) Peer Interface Index

Command Mode

- /exec

show l2route evpn mac all

```
show l2route evpn mac all [ detail ] [ __readonly__ TABLE_l2route_mac_all <topo-id> <mac-addr>
<prod-type> <flags> <seq-num> <next-hop1> [ <next-hop2> ] [ <rte-res> ] [ <fwd-state> ] [ <res-pl-next-hop1>
] [ <res-pl-next-hop2> ] [ <sent-to> ] [ <esi-id> ] [ <soo> ] [ <pcinfo> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
mac	MAC Route
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_mac_all	(Optional) L2RIB Mac All Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>prod-type</i>	(Optional) Producer Type
<i>flags</i>	(Optional) Flags
<i>seq-num</i>	(Optional) Sequence Number
<i>fwd-state</i>	(Optional) Forwarding State
<i>res-pl-next-hop1</i>	(Optional) Resultant PL Next hop 1
<i>res-pl-next-hop2</i>	(Optional) Resultant PL Next hop 2
<i>rte-res</i>	(Optional) Route Resolution
<i>sent-to</i>	(Optional) Active Clients
<i>esi-id</i>	(Optional) ESI ID
<i>soo</i>	(Optional) SOO
<i>pcinfo</i>	(Optional) Port-Channel Info
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2

Command Mode

show l2route evpn mac all

- /exec

show l2route evpn mac evi

```
show l2route evpn mac evi <vpn-id> [ static | local | bgp | vxlan | lisp ] [ mac <mac_addr> ] [ next-hop {
<ipv4_addr> | <ipv6_addr> | <if-hdl> } ] [ esi <esi-id> ] [ detail ] [ __readonly__ TABLE_l2route_mac_evi
<topo-id> <mac-addr> <prod-type> <flags> <seq-num> <next-hop1> [ <next-hop2> ] [ <rte-res> ] [ <fwd-state>
] [ <res-pl-next-hop1> ] [ <res-pl-next-hop2> ] [ <sent-to> ] [ <esi-id> ] [ <soo> ] [ <pcinfo> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
mac	MAC Route
evi	Filter on E-VPN identifier (VLAN-ID or BD-ID)
<i>vpn-id</i>	E-VPN identifier (VLAN-ID or BD-ID)
static	(Optional) Filter on Static producer
local	(Optional) Filter on Local producer
bgp	(Optional) Filter on BGP producer
vxlan	(Optional) Filter on VXLAN producer
lisp	(Optional) Filter on LISP producer
mac	(Optional) Filter on MAC address
esi	(Optional) Filter on ESI value
<i>mac_addr</i>	(Optional) Enter 48-bit MAC address value
next-hop	(Optional) Filter on Next-Hop IP or Interface Name
<i>ipv4_addr</i>	(Optional) IPv4 address of Next Hop
<i>if-hdl</i>	(Optional) Interface index of Next Hop
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_mac_evi	(Optional) L2RIB Mac EVI Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>prod-type</i>	(Optional) Producer Type

<i>flags</i>	(Optional) Flags
<i>seq-num</i>	(Optional) Sequence Number
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2
<i>fwd-state</i>	(Optional) Forwarding State
<i>res-pl-next-hop1</i>	(Optional) Resultant PL Next hop 1
<i>res-pl-next-hop2</i>	(Optional) Resultant PL Next hop 2
<i>rte-res</i>	(Optional) Route Resolution
<i>sent-to</i>	(Optional) Active Clients
<i>esi-id</i>	(Optional) ESI ID
<i>soo</i>	(Optional) SOO
<i>pcinfo</i>	(Optional) Port-Channel Info

Command Mode

- /exec

show l2route evpn path-list all

```
show l2route evpn path-list { all | esi <esi-id> } [ detail ] [ __readonly__ TABLE_l2route_evpn_pathlist_all
<topo-id> <prod> <esi> [ <ecmp_label> ] [ <flags> ] [ <client_ctx> ] <mac-cnt> <client-nfn> [ { <cp-next-hop>
} ] [ { <res-next-hop> } ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
path-list	Path-List
all	Display all routes without filtering
esi	ESI Value
<i>esi-id</i>	ESI ID
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_evpn_pathlist_all	(Optional) L2RIB EVPN Pathlist all Table
<i>topo-id</i>	(Optional) Topology ID
<i>prod</i>	(Optional) Producer
<i>esi</i>	(Optional) ESI
<i>ecmp_label</i>	(Optional) ECMP label
<i>flags</i>	(Optional) Flags
<i>client_ctx</i>	(Optional) Client context
<i>mac-cnt</i>	(Optional) Mac count
<i>client-nfn</i>	(Optional) Client Notification Bitmap
<i>cp-next-hop</i>	(Optional) Control plane Next hops
<i>res-next-hop</i>	(Optional) Resultant Next hops

Command Mode

- /exec

show l2route evpn startup-route all

```
show l2route evpn startup-route all [ detail ] [ __readonly__ TABLE_l2route_startup_route_all <topo-id>
<src-group> <del-src-group> [ <src-lpbk-ifhdl> ] [ <nve-ifhdl> ] [ <flags> ] [ <client-nfn> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
startup-route	Startup Route
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_startup_route_all	(Optional) L2RIB Startup-Route All Table
<i>topo-id</i>	(Optional) Topology ID
<i>src-group</i>	(Optional) Source Group
<i>del-src-group</i>	(Optional) Delivery Source Group
<i>src-lpbk-ifhdl</i>	(Optional) Source Loopback Interface Handle
<i>nve-ifhdl</i>	(Optional) NVE Interface Handle
<i>flags</i>	(Optional) Flags
<i>client-nfn</i>	(Optional) Client Notification Bitmap

Command Mode

- /exec

show l2route evpn startup-route evi

```
show l2route evpn startup-route evi <vpn-id> [ detail ] [ __readonly__ TABLE_l2route_startup_route
<src-group> <del-src-group> [ <src-lpbk-ifhdl> ] [ <nve-ifhdl> ] [ <flags> ] [ <client-nfn> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
startup-route	Startup Route
evi	Filter on E-VPN identifier (VLAN-ID or BD-ID)
<i>vpn-id</i>	E-VPN identifier (VLAN-ID or BD-ID)
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_startup_route	(Optional) L2RIB Startup-Route Table
<i>src-group</i>	(Optional) Source Group
<i>del-src-group</i>	(Optional) Delivery Source Group
<i>src-lpbk-ifhdl</i>	(Optional) Source Loopback Interface Handle
<i>nve-ifhdl</i>	(Optional) NVE Interface Handle
<i>flags</i>	(Optional) Flags
<i>client-nfn</i>	(Optional) Client Notification Bitmap

Command Mode

- /exec

show l2route fl topology

```
show l2route fl { topology <topo-id> | all } [ detail ] [ __readonly__ TABLE_l2route_fl [ <topo-id> ] <peer-id>
<flood-list> <is-service-node> [ <client-nfn> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
fl	Flood List
all	Display all routes without filtering
topology	Filter on topology ID
<i>topo-id</i>	topology ID
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_fl	(Optional) L2RIB Flood List Table
<i>topo-id</i>	(Optional) Topology ID
<i>peer-id</i>	(Optional) Peer-ID
<i>flood-list</i>	(Optional) Flood List
<i>is-service-node</i>	(Optional) Is Service Node
<i>client-nfn</i>	(Optional) Client Notification Bitmap

Command Mode

- /exec

show l2route peerid

```
show l2route peerid [ __readonly__ TABLE_l2route_peerid <if-hdl> <ip-addr> <peer-id> <if-idx> <num-macs>
<num-nhs> ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
peerid	Display Peer ID DB
__readonly__	(Optional)
TABLE_l2route_peerid	(Optional) L2RIB Peer-ID Table
<i>if-hdl</i>	(Optional) Interface Handle
<i>ip-addr</i>	(Optional) IP Address
<i>if-idx</i>	(Optional) Peer Interface Index
<i>peer-id</i>	(Optional) Peer-ID
<i>num-macs</i>	(Optional) Number of Macs
<i>num-nhs</i>	(Optional) Number of NHs

Command Mode

- /exec

show l2route summary

```
show l2route summary [ __readonly__ { <total_memory> <numof_converged_tables> [ {
TABLE_l2route_summary <table_name> { TABLE_producer <producer_name> <id> <objects> <memory>
} <total><total_obj><total_mem> } ] } ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
summary	Summary
<i>__readonly__</i>	(Optional) Read only
<i>total_memory</i>	(Optional) Total memory
<i>numof_converged_tables</i>	(Optional) Number of converged tables
TABLE_l2route_summary	(Optional) L2route summary table
<i>table_name</i>	(Optional) Table name
TABLE_producer	(Optional) Producer table
<i>producer_name</i>	(Optional) Producer name
<i>id</i>	(Optional) id
<i>objects</i>	(Optional) objects
<i>memory</i>	(Optional) Memory

Command Mode

- /exec

show l2route topology

```
show l2route topology [ <topo_id> ] [ detail ] [ __readonly__ TABLE_l2route_topology <topo-id> <topo-name>
<topo-type> [ <vni> ] [ <encap-type> ] [ <iod> ] [ <if-hdl> ] [ <vtep-ip> ] [ <emulated-ip> ] [ <emulated-ro-ip>
] [ <tx-id> ] [ <rcvd-flag> ] [ <rmac> ] [ <vrf-id> ] [ <vmac> ] [ <flags> ] [ <sub-flags> ] [ <prev-flags> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
topology	Display topology IDs
<i>topo_id</i>	(Optional) Enter Topology ID
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_topology	(Optional) L2RIB Topology Table
<i>topo-id</i>	(Optional) Topology ID
<i>topo-name</i>	(Optional) Topology Name
<i>topo-type</i>	(Optional) Topology Type
<i>vni</i>	(Optional) VNI
<i>encap-type</i>	(Optional) Encap Type
<i>iod</i>	(Optional) IOD
<i>if-hdl</i>	(Optional) Interface Handle
<i>vtep-ip</i>	(Optional) VTEP IP Address
<i>emulated-ip</i>	(Optional) Emulated VTEP IP Address
<i>emulated-ro-ip</i>	(Optional) Emulated RO VTEP IP Address
<i>tx-id</i>	(Optional) Transaction ID for Topology Ack
<i>rcvd-flag</i>	(Optional) Flag to Indicate Topology Ack
<i>rmac</i>	(Optional) Local Router MAC (For L3 VNIs)
<i>vrf-id</i>	(Optional) VRF ID (For L3 VNIs)
<i>vmac</i>	(Optional) Local Virtual MAC (For L3 VNIs)
<i>flags</i>	(Optional) Flags
<i>sub-flags</i>	(Optional) Sub Flags

<i>prev-flags</i>	(Optional) Previous Flags
-------------------	---------------------------

Command Mode

- /exec

show l2route topology

```
show l2route { mac | openflow mac | dataplane mac [ local | remote ] } { topology <topo-id> | all } [ detail ]
[ __readonly__ TABLE_l2route_mac <topo-id> <mac-addr> <prod-type> <flags> <seq-num> <next-hop1>
[ <next-hop2> ] [ <rte-res> ] [ <fwd-state> ] [ <res-pl-next-hop1> ] [ <res-pl-next-hop2> ] [ <sent-to> ] [
<esi-id> ] [ <soo> ] [ <pcinfo> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
dataplane	dataplane
openflow	openflow
mac	MAC Route
all	Display all routes without filtering
local	(Optional) dataplane learnt local routes
remote	(Optional) dataplane learnt remote routes
topology	Filter on topology ID
<i>topo-id</i>	topology ID
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_mac	(Optional) L2RIB Mac All Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>prod-type</i>	(Optional) Producer Type
<i>flags</i>	(Optional) Flags
<i>seq-num</i>	(Optional) Sequence Number
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2
<i>fwd-state</i>	(Optional) Forwarding State
<i>res-pl-next-hop1</i>	(Optional) Resultant PL Next hop1
<i>res-pl-next-hop2</i>	(Optional) Resultant PL Next hop2

<i>rte-res</i>	(Optional) Route Resolution
<i>sent-to</i>	(Optional) Active Clients
<i>esi-id</i>	(Optional) ESI ID
<i>soo</i>	(Optional) SOO
<i>pcinfo</i>	(Optional) Port-Channel Info

Command Mode

- /exec

show l2route topology

```
show l2route { mac-ip | openflow mac-ip } { topology <topo-id> | all } [ detail ] [ __readonly__
TABLE_l2route_mac_ip_openflow <topo-id> <mac-addr> <prod-type> <seq-num> <host-ip> <next-hop1>
[ <next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [ <rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id>
] [ <soo> ] [ <pcinfo> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
mac-ip	MAC-IP Route
all	Display all routes without filtering
openflow	openflow
topology	Filter on topology ID
<i>topo-id</i>	topology ID
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_mac_ip_openflow	(Optional) L2RIB Mac-IP Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>prod-type</i>	(Optional) Producer Type
<i>host-ip</i>	(Optional) Host IP
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2
<i>seq-num</i>	(Optional) Sequence Number
<i>fwd-state</i>	(Optional) Forwarding State
<i>rte-res</i>	(Optional) Route Resolution
<i>sent-to</i>	(Optional) Active Clients
<i>esi-id</i>	(Optional) ESI ID
<i>soo</i>	(Optional) SOO
<i>pcinfo</i>	(Optional) Port-Channel Info

<i>l3-info</i>	(Optional) L3 Information
<i>peerid</i>	(Optional) Peer ID
<i>peer-ifindex</i>	(Optional) Peer Interface Index

Command Mode

- /exec

show lacp counters

```
show lacp counters [ interface <if0> ] [ __readonly__ TABLE_interface <interface> TABLE_member <port>
<pdu-sent> <pdu-rcvd> <marker-rcvd> <marker-resp-sent> <pkt-errors> [ <illegal-rcvd> ] [ <unknown-rcvd>
]]
```

Syntax Description

show	Show running system information
lacp	LACP protocol
counters	LACP counters
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional) Port channel table
<i>interface</i>	(Optional) Port channel
TABLE_member	(Optional) Member port info
<i>port</i>	(Optional) Member port
<i>pdu-sent</i>	(Optional) Number of PDUs sent
<i>pdu-rcvd</i>	(Optional) Number of PDUs received
<i>marker-rcvd</i>	(Optional) Number of Marker PDUs received
<i>marker-resp-sent</i>	(Optional) Number of Marker response PDUs sent
<i>pkt-errors</i>	(Optional) Number of packet errors
<i>illegal-rcvd</i>	(Optional) Number of illegal packets received
<i>unknown-rcvd</i>	(Optional) Number of unknown packets received

Command Mode

- /exec

show lacp interface

```
show lacp interface [ <if0> ] [ __readonly__ <interface> <operational-state> <channel-group> <port-channel>
<pdus-sent> <pdus-rcvd> <marker-sent> <marker-rcvd> <marker-resp-sent> <marker-resp-rcvd>
<unknown-rcvd> <illegal-rcvd> <lag-id> <active-time> { localport <local-interface> <local-mac-address>
<local-system-priority> <local-port-priority> <local-port-num> <local-op-key> <local-activity> <local-timeout>
<local-sync> <local-collecting> <local-distributing> <partner-info-timeout> <local-admin-state>
<local-oper-state> } { partnerport <partner-interface> <partner-mac-address> <partner-system-priority>
<partner-port-priority> <partner-port-num> <partner-op-key> <partner-activity> <partner-timeout>
<partner-sync> <partner-collecting> <partner-distributing> <partner-admin-state> <partner-oper-state> }
<agg-or-indiv> ]
```

Syntax Description

show	Show running system information
lacp	LACP protocol
interface	Specify a interface
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Interface ID
<i>channel-group</i>	(Optional) Channel Group
<i>port-channel</i>	(Optional) Port Channel
<i>lag-id</i>	(Optional) LAG Id
<i>active-time</i>	(Optional) active-time
<i>operational-state</i>	(Optional) Operational State
<i>agg-or-indiv</i>	(Optional) Aggregate or individual port
<i>pdus-rcvd</i>	(Optional) PDUs received
<i>pdus-sent</i>	(Optional) PDUs sent
<i>marker-rcvd</i>	(Optional) Markers received
<i>marker-sent</i>	(Optional) Markers sent
<i>marker-resp-rcvd</i>	(Optional) Marker response received
<i>marker-resp-sent</i>	(Optional) Marker response sent
<i>unknown-rcvd</i>	(Optional) Unknown pdus received
<i>illegal-rcvd</i>	(Optional) Illegal pdus received

<i>localport</i>	(Optional) Local port information
<i>local-interface</i>	(Optional) Interface
<i>local-mac-address</i>	(Optional) MAC Address
<i>local-system-priority</i>	(Optional) System Priority
<i>local-port-priority</i>	(Optional) Port Priority
<i>local-port-num</i>	(Optional) Port Number
<i>local-op-key</i>	(Optional) Operational Key
<i>local-admin-state</i>	(Optional) Local Admin State
<i>local-oper-state</i>	(Optional) Local Oper State
<i>local-activity</i>	(Optional) Mode
<i>local-timeout</i>	(Optional) Timeout
<i>local-sync</i>	(Optional) Synchronization
<i>local-distributing</i>	(Optional) Distributing
<i>local-collecting</i>	(Optional) Collecting
<i>partner-info-timeout</i>	(Optional) Partner information refresh timeout
<i>partnerport</i>	(Optional) Partner port information
<i>partner-interface</i>	(Optional) Partner Interface
<i>partner-mac-address</i>	(Optional) Partner MAC Address
<i>partner-system-priority</i>	(Optional) Partner System Priority
<i>partner-port-priority</i>	(Optional) Partner Port Priority
<i>partner-port-num</i>	(Optional) Partner Port Number
<i>partner-op-key</i>	(Optional) Operational Key
<i>partner-admin-state</i>	(Optional) Partner Admin State
<i>partner-oper-state</i>	(Optional) Partner Oper State
<i>partner-activity</i>	(Optional) Mode
<i>partner-timeout</i>	(Optional) Timeout
<i>partner-sync</i>	(Optional) Synchronization
<i>partner-distributing</i>	(Optional) Distributing
<i>partner-collecting</i>	(Optional) Collecting

Command Mode

- /exec

show lacp issu-impact

show lacp issu-impact [__readonly__ TABLE_interface <interface>]

Syntax Description

show	Show running system information
lacp	Show LACP information
issu-impact	Check for ISSU readiness
__readonly__	(Optional)
TABLE_interface	(Optional) Port-channel issu-impact member list
<i>interface</i>	(Optional) Port-channel Member

Command Mode

- /exec

show lacp neighbor

```
show lacp neighbor [ interface <if0> ] [ __readonly__ TABLE_interface <interface> TABLE_member <port>
<partner-system-id> <partner-port-num> <partner-age> <partner-flags> <partner-port-priority>
<partner-oper-key> <partner-port-state> ]
```

Syntax Description

show	Show running system information
lacp	LACP protocol
neighbor	LACP interface neighbor
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional) Port channel table
<i>interface</i>	(Optional) Port channel
TABLE_member	(Optional) Member port info
<i>port</i>	(Optional) Member port
<i>partner-system-id</i>	(Optional) Partner System ID
<i>partner-port-num</i>	(Optional) Partner Port Number
<i>partner-age</i>	(Optional) Partner age
<i>partner-flags</i>	(Optional) Partner flags
<i>partner-port-priority</i>	(Optional) Partner Port Priority
<i>partner-oper-key</i>	(Optional) Partner oper key
<i>partner-port-state</i>	(Optional) Partner port state

Command Mode

- /exec

show lacp port-channel

```
show lacp port-channel [ interface <if0> ] [ __readonly__ TABLE _interface <interface> <aggr-mac-address>
<local-system-priority> <local-system-id> <local-admin-key> <local-oper-key> <partner-system-priority>
<partner-system-id> <partner-oper-key> <max-delay> <agg-or-indiv> { <port-list> } + ]
```

Syntax Description

show	Show running system information
lacp	LACP protocol
port-channel	LACP port-channels
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>TABLE _interface</i>	(Optional) Port channel table
<i>interface</i>	(Optional) Port channel
<i>aggr-mac-address</i>	(Optional) Mac Address of aggregator
<i>local-system-priority</i>	(Optional) Local System Priority
<i>local-system-id</i>	(Optional) Local System-Id
<i>local-admin-key</i>	(Optional) Local admin key
<i>local-oper-key</i>	(Optional) Local oper key
<i>partner-system-priority</i>	(Optional) Partner System Priority
<i>partner-system-id</i>	(Optional) Partner System-Id
<i>partner-oper-key</i>	(Optional) Partner oper key
<i>max-delay</i>	(Optional) Maximum delay between aggregator and mac-client
<i>agg-or-indiv</i>	(Optional) Aggregate or individual port
<i>port-list</i>	(Optional) List of port names for member ports

Command Mode

- /exec

show lacp system-identifier

show lacp system-identifier [__readonly__ <system-priority> <system-mac>]

Syntax Description

show	Show running system information
lacp	LACP protocol
system-identifier	Show system-identifier information
__readonly__	(Optional)
<i>system-priority</i>	(Optional) System priority
<i>system-mac</i>	(Optional) System mac address

Command Mode

- /exec

show ldap-search-map

```
show ldap-search-map [ __readonly__ { number_of_search_maps <search_map_count> } {
TABLE_ldap_searchmaps <map_name> [ <map_baseDN> <map_attr> <map_filter> ] } ]
```

Syntax Description

<i>__readonly__</i>	(Optional)
<i>number_of_search_maps</i>	(Optional) Total number of search maps configured
<i>search_map_count</i>	(Optional) Ldap Search map count
TABLE_ldap_searchmaps	(Optional) Ldap search map configuration
<i>map_name</i>	(Optional) Search map name
<i>map_baseDN</i>	(Optional) Ldap base DN
<i>map_attr</i>	(Optional) Search map attribute
<i>map_filter</i>	(Optional) Ldap Search filter
show	Show running system information
ldap-search-map	Show LDAP configuration information

Command Mode

- /exec

show ldap-server

```
show ldap-server [ __readonly__ { global_timeout <g_timeout> } { global_port <g_port> } { global_deadtime
<g_deadtime> } { total_number_of_server <g_servers_count> } { TABLE_ldap_hosts <ldap_host>
<h_idletime> <h_test_user> <h_test_passwd> [ <h_test_dn> ] <h_timeout> <h_port> <h_rootDN>
<h_ssl_enable> } ]
```

Syntax Description

<code>__readonly__</code>	(Optional)
<code>TABLE_ldap_hosts</code>	(Optional) Ldap host configuration
<code>global_timeout</code>	(Optional) Ldap host global timeout
<code>global_port</code>	(Optional) Ldap host global port
<code>global_deadtime</code>	(Optional) Ldap host global deadtime
<code>total_number_of_server</code>	(Optional) Total number of ldap hosts configured
<code>g_servers_count</code>	(Optional) Total number of ldap hosts configured
<code>g_timeout</code>	(Optional) global timeout value
<code>g_port</code>	(Optional) Global ldap port
<code>g_deadtime</code>	(Optional) Global deadtime value
<code>ldap_host</code>	(Optional) Ldap host
<code>h_idletime</code>	(Optional) Ldap host idletime
<code>h_test_user</code>	(Optional) Ldap host testuser
<code>h_test_passwd</code>	(Optional) Ldap host password
<code>h_test_dn</code>	(Optional) Ldap testuser dn
<code>h_timeout</code>	(Optional) Ldap host timeout
<code>h_port</code>	(Optional) Ldap host port
<code>h_rootDN</code>	(Optional) Ldap host RootDN
<code>h_ssl_enable</code>	(Optional) Ldap host ssl configuration
<code>show</code>	Show running system information
<code>ldap-server</code>	Show LDAP configuration information

Command Mode

- /exec

show ldap-server groups

```
show ldap-server groups [ __readonly__ { total_number_of_groups <total_groups_count> } { TABLE_groups
<g_name> <g_vrf> <g_mode> <is_bind_and_search> <g_append_with_baseDN> <g_compare_or_bind>
<g_cmp_passwd_attr> [ <user-server-group> ] [ <Cert-DN-match> ] <auth_mechanism> [ TABLE_g_servers
<g_server> <g_port> <g_timeout> ] [ <g_search_map> ] } ]
```

Syntax Description

show	Show running system information
ldap-server	Show LDAP configuration information
groups	Show LDAP server group configuration information
<i>__readonly__</i>	(Optional)
<i>total_number_of_groups</i>	(Optional) Total number of Ldap groups configured
<i>total_groups_count</i>	(Optional) Ldap group count
TABLE_groups	(Optional) LDAP Group information
<i>g_name</i>	(Optional) Ldap group name
<i>g_vrf</i>	(Optional) LDAP group vrf
<i>g_mode</i>	(Optional) LDAP group mode
<i>is_bind_and_search</i>	(Optional) Ldap Authentication bind or search
<i>g_append_with_baseDN</i>	(Optional) LDAP baseDN append information
<i>g_compare_or_bind</i>	(Optional) LDAP bind or compare
<i>g_cmp_passwd_attr</i>	(Optional) LDAP compare password attribute
<i>user-server-group</i>	(Optional) Ldap server group validation
<i>Cert-DN-match</i>	(Optional) Ldap group CERT-DN match
<i>auth_mechanism</i>	(Optional) Ldap server group authentication mechanism
TABLE_g_servers	(Optional) LDAP group server information
<i>g_server</i>	(Optional) LDAP group host
<i>g_port</i>	(Optional) LDAP group host port
<i>g_timeout</i>	(Optional) LDAP griup host timeout
<i>g_search_map</i>	(Optional) LDAP group search map

Command Mode

- /exec

show ldap-server statistics

```
show ldap-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timeout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timeout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } ] ]
```

Syntax Description

show	Show running system information
ldap-server	Show LDAP configuration information
statistics	Show LDAP statistics
<i>host0</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>server_state</i>	(Optional) Show state of server
<i>clock_time</i>	(Optional) Show clock time in terms of hours, minutes and seconds
<i>monitoring_statistics</i>	(Optional) Monitoring Statistics
<i>time_in_pstate</i>	(Optional) Time in previous state
<i>ndead</i>	(Optional) Number of times dead
<i>tt_in_dstate</i>	(Optional) Total time in dead state
<i>auth_statistics</i>	(Optional) Authentication Statistics
<i>acct_statistics</i>	(Optional) Accounting Statistics
<i>auth_failed_transactions</i>	(Optional) Authentication: Failed transactions
<i>auth_succ_transactions</i>	(Optional) Authentication: Successful transactions
<i>auth_req_sent</i>	(Optional) Authentication: Requests sent
<i>auth_req_timeout</i>	(Optional) Authentication: Requests timeout
<i>auth_resp_no_match</i>	(Optional) Authentication: Responses with no matching requests
<i>auth_resp_not_processed</i>	(Optional) Authentication: Responses not processed
<i>auth_resp_error</i>	(Optional) Authentication: Responses containing errors
<i>acct_failed_transactions</i>	(Optional) Accounting: Failed transactions
<i>acct_succ_transactions</i>	(Optional) Accounting: Successful transactions

<i>acct_req_sent</i>	(Optional) Accounting: Requests sent
<i>acct_req_timeout</i>	(Optional) Accounting: Requests timeout
<i>acct_resp_no_match</i>	(Optional) Accounting: Responses with no matching requests
<i>acct_resp_not_processed</i>	(Optional) Accounting: Responses not processed
<i>acct_resp_error</i>	(Optional) Accounting: Responses containing errors

Command Mode

- /exec

show license

```
show license [ __readonly__ { [ <lic_file_name> <lic_file_contents> ] + } ]
```

Syntax Description

show	Show running system information
license	show the contents of all the license files
<i>__readonly__</i>	(Optional) Read only
<i>lic_file_name</i>	(Optional) Name of the license file
<i>lic_file_contents</i>	(Optional) License file contents

Command Mode

- /exec

show license brief

```
show license brief [ __readonly__ { [ <lic_file_name> ] + } ]
```

Syntax Description

show	Show running system information
license	show the contents of all the license files
brief	Show a list of license files
__readonly__	(Optional) Read only
<i>lic_file_name</i>	(Optional) Name of the license file

Command Mode

- /exec

show license file

```
show license file <license-file> [ __readonly__ { [ <lic_file_contents> ] + } ]
```

Syntax Description

show	Show running system information
license	Show the contents of all the license files
file	Show contents of a license file
<i>license-file</i>	Show the contents of license file __nil__ Please install a license before using this command.
<i>__readonly__</i>	(Optional) Read only
<i>lic_file_contents</i>	(Optional) License file contents

Command Mode

- /exec

show license host-id

```
show license host-id [ __readonly__ { <host_id> } ]
```

Syntax Description

show	Show running system information
license	show the contents of all the license files
host-id	Show unique id for this host for licensing
__readonly__	(Optional) Read only
<i>host_id</i>	(Optional) unique id for this host for licensing

Command Mode

- /exec

show license reserved

show license reserved

Syntax Description

show	show commands
license	Display licensing information
reserved	Display reserved licenses information

Command Mode

- /exec

show license usage

```
show license usage [ { detail | <license-feature> } ] [ __readonly__ { TABLE_show_lic_usage <feature_name>
<lic_installed> <count> <status> <expiry_date> <comments> } <application_name> ]
```

Syntax Description

show	Show running system information
license	show the contents of all the license files
usage	Show license usage table
detail	(Optional) Show license usage table
<i>license-feature</i>	(Optional) Show services using license
<i>__readonly__</i>	(Optional) Read only
TABLE_show_lic_usage	(Optional) License usage
<i>feature_name</i>	(Optional) Name of the feature
<i>lic_installed</i>	(Optional) Is the license installed?
<i>count</i>	(Optional) License count
<i>status</i>	(Optional) License status
<i>expiry_date</i>	(Optional) Expiry date of the license
<i>comments</i>	(Optional) License comments
<i>application_name</i>	(Optional) Name of the application using the license

Command Mode

- /exec

show line

```
show line [ __readonly__ <speed> <databits> <stopbits> <parity> <modem_in> <modem_init_str> <stat> [
TABLE_ps_output <ps> ] [ <speed_aux> <databits_aux> <stopbits_aux> <parity_aux> <modem_in_aux>
<modem_init_str_aux> <hw_fc_aux> <stat_aux> [ TABLE_ps_output_aux <ps_aux> ] ] ]
```

Syntax Description

show	Show running system information
line	Show the line configuration
<i>__readonly__</i>	(Optional)
TABLE_ps_output	(Optional) Process info for console login
TABLE_ps_output_aux	(Optional) Process info for com1 login
<i>speed</i>	(Optional) Port speed(baud)
<i>databits</i>	(Optional) Bits per byte
<i>stopbits</i>	(Optional) Bits
<i>parity</i>	(Optional) Parity
<i>modem_in</i>	(Optional) Modem In
<i>modem_init_str</i>	(Optional) Modem Init-String
<i>stat</i>	(Optional) Statistics
<i>ps</i>	(Optional) Login process
<i>speed_aux</i>	(Optional) Port speed(baud)
<i>databits_aux</i>	(Optional) Bits per byte
<i>stopbits_aux</i>	(Optional) Bits
<i>parity_aux</i>	(Optional) Parity
<i>modem_in_aux</i>	(Optional) Modem In
<i>modem_init_str_aux</i>	(Optional) Modem Init-String
<i>hw_fc_aux</i>	(Optional) Hardware Flowcontrol
<i>stat_aux</i>	(Optional) Statistics
<i>ps_aux</i>	(Optional) Login process

Command Mode

- /exec

show line console

```
show line console [ __readonly__ <speed> <databits> <stopbits> <parity> <modem_in> <modem_init_str>
<stat> [ TABLE_ps_output <ps> ] ]
```

Syntax Description

show	Show running system information
line	Show the line configuration
console	Show console line configurations
<i>__readonly__</i>	(Optional)
TABLE_ps_output	(Optional) Process info for console login
<i>speed</i>	(Optional) Port speed(baud)
<i>databits</i>	(Optional) Bits per byte
<i>stopbits</i>	(Optional) Bits
<i>parity</i>	(Optional) Parity
<i>modem_in</i>	(Optional) Modem In
<i>modem_init_str</i>	(Optional) Modem Init-String
<i>stat</i>	(Optional) Statistics
<i>ps</i>	(Optional) Login process

Command Mode

- /exec

show line console connected

show line console connected [__readonly__ <output>]

Syntax Description

show	Show running system information
line	Show the line configuration
console	Show console line configurations
connected	Show whether the line is currently connected physically
__readonly__	(Optional)
<i>output</i>	(Optional) output string

Command Mode

- /exec

show line console user-input-string

show line console user-input-string [__readonly__ <input>]

Syntax Description

show	Show running system information
line	Show the line configuration
console	Show console line configurations
user-input-string	Show user-input init string
__readonly__	(Optional)
<i>input</i>	(Optional) user input string

Command Mode

- /exec

show lisp ddt

```
show lisp ddt [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
lisp	LISP show commands
ddt	LISP Delegated Database Tree (LISP-DDT)
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show lisp ddt queue

```
show lisp ddt queue [ [ instance-id <iid> ] { <eid> | <eid6> } ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
lisp	LISP show commands
ddt	LISP Delegated Database Tree (LISP-DDT)
queue	Display LISP-DDT Map-Request queue in Map-Resolver
instance-id	(Optional) Show instance-ID summary display
<i>iid</i>	(Optional) Instance-ID for EID-prefix
<i>eid</i>	(Optional) IPv4 EID address
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show lisp ddt referral-cache

```
{ show lisp ddt referral-cache [ [ instance-id <iid> ] { <eid> | <eid6> } ] [ vrf { <vrf-name> | <vrf-known-name> } ] } | { show lisp ddt referral-cache { ms-ack | ms-referral | node-referral | ms-not-registered | delegation-hole | not-authoritative } [ vrf { <vrf-name> | <vrf-known-name> } ] }
```

Syntax Description

show	Show running system information
lisp	LISP show commands
ddt	LISP Delegated Database Tree (LISP-DDT)
referral-cache	Display LISP-DDT referral cache
instance-id	(Optional) Show instance-ID summary display
<i>iid</i>	(Optional) Instance-ID for EID-prefix
<i>eid</i>	(Optional) IPv4 EID address
ms-ack	Referral cache entries to map-servers
ms-referral	Referral cache entries from parent of map-servers
node-referral	Referral cache entries from parent of DDT-nodes
ms-not-registered	Referral cache entries from map-servers
delegation-hole	Referral cache entries from any DDT-node
not-authoritative	Referral cache entries from any DDT-node
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show lisp dynamic-eid

```
{ show lisp dynamic-eid { summary | { [ <dyn-eid-name> ] [ detail ] } } [ vrf { <vrf-name> | <vrf-known-name> } ] }
```

Syntax Description

show	Show running system information
lisp	LISP show commands
dynamic-eid	Display dynamic-EIDs configured and discovered
summary	One-line summary display of discovered dynamic-EIDs
<i>dyn-eid-name</i>	(Optional) Display a single dynamic-EID
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
detail	(Optional) Display discovered dynamic-EIDs

Command Mode

- /exec

show lisp elp

```
show lisp elp [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
lisp	LISP show commands
elp	Display LISP Explicit Locator Paths configured
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show lisp negative-prefix

show lisp negative-prefix { <eid> | <eid6> } [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

show	Show running system information
lisp	LISP show commands
negative-prefix	Compute negative-prefix for hole in EID space
<i>eid</i>	IPv4 EID address
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show lisp proxy-itr

```
show lisp proxy-itr [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
lisp	LISP show commands
proxy-itr	Display discovered proxy-ITRs (PITRs)
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show lisp site

```
{ show lisp site [ { { <eid> | <eid6> } [ instance-id <iid> ] } | { { <eid-prefix> | <eid-prefix6> } [ instance-id <iid> ] } | <site-name> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] }
```

Syntax Description

show	Show running system information
lisp	LISP show commands
site	Display Map-Server site EID-prefixes configured
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>eid</i>	(Optional) Display mapping for IP destination EID
<i>eid-prefix</i>	(Optional) Display exact match for IP EID-prefix entry
instance-id	(Optional) Instance EID-prefix registered in
<i>iid</i>	(Optional) Instance-ID value
<i>site-name</i>	(Optional) Display a single site
detail	(Optional) Display allowed registered locator sources

Command Mode

- /exec

show lisp site instance-id

```
{ show lisp site instance-id [ <iid> ] [ vrf { <vrf-name> | <vrf-known-name> } ] }
```

Syntax Description

show	Show running system information
lisp	LISP show commands
site	Display Map-Server site EID-prefixes configured
instance-id	Show instance-ID summary display
<i>iid</i>	(Optional) Show detail for entries of a single Instance-ID
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show lisp smr

```
show lisp smr [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
lisp	LISP show commands
smr	Display SMR state for dynamic-EIDs
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show lisp stats-cache

```
show lisp stats-cache [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
lisp	LISP show commands
stats-cache	Show dynamic statistics cache
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show lldp all

show lldp all [*__readonly__* *TABLE_lldp_all* <*intf_desc*> <*lldp_tx*> <*lldp_rx*> <*lldp_dcbx*>]

Syntax Description

show	Show running system information
lldp	Show lldp Protocol information
all	Show all interfaces in lldp database
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_lldp_all</i>	(Optional) output of show lldp all
<i>intf_desc</i>	(Optional) Interface desc
<i>lldp_tx</i>	(Optional) lldp tx status
<i>lldp_rx</i>	(Optional) lldp rx status
<i>lldp_dcbx</i>	(Optional) lldp dcbx status

Command Mode

- /exec

show lldp dcbx interface

```
show lldp dcbx interface <if0> [ __readonly__ <interface> [ <l_op_ver> <l_max_ver> <l_seq_no> <l_ack_no>
[ <l_feature> <l_cfg_len> <l_cfg> ]+ ] [ <p_op_ver> <p_max_ver> <p_seq_no> <p_ack_no> [ <p_tlv_type>
<p_tlv_len> <p_tlv_value> ]+ ] ]
```

Syntax Description

show	Show running system information
lldp	Show information about lldp
dcbx	Show dcbx information
interface	Show lldp interface information
<i>if0</i>	Enter interface
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Interface ID
<i>l_op_ver</i>	(Optional) local dcbx control operation version
<i>l_max_ver</i>	(Optional) local dcbx control maximum version
<i>l_seq_no</i>	(Optional) local dcbx control seq no
<i>l_ack_no</i>	(Optional) local dcbx control ack no
<i>l_feature</i>	(Optional) local feature
<i>l_cfg_len</i>	(Optional) local feature config length
<i>l_cfg</i>	(Optional) local feature config
<i>p_op_ver</i>	(Optional) peer dcbx control operation version
<i>p_max_ver</i>	(Optional) peer dcbx control maximum version
<i>p_seq_no</i>	(Optional) peer dcbx control seq no
<i>p_ack_no</i>	(Optional) peer dcbx control ack no
<i>p_tlv_type</i>	(Optional) peer TLV type field
<i>p_tlv_len</i>	(Optional) peer TLV len field
<i>p_tlv_value</i>	(Optional) peer TLV value field

Command Mode

- /exec

show lldp entry

```
show lldp entry [ <sys-name> ] [ __readonly__ { <neigh_hdr> } { TABLE_entry <chassis_type> <chassis_id>
<port_type> <port_id> <l_port_id> <port_desc> <sys_name> <sys_desc> <ttl> <capability>
<mgmt_addr_type> <mgmt_addr> <mgmt_addr_ipv6_type> <mgmt_addr_ipv6> <vlan_id> } { <neigh_count>
} ]
```

Syntax Description

show	Show running system information
lldp	Show information about lldp
entry	Show lldp entry information
<i>sys-name</i>	(Optional) WORD Peer's System name
<i>__readonly__</i>	(Optional)
<i>neigh_hdr</i>	(Optional)
TABLE_entry	(Optional) Table Entry
<i>chassis_type</i>	(Optional) Chassis ID type
<i>chassis_id</i>	(Optional) Chassis ID
<i>port_type</i>	(Optional) Port ID type
<i>port_id</i>	(Optional) Port ID
<i>l_port_id</i>	(Optional) Port ID
<i>port_desc</i>	(Optional) Port description
<i>sys_name</i>	(Optional) System name
<i>sys_desc</i>	(Optional) System description
<i>ttl</i>	(Optional) Time to live
<i>capability</i>	(Optional) Capability
<i>mgmt_addr_type</i>	(Optional) Management Address type
<i>mgmt_addr</i>	(Optional) Management Address
<i>mgmt_addr_ipv6_type</i>	(Optional) IPV6 Management Address type
<i>mgmt_addr_ipv6</i>	(Optional) IPV6 Management Address
<i>vlan_id</i>	(Optional) Vlan ID
<i>neigh_count</i>	(Optional)

Command Mode

- /exec

show lldp interface

```
show lldp interface <if0> [ __readonly__ <interface> <tx_en> <rx_en> <dcbx_en> <port_mac> [ <tlv_type>
<tlv_len> <tlv_value> ] + [ <l_op_ver> <l_max_ver> <l_seq_no> <l_ack_no> [ <l_feature> <l_cfg_len>
<l_cfg> ] + ] [ <p_op_ver> <p_max_ver> <p_seq_no> <p_ack_no> [ <p_tlv_type> <p_tlv_len> <p_tlv_value>
] + ] ]
```

Syntax Description

show	Show running system information
lldp	Show information about lldp
interface	Show lldp interface information
<i>if0</i>	Enter interface
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Interface ID
<i>tx_en</i>	(Optional) tx enable
<i>rx_en</i>	(Optional) rx enable
<i>dcbx_en</i>	(Optional) dcbox enable
<i>port_mac</i>	(Optional) Port mac address
<i>tlv_type</i>	(Optional) TLV type field
<i>tlv_len</i>	(Optional) TLV len field
<i>tlv_value</i>	(Optional) TLV value field
<i>l_op_ver</i>	(Optional) local dcbox control operation version
<i>l_max_ver</i>	(Optional) local dcbox control maximum version
<i>l_seq_no</i>	(Optional) local dcbox control seq no
<i>l_ack_no</i>	(Optional) local dcbox control ack no
<i>l_feature</i>	(Optional) local feature
<i>l_cfg_len</i>	(Optional) local feature config length
<i>l_cfg</i>	(Optional) local feature config
<i>p_op_ver</i>	(Optional) peer dcbox control operation version
<i>p_max_ver</i>	(Optional) peer dcbox control maximum version
<i>p_seq_no</i>	(Optional) peer dcbox control seq no

<i>p_ack_no</i>	(Optional) peer dcbx control ack no
<i>p_tlv_type</i>	(Optional) peer TLV type field
<i>p_tlv_len</i>	(Optional) peer TLV len field
<i>p_tlv_value</i>	(Optional) peer TLV value field

Command Mode

- /exec

show lldp neighbors

```
show lldp neighbors [ interface <if> ] [ __readonly__ { <neigh_hdr> } { TABLE_nbor <chassis_type>
<chassis_id> <l_port_id> <ttl> <capability> <system_capability> <enabled_capability> <port_type> <port_id>
<mgmt_addr_type> <mgmt_addr> <mgmt_addr_ipv6_type> <mgmt_addr_ipv6> } { <neigh_count> } ]
```

Syntax Description

show	Show running system information
lldp	Show information about lldp
neighbors	Show lldp neighbor information
interface	(Optional) Show lldp neighbor information on an interface
<i>if</i>	(Optional) Enter interface
<i>__readonly__</i>	(Optional)
<i>neigh_hdr</i>	(Optional)
TABLE_nbor	(Optional) Neighbor Table
<i>chassis_type</i>	(Optional) Chassis ID type
<i>chassis_id</i>	(Optional) Chassis ID
<i>l_port_id</i>	(Optional) Local port ID
<i>ttl</i>	(Optional) Time to live
<i>capability</i>	(Optional) Capability
<i>system_capability</i>	(Optional) System Capability
<i>enabled_capability</i>	(Optional) Enabled Capability
<i>port_type</i>	(Optional) Port ID type
<i>port_id</i>	(Optional) Port ID
<i>mgmt_addr_type</i>	(Optional) Management Address type
<i>mgmt_addr</i>	(Optional) Management Address
<i>mgmt_addr_ipv6_type</i>	(Optional) IPV6 Management Address type
<i>mgmt_addr_ipv6</i>	(Optional) IPV6 Management Address
<i>neigh_count</i>	(Optional)

Command Mode

- /exec

show lldp neighbors detail

```
show lldp neighbors [ interface <if> ] detail [ __readonly__ { <neigh_hdr> } { TABLE_nbor_detail
<chassis_type> <chassis_id> <port_type> <port_id> <l_port_id> <port_desc> <sys_name> <sys_desc> <ttl>
<capability> <system_capability> <enabled_capability> <mgmt_addr_type> <mgmt_addr>
<mgmt_addr_ipv6_type> <mgmt_addr_ipv6> <vlan_id> <invalid_vlan_id> } { <neigh_count> } ]
```

Syntax Description

show	Show running system information
lldp	Show information about lldp
neighbors	Show lldp neighbor information
interface	(Optional) Show lldp neighbor information on an interface
<i>if</i>	(Optional) Enter interface
detail	Show lldp neighbor detail information
<i>__readonly__</i>	(Optional)
<i>neigh_hdr</i>	(Optional)
TABLE_nbor_detail	(Optional) Neighbor detail Table
<i>chassis_type</i>	(Optional) Chassis ID type
<i>chassis_id</i>	(Optional) Chassis ID
<i>port_type</i>	(Optional) Port ID type
<i>port_id</i>	(Optional) Port ID
<i>l_port_id</i>	(Optional) Port ID
<i>port_desc</i>	(Optional) Port description
<i>sys_name</i>	(Optional) System name
<i>sys_desc</i>	(Optional) System description
<i>ttl</i>	(Optional) Time to live
<i>capability</i>	(Optional) Capability
<i>system_capability</i>	(Optional) System Capability
<i>enabled_capability</i>	(Optional) Enabled Capability
<i>mgmt_addr_type</i>	(Optional) Management Address type
<i>mgmt_addr</i>	(Optional) Management Address

<i>mgmt_addr_ipv6_type</i>	(Optional) IPV6 Management Address type
<i>mgmt_addr_ipv6</i>	(Optional) IPV6 Management Address
<i>vlan_id</i>	(Optional) Vlan ID
<i>invalid_vlan_id</i>	(Optional) Invalid Vlan ID
<i>neigh_count</i>	(Optional)

Command Mode

- /exec

show lldp neighbors system-detail

```
show lldp neighbors [ interface <if> ] system-detail [ __readonly__ { <neigh_hdr> } { TABLE_nbor_sys_detail
<sys_type> <sys_name> <l_port_id> <chassis_type> <chassis_id> <port_type> <port_id> <ttl> <capability>
<mgmt_addr_type> <mgmt_addr> } { <neigh_count> } ]
```

Syntax Description

show	Show running system information
lldp	Show information about lldp
neighbors	Show lldp neighbor information
interface	(Optional) Show lldp neighbor information on an interface
<i>if</i>	(Optional) Enter interface
system-detail	Show lldp neighbor system detail information
<i>__readonly__</i>	(Optional)
<i>neigh_hdr</i>	(Optional)
TABLE_nbor_sys_detail	(Optional) Neighbor sys-detail Table
<i>sys_type</i>	(Optional) System Type
<i>sys_name</i>	(Optional) System Name
<i>l_port_id</i>	(Optional) Local port ID
<i>chassis_type</i>	(Optional) Chassis ID type
<i>chassis_id</i>	(Optional) Chassis ID
<i>port_type</i>	(Optional) Port ID type
<i>port_id</i>	(Optional) Port ID
<i>ttl</i>	(Optional) Time to live
<i>capability</i>	(Optional) Capability
<i>mgmt_addr_type</i>	(Optional) Management Address type
<i>mgmt_addr</i>	(Optional) Management Address
<i>neigh_count</i>	(Optional)

Command Mode

- /exec

show lldp portid-subtype

```
show lldp portid-subtype [ __readonly__ <portid_subtype> ]
```

Syntax Description

show	Show running system information
lldp	Show information about lldp
portid-subtype	Show lldp portid-subtype
__readonly__	(Optional)
<i>portid_subtype</i>	(Optional) portid-subtype for LLDP TLV and MIBs

Command Mode

- /exec

show lldp timers

```
show lldp timers [ __readonly__ <ttl> <reinit> <tx_interval> <tx_delay> <hold_mplier> <notification_interval> ]
```

Syntax Description

show	Show running system information
lldp	Show information about lldp
timers	Show lldp timers
<i>__readonly__</i>	(Optional)
<i>ttl</i>	(Optional) Time to Live for lldp info
<i>reinit</i>	(Optional) Interface reinit timer
<i>tx_interval</i>	(Optional) Wait interval between successive transmit
<i>tx_delay</i>	(Optional) Delay between successive frame transmissions
<i>hold_mplier</i>	(Optional) Hold multiplier for ttl
<i>notification_interval</i>	(Optional) Notification interval for SNMP trap

Command Mode

- /exec

show lldp tlv-select

```
show lldp tlv-select [ __readonly__ <management-address-v4> <management-address-v6> <port-description>
<port-vlan> <system-capabilities> <system-description> <system-name> <dcbpx> ]
```

Syntax Description

show	Show running system information
lldp	Show information about lldp
tlv-select	Show lldp tlv-select
<i>__readonly__</i>	(Optional)
<i>management-address-v4</i>	(Optional) Management address v4
<i>management-address-v6</i>	(Optional) Management address v6
<i>port-description</i>	(Optional) Port description
<i>port-vlan</i>	(Optional) Port vlan
<i>system-capabilities</i>	(Optional) System capabilities
<i>system-description</i>	(Optional) System description
<i>system-name</i>	(Optional) System name
<i>dcbpx</i>	(Optional) DCBXP

Command Mode

- /exec

show lldp traffic

show lldp traffic [*__readonly__* <*tx_cnt*> <*aged_cnt*> <*rx_cnt*> <*rx_err*> <*disc_cnt*> <*unrecognized_tlv*>]

Syntax Description

show	Show running system information
lldp	Show information about lldp
traffic	Show lldp counters
<i>__readonly__</i>	(Optional)
<i>tx_cnt</i>	(Optional) Transmit count
<i>aged_cnt</i>	(Optional) Aged out count
<i>rx_cnt</i>	(Optional) Received count
<i>rx_err</i>	(Optional) Received error count
<i>disc_cnt</i>	(Optional) Disconnect count
<i>unrecognized_tlv</i>	(Optional) Unrecognized TLV count

Command Mode

- /exec

show lldp traffic interface

```
show lldp traffic interface <if> [ __readonly__ <interface> <tx_cnt> <aged_cnt> <rx_cnt> <rx_err> <disc_cnt>
<unrecognized_tlv> ]
```

Syntax Description

show	Show running system information
lldp	Show information about lldp
traffic	Show lldp counters
interface	Show lldp traffic counters on an interface
<i>if</i>	Enter interface
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Interface ID
<i>tx_cnt</i>	(Optional) Transmit count
<i>aged_cnt</i>	(Optional) Aged out count
<i>rx_cnt</i>	(Optional) Received count
<i>rx_err</i>	(Optional) Received error count
<i>disc_cnt</i>	(Optional) Disconnect count
<i>unrecognized_tlv</i>	(Optional) Unrecognized TLV count

Command Mode

- /exec

show locator-led status

show locator-led status

Syntax Description

show	Show running system information
locator-led	Blink locator LED on device
status	View which modules have locator LED set

Command Mode

- /exec

show locator-led status

show locator-led status [*__readonly__* { *TABLE_loc_led_stat* <component> <status> }]

Syntax Description

show	Show running system information
locator-led	blink locator led on device
status	status
<i>__readonly__</i>	(Optional)
<i>TABLE_loc_led_stat</i>	(Optional)
<i>component</i>	(Optional)
<i>status</i>	(Optional)

Command Mode

- /exec

show logging

show logging

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile

Command Mode

- /exec

show logging console

show logging console

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
console	Show console logging configuration

Command Mode

- /exec

show logging info

```
show logging info [ __readonly__ { <console_status> [ <console_severity> ] } { <monitor_status> [
<monitor_severity> ] } { <linecard_status> [ <linecard_severity> ] } { <log_timestamp> } [ {
<source_interface_status> } [ <source_interface_intf> | <source_interface_intf_index> <source_interface_error>
] ] { <server_status> [ { TABLE_logserver <server> <forwarding> <severity> <facility> <vrf> <port> } ] } { {
<origin_id_status> } [ <origin_id> ] } [ [ <logflash_status> ] [ <logflash_severity> ] ] { <logfile_status> [
<logfile_name> <logfile_severity> <logfile_size> ] } { { TABLE_facility <fac_name> <def_level> <cur_level>
} { <fac_info> } } ]
```

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
info	Show logging configuration
<i>__readonly__</i>	(Optional)
<i>console_status</i>	(Optional) console logging status
<i>console_severity</i>	(Optional) console logging level
<i>monitor_status</i>	(Optional) monitor logging status
<i>monitor_severity</i>	(Optional) monitor logging level
<i>linecard_status</i>	(Optional) linecard logging status
<i>linecard_severity</i>	(Optional) linecard logging level
<i>log_timestamp</i>	(Optional) timestamp unit
<i>source_interface_status</i>	(Optional) source-interface logging status
<i>source_interface_intf</i>	(Optional) source-interface interface
<i>server_status</i>	(Optional) logging server status
TABLE_logserver	(Optional) output of show logging server
<i>origin_id_status</i>	(Optional) origin-id status
<i>origin_id</i>	(Optional) origin-id
<i>logflash_status</i>	(Optional) logflash status
<i>logflash_severity</i>	(Optional) logflash level
<i>logfile_status</i>	(Optional) logfile status
TABLE_facility	(Optional) output of show logging level(facility)
<i>fac_info</i>	(Optional) level info

Command Mode

- /exec

show logging ip access-list cache

```
show logging ip access-list cache [ detail ] [ __readonly__ <disp_flags> <sgt> <src_ip> <dst_ip> <src_port>
<dst_port> <if_index> <proto> <hit_cnt> <acl_name> <acl_num> <acl_permit> <acl_ingress> <acl_type>
<acl_appl_if_index> <acl_fltr_hit_cnt> ]
```

Syntax Description

show	Show running system information
logging	logging information
ip	IP configuration
access-list	Access-list
cache	logging
detail	(Optional) Show additional details about entries in cache
<i>__readonly__</i>	(Optional)
<i>disp_flags</i>	(Optional) Display flags
<i>sgt</i>	(Optional) SGT
<i>src_ip</i>	(Optional) Source IP
<i>dst_ip</i>	(Optional) Dest IP
<i>src_port</i>	(Optional) Source port
<i>dst_port</i>	(Optional) Dest port
<i>if_index</i>	(Optional) Interface
<i>proto</i>	(Optional) Protocol
<i>hit_cnt</i>	(Optional) Hits
<i>acl_name</i>	(Optional) ACL Name
<i>acl_num</i>	(Optional) ACL Number
<i>acl_permit</i>	(Optional) ACL Permit
<i>acl_ingress</i>	(Optional) ACL Ingress
<i>acl_type</i>	(Optional) ACL Filter Type
<i>acl_appl_if_index</i>	(Optional) ACL Applied Interface
<i>acl_fltr_hit_cnt</i>	(Optional) ACL Filter Count

Command Mode

- /exec

show logging ip access-list status

show logging ip access-list status [*__readonly__* <num_entries> <seconds> <num_packets>]

Syntax Description

show	Show running system information
logging	logging information
ip	IP configuration
access-list	Access-list
status	ACLLOG status
<i>__readonly__</i>	(Optional)
<i>num_entries</i>	(Optional) Max flows
<i>seconds</i>	(Optional) Log-update interval in seconds
<i>num_packets</i>	(Optional) threshold

Command Mode

- /exec

show logging last

show logging last <i0>

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
last	Show last few lines of logfile
<i>i0</i>	Enter number of lines to display

Command Mode

- /exec

show logging level

show logging level [{ auth | authpriv | cron | daemon | ftp | kernel | local0 | local1 | local2 | local3 | local4 | local5 | local6 | local7 | lpr | mail | news | syslog | user | uucp }]

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
auth	(Optional) Show Authorization System logging configuration
authpriv	(Optional) Show Authorization (Private) logging configuration
cron	(Optional) Show Cron/at facility logging configuration
daemon	(Optional) Show System daemons logging configuration
ftp	(Optional) Show File Transfer System logging configuration
kernel	(Optional) Show kernel logging configuration
local0	(Optional) Show Local use daemons logging configuration
local1	(Optional) Show Local use daemons logging configuration
local2	(Optional) Show Local use daemons logging configuration
local3	(Optional) Show Local use daemons logging configuration
local4	(Optional) Show Local use daemons logging configuration
local5	(Optional) Show Local use daemons logging configuration
local6	(Optional) Show Local use daemons logging configuration
local7	(Optional) Show Local use daemons logging configuration
lpr	(Optional) Show Line Printer System logging configuration
mail	(Optional) Show Mail System logging configuration
news	(Optional) Show USENET news logging configuration
syslog	(Optional) Show Internal Syslog Messages logging configuration
user	(Optional) Show user process logging configuration
uucp	(Optional) Show Unix-to-Unix copy system logging configuration

Command Mode

- /exec

show logging level aaa

show logging level aaa

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
aaa	Show aaa logging configuration

Command Mode

- /exec

show logging level aclog

show logging level aclog

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
aclog	Show aclog logging configuration

Command Mode

- /exec

show logging level aclmgr

show logging level aclmgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
aclmgr	Show aclmgr logging configuration

Command Mode

- /exec

show logging level adbm

show logging level adbm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
adbm	Show adbm logging configuration

Command Mode

- /exec

show logging level adjmgr

show logging level adjmgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
adjmgr	Show adjmgr logging configuration

Command Mode

- /exec

show logging level amt

show logging level amt

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
amt	Show amt logging configuration

Command Mode

- /exec

show logging level arp

show logging level arp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
arp	Show arp logging configuration

Command Mode

- /exec

show logging level ascii-cfg

show logging level ascii-cfg

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ascii-cfg	Show ascii-cfg logging configuration

Command Mode

- /exec

show logging level bfd

show logging level bfd

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
bfd	Show bfd logging configuration

Command Mode

- /exec

show logging level bgp

show logging level bgp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
bgp	Show BGP logging configuration

Command Mode

- /exec

show logging level bloggerd

show logging level bloggerd

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
bloggerd	Show BloggerD logging configuration

Command Mode

- /exec

show logging level bootvar

show logging level bootvar

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
bootvar	Show bootvar logging configuration

Command Mode

- /exec

show logging level callhome

show logging level callhome

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
callhome	Show callhome logging configuration

Command Mode

- /exec

show logging level capability

show logging level capability

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
capability	Show capability logging configuration

Command Mode

- /exec

show logging level cdp

show logging level cdp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
cdp	Show CDP logging configuration

Command Mode

- /exec

show logging level cert-enroll

show logging level cert-enroll

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
cert-enroll	Show Cert-enroll logging configuration

Command Mode

- /exec

show logging level cert_enroll

show logging level cert_enroll

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
cert_enroll	Show Cert-enroll logging configuration

Command Mode

- /exec

show logging level cfs

show logging level cfs

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration

Command Mode

- /exec

show logging level clis

show logging level clis

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
clis	Show CLIS logging configuration

Command Mode

- /exec

show logging level clk_mgr

show logging level clk_mgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
clk_mgr	Show clock manager logging configuration

Command Mode

- /exec

show logging level confcheck

show logging level confcheck

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
confcheck	Show confcheck logging configuration

Command Mode

- /exec

show logging level copp

show logging level copp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
copp	Show copp logging configuration

Command Mode

- /exec

show logging level core

show logging level core

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
core	Show core daemon logging configuration

Command Mode

- /exec

show logging level cts

show logging level cts

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
cts	Show cts logging configuration

Command Mode

- /exec

show logging level dhcp_snoop

show logging level dhcp_snoop

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
dhcp_snoop	Show DHCP snoop logging configuration

Command Mode

- /exec

show logging level diagnostic device_test

show logging level diagnostic device_test

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
diagnostic	Diagnostic commands
device_test	Show device_test logging configuration

Command Mode

- /exec

show logging level diagnostic diagclient

show logging level diagnostic diagclient

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
diagnostic	Diagnostic commands
diagclient	Show diagclient logging configuration

Command Mode

- /exec

show logging level diagnostic diagmgr

show logging level diagnostic diagmgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
diagnostic	Diagnostic commands
diagmgr	Show diagmgr logging configuration

Command Mode

- /exec

show logging level dot1x

show logging level dot1x

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
dot1x	Show dot1x logging configuration

Command Mode

- /exec

show logging level eigrp

show logging level eigrp [<eigrp-ptag>]

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
eigrp	Show EIGRP logging configuration
<i>eigrp-ptag</i>	(Optional) Process tag

Command Mode

- /exec

show logging level eltm

show logging level eltm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
eltn	Show eltn logging configuration

Command Mode

- /exec

show logging level ethdstats

show logging level ethdstats

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ethdstats	Show delta statistics logging configuration

Command Mode

- /exec

show logging level ethpm

show logging level ethpm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ethpm	Show ethpm logging configuration

Command Mode

- /exec

show logging level evb

show logging level evb

Syntax Description

show	Show running system information
logging	Modify message logging facilities
level	Facility parameter for syslog messages
evb	Set syslog filter level for EVB

Command Mode

- /exec

show logging level evmc

show logging level evmc

Syntax Description

show	Show running system information
logging	Show message logging facilities
level	Show facility logging configuration
evmc	Show level for evmc syslog messages

Command Mode

- /exec

show logging level evmed

show logging level evmed

Syntax Description

show	Show running system information
logging	Show message logging facilities
level	Show facility logging configuration
evmed	Show level for evmed syslog messages

Command Mode

- /exec

show logging level evms

show logging level evms

Syntax Description

show	Show running system information
logging	Show message logging facilities
level	Show facility logging configuration
evms	Show level for evms syslog messages

Command Mode

- /exec

show logging level fabric forwarding

show logging level fabric forwarding

Syntax Description

show	Show running system information
logging	Modify message logging facilities
level	Facility parameter for syslog messages
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)

Command Mode

- /exec

show logging level fabricpath isis

show logging level fabricpath isis

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
fabricpath	Show fabricpath logging configuration
isis	Show ISIS logging configuration

Command Mode

- /exec

show logging level fabricpath switch-id

show logging level fabricpath switch-id

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
fabricpath	fabricpath information
switch-id	show fabricpath switch-id logging configuration

Command Mode

- /exec

show logging level feature-mgr

show logging level feature-mgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
feature-mgr	Show feature manager logging configuration

Command Mode

- /exec

show logging level fex

show logging level fex

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration

Command Mode

- /exec

show logging level fs-daemon

show logging level fs-daemon

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
fs-daemon	Show fs-daemon logging configuration

Command Mode

- /exec

show logging level glbp

show logging level glbp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
glbp	Show glbp logging settings

Command Mode

- /exec

show logging level gpixm

show logging level gpixm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
gpixm	Show global-pixm logging configuration

Command Mode

- /exec

show logging level hsrp

show logging level hsrp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
hsrp	Show HSRP logging configuration

Command Mode

- /exec

show logging level im

show logging level im

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
im	Show im logging configuration

Command Mode

- /exec

show logging level interface-vlan

show logging level interface-vlan

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
interface-vlan	Show interface-vlan logging configuration

Command Mode

- /exec

show logging level ip igmp

show logging level ip igmp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	Display IP information
igmp	Show igmp logging configuration

Command Mode

- /exec

show logging level ip msdp

show logging level ip msdp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	Display IP information
msdp	Show msdp logging configuration

Command Mode

- /exec

show logging level ip sla responder

show logging level ip sla responder

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	
sla	Service Level Agreement (SLA)
responder	Show sla-responder logging configuration

Command Mode

- /exec

show logging level ip sla sender

show logging level ip sla sender

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	
sla	Service Level Agreement (SLA)
sender	Show sla-sender logging configuration

Command Mode

- /exec

show logging level ipconf

show logging level ipconf [ipv6]

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ipconf	Show ipconf logging configuration
ipv6	(Optional) Show ipv6 Conf logging configuration

Command Mode

- /exec

show logging level ipfib

show logging level ipfib

Syntax Description

show	show
logging	logging
level	level
ipfib	ipfib

Command Mode

- /exec

show logging level ipqos

show logging level ipqos

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration

Command Mode

- /exec

show logging level ipv6 icmp

show logging level ipv6 icmp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ipv6	Configure IPv6 features
icmp	Show icmpv6 logging configuration

Command Mode

- /exec

show logging level iscm

show logging level iscm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
iscm	Show iscm logging configuration

Command Mode

- /exec

show logging level iscm

show logging level iscm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
iscm	Show iscm logging configuration

Command Mode

- /exec

show logging level isis

show logging level isis

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
isis	Show ISIS logging configuration

Command Mode

- /exec

show logging level keystore

show logging level { keystore | sksd }

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
keystore	Show Keystore logging configuration
sksd	show Keystore/sksd logging configuration

Command Mode

- /exec

show logging level l2fm

show logging level l2fm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
l2fm	Show l2fm logging configuration

Command Mode

- /exec

show logging level l3vm

show logging level l3vm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
l3vm	Show L3VM logging configuration

Command Mode

- /exec

show logging level lacp

show logging level lacp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
lacp	Show lacp logging configuration

Command Mode

- /exec

show logging level ldap

show logging level ldap

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ldap	Show ldap logging configuration

Command Mode

- /exec

show logging level license

show logging level { license | licmgr }

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
license	Show Licensing logging configuration
licmgr	Show Licensing logging configuration

Command Mode

- /exec

show logging level lim

show logging level lim

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
lim	Show lim logging configuration

Command Mode

- /exec

show logging level lisp

show logging level lisp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
lisp	Show lisp logging configuration

Command Mode

- /exec

show logging level lldp

show logging level lldp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
lldp	Show LLDP logging configuration

Command Mode

- /exec

show logging level m2rib

show logging level m2rib

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
m2rib	Show M2RIB logging configuration

Command Mode

- /exec

show logging level mfdm

show logging level mfdm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mfdm	Show mfdm logging configuration

Command Mode

- /exec

show logging level mfwd

show logging level mfwd

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mfwd	Show MCASTFWD logging configuration

Command Mode

- /exec

show logging level mmode

show logging level mmode

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mmode	Show maintenance mode logging configuration

Command Mode

- /exec

show logging level module

show logging level module

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
module	Show module(linecard) manager logging configuration

Command Mode

- /exec

show logging level monitor

show logging level monitor

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
monitor	Show monitor logging configuration

Command Mode

- /exec

show logging level mpls ldp

show logging level mpls ldp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mpls	Display MPLS status and configuration
ldp	Show LDP logging configuration

Command Mode

- /exec

show logging level mpls manager

show logging level mpls manager

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mpls	Show MPLS logging configuration
manager	Show MPLS manager logging configuration

Command Mode

- /exec

show logging level mpls switching

show logging level mpls switching

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mpls	Show MPLS logging configuration
switching	Show mpls switching logging configuration

Command Mode

- /exec

show logging level mpls traffic-eng

show logging level mpls traffic-eng

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
mpls	Display MPLS status and configuration
traffic-eng	Show Traffic Engineering logging configuration

Command Mode

- /exec

show logging level mvsh

show logging level mvsh

Syntax Description

show	Show commands
logging	Show message logging facilities
level	Show message logging facilities
mvsh	Show level for mvsh syslog messages

Command Mode

- /exec

show logging level nat

show logging level nat

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
nat	Show NAT logging configurarion

Command Mode

- /exec

show logging level nbm

show logging level nbm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
nbm	Show Non Blocking Multicast logging configuration

Command Mode

- /exec

show logging level netstack

show logging level netstack

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
netstack	Show netstack logging configuration

Command Mode

- /exec

show logging level nfm

show logging level nfm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
nfm	Show NFM logging configuration

Command Mode

- /exec

show logging level ngoam

show logging level ngoam

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ngoam	Show ngoam logging level

Command Mode

- /exec

show logging level ntp

show logging level ntp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ntp	Show NTP logging settings.

Command Mode

- /exec

show logging level nve

show logging level nve

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
nve	Show NVE logging configuration

Command Mode

- /exec

show logging level nxsdk

show logging level nxsdk

Syntax Description

show	Show running system information
logging	Modify message logging facilities
level	Facility parameter for syslog messages
nxsdk	NXOS SDK

Command Mode

- /exec

show logging level onep

show logging level onep

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
onep	One Platform

Command Mode

- /exec

show logging level ospf

show logging level ospf

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ospf	Show OSPF logging configuration

Command Mode

- /exec

show logging level ospfv3

show logging level ospfv3

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ospfv3	Display OSPFv3 status and configuration

Command Mode

- /exec

show logging level otv

show logging level otv

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
otv	Show OTV logging configuration

Command Mode

- /exec

show logging level otv isis

show logging level otv isis

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
otv	Show OTV ISIS logging configuration
isis	Show OTV ISIS logging configuration

Command Mode

- /exec

show logging level pfstat

show logging level pfstat

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
pfstat	Show pfstat logging configuration

Command Mode

- /exec

show logging level pim

show logging level [ip] pim

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	(Optional) Display IP information
pim	Show pim logging configuration

Command Mode

- /exec

show logging level pim

show logging level [ipv6] pim

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ipv6	(Optional) Display IPv6 information
pim	Show pim6 logging configuration

Command Mode

- /exec

show logging level pixm

show logging level pixm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
pixm	Show vdc-local-pixm logging configuration

Command Mode

- /exec

show logging level pktmgr

show logging level pktmgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
pktmgr	Show pktmgr logging configuration

Command Mode

- /exec

show logging level platform

show logging level platform

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
platform	Show platform logging configuration

Command Mode

- /exec

show logging level plcmgr

show logging level plcmgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration

Command Mode

- /exec

show logging level pltfm_config

show logging level pltfm_config

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
pltfm_config	Show pltfm_config logging configuration

Command Mode

- /exec

show logging level plugin

show logging level plugin

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
plugin	Show plugin logging configuration

Command Mode

- /exec

show logging level poap

show logging level poap

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
poap	Show poap logging configuration

Command Mode

- /exec

show logging level port-channel

show logging level port-channel

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
port-channel	Show port-channel logging configuration

Command Mode

- /exec

show logging level port-profile

show logging level port-profile

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
port-profile	Show syslog level for port-profile

Command Mode

- /exec

show logging level port-security

show logging level port-security

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
port-security	Show port-security logging configuration

Command Mode

- /exec

show logging level private-vlan

show logging level private-vlan

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
private-vlan	Show interface-vlan logging configuration

Command Mode

- /exec

show logging level ptp

show logging level ptp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ptp	Show ptp logging configuration

Command Mode

- /exec

show logging level radius

show logging level radius

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
radius	Show radius logging configuration

Command Mode

- /exec

show logging level res_mgr

show logging level res_mgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
res_mgr	Show res_mgr logging configuration

Command Mode

- /exec

show logging level rip

show logging level rip

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
rip	Show RIP logging configuration

Command Mode

- /exec

show logging level routing ipv6 multicast

show logging level routing ipv6 multicast

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
routing	Display routing information
ipv6	Display IPv6 information
multicast	Display multicast information

Command Mode

- /exec

show logging level routing multicast

show logging level routing [ip | ipv4] multicast

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display multicast information

Command Mode

- /exec

show logging level rpm

show logging level rpm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
rpm	Show RPM logging configuration

Command Mode

- /exec

show logging level rsvp

show logging level rsvp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
rsvp	Show RSVP logging configuration

Command Mode

- /exec

show logging level sal

show logging level sal

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
sal	Show SAL logging configuration

Command Mode

- /exec

show logging level scheduler

show logging level scheduler

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
scheduler	Show scheduler logging configuration

Command Mode

- /exec

show logging level security

show logging level security

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
security	Show security logging configuration

Command Mode

- /exec

show logging level session-mgr

show logging level session-mgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
session-mgr	Show session-mgr logging configurarion

Command Mode

- /exec

show logging level sflow

show logging level sflow

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
sflow	Show sFlow logging configuration

Command Mode

- /exec

show logging level smm

show logging level smm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
smm	Show Shared Memory Manager logging configuration

Command Mode

- /exec

show logging level snmpd

show logging level snmpd

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
snmpd	Show SNMP logging configuration

Command Mode

- /exec

show logging level snmpmib_proc

show logging level snmpmib_proc

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
snmpmib_proc	Show snmpmib_proc logging configuration

Command Mode

- /exec

show logging level spanning-tree

show logging level spanning-tree

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
spanning-tree	Show spanning-tree logging configuration

Command Mode

- /exec

show logging level spm

show logging level spm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
spm	Show spm logging configuration

Command Mode

- /exec

show logging level stripcl

show logging level stripcl

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
stripcl	Show stripcl logging configuration

Command Mode

- /exec

show logging level sysmgr

show logging level sysmgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
sysmgr	Show sysmgr logging configuration

Command Mode

- /exec

show logging level tacacs

show logging level tacacs

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
tacacs	Show tacacs+ logging configuration

Command Mode

- /exec

show logging level telemetry

show logging level telemetry

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
telemetry	Show telemetry logging level

Command Mode

- /exec

show logging level track

show logging level track

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
track	Show track logging configuration

Command Mode

- /exec

show logging level tunnel

show logging level tunnel

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
tunnel	Show tunnel logging settings

Command Mode

- /exec

show logging level u2rib

show logging level u2rib

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
u2rib	Show U2RIB logging configuration

Command Mode

- /exec

show logging level u6rib

show logging level u6rib

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
u6rib	Show U6RIB logging configuration

Command Mode

- /exec

show logging level udd

show logging level udd

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
udd	Show udd logging configuration

Command Mode

- /exec

show logging level ufdm

show logging level ufdm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ufdm	Show ufdm logging configuration

Command Mode

- /exec

show logging level urib

show logging level urib

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
urib	Show URIB logging configuration

Command Mode

- /exec

show logging level vdc_mgr

show logging level vdc_mgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vdc_mgr	Show vdc manager logging configuration

Command Mode

- /exec

show logging level virtual-service

show logging level virtual-service

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
virtual-service	Show virtualization manager logging configuration

Command Mode

- /exec

show logging level vlan_mgr

show logging level vlan_mgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vlan_mgr	Show vlan manager logging configuration

Command Mode

- /exec

show logging level vmm

show logging level vmm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vmm	Show vmm logging configuration

Command Mode

- /exec

show logging level vmtracker

show logging level vmtracker

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vmtracker	Show vmtracker logging configuration

Command Mode

- /exec

show logging level vntag

show logging level vntag

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vntag	Show vntag logging configuration

Command Mode

- /exec

show logging level vpc

show logging level vpc

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vpc	Show vPC logging configuration

Command Mode

- /exec

show logging level vrrp-cfg

show logging level vrrp-cfg

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vrrp-cfg	Show vrrp-cfg logging configuration

Command Mode

- /exec

show logging level vrrp-eng

show logging level vrrp-eng

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vrrp-eng	Show vrrp-eng logging configuration

Command Mode

- /exec

show logging level vrrpv3

show logging level vrrpv3

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vrrpv3	level for vrrpv3 configuration

Command Mode

- /exec

show logging level vshd

show logging level vshd

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration

Command Mode

- /exec

show logging level vtp

show logging level vtp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vtp	Show vtp logging configuration

Command Mode

- /exec

show logging level xbar

show logging level xbar

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration

Command Mode

- /exec

show logging logfile

show logging logfile

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
logfile	Show contents of logfile

Command Mode

- /exec

show logging logfile duration

show logging logfile duration <s1>

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
logfile	Show contents of logfile
duration	show messages from logfile of last given duration
<i>s1</i>	Enter hour, minutes, seconds of duration as HH:MM:SS

Command Mode

- /exec

show logging logfile last-index

show logging logfile last-index

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
logfile	Show contents of logfile
last-index	Show the sequence-number of the last message in logfile

Command Mode

- /exec

show logging logfile start-seqn

show logging logfile start-seqn <i0> [end-seqn <i1>]

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
logfile	Show contents of logfile
start-seqn	Show messages from logfile from a given start-sequence-number
<i>i0</i>	Enter starting sequence number
end-seqn	(Optional) Show messages from logfile from a given end-sequence-number
<i>i1</i>	(Optional) Enter ending sequence number

Command Mode

- /exec

show logging logfile start-time

show logging logfile start-time <i0> <s0> <i1> <s1> [end-time <i2> <s2> <i3> <s3>]

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
logfile	Show contents of logfile
start-time	Show messages from logfile from a given start-time
<i>i0</i>	Enter year in YYYY format
<i>s0</i>	Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>i1</i>	Enter day of month in dd format
<i>s1</i>	Enter hour, minutes, seconds as HH:MM:SS
end-time	(Optional) Show messages from logfile up to a given end-time
<i>i2</i>	(Optional) Enter year in YYYY format
<i>s2</i>	(Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>i3</i>	(Optional) Enter day of month in dd format
<i>s3</i>	(Optional) Enter hour, minutes, seconds as HH:MM:SS

Command Mode

- /exec

show logging loopback

show logging loopback

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
loopback	Show logging loopback configuration

Command Mode

- /exec

show logging module

show logging module

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
module	Show module(linecard) logging configuration

Command Mode

- /exec

show logging monitor

show logging monitor

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
monitor	Show monitor logging configuration

Command Mode

- /exec

show logging nvram

```
show logging nvram [ [ { last <i0> } ] [ __readonly__ [ <error> ] [ { TABLE_nvram <log> } ] ] ]
```

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
nvram	Show NVRAM log
last	(Optional) Show last few lines of nvram log
<i>i0</i>	(Optional) Enter number of lines to display
__readonly__	(Optional)
<i>error</i>	(Optional) error message
TABLE_nvram	(Optional) nvram log prints
<i>log</i>	(Optional) single log line

Command Mode

- /exec

show logging onboard

```
show logging onboard { counter-stats | endtime <s0> [ { counter-stats | internal { <dc3_options> } } ] | internal { <dc3_options> } | module <module> { counter-stats | endtime1 <s1> [ { counter-stats | internal { <dc3_options> } } ] | internal { <dc3_options> } | starttime <s2> [ { counter-stats | endtime2 <s3> [ { counter-stats | internal { <dc3_options> } } ] | internal { <dc3_options> } } ] | starttime1 <s4> [ { counter-stats | endtime3 <s5> [ { counter-stats | internal { <dc3_options> } } ] | internal { <dc3_options> } } ] }
```

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
onboard	Show OBFL information
counter-stats	Show OBFL counter statistics
endtime	Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s0</i>	End time format - mm/dd/yy-HH:MM:SS
internal	(Optional) Show Logging Onboard Internal
module	Show OBFL information for Module
<i>module</i>	Enter module number
endtime1	Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s1</i>	End time format - mm/dd/yy-HH:MM:SS
starttime	Show OBFL logs from start time mm/dd/yy-HH:MM:SS
<i>s2</i>	Start time format - mm/dd/yy-HH:MM:SS
endtime2	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s3</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
starttime1	Show OBFL logs from start time mm/dd/yy-HH:MM:SS
<i>s4</i>	Start time format - mm/dd/yy-HH:MM:SS
endtime3	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s5</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
<i>dc3_options</i>	(Optional) dc3 options

Command Mode

- /exec

show logging onboard

```
show logging onboard [ card-first-power-on | card-boot-history | <common_options> | endtime <s0> [ {
<common_options> | error-stats [ port <i0> ] } ] | error-stats [ port1 <i1> ] | module <module> [
<common_options> | endtime1 <s1> [ { <common_options> | error-stats [ port3 <i3> ] } ] | error-stats [ port4
<i4> ] | starttime <s2> [ { <common_options> | endtime2 <s3> [ { <common_options> | error-stats [ port6
<i6> ] } ] | error-stats [ port7 <i7> ] } ] | card-first-power-on | card-boot-history ] | obfl-logs | starttime1 <s4>
[ { <common_options> | endtime3 <s5> [ { <common_options> | error-stats [ port8 <i8> ] } ] | error-stats [
port9 <i9> ] } ] | credit-loss [ module <module> [ last <last_no> { minutes | hours | days } ] | last <last_no>
{ minutes | hours | days } ] | flow-control { pause-count [ module <module> [ last <last_no> { minutes | hours
| days } ] | last <last_no> { minutes | hours | days } ] | pause-events [ module <module> [ last <last_no> {
minutes | hours | days } ] | last <last_no> { minutes | hours | days } ] | request-timeout [ module <module> ]
| timeout-drops [ module <module> [ port10 <i10> [ last <last_no> { minutes | hours | days } ] | last <last_no>
{ minutes | hours | days } ] | last <last_no> { minutes | hours | days } } ] }
```

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
onboard	Show OBFL information
card-first-power-on	(Optional) show card first power on information
card-boot-history	(Optional) show card boot history
endtime	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s0</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
error-stats	(Optional) Show OBFL error statistics
port	(Optional) Show OBFL error statistics for a port
<i>i0</i>	(Optional)
<i>common_options</i>	(Optional) give the options
port1	(Optional) Show OBFL error statistics for a port
<i>i1</i>	(Optional)
module	(Optional) Show OBFL information for Module
<i>module</i>	(Optional) Enter module number
endtime1	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s1</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
port3	(Optional) Show OBFL error statistics for a port
<i>i3</i>	(Optional)

port4	(Optional) Show OBFL error statistics for a port
<i>i4</i>	(Optional)
starttime	(Optional) Show OBFL logs from start time mm/dd/yy-HH:MM:SS
<i>s2</i>	(Optional) Start time format - mm/dd/yy-HH:MM:SS
endtime2	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s3</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
port6	(Optional) Show OBFL error statistics for a port
<i>i6</i>	(Optional)
port7	(Optional) Show OBFL error statistics for a port
<i>i7</i>	(Optional)
starttime1	(Optional) Show OBFL logs from start time mm/dd/yy-HH:MM:SS
<i>s4</i>	(Optional) Start time format - mm/dd/yy-HH:MM:SS
endtime3	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s5</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
port8	(Optional) Show OBFL error statistics for a port
<i>i8</i>	(Optional)
port9	(Optional) Show OBFL error statistics for a port
<i>i9</i>	(Optional)
obfl-logs	(Optional) Show OBFL Tech Support Log.
timeout-drops	(Optional) Show OBFL Timeout Drops logs
port10	(Optional) Show OBFL statistics per port basis
<i>i10</i>	(Optional)
credit-loss	(Optional) Show OBFL Credit Loss logs
last	(Optional) Show last min/hour/day logs
<i>last_no</i>	(Optional) Duration in min/hrs/day
minutes	(Optional) entry in minutes
hours	(Optional) entry in hours
days	(Optional) entry in days
request-timeout	(Optional) Show OBFL request timeout log

flow-control	(Optional) Show OBFL Flow Control log
pause-count	(Optional) Show Flow Control Pause Count Logs
pause-events	(Optional) Show Flow Control Pause Event Logs

Command Mode

- /exec

show logging onboard fex

```
show logging onboard fex <ifex> { boot-uptime | device-version | endtime <s_endtime0> [ { boot-uptime |
device-version | environmental-history | exception-log | internal { kernel | kernel-big | reset-reason } | obfl-history
| stack-trace } ] | environmental-history | exception-log | internal { kernel | kernel-big | reset-reason } |
obfl-history | stack-trace | starttime <s_starttime0> [ { boot-uptime | device-version | endtime <s_endtime1>
[ { boot-uptime | device-version | environmental-history | exception-log | internal { kernel | kernel-big |
reset-reason } | obfl-history | stack-trace } ] | environmental-history | exception-log | internal { kernel | kernel-big
| reset-reason } | obfl-history | stack-trace } ] }
```

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
onboard	Show OBFL information
fex	Show OBFL information for FEX
<i>ifex</i>	Enter FEX ID
boot-uptime	Show OBFL boot and uptime information.
device-version	Show OBFL device version information.
endtime	Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s_endtime0</i>	End time format - mm/dd/yy-HH:MM:SS
<i>s_endtime1</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
environmental-history	(Optional) Show OBFL environmental history
exception-log	(Optional) Show OBFL exception log
internal	(Optional) Show Logging Onboard Internal
kernel	(Optional) Show kernel log
kernel-big	(Optional) Show kernel log (large records)
reset-reason	(Optional) Show reset reason
obfl-history	(Optional) Show OBFL history information.
stack-trace	(Optional) Show OBFL kernel stack trace
starttime	Show OBFL logs from start time mm/dd/yy-HH:MM:SS
<i>s_starttime0</i>	Start time format - mm/dd/yy-HH:MM:SS

Command Mode

- /exec

show logging onboard kernel-trace

show logging onboard kernel-trace

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
onboard	Show OBFL information
kernel-trace	Show OBFL Kernel Trace

Command Mode

- /exec

show logging origin-id

show logging origin-id

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
origin-id	Show logging origin id configuration

Command Mode

- /exec

show logging pending-diff

show logging pending-diff

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
pending-diff	server address pending configuration diff

Command Mode

- /exec

show logging pending

show logging pending

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
pending	server address pending configuration

Command Mode

- /exec

show logging server

```
show logging server [ __readonly__ [ <noentry> ] [ { TABLE_logserv <server> <forwarding> <severity>
<facility> <vrf> <port> } ] ]
```

Syntax Description

<code>show</code>	Show running system information
<code>logging</code>	Show logging configuration and contents of logfile
<code>server</code>	Show server logging configuration
<code>__readonly__</code>	(Optional)
<code>noentry</code>	(Optional) logging server not configured
<code>TABLE_logserv</code>	(Optional) output of show logging server
<code>server</code>	(Optional) remote server address
<code>forwarding</code>	(Optional) remote server forwarding
<code>severity</code>	(Optional) remote server severity
<code>facility</code>	(Optional) remote server facility
<code>vrf</code>	(Optional) remote server vrf
<code>port</code>	(Optional) remote server port

Command Mode

- /exec

show logging session status

show logging session status

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
session	Show logging session status
status	Show logging session status

Command Mode

- /exec

show logging source-interface

show logging source-interface

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
source-interface	Show logging source-interface configuration

Command Mode

- /exec

show logging status

show logging status

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
status	Show logging status

Command Mode

- /exec

show logging timestamp

show logging timestamp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
timestamp	Show logging timestamp configuration

Command Mode

- /exec

show login on-failure log

show login on-failure log [__readonly__ [<status>]]

Syntax Description

show	show
login	login
on-failure	authentication failure
log	Log
__readonly__	(Optional)
<i>status</i>	(Optional) login on failure log enabled or disabled

Command Mode

- /exec

show login on-successful log

show login on-successful log [__readonly__ [<status>]]

Syntax Description

show	show
login	login
on-successful	authentication successful
log	Log
__readonly__	(Optional)
<i>status</i>	(Optional) login on successful log enabled or disabled

Command Mode

- /exec

show login on-successful log



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show mac-list

```
show mac-list { [ <mac_list_name> [ { seq <seq_no> | { <mac_addr> [ <mac_mask> } ] } ] } [ __readonly__
TABLE_mac_list <name> <seq> <action> <rule> ]
```

Syntax Description

show	Show running system information
mac-list	Show mac-lists
<i>mac_list_name</i>	(Optional) Name of mac list
seq	(Optional) Sequence number
<i>seq_no</i>	(Optional) Sequence number
<i>mac_addr</i>	(Optional) MAC address
<i>mac_mask</i>	(Optional) MAC mask
<i>__readonly__</i>	(Optional)
TABLE_mac_list	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show mac address-table

```
show mac address-table <module> [ count ] [ static | dynamic | secure ] [ { [ address1 <mac-addr> | { switch-id
<swid> [ sub-switch-id <sswid> } ] | vlan1 <id> | [ vdc1 <vdc> | <e-vdc> ] | fe1 <feid> ] + } | { [ address
<mac-addr> | interface <interface-name> | vlan <id> | [ vdc <vdc> | <e-vdc> ] | fe <feid> ] + } ] [ hex ] [
__readonly__ <entrycount> <l2entry> <header> <pi_e> <age> <rm> <ifname> <sec> <ntfy> <type> ]
```

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
<i>module</i>	Module Number
count	(Optional) Number of entries
static	(Optional) Display Static Entries
dynamic	(Optional) Display Dynamic Entries
secure	(Optional) Display Secure Entries
address	(Optional) address
address1	(Optional) address
<i>mac-addr</i>	(Optional) MAC Address
switch-id	(Optional) Remote Switch ID
<i>swid</i>	(Optional) Switch ID
sub-switch-id	(Optional) Remote Sub Switch ID
<i>sswid</i>	(Optional) Sub Switch ID
interface	(Optional) Interface
<i>interface-name</i>	(Optional) Interface name
vlan	(Optional) VLAN
vlan1	(Optional) VLAN
<i>id</i>	(Optional) VLAN ID
vdc	(Optional) VDC ID or Name
vdc1	(Optional) VDC ID or Name
<i>vdc</i>	(Optional) VDC ID

<i>e-vdc</i>	(Optional) Select VDC ID that match VDC Name
<i>fe</i>	(Optional) Forwarding Engine Instance ID(Zero based)
<i>fel</i>	(Optional) Forwarding Engine Instance ID(Zero based)
<i>feid</i>	(Optional) FE ID value
<i>hex</i>	(Optional) display swid/sswid/lid in hex
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) Header
<i>pi_e</i>	(Optional) Primary Interface of EARL
<i>age</i>	(Optional) Last seen age in seconds
<i>rm</i>	(Optional) RM
<i>ifname</i>	(Optional) interface name as string
<i>sec</i>	(Optional) secure
<i>ntfy</i>	(Optional) notify
<i>entrycount</i>	(Optional) Number of L2 entries
<i>l2entry</i>	(Optional) L2 Entry String
<i>type</i>	(Optional) MAC type - Static or Dynamic

Command Mode

- /exec

show mac address-table

```
show mac address-table [ static | dynamic | secure ] [ local ] [ { [ address1 <mac-addr> | { switch-id <swid>
[ sub-switch-id <sswid> ] } | vlan1 <id> ] + } | { [ address <mac-addr> | interface <interface-name> | vlan
<id> ] + } | { [ address2 <mac-addr> | interface1 <interface-name> | vni <vni-id> | peer-ip <peer-ip4> ] + }
| { [ address3 <mac-addr> | interface2 <interface-name> | vni1 <vni-id> | es { <esid-opt1> | <esid-opt2> | all
} ] + } ] [ __readonly__ <header> TABLE_mac_address
<disp_mac_addr><disp_type><disp_vlan><disp_is_static><disp_age><disp_is_secure><disp_is_ntfy><disp_port>
]
```

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
static	(Optional) Display Static Entries
dynamic	(Optional) Display Dynamic Entries
secure	(Optional) Display Secure Entries
local	(Optional) Display MAC Entries Learned Locally and Not on the Overlay/VXLAN
address	(Optional) address
address1	(Optional) address
address2	(Optional) address
address3	(Optional) address
<i>mac-addr</i>	(Optional) MAC Address
switch-id	(Optional) Remote Switch ID
<i>swid</i>	(Optional) Switch ID
sub-switch-id	(Optional) Remote Sub Switch ID
<i>sswid</i>	(Optional) Sub Switch ID
interface	(Optional) Interface
interface1	(Optional) Interface
<i>interface-name</i>	(Optional) Interface name
interface2	(Optional) Interface
<i>interface-name</i>	(Optional) Interface name

vlan	(Optional) VLAN
vlan1	(Optional) VLAN
<i>id</i>	(Optional) VLAN ID
vni	(Optional) VXLAN Network Identifier
vni1	(Optional) VXLAN Network Identifier
<i>vni-id</i>	(Optional) VXLAN Network Identifier
peer-ip	(Optional) VXLAN Peer IP Address
<i>peer-ipv4</i>	(Optional) VXLAN Peer IP Address
es	(Optional) EVPN Remote ESID
<i>esid-opt1</i>	(Optional) EE:EE:EE:EE:EE:EE:EE:EE:EE:EE ESID Option 1
<i>esid-opt2</i>	(Optional) EEEE.EEEE.EEEE.EEEE.EEEE ESID Option 2
all	(Optional) all ESIs
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) Header
TABLE_mac_address	(Optional) Mac address table

Command Mode

- /exec

show mac address-table aging-time

show mac address-table aging-time [*__readonly__* <age_str> <age>]

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
aging-time	Configured/default age
<i>__readonly__</i>	(Optional)
<i>age_str</i>	(Optional) Age info
<i>age</i>	(Optional) Age time

Command Mode

- /exec

show mac address-table count

```
show mac address-table count [ static | dynamic | secure ] [ local ] [ { [ interface <interface-name> | { switch-id
<swid> [ sub-switch-id <sswid> ] } | vlan <id> ] + } | { [ interface1 <interface-name> | vni <vni-id> | peer-ip
<peer-ipv4> ] + } ] [ __readonly__ TABLE-macaddtblcount <id-out> <count_str> <total_cnt> <dyn_cnt>
<static_cnt> <secure_cnt> <otv_cnt> ]
```

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
count	Number of MAC entries
static	(Optional) Display Static Entries
dynamic	(Optional) Display Dynamic Entries
secure	(Optional) Display Secure Entries
local	(Optional) Display MAC Entries Learned Locally and Not on the Overlay/VXLAN
vlan	(Optional) VLAN
<i>id</i>	(Optional) VLAN ID
interface	(Optional) Interface
interface1	(Optional) Interface
<i>interface-name</i>	(Optional) Interface name
switch-id	(Optional) Remote Switch ID
<i>swid</i>	(Optional) Switch ID
sub-switch-id	(Optional) Remote Sub Switch ID
<i>sswid</i>	(Optional) Sub Switch ID
vni	(Optional) VXLAN Network Identifier
<i>vni-id</i>	(Optional) VXLAN Network Identifier
peer-ip	(Optional) VXLAN Peer IP Address
<i>peer-ipv4</i>	(Optional) VXLAN Peer IP Address
__readonly__	(Optional)
TABLE-macaddtblcount	(Optional) MAC Address Dynamic Count Table

<i>id-out</i>	(Optional) MAC Address Table VLAN ID
<i>count_str</i>	(Optional) Count info
<i>total_cnt</i>	(Optional) Total count
<i>dyn_cnt</i>	(Optional) Dynamic count
<i>static_cnt</i>	(Optional) Static count
<i>secure_cnt</i>	(Optional) Secure count
<i>otv_cnt</i>	(Optional) OTV count

Command Mode

- /exec

show mac address-table count es

show mac address-table count es { <es-id> | <es-id2> | all }

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
count	Number of MAC entries
es	EVPN Remote ESID
<i>es-id</i>	EE:EE:EE:EE:EE:EE:EE:EE:EE ESID
<i>es-id2</i>	EEEE.EEEE.EEEE.EEEE.EEEE ESID
all	all ESIs

Command Mode

- /exec

show mac address-table learning-mode

```
show mac address-table learning-mode [ vlan <id> ] [ __readonly__ <learning_mode_str> <vlan_id>
<mode_str> ]
```

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
learning-mode	Learning Mode
vlan	(Optional) VLAN
<i>id</i>	(Optional) VLAN ID
<i>__readonly__</i>	(Optional)
<i>learning_mode_str</i>	(Optional) Learning Mode
<i>vlan_id</i>	(Optional) VLAN ID
<i>mode_str</i>	(Optional) Mode

Command Mode

- /exec

show mac address-table loop-detect

show mac address-table loop-detect

Syntax Description

show	show
mac	MAC
address-table	MAC Address Table
loop-detect	Display Action for Mac Loop Detection

Command Mode

- /exec

show mac address-table multicast

```
show mac address-table multicast [ vlan <vlan> | bridge-domain <bdid> ] [ __readonly__ [ TABLE_vlan
<vlan-id> [ TABLE_mac <mac-addr> <type> [ TABLE_oif <oifs> ] ] ] ]
```

Syntax Description

show	Show running system information
mac	MAC configuration commands
address-table	MAC Address Table
multicast	mcast mac OIF Static Entry
vlan	(Optional) VLAN
<i>vlan</i>	(Optional) VLAN
bridge-domain	(Optional) BD
<i>bdid</i>	(Optional) BD
__readonly__	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
TABLE_mac	(Optional)
<i>mac-addr</i>	(Optional)
<i>type</i>	(Optional)
TABLE_oif	(Optional)
<i>oifs</i>	(Optional)

Command Mode

- /exec

show mac address-table notification mac-move

```
show mac address-table notification mac-move [ __readonly__ TABLE_mac_notif <disp_mm_status>
<disp_mm_triggers> <disp_macs_added> <disp_macs_moved> <disp_macs_removed> ]
```

Syntax Description

show	show
mac	MAC
address-table	MAC Address Table
notification	Display Notification Information
mac-move	Mac Move Notification
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_mac_notif</i>	(Optional) Mac address notification table
<i>disp_mm_status</i>	(Optional) Mac Move Status
<i>disp_mm_triggers</i>	(Optional) # of triggers
<i>disp_macs_added</i>	(Optional) Number of MACs added since system bring up
<i>disp_macs_removed</i>	(Optional) Number of MACs removed since system bring up
<i>disp_macs_moved</i>	(Optional) Number of MACs moved since system bring up

Command Mode

- /exec

show mac vdc

```
show mac vdc <vdc_id> [ __readonly__ <vdc_id> <mac_address> ]
```

Syntax Description

show	show
mac	show management port mac address of the given vdc
vdc	show management port mac address of this vdc id
<i>vdc_id</i>	please enter vdc id
<i>__readonly__</i>	(Optional)
<i>vdc_id</i>	(Optional)
<i>mac_address</i>	(Optional)

Command Mode

- /exec

show macsec mka

```
show macsec mka [ summary ] [ __readonly__ { TABLE_mka_summary <ifname> <status> <cipher>
<keyserver> <policy> <keychain> } ]
```

Syntax Description

<code>show</code>	Show running system information
<code>macsec</code>	Show MACSEC information
<code>mka</code>	Show MKA information
<code>summary</code>	(Optional) Show MKA summary information
<code>__readonly__</code>	(Optional)
<code>TABLE_mka_summary</code>	(Optional)
<code>ifname</code>	(Optional) Interface
<code>status</code>	(Optional) MACSEC Session status
<code>cipher</code>	(Optional) Operational MACSEC Cipher-suite
<code>keyserver</code>	(Optional) Is this acting as interface key-server
<code>policy</code>	(Optional) MACSEC Policy applied to interface
<code>keychain</code>	(Optional) Keychain associated with interface

Command Mode

- /exec

show macsec mka session

```
show macsec mka session [ interface <ifname> ] [ details ] [ __readonly__ [ TABLE_mka_session <ifname>
<sci> <peers> <status> <keyserver> ] [ <sessions> <active_sessions> <pending_sessions> ] [
TABLE_mka_session_details <ifname> <status> <sci> <ssci> <port_id> <ckn> <mi> <mn> <policy>
<ks_prio> <keyserver> <cipher> <cipher_operational> <>window> <conf_offset> <conf_offset_operational>
<sak_status> <sak_an> <sak_ki> <sak_kn> <last_sak_rekey_time> ] ]
```

Syntax Description

show	Show running system information
macsec	Show MACSEC information
mka	Show MKA information
session	Show MKA session information
interface	(Optional) Specify interface
<i>ifname</i>	(Optional) Interface list
details	(Optional) Show MKA detailed information
<i>__readonly__</i>	(Optional)
TABLE_mka_session	(Optional)
<i>ifname</i>	(Optional) Interface
<i>sci</i>	(Optional) Interface local TxSCI
<i>peers</i>	(Optional) Number of Peers
<i>status</i>	(Optional) Macsec status of Interface
<i>keyserver</i>	(Optional) Interface keyserver
TABLE_mka_session_details	(Optional)
<i>ifname</i>	(Optional) Interface
<i>status</i>	(Optional) Session Status
<i>sci</i>	(Optional) Interface local TxSCI
<i>ssci</i>	(Optional) Interface local TxSSCI
<i>port_id</i>	(Optional) MKA Port Identifier
<i>ckn</i>	(Optional) CAK Name
<i>mi</i>	(Optional) Member Identifier
<i>mn</i>	(Optional) Message Number

<i>policy</i>	(Optional) MACSEC Policy
<i>ks_prio</i>	(Optional) Key-server Priority
<i>keyserver</i>	(Optional) Key-server
<i>cipher</i>	(Optional) MKA Cipher Suite
<i>cipher_operational</i>	(Optional) MKA Cipher Suite Operational
<i>window</i>	(Optional) Replay Window Size
<i>conf_offset</i>	(Optional) Confidentiality Offset
<i>conf_offset_operational</i>	(Optional) Confidentiality Offset Operational
<i>sak_status</i>	(Optional) SAK Status
<i>sak_an</i>	(Optional) SAK AN
<i>sak_ki</i>	(Optional) SAK KI
<i>sak_kn</i>	(Optional) SAK KN
<i>last_sak_rekey_time</i>	(Optional) Last SAK rekey
<i>sessions</i>	(Optional) Total number of Sessions
<i>active_sessions</i>	(Optional) Count of Active Sessions
<i>pending_sessions</i>	(Optional) Count of Pending Sessions

Command Mode

- /exec

statistics	Show MKA statistics
interface	(Optional) Specify interface
<i>ifname</i>	(Optional) Interface list
<i>__readonly__</i>	(Optional)
TABLE_mka_intf_stats	(Optional) MKA Interface statistics
TABLE_ca_stats	(Optional) CA Statistics
<i>ca_stat_ckn</i>	(Optional) CA Statistics CKN
<i>ca_stat_pairwise_cak_rekey</i>	(Optional) CA Statistics Pairwise CAK Rekey
<i>sa_stat_sak_generated</i>	(Optional) SA Statistics SAK generated
<i>sa_stat_sak_rekey</i>	(Optional) SA Statistics SAK rekey
<i>sa_stat_sak_received</i>	(Optional) SA Statistics SAK received
<i>sa_stat_sak_response_rx</i>	(Optional) SA Statistics SAK response received
<i>mkpdu_stat_mkpdu_tx</i>	(Optional) MKPDU Statistics MKPDU Tx
<i>mkpdu_stat_mkpdu_tx_distsak</i>	(Optional) MKPDU Statistics MKPDU Tx distributed SAK
<i>mkpdu_stat_mkpdu_rx</i>	(Optional) MKPDU Statistics MKPDU Rx
<i>mkpdu_stat_mkpdu_rx_distsak</i>	(Optional) MKPDU Statistics MKPDU Rx distributed SAK
TABLE_idb_stats	(Optional) IDB Statistics
<i>ca_stat_pairwise_cak_rekey</i>	(Optional) CA Statistics pairwise CAK rekey
<i>sa_stat_sak_generated</i>	(Optional) SA Statistics SAK generated
<i>sa_stat_sak_rekey</i>	(Optional) SA Statistics SAK rekey
<i>sa_stat_sak_received</i>	(Optional) SA Statistics SAK received
<i>sa_stat_sak_response_rx</i>	(Optional) SA Statistics SAK response received
<i>mkpdu_stat_mkpdu_tx</i>	(Optional) MKPDU Statistics MKPDU Tx
<i>mkpdu_stat_mkpdu_tx_distsak</i>	(Optional) MKPDU Statistics MKPDU Tx distributed SAK
<i>mkpdu_stat_mkpdu_rx</i>	(Optional) MKPDU Statistics MKPDU Rx
<i>mkpdu_stat_mkpdu_rx_distsak</i>	(Optional) MKPDU Statistics MKPDU Rx distributed SAK
<i>idb_stat_mkpdu_tx_success</i>	(Optional) IDB Statistics MKPDU Tx success
<i>idb_stat_mkpdu_tx_fail</i>	(Optional) IDB Statistics MKPDU Tx fail
<i>idb_stat_mkpdu_tx_pkt_build_fail</i>	(Optional) IDB Statistics MKPDU Tx packet build fail

<i>idb_stat_mkpdu_no_tx_on_intf_down</i>	(Optional) IDB Statistics MKPDU no Tx on interface down
<i>idb_stat_mkpdu_no_rx_on_intf_down</i>	(Optional) IDB Statistics MKPDU no Rx on interface down
<i>idb_stat_mkpdu_rx_ca_notfound</i>	(Optional) IDB Statistics MKPDU Rx CA not found
<i>idb_stat_mkpdu_rx_error</i>	(Optional) IDB Statistics MKPDU Rx error
<i>idb_stat_mkpdu_rx_success</i>	(Optional) IDB Statistics MKPDU Rx success
<i>idb_stat_mkpdu_failure_rx_integrity_check_error</i>	(Optional) IDB Statistics - MKPDU failure - Rx integrity check error
<i>idb_stat_mkpdu_failure_invalid_peer_mn_error</i>	(Optional) IDB Statistics - MKPDU failure - invalid peer MN error
<i>idb_stat_mkpdu_failure_norecent_peerlist_mn_error</i>	(Optional) IDB Statistics - MKPDU failure - non recent peerlist MN error
<i>idb_stat_mkpdu_failure_sakuse_kn_mismatch_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse KN mismatch error
<i>idb_stat_mkpdu_failure_sakuse_rx_not_set_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse Rx not set error
<i>idb_stat_mkpdu_failure_sakuse_key_mi_mismatch_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse key MI mismatch error
<i>idb_stat_mkpdu_failure_sakuse_an_not_in_use_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse AN not in use error
<i>idb_stat_mkpdu_failure_sakuse_ks_rx_tx_not_set_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse KS Rx Tx not set error
<i>idb_stat_mkpdu_failure_sakuse_esp_ethertype_mismatch_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse EAPOL ethertype mismatch error
<i>idb_stat_sak_failure_sak_generate_error</i>	(Optional) IDB Statistics - SAK failure - SAK generate error
<i>idb_stat_sak_failure_hash_generate_error</i>	(Optional) IDB Statistics - SAK failure - Hash generate error
<i>idb_stat_sak_failure_sak_encryption_error</i>	(Optional) IDB Statistics - SAK failure - SAK encryption error
<i>idb_stat_sak_failure_sak_decryption_error</i>	(Optional) IDB Statistics - SAK failure - SAK decryption error
<i>idb_stat_sak_failure_ick_derivation_error</i>	(Optional) IDB Statistics - SAK failure - ICK derivation error
<i>idb_stat_sak_failure_kek_derivation_error</i>	(Optional) IDB Statistics - SAK failure - KEK derivation error
<i>idb_stat_sak_failure_invalid_macsec_capability_error</i>	(Optional) IDB Statistics - SAK failure - invalid MACsec capability error
<i>idb_stat_macsec_failure_rx_sa_create_error</i>	(Optional) IDB Statistics - SAK failure - Rx SA create error
<i>idb_stat_macsec_failure_tx_sa_create_error</i>	(Optional) IDB Statistics - SAK failure - Tx SA create error
TABLE_mka_gbl_stats	(Optional) MKA Global Statistics
<i>session_secured</i>	(Optional) Session secured

show macsec mka statistics

<i>session_deleted</i>	(Optional) Session deleted
<i>session_keepalive_timeout</i>	(Optional) Session keepalive timeout
<i>ca_stat_pairwise_cak_rekey</i>	(Optional) CA Statistics pairwise CAK rekey
<i>sa_stat_sak_generated</i>	(Optional) SA Statistics SAK generated
<i>sa_stat_sak_rekey</i>	(Optional) SA Statistics SAK rekey
<i>sa_stat_sak_received</i>	(Optional) SA Statistics SAK received
<i>sa_stat_sak_response_rx</i>	(Optional) SA Statistics SAK response received
<i>mkpdu_stat_mkpdu_rx</i>	(Optional) MKPDU Statistics MKPDU received
<i>mkpdu_stat_mkpdu_rx_distsak</i>	(Optional) MKPDU Statistics MKPDU received distributed SAK
<i>mkpdu_stat_mkpdu_tx</i>	(Optional) MKPDU Statistics MKPDU transmitted
<i>mkpdu_stat_mkpdu_tx_distsak</i>	(Optional) MKPDU Statistics MKPDU transmitted distributed SAK
<i>mka_error_session_failure_bring_up_error</i>	(Optional) MKA Error - Session failure - Bring up error
<i>mka_error_sak_failure_sak_generate_error</i>	(Optional) MKA Error - SAK failure - SAK generate error
<i>mka_error_sak_failure_hash_generate_error</i>	(Optional) MKA Error - SAK failure - Hash generate error
<i>mka_error_sak_failure_sak_encryption_error</i>	(Optional) MKA Error - SAK failure - SAK encryption error
<i>mka_error_sak_failure_sak_decryption_error</i>	(Optional) MKA Error - SAK failure - SAK decryption error
<i>mka_error_sak_failure_sak_cipher_mismatch_error</i>	(Optional) MKA Error - SAK failure - SAK Cipher mismatch error
<i>mka_error_ca_failure_ick_derivation_error</i>	(Optional) MKA Error - CA failure - ICK derivation error
<i>mka_error_ca_failure_kek_derivation_error</i>	(Optional) MKA Error - CA failure - KEK derivation error
<i>mka_error_ca_failure_invalid_macsec_capability_error</i>	(Optional) MKA Error - CA failure - Invalid MACsec capability error
<i>mka_error_macsec_failure_rx_sa_create_error</i>	(Optional) MKA Error - MACsec failure - Rx SA create error
<i>mka_error_macsec_failure_tx_sa_create_error</i>	(Optional) MKA Error - MACsec failure - Tx SA create error
<i>mka_error_mkpdu_failure_mkpdu_tx_error</i>	(Optional) MKA Error - MKPDU failure - MKPDU Tx error
<i>mka_error_mkpdu_failure_mkpdu_rx_integrity_check_error</i>	(Optional) MKA Error - MKPDU failure - MKPDU Rx integrity check error
<i>mka_error_mkpdu_failure_mkpdu_invalid_peer_mn_error</i>	(Optional) MKA Error - MKPDU failure - invalid peer MN error
<i>mka_error_mkpdu_failure_mkpdu_nonrecent_peerlist_mn_error</i>	(Optional) MKA Error - MKPDU failure - non recent peerlist MN error
<i>mka_error_mkpdu_failure_sakuse_kn_mismatch_error</i>	(Optional) MKA Error - MKPDU failure - SAKuse KN mismatch error
<i>mka_error_mkpdu_failure_sakuse_rx_not_set_error</i>	(Optional) MKA Error - MKPDU failure - SAKuse Rx not set error

<i>mka_enor_mkpdu_failure_sakuse_key_mi_mismatch_enor</i>	(Optional) MKA Error - MKPDU failure - SAKuse key MI mismatch error
<i>mka_enor_mkpdu_failure_sakuse_an_not_in_use_enor</i>	(Optional) MKA Error - MKPDU failure - SAKuse AN not in use error
<i>mka_enor_mkpdu_failure_sakuse_ks_rx_tx_not_set_enor</i>	(Optional) MKA Error - MKPDU failure - SAKuse KS Rx Tx not set error
<i>global_stats_mkpdu_rx_invalid_cken</i>	(Optional) Global Statistics MKPDU received invalid CKN
<i>global_stats_mkpdu_tx_pkt_build_fail</i>	(Optional) Global Statistics Transmit Pkt build fail
<i>ifname2</i>	(Optional) MACSEC Interface Name

Command Mode

- /exec

show macsec policy

```
show macsec policy [ <policy_name> ] [ __readonly__ { TABLE_macsec_policy <name> <cipher_suite>
<keyserver_priority> <window_size> <conf_offset> <security_policy> <sak-expiry-time> } ]
```

Syntax Description

show	Show running system information
macsec	Show MACSEC policy information
policy	Show MACSEC policy information
<i>policy_name</i>	(Optional) Name of MACSEC Policy
<i>__readonly__</i>	(Optional)
TABLE_macsec_policy	(Optional)
<i>name</i>	(Optional) MACSEC Policy Name
<i>cipher_suite</i>	(Optional) Cipher Suite
<i>keyserver_priority</i>	(Optional) KeyServer Priority
<i>window_size</i>	(Optional) Window Size
<i>conf_offset</i>	(Optional) Confidentiality Offset
<i>security_policy</i>	(Optional) Security Policy
<i>sak-expiry-time</i>	(Optional) SAK expiry on time interval

Command Mode

- /exec

show macsec secy statistics

```
show macsec secy statistics [ interface <ifname> ] [ __readonly__ TABLE_statistics <ifname2> ] [
<in_pkts_unicast_uncontrolled> ] [ <in_pkts_multicast_uncontrolled> ] [ <in_pkts_broadcast_uncontrolled> ] [
<in_rx_drop_pkts_uncontrolled> ] [ <in_rx_err_pkts_uncontrolled> ] [ <in_pkts_unicast_controlled> ] [
<in_pkts_multicast_controlled> ] [ <in_pkts_broadcast_controlled> ] [ <in_rx_drop_pkts_controlled> ] [
<in_rx_err_pkts_controlled> ] [ <in_octets_uncontrolled> ] [ <in_octets_controlled> ] [
<input_rate_uncontrolled_pps> ] [ <input_rate_uncontrolled_bps> ] [ <input_rate_controlled_pps> ] [
<input_rate_controlled_bps> ] [ <out_pkts_unicast_uncontrolled> ] [ <out_pkts_multicast_uncontrolled> ] [
<out_pkts_broadcast_uncontrolled> ] [ <out_rx_drop_pkts_uncontrolled> ] [ <out_rx_err_pkts_uncontrolled> ] [
<out_pkts_unicast_controlled> ] [ <out_pkts_multicast_controlled> ] [ <out_pkts_broadcast_controlled> ] [
<out_rx_drop_pkts_controlled> ] [ <out_rx_err_pkts_controlled> ] [ <out_octets_uncontrolled> ] [
<out_octets_controlled> ] [ <out_octets_common> ] [ <output_rate_uncontrolled_pps> ] [
<output_rate_uncontrolled_bps> ] [ <output_rate_controlled_pps> ] [ <output_rate_controlled_bps> ] [
<in_pkts_transform_error> ] [ <in_pkts_control> ] [ <in_pkts_untagged> ] [ <in_pkts_no_tag> ] [
<in_pkts_badtag> ] [ <in_pkts_no_sci> ] [ <in_pkts_unknown_sci> ] [ <in_pkts_tagged_ctrl> ] [
<out_pkts_transform_error> ] [ <out_pkts_control> ] [ <out_pkts_untagged> ] [ TABLE_rx_sa_an <rx_sa_an> ] [
<in_pkts_unchecked> ] [ <in_pkts_delayed> ] [ <in_pkts_late> ] [ <in_pkts_ok> ] [ <in_pkts_invalid> ] [
<in_pkts_not_valid> ] [ <in_pkts_not_using_sa> ] [ <in_pkts_unused_sa> ] [ <in_octets_decrypted> ] [
<in_octets_validated> ] [ TABLE_tx_sa_an <tx_sa_an> ] [ <out_pkts_encrypted_protected> ] [
<out_pkts_too_long> ] [ <out_pkts_sa_not_inuse> ] [ <out_octets_encrypted_protected> ] ] ]
```

Syntax Description

show	Show running system information
macsec	Show MACSEC information
secy	Show MACSEC secy entity information
statistics	Show MACSEC secy statistics
interface	(Optional) Specify interface
<i>ifname</i>	(Optional) Interface list
<i>__readonly__</i>	(Optional)
TABLE_statistics	(Optional) MACsec secy statistics
<i>in_pkts_unicast_uncontrolled</i>	(Optional) In Pkts Unicast Uncontrolled
<i>in_pkts_multicast_uncontrolled</i>	(Optional) In Pkts Multicast Uncontrolled
<i>in_pkts_broadcast_uncontrolled</i>	(Optional) In Pkts Broadcast Uncontrolled
<i>in_rx_drop_pkts_uncontrolled</i>	(Optional) In Rx Drop Pkts Uncontrolled
<i>in_rx_err_pkts_uncontrolled</i>	(Optional) In Rx Err Pkts Uncontrolled
<i>in_pkts_unicast_controlled</i>	(Optional) In Pkts Unicast Controlled
<i>in_pkts_multicast_controlled</i>	(Optional) In Pkts Multicast Controlled

<i>in_pkts_broadcast_controlled</i>	(Optional) In Pkts Broadcast Controlled
<i>in_rx_drop_pkts_controlled</i>	(Optional) In Rx Drop Pkts Controlled
<i>in_rx_err_pkts_controlled</i>	(Optional) In Rx Err Pkts Controlled
<i>in_octets_uncontrolled</i>	(Optional) In Octets Uncontrolled
<i>in_octets_controlled</i>	(Optional) In Octets Controlled
<i>input_rate_uncontrolled_bps</i>	(Optional) Input Rate Uncontrolled BPS
<i>input_rate_uncontrolled_pps</i>	(Optional) Input Rate Uncontrolled PPS
<i>input_rate_controlled_bps</i>	(Optional) Input Rate Controlled BPS
<i>input_rate_controlled_pps</i>	(Optional) Input Rate Controlled PPS
<i>out_pkts_unicast_uncontrolled</i>	(Optional) Out Pkts Unicast Uncontrolled
<i>out_pkts_multicast_uncontrolled</i>	(Optional) Out Pkts Multicast Uncontrolled
<i>out_pkts_broadcast_uncontrolled</i>	(Optional) Out Pkts Broadcast Uncontrolled
<i>out_rx_drop_pkts_uncontrolled</i>	(Optional) Out Rx Drop Pkts Uncontrolled
<i>out_rx_err_pkts_uncontrolled</i>	(Optional) Out Rx Err Pkts Uncontrolled
<i>out_pkts_unicast_controlled</i>	(Optional) Out Pkts Unicast Controlled
<i>out_pkts_multicast_controlled</i>	(Optional) Out Pkts Multicast Controlled
<i>out_pkts_broadcast_controlled</i>	(Optional) Out Pkts Broadcast Controlled
<i>out_rx_drop_pkts_controlled</i>	(Optional) Out Rx Drop Pkts Controlled
<i>out_rx_err_pkts_controlled</i>	(Optional) Out Rx Err Pkts Controlled
<i>out_octets_uncontrolled</i>	(Optional) Out Octets Uncontrolled
<i>out_octets_controlled</i>	(Optional) Out Octets Controlled
<i>out_octets_common</i>	(Optional) Out Octets Common
<i>output_rate_uncontrolled_bps</i>	(Optional) Output Rate Uncontrolled BPS
<i>output_rate_uncontrolled_pps</i>	(Optional) Output Rate Uncontrolled PPS
<i>output_rate_controlled_bps</i>	(Optional) Output Rate Controlled BPS
<i>output_rate_controlled_pps</i>	(Optional) Output Rate Controlled PPS
<i>in_pkts_transform_error</i>	(Optional) In Pkts Transform Error
<i>in_pkts_control</i>	(Optional) In Pkts Control
<i>in_pkts_untagged</i>	(Optional) In Pkts Untagged

<i>in_pkts_no_tag</i>	(Optional) In Pkts No Tag
<i>in_pkts_badtag</i>	(Optional) In Pkts Bad Tag
<i>in_pkts_no_sci</i>	(Optional) In Pkts No SCI
<i>in_pkts_unknown_sci</i>	(Optional) In Pkts Unknown SCI
<i>in_pkts_tagged_ctrl</i>	(Optional) In Pkts Tagged Control
<i>out_pkts_transform_error</i>	(Optional) Out Pkts Transform Error
<i>out_pkts_control</i>	(Optional) Out Pkts Control
<i>out_pkts_untagged</i>	(Optional) Out Pkts Untagged
TABLE_rx_sa_an	(Optional) MACsec secy rx_sa_an statistics
<i>rx_sa_an</i>	(Optional) Rx SA AN
<i>in_pkts_unchecked</i>	(Optional) In Pkts Unchecked
<i>in_pkts_delayed</i>	(Optional) In Pkts Delayed
<i>in_pkts_late</i>	(Optional) In Pkts Late
<i>in_pkts_ok</i>	(Optional) In Pkts OK
<i>in_pkts_invalid</i>	(Optional) In Pkts Invalid
<i>in_pkts_not_valid</i>	(Optional) In Pkts not Valid
<i>in_pkts_not_using_sa</i>	(Optional) In Pkts not using SA
<i>in_pkts_unused_sa</i>	(Optional) In Pkts Unused SA
<i>in_octets_decrypted</i>	(Optional) In Octets Decrypted
<i>in_octets_validated</i>	(Optional) In Octets Validated
TABLE_tx_sa_an	(Optional) MACsec secy tx_sa_an statistics
<i>tx_sa_an</i>	(Optional) Tx SA AN
<i>out_pkts_encrypted_protected</i>	(Optional) Out Pkts Encrypted Protected
<i>out_pkts_too_long</i>	(Optional) Out Pkts too Long
<i>out_pkts_sa_not_inuse</i>	(Optional) Out Pkts SA not in use
<i>out_octets_encrypted_protected</i>	(Optional) Out octets Encrypted Protected
<i>ifname2</i>	(Optional) MACSEC Interface Name

Command Mode

- /exec

show maintenance on-reload reset-reasons

```
show maintenance on-reload reset-reasons [ __readonly__ [ TABLE_reset_reason <reset_reason> ] <rr_bitmap> ]
```

Syntax Description

show	Show running system information
maintenance	maintenance
on-reload	on reload maintenance mode configuration
reset-reasons	system reset reasons
<i>__readonly__</i>	(Optional)
<i>TABLE_reset_reason</i>	(Optional)
<i>rr_bitmap</i>	(Optional) reset reason bitmap
<i>reset_reason</i>	(Optional) system reset reason

Command Mode

- /exec

show maintenance profile

show maintenance profile [<mode>] [__readonly__ TABLE_profile <name> TABLE_cfg <cfg>]

Syntax Description

show	Show running system information
maintenance	maintenance
profile	maintenance profile
<i>mode</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_profile	(Optional)
<i>name</i>	(Optional) profile name
TABLE_cfg	(Optional)
<i>cfg</i>	(Optional) profile config

Command Mode

- /exec

show maintenance snapshot-delay

show maintenance snapshot-delay [__readonly__ <delay>]

Syntax Description

show	Show running system information
maintenance	maintenance
snapshot-delay	after_maintenance snapshot delay value
__readonly__	(Optional)
<i>delay</i>	(Optional) delay value in seconds

Command Mode

- /exec

show maintenance timeout

show maintenance timeout [__readonly__ <timeout>]

Syntax Description

show	Show running system information
maintenance	maintenance
timeout	timeout value
__readonly__	(Optional)
<i>timeout</i>	(Optional) timeout value

Command Mode

- /exec

show mcectest

show mcectest <arg> [__readonly__ <arg_resp>]

Syntax Description

mcectest	Show MCECTEST related information
<i>arg</i>	Enter your arguments
<i>__readonly__</i>	(Optional) Read Only
<i>arg_resp</i>	(Optional) Response

Command Mode

- /exec

show mcectest mcec interface

```
show mcectest mcec interface <if> [ use-cache ] [ vdc-id ] [ _readonly_ <mcec_mode> ]
```

Syntax Description

<code>mcectest</code>	Show MCECTEST related information
<code>mcec</code>	Show MCECM information
<i>if</i>	
<code>use-cache</code>	(Optional) Use cache
<i>vdc-id</i>	(Optional) VDC ID
<code>_readonly_</code>	(Optional)
<i>mcec_mode</i>	(Optional) MCEC port mode

Command Mode

- /exec

show mgmt-policy

```
show mgmt-policy { <policy-name> | all } [ __readonly__ { TABLE_mgmt_policy { <mgt-pol-name> [
<source-ip> <source-mask> ] [ <source-ip6> ] [ <src-port-rangestart> <src-port-range-end> ] [ <source-port>
] [ <dst-port-rangestart> <dest-port-range-end> ] [ <dest-port> ] } } ]
```

Syntax Description

show	Show running system information
mgmt-policy	PM Management policy
<i>policy-name</i>	Name of the policy
all	Show all policies
<i>__readonly__</i>	(Optional)
TABLE_mgmt_policy	(Optional) Management policy Details
<i>mgt-pol-name</i>	(Optional)
<i>source-ip</i>	(Optional)
<i>source-mask</i>	(Optional)
<i>src-port-rangestart</i>	(Optional)
<i>src-port-range-end</i>	(Optional)
<i>source-port</i>	(Optional)
<i>dst-port-rangestart</i>	(Optional)
<i>dest-port-range-end</i>	(Optional)
<i>dest-port</i>	(Optional)

Command Mode

- /exec

show module

```
show module [ { <module> } | { <s0> [ <santa-cruz-range> ] } | { fabric [ <module> ] } ] [ __readonly__ {
TABLE_modinfo <modinf> <ports> <modtype> <model> <status> } [ { TABLE_modpwrinfo <modpwr>
<pwrstat> <reason> } ] { TABLE_modwwninfo <modwwn> <sw> <hw> <slottype> } [ { TABLE_modapplinfo
<modappl> <desc> <applver> } ] { TABLE_modmacinfo <modmac> <mac> <serialnum> } {
TABLE_moddiaginfo <mod> <diagstatus> } { TABLE_xbarinfo <xbarinf> <xbarports> <xbartype>
<xbarmodel> <xbarstatus> } [ { TABLE_xbarpwrinfo <xbarpwr> <xbarpwrstat> <xbarreason> } ] {
TABLE_xbarwwninfo <xbarwwn> <xbarsw> <xbarhw> <xbarwwnstr> } { TABLE_xbarmacinfo <xbarmac>
<xbarmacaddr> <xbarserialnum> } ]
```

Syntax Description

show	Show running system information
module	Show module information
<i>module</i>	(Optional) Enter module number
<i>s0</i>	(Optional) Show xbar information
<i>santa-cruz-range</i>	(Optional) please enter the xbar number
fabric	(Optional) Show fabric information
<u>__readonly__</u>	(Optional)
TABLE_modinfo	(Optional) Show Module info
<i>modinf</i>	(Optional) Module
<i>ports</i>	(Optional) Num Ports
<i>modtype</i>	(Optional) Module Type
<i>model</i>	(Optional) Model
<i>status</i>	(Optional) Status
TABLE_modpwrinfo	(Optional) Mod Pwr Info
<i>modpwr</i>	(Optional) Module
<i>pwrstat</i>	(Optional) Power Status
<i>reason</i>	(Optional) Reason
TABLE_modwwninfo	(Optional) Mod WWN Info
<i>modwwn</i>	(Optional) Module
<i>sw</i>	(Optional) SW Ver
<i>hw</i>	(Optional) HW Ver

<i>slottype</i>	(Optional) Slot
TABLE_modapplinfo	(Optional) Mod Appl image info
<i>modappl</i>	(Optional) Module
<i>desc</i>	(Optional) Image desc
<i>applver</i>	(Optional) Version
TABLE_modmacinfo	(Optional) Mod MAC Info
<i>modmac</i>	(Optional) Module
<i>mac</i>	(Optional) MAC
<i>serialnum</i>	(Optional) Serial Num
TABLE_moddiaginfo	(Optional) Mod diag info
<i>mod</i>	(Optional) Module
<i>diagstatus</i>	(Optional) Diag status
TABLE_xbarinfo	(Optional) Show xbar info
<i>xbarinf</i>	(Optional) Module
<i>xbarports</i>	(Optional) Num Ports
<i>xbartype</i>	(Optional) Module Type
<i>xbarmodel</i>	(Optional) Model
<i>xbarstatus</i>	(Optional) Status
TABLE_xbarpwrinfo	(Optional) Xbar Pwr Info
<i>xbarpwr</i>	(Optional) Module
<i>xbarpwrstat</i>	(Optional) Power Status
<i>xbarreason</i>	(Optional) Reason
TABLE_xbarwwninfo	(Optional) Xbar WWN Info
<i>xbarwwn</i>	(Optional) Module
<i>xbarsw</i>	(Optional) SW Ver
<i>xbarhw</i>	(Optional) HW Ver
<i>xbarwwnstr</i>	(Optional) WWN
TABLE_xbarmacinfo	(Optional) Xbar MAC Info
<i>xbarmac</i>	(Optional) Module

<i>xbarmacaddr</i>	(Optional) MAC
<i>xbarserialnum</i>	(Optional) Serial Num

Command Mode

- /exec

show module bandwidth-fairness

show module <module> bandwidth-fairness [__readonly__ { TABLE_fairness <statement> }]

Syntax Description

show	Show running system information
module	Show module information
<i>module</i>	Enter module number
bandwidth-fairness	Show bandwidth fairness status
__readonly__	(Optional)
TABLE_fairness	(Optional)
<i>statement</i>	(Optional)

Command Mode

- /exec

show module fex

```
show module fex { [ all | <i> ] } [ __readonly__ { TABLE_modinfo <fexinf> <modinf> <ports> <modtype>
<model> <status> } { TABLE_modwwninfo <fexwwn> <modwwn> <sw> <hw> <wwn> } {
TABLE_modmacinfo <fexmac> <modmac> <mac> <serialnum> } ]
```

Syntax Description

show	Show running system information
module	Show module information
fex	Show fex module information
all	(Optional) Show information for all FEX
<i>i</i>	(Optional) Enter FEX identifier
__readonly__	(Optional)
TABLE_modinfo	(Optional) Show Module info
<i>fexinf</i>	(Optional) Fex
<i>modinf</i>	(Optional) Module
<i>ports</i>	(Optional) Num Ports
<i>modtype</i>	(Optional) Module Type
<i>model</i>	(Optional) Model
<i>status</i>	(Optional) Status
TABLE_modwwninfo	(Optional) Mod WWN Info
<i>fexwwn</i>	(Optional) Fex
<i>modwwn</i>	(Optional) Module
<i>sw</i>	(Optional) SW Ver
<i>hw</i>	(Optional) HW Ver
<i>wwn</i>	(Optional) WWN
TABLE_modmacinfo	(Optional) Mod MAC Info
<i>fexmac</i>	(Optional) Fex
<i>modmac</i>	(Optional) Module
<i>mac</i>	(Optional) MAC
<i>serialnum</i>	(Optional) Serial Num

Command Mode

- /exec

show module supported

show module supported

Syntax Description

show	Show running system information
module	Show module information
supported	Show supported sw-card-types for this chassis

Command Mode

- /exec

show module uptime

```
show module uptime [ __readonly__ { TABLE_uptimeinf <slot> <starttime> <daysup> <hoursup> <minutesup>
<secondsup> } ]
```

Syntax Description

show	Show running system information
module	Show module information
uptime	Show how long the module has been up and running
__readonly__	(Optional)
TABLE_uptimeinf	(Optional) Show uptime info
<i>slot</i>	(Optional) Slot
<i>starttime</i>	(Optional) Start Time
<i>daysup</i>	(Optional) Days Up
<i>hoursup</i>	(Optional) Hours Up
<i>minutesup</i>	(Optional) Minutes Up
<i>secondsup</i>	(Optional) Seconds Up

Command Mode

- /exec

show monitor

show monitor [*__readonly__* *TABLE_session* <session_number> <state> <state_reason> <description>]

Syntax Description

<i>show</i>	Show running system information
<i>monitor</i>	Show Ethernet SPAN information
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_session</i>	(Optional) show monitor
<i>session_number</i>	(Optional) session id
<i>state</i>	(Optional) State
<i>state_reason</i>	(Optional) State reason
<i>description</i>	(Optional) Session Description

Command Mode

- /exec

show monitor session

```
show monitor session { all | <session_number> | range <session_range> } [ brief ] [ __readonly__
TABLE_session <session_number> <flow_id> <state> <state_reason> <description> <type> <session_mode>
[ <sources_rx> ] + [ <sources_tx> ] + [ <sources_both> ] + [ <destinations> ] + [ <acl_destinations> ] + [
<source_vlans_rx> ] + [ <src_ip> ] + [ <erspan_id> ] + [ <dst_ip> ] + [ <erspan_egress_if> ] + [ <origin_ip>
] + [ <vrf_name> ] + [ <acl_name> ] + [ <erspan_ttl> ] + [ <erspan_dscp> ] + [ <source_vlans_tx> ] + [
<source_vlans_both> ] + [ <filter_vlans> ] + [ <span_mtu> ] + [ <span_rate> ] + [ <span_sampling> ] + [
<tree-id> ] + [ <switchid> ] + [ <err_desc> ] + [ <l3_egress_span> ] + [ <fex_ingress_intf> ] + [
<sampling_capability> ] + [ <mtu_capability> ] + [ <rate_limit_cap> ] + [ <mcbe> ] + [ <switch_id> ] + [
<erspan_v3_cap> ] + [ <erspan_acl> ] + [ <version> ] + [ <erspan_granularity> ] + [ <erspan_gran_cap> ] +
[ <erspan_v2_cap> ] ]
```

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
session	Show session info
all	All sessions
<i>session_number</i>	
range	Specify a range
<i>session_range</i>	
brief	(Optional) Brief information
__readonly__	(Optional) Read only
TABLE_session	(Optional) show monitor
<i>flow_id</i>	(Optional) erspan-id
<i>description</i>	(Optional) Session Description
<i>err_desc</i>	(Optional) Error Description
<i>type</i>	(Optional) Session type
<i>state</i>	(Optional) State
<i>state_reason</i>	(Optional) State reason
<i>session_mode</i>	(Optional) Session mode
<i>sources_rx</i>	(Optional) List of ingress sources
<i>sources_tx</i>	(Optional) List of egress sources
<i>sources_both</i>	(Optional) List of sources in both directions

<i>span_mtu</i>	(Optional) SPAN MTU value
<i>span_rate</i>	(Optional) SPAN rate limit value
<i>span_sampling</i>	(Optional) SPAN sampling range
<i>destinations</i>	(Optional) List of destinations
<i>acl_destinations</i>	(Optional) List of interfaces that wont work for acl capture
<i>dst_ip</i>	(Optional) ERSPAN destination IP
<i>erspan_egress_if</i>	(Optional) Egress interface for ERSPAN SRC session
<i>src_ip</i>	(Optional) ERSPAN source IP
<i>origin_ip</i>	(Optional) ERSPAN origin IP at source router
<i>erspan_id</i>	(Optional) ERSPAN ID Value
<i>vrf_name</i>	(Optional) ERSPAN session VRF
<i>acl_name</i>	(Optional) ERSPAN session ACL
<i>erspan_ttl</i>	(Optional) ERSPAN TTL Value
<i>erspan_dscp</i>	(Optional) ERSPAN DSCP Value
<i>source_vlans_rx</i>	(Optional) Source ingress vlan
<i>source_vlans_tx</i>	(Optional) Source egress vlan
<i>source_vlans_both</i>	(Optional) Source vlans in both directions
<i>filter_vlans</i>	(Optional) Filter vlans
<i>tree-id</i>	(Optional) proxy layer2 gateway source tree-id
<i>switchid</i>	(Optional) proxy layer2 gateway source switchid
<i>sampling_capability</i>	(Optional) List of modules that support Sampling
<i>mtu_capability</i>	(Optional) List of modules that support MTU
<i>l3_egress_span</i>	(Optional) List of modules that support L3 Multicast Egress SPAN
<i>fex_ingress_intf</i>	(Optional) List of fex interfaces that wont work for ingress span
<i>rate_limit_cap</i>	(Optional) List of modules that support Rate Limit
<i>mcbe</i>	(Optional) List all modules that support multicast best effort
<i>switch_id</i>	(Optional) erspan_switch-id
<i>erspan_v3_cap</i>	(Optional) List of modules that support erspan version3
<i>erspan_v2_cap</i>	(Optional) List of modules that support erspan version2

<i>erspan_acl</i>	(Optional) List of modules that support ERSPAN ACL filtering
<i>version</i>	(Optional) Erspan source version: v2/v3
<i>erspan_gran_cap</i>	(Optional) List of modules that support the granularity set
<i>erspan_granularity</i>	(Optional) ERSPAN Type III Granularity

Command Mode

- /exec

show mpls forwarding statistics

```
show mpls forwarding statistics [ interface { <interface> | all } ] [ __readonly__ { TABLE_mpls_stats [
<intf_name> ] <mpls_packets_sent> <mpls_bytes_sent> <mpls_packets_received> <mpls_bytes_received>
<mpls_packets_forwarded> <mpls_bytes_forwarded> <mpls_packets_originated> <mpls_bytes_originated>
<mpls_packets_consumed> <mpls_bytes_consumed> <mpls_packets_input_dropped>
<mpls_bytes_input_dropped> <mpls_packets_output_dropped> <mpls_bytes_output_dropped> } ]
```

Syntax Description

show	Show running system information
mpls	MPLS information
forwarding	Display MPLS software forwarded
statistics	Traffic statistics
interface	(Optional) Interface specific information
<i>interface</i>	(Optional) Interface chosen to display statistics
all	(Optional) All interfaces
<i>__readonly__</i>	(Optional)
TABLE_mpls_stats	(Optional) MPLS forwarding statistics
<i>intf_name</i>	(Optional) Interface name
<i>mpls_packets_sent</i>	(Optional) mpls packet sent
<i>mpls_bytes_sent</i>	(Optional) mpls bytes sent
<i>mpls_packets_received</i>	(Optional) mpls packet received
<i>mpls_bytes_received</i>	(Optional) mpls bytes received
<i>mpls_packets_forwarded</i>	(Optional) mpls packet forwarded
<i>mpls_bytes_forwarded</i>	(Optional) mpls bytes forwarded
<i>mpls_packets_originated</i>	(Optional) mpls packet originated
<i>mpls_bytes_originated</i>	(Optional) mpls bytes originated
<i>mpls_packets_consumed</i>	(Optional) mpls packet consumed
<i>mpls_bytes_consumed</i>	(Optional) mpls bytes consumed
<i>mpls_packets_input_dropped</i>	(Optional) mpls packet input dropped
<i>mpls_bytes_input_dropped</i>	(Optional) mpls bytes input dropped
<i>mpls_packets_output_dropped</i>	(Optional) mpls packet output dropped

<i>mpls_bytes_output_dropped</i>	(Optional) mpls bytes output dropped
----------------------------------	--------------------------------------

Command Mode

- /exec

show mpls interfaces

show mpls interfaces [*__readonly__* *TABLE_mpls_interface* <intf> <oper>]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
interfaces	Display MPLS Interfaces
<i>__readonly__</i>	(Optional)
<i>TABLE_mpls_interface</i>	(Optional)
<i>intf</i>	(Optional)
<i>oper</i>	(Optional)

Command Mode

- /exec

show mpls interfaces detail

```
show mpls interfaces detail [ __readonly__ TABLE_mpls_interface_det <intf> <client_name> <oper_str>
<ls_id> <mpls_sublayer_name> <mpls_sublayer_id> ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
interfaces	Interfaces
detail	Detail
<i>__readonly__</i>	(Optional)
<i>TABLE_mpls_interface_det</i>	(Optional)
<i>intf</i>	(Optional)
<i>client_name</i>	(Optional)
<i>oper_str</i>	(Optional)
<i>ls_id</i>	(Optional)
<i>mpls_sublayer_name</i>	(Optional)
<i>mpls_sublayer_id</i>	(Optional)

Command Mode

- /exec

show mpls interfaces statistics

```
show mpls interfaces <ifname> statistics [ __readonly__ TABLE_mpls_interface_stats <intf> <enabled> [
<pkts_in> ] [ <bytes_in> ] [ <pkts_out> ] [ <bytes_out> ] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
interfaces	Interfaces
<i>ifname</i>	Interface Name
statistics	statistics
<i>__readonly__</i>	(Optional)
TABLE_mpls_interface_stats	(Optional)
<i>intf</i>	(Optional)
<i>enabled</i>	(Optional)
<i>pkts_in</i>	(Optional)
<i>bytes_in</i>	(Optional)
<i>pkts_out</i>	(Optional)
<i>bytes_out</i>	(Optional)

Command Mode

- /exec

show mpls ip bindings

```
show mpls ip bindings [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ generic ] [ { <prefix> { <mask> |
<mask-length> } | <prefix-mask> } [ longer-prefix ] ] [ neighbor <addr> | local ] [ [ local-label <local-label>
[ local-to <local-label-max> ] ] [ remote-label <remote-label> [ remote-to <remote-label-max> ] ] ] [
advertisement-prefix-list | detail ] [ __readonly__ { TABLE_bnd [ <ldp_ctx> ] [ <llaf> ] [ {
TABLE_bnd_acl_list <oldstyle> <prefix_acl> <peer_acl> } ] { TABLE_bnd_rec <lib_addr> <lib_mask> [
<lcl_bnd_rev> ] [ <no_route> ] [ <chkpt> ] [ <local_label> ] [ <withdraw> ] [ { TABLE_bnd_peer_list
<peer_ident> } ] [ <remote_label> ] [ <remote_lsr> ] [ <rem_lbl_in_use> ] [ <stale_gr> ] [
<advert_acl_pending> ] [ <peer_acl> ] [ <prefix_acl> } } ] }
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ip	MPLS IP information
bindings	Show the MPLS IP Label Information Base (LIB)
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display LIB information in all VRFs
generic	(Optional) Display generic labels
<i>prefix</i>	(Optional) Destination prefix
<i>mask</i>	(Optional) Destination prefix mask
<i>mask-length</i>	(Optional) Mask length
<i>prefix-mask</i>	(Optional) Destination prefix/mask
longer-prefix	(Optional) Include longer matches
neighbor	(Optional) Display labels from LDP neighbor
<i>addr</i>	(Optional) IP adjacency address
local	(Optional) Display only locally assigned labels
local-label	(Optional) Match locally assigned label values
<i>local-label</i>	(Optional) Locally assigned label value
local-to	(Optional) Label range
<i>local-label-max</i>	(Optional) Locally assigned label value

remote-label	(Optional) Match remotely assigned label values
<i>remote-label</i>	(Optional) Remotely assigned label value
remote-to	(Optional) Label range
<i>remote-label-max</i>	(Optional) Remotely assigned label value
advertisement-prefix-list	(Optional) Show advertisement prefix lists
detail	(Optional) Show detailed information
<i>__readonly__</i>	(Optional) Read Only
TABLE_bnd	(Optional) Show bindings or tib summary for a vrf
<i>ldp_ctx</i>	(Optional) LDP context
<i>llaf</i>	(Optional) Local label filtering spec
TABLE_bnd_acl_list	(Optional) Show advertisement access lists for default vrf
<i>oldstyle</i>	(Optional) Oldstyle assignment of prefix acls to entries
<i>prefix_acl</i>	(Optional) Prefix acl
<i>peer_acl</i>	(Optional) Peer acl
TABLE_bnd_rec	(Optional) Show bindings in a vrf
<i>lib_addr</i>	(Optional) LIB entry IP address
<i>lib_mask</i>	(Optional) LIB entry mask
<i>lcl_bnd_rev</i>	(Optional) Local binding revision for lib entry
<i>no_route</i>	(Optional) Displays if no route present for lib entry
<i>chkpt</i>	(Optional) Checkpoint state for lib entry
<i>local_label</i>	(Optional) Local label
<i>withdraw</i>	(Optional) Displays if label withdrawn or label withdraw sent
<i>remote_lsr</i>	(Optional) Remote binding label switched route for lib entry
<i>remote_label</i>	(Optional) Remote label for lib entry
<i>rem_lbl_in_use</i>	(Optional) Displays if out label is in use
<i>stale_gr</i>	(Optional) Displays if stale GR binding for lib entry
<i>advert_acl_pending</i>	(Optional) Displays if advert acl action pending for lib entry
<i>peer_acl</i>	(Optional) Advertisement acl: Peer acl name for lib entry
<i>prefix_acl</i>	(Optional) Advertisement acl: Prefix acl name for lib entry

TABLE_bnd_peer_list	(Optional) Show list of peers to which local label has been advertised
<i>peer_ident</i>	(Optional) Peer to which local label has been advertised

Command Mode

- /exec

show mpls ip bindings summary

```
show mpls ip bindings summary [ __readonly__ { TABLE_bnd <total_prefixes> <assigned_bindings>
<local_bindings> <rem_bindings> <total_rt_info> <current_prev_lbl_entries> <total_prev_lbl_entries>
<current_prev_lbl_queues> <total_prev_lbl_queues> } ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ip	MPLS IP information
bindings	Show the MPLS IP Label Information Base (LIB)
summary	Show summary information
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_bnd</i>	(Optional) Show bindings or tib summary for a vrf
<i>total_prefixes</i>	(Optional) Total number of prefixes
<i>assigned_bindings</i>	(Optional) Total number of assigned bindings
<i>total_rt_info</i>	(Optional) Total tib route info allocated
<i>local_bindings</i>	(Optional) Total number of locally assigned bindings
<i>rem_bindings</i>	(Optional) Total number of remote bindings
<i>current_prev_lbl_entries</i>	(Optional) Current number of previous tib remote label entries allocated
<i>total_prev_lbl_entries</i>	(Optional) Total number of previous tib remote label entries allocated
<i>current_prev_lbl_queues</i>	(Optional) Current number of previous tib remote label queues allocated
<i>total_prev_lbl_queues</i>	(Optional) Total number of previous tib remote label queues allocated

Command Mode

- /exec

show mpls ip ttl

```
show mpls ip ttl [ __readonly__ TABLE_mpls_ip_ttl <prop_or_exp> [ <forwarded> ] [ <local> ] [ <exp_count> ] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ip	Display IP information
ttl	TTL related information
<i>__readonly__</i>	(Optional)
<i>TABLE_mpls_ip_ttl</i>	(Optional)
<i>prop_or_exp</i>	(Optional)
<i>forwarded</i>	(Optional)
<i>local</i>	(Optional)
<i>exp_count</i>	(Optional)

Command Mode

- /exec

show mpls label range

```
show mpls label range [ __readonly__ <dynamic-min> <dynamic-max> [ <static-min> <static-max> ] [
<srgb-min> <srgb-max> ] ]
```

Syntax Description

show	Show running system information
mpls	MPLS configuration commands
label	Label properties
range	Label range
<i>__readonly__</i>	(Optional)
<i>dynamic-min</i>	(Optional)
<i>dynamic-max</i>	(Optional)
<i>static-min</i>	(Optional)
<i>static-max</i>	(Optional)
<i>srgb-min</i>	(Optional)
<i>srgb-max</i>	(Optional)

Command Mode

- /exec

show mpls label statistics

show mpls label statistics <label>

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
label	Show a specific label statistics
statistics	Statistics for the label
<i>label</i>	Label

Command Mode

- /exec

show mpls ldp backoff

```
show mpls ldp backoff [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <initial_time>
<maximum_time> [ { TABLE_backoff [ <vrf-name> ] <total_entry> { TABLE_backoff_rec <peer_id>
<threshold> <elapsed_time> } } ] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
backoff	LDP session setup backoff table
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display backoff information in all VRFs
<i>__readonly__</i>	(Optional) Read Only
<i>initial_time</i>	(Optional) Initial backoff value in seconds
<i>maximum_time</i>	(Optional) Maximum backoff value in seconds
TABLE_backoff	(Optional) Show backoff for a vrf
<i>vrf-name</i>	(Optional) VRF name
<i>total_entry</i>	(Optional) Total number of entries in Backoff table
TABLE_backoff_rec	(Optional) Show backoff record in a vrf
<i>peer_id</i>	(Optional) Peer router ID
<i>threshold</i>	(Optional) Backoff threshold in seconds
<i>elapsed_time</i>	(Optional) Backoff elapsed time in seconds

Command Mode

- /exec

show mpls ldp bindings

```
show mpls ldp bindings [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ { <prefix> { <mask> | <mask-length>
} | <prefix-mask> } [ longer-prefix ] ] [ neighbor <addr> | local ] [ local-label <local-label> [ local-to
<local-label-max> ] ] [ remote-label <remote-label> [ remote-to <remote-label-max> ] ] [
advertisement-prefix-list | detail ] [ __readonly__ { TABLE_bnd [ <ldp_ctx> ] [ <llaf> ] [ {
TABLE_bnd_acl_list <oldstyle> <prefix_acl> <peer_acl> } ] [ { TABLE_bnd_rec <lib_addr> <lib_mask>
<lcl_bnd_rev> [ <no_route> ] [ <chkpt> ] [ <local_label> ] [ <withdraw> ] [ { TABLE_bnd_peer_list
<peer_ident> } ] [ { TABLE_bnd_remote [ <remote_lsr> ] [ <remote_label> ] [ <rem_lbl_in_use> ] [ <stale_gr>
] } ] [ <advert_acl_pending> ] [ <peer_acl> ] [ <prefix_acl> } ] } ] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
bindings	Show the LDP Label Information Base (LIB)
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display LIB information in all VRFs
<i>prefix</i>	(Optional) Destination prefix
<i>mask</i>	(Optional) Destination prefix mask
<i>mask-length</i>	(Optional) Mask length
<i>prefix-mask</i>	(Optional) Destination prefix/mask
longer-prefix	(Optional) Include longer matches
neighbor	(Optional) Display labels from LDP neighbor
<i>addr</i>	(Optional) IP adjacency address
local	(Optional) Display only locally assigned labels
local-label	(Optional) Match locally assigned label values
<i>local-label</i>	(Optional) Locally assigned label value
local-to	(Optional) Label range
<i>local-label-max</i>	(Optional) Locally assigned label value
remote-label	(Optional) Match remotely assigned label values

<i>remote-label</i>	(Optional) Remotely assigned label value
<i>remote-to</i>	(Optional) Label range
<i>remote-label-max</i>	(Optional) Remotely assigned label value
<i>advertisement-prefix-list</i>	(Optional) Show advertisement prefix lists
<i>detail</i>	(Optional) Show detailed information
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_bnd</i>	(Optional) Show bindings for a vrf
<i>ldp_ctx</i>	(Optional) LDP context
<i>llaf</i>	(Optional) Local label filtering spec
<i>TABLE_bnd_acl_list</i>	(Optional) Show advertisement access lists for default vrf
<i>oldstyle</i>	(Optional) Oldstyle assignment of prefix acls to entries
<i>prefix_acl</i>	(Optional) Prefix acl
<i>peer_acl</i>	(Optional) Peer acl
<i>TABLE_bnd_rec</i>	(Optional) Show bindings in a vrf
<i>lib_addr</i>	(Optional) LIB entry IP address
<i>lib_mask</i>	(Optional) LIB entry mask
<i>lcl_bnd_rev</i>	(Optional) Local binding revision for lib entry
<i>no_route</i>	(Optional) Displays if no route present for lib entry
<i>chkpt</i>	(Optional) Checkpoint state for lib entry
<i>local_label</i>	(Optional) Local label
<i>withdraw</i>	(Optional) Displays if label withdrawn or label withdraw sent
<i>TABLE_bnd_remote</i>	(Optional) Remote bindings
<i>remote_lsr</i>	(Optional) Remote binding label switched route for lib entry
<i>remote_label</i>	(Optional) Remote label for lib entry
<i>rem_lbl_in_use</i>	(Optional) Displays if out label is in use
<i>stale_gr</i>	(Optional) Displays if stale GR binding for lib entry
<i>advert_acl_pending</i>	(Optional) Displays if advert acl action pending for lib entry
<i>peer_acl</i>	(Optional) Advertisement acl: Peer acl name for lib entry
<i>prefix_acl</i>	(Optional) Advertisement acl: Prefix acl name for lib entry

TABLE_bnd_peer_list	(Optional) Show list of peers to which local label has been advertised
<i>peer_ident</i>	(Optional) Peer to which local label has been advertised

Command Mode

- /exec

show mpls ldp bindings summary

```
show mpls ldp bindings summary [ __readonly__ { TABLE_bnd <total_prefixes> <assigned_bindings>
<local_bindings> <rem_bindings> <total_rt_info> <current_prev_lbl_entries> <total_prev_lbl_entries>
<current_prev_lbl_queues> <total_prev_lbl_queues> } ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
bindings	Show the LDP Label Information Base (LIB)
summary	Show summary information
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_bnd</i>	(Optional) Show bindings or tib summary for a vrf
<i>total_prefixes</i>	(Optional) Total number of prefixes
<i>assigned_bindings</i>	(Optional) Total number of assigned bindings
<i>total_rt_info</i>	(Optional) Total tib route info allocated
<i>local_bindings</i>	(Optional) Total number of locally assigned bindings
<i>rem_bindings</i>	(Optional) Total number of remote bindings
<i>current_prev_lbl_entries</i>	(Optional) Current number of previous tib remote label entries allocated
<i>total_prev_lbl_entries</i>	(Optional) Total number of previous tib remote label entries allocated
<i>current_prev_lbl_queues</i>	(Optional) Current number of previous tib remote label queues allocated
<i>total_prev_lbl_queues</i>	(Optional) Total number of previous tib remote label queues allocated

Command Mode

- /exec

show mpls ldp capabilities

```
show mpls ldp capabilities [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_cap [ <vrf-name> ] { TABLE_cap_rec <description> [ <state> ] } } ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
capabilities	Display LDP Capabilities information
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display Capabilities database in all VRFs
__readonly__	(Optional) Read Only
<i>vrf-name</i>	(Optional) VRF name
TABLE_cap	(Optional) Show capabilities for a vrf
TABLE_cap_rec	(Optional) Show capabilities record in a vrf
<i>description</i>	(Optional) Capability description
<i>state</i>	(Optional) Capability state information

Command Mode

- /exec

show mpls ldp checkpoint

show mpls ldp checkpoint [__readonly__]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
checkpoint	Display LDP checkpoint information
__readonly__	(Optional) Read Only

Command Mode

- /exec

show mpls ldp discovery

```
show mpls ldp discovery [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ detail ] [ __readonly__ {
TABLE_dsc_ctx [ <ldp_ctx> ] [ <ldp_status> ] <local_ldp_ident> [ { TABLE_dsc_if <if> <ptcl> [ <if_status>
] <xmit_recv> [ <if_cfg> ] [ <igp_cfg> ] [ <hello_int> ] [ <local_xport_addr> ] { TABLE_dsc_adj
<remote_ldp_ident> [ <nhop_info> ] [ <remote_src_ip> ] [ <remote_xport_ip> ] [ <hold_time> ] [
<local_hold_time> ] [ <nbr_hold_time> ] [ <nhop_addr> ] [ <nhop_mask> ] [ <pwdinfo> } ] [ <clients> } ]
] [ { TABLE_dsc_tgt [ <tgt_remote_ip> ] [ <tgt_local_ip> ] [ <tgt_ptcl> ] [ <tgt_type> ] [
<tgt_xmit_recv> ] [ <tgt_hello_int> ] [ <tgt_local_xport_addr> ] [ <tgt_remote_ldp_ident> ] [
<tgt_nhop_info> ] [ <tgt_remote_src_ip> <tgt_remote_xport_ip> ] [ <tgt_hold_time>
<tgt_local_hold_time> <tgt_nbr_hold_time> ] [ <tgt_nhop_addr> <tgt_nhop_mask> ] [ <tgt_pwdinfo>
} ] } ] }
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
discovery	Display sources for locally generated LDP Discovery Hello PDUs
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display discovery information in all VRFs
detail	(Optional) Display detailed LDP discovery information
__readonly__	(Optional) Read Only
TABLE_dsc_ctx	(Optional) Show discovery info across contexts
<i>ldp_ctx</i>	(Optional) LDP context
<i>ldp_status</i>	(Optional) LDP operational status
<i>local_ldp_ident</i>	(Optional) Local router ID:Local label space
TABLE_dsc_if	(Optional) Show discovery info across interfaces
<i>if</i>	(Optional) Discovery source interface
<i>ptcl</i>	(Optional) LDP or TDP protocol
<i>if_status</i>	(Optional) LDP interface status
<i>xmit_recv</i>	(Optional) Transmitting and/or receiving
<i>if_cfg</i>	(Optional) Shown if mpls ip is enabled on the interface

<i>igp_cfg</i>	(Optional) Shown if autoconfig is enabled on the interface
<i>hello_int</i>	(Optional) Hello interval in ms
<i>local_xport_addr</i>	(Optional) Local transport ip address
TABLE_dsc_adj	(Optional) Show link adjacencies
<i>remote_ldp_ident</i>	(Optional) Remote router ID:Remote label space
<i>nhop_info</i>	(Optional) Shown if no next-hop info for peer
<i>remote_src_ip</i>	(Optional) Remote source ip address
<i>remote_xport_ip</i>	(Optional) Remote transport ip address
<i>hold_time</i>	(Optional) Hold time in seconds
<i>local_hold_time</i>	(Optional) Proposed local hold time in seconds
<i>nbr_hold_time</i>	(Optional) Peer hold time in seconds
<i>nhop_addr</i>	(Optional) Peer reachable via this next-hop IP address
<i>nhop_mask</i>	(Optional) Next-hop mask
<i>pwdinfo</i>	(Optional) Password information
<i>clients</i>	(Optional) LDP clients (IPv4, mLDP, i.e.)
TABLE_dsc_tgtd	(Optional) Show targeted hellos
<i>tgtd_remote_ip</i>	(Optional) Remote ip address for targeted hellos
<i>tgtd_local_ip</i>	(Optional) Local ip address for targeted hellos
<i>tgtd_ptcl</i>	(Optional) LDP or TDP protocol for targeted hellos
<i>tgtd_type</i>	(Optional) Active/passive type for targeted hellos
<i>tgtd_xmit_rcv</i>	(Optional) Transmitting and/or receiving targeted hellos
<i>tgtd_hello_int</i>	(Optional) Targeted hello interval in ms
<i>tgtd_local_xport_addr</i>	(Optional) Local transport address for targeted hellos
<i>tgtd_remote_ldp_ident</i>	(Optional) Remote router ID:Remote label space
<i>tgtd_nhop_info</i>	(Optional) Shown if no next-hop info for peer
<i>tgtd_remote_src_ip</i>	(Optional) Remote source ip address
<i>tgtd_remote_xport_ip</i>	(Optional) Remote transport ip address
<i>tgtd_hold_time</i>	(Optional) Targeted hold time in seconds
<i>tgtd_local_hold_time</i>	(Optional) Proposed local targeted hold time in seconds

<i>tgt_d_nbr_hold_time</i>	(Optional) Peer targeted hold time in seconds
<i>tgt_d_nhop_addr</i>	(Optional) Peer reachable via this next-hop IP address
<i>tgt_d_nhop_mask</i>	(Optional) Next-hop mask
<i>tgt_d_pwdinfo</i>	(Optional) Password information

Command Mode

- /exec

show mpls ldp graceful-restart

```
show mpls ldp graceful-restart [ __readonly__ <gr-st-enabled> [ <gr-st-restarted> <gr-st-fwd-holding-left-sec>
] <gr-st-nbr-liveness-sec> <gr-st-max-recovery-sec> [ <gr-st-fwd-holding-sec> ] [ { TABLE_dnbr
<dnbr-rec_cnt> [ { TABLE_dnbr_rec [ <dnbr-rec-vrf-name> ] <dnbr-peer-id> <dnbr-peer-inst> <dnbr-lcl-id>
[ <dnbr-reconn-left-sec> ] [ <dnbr-recovery-left-sec> ] <dnbr-addr-list-cnt> [ { TABLE_dnbr_addr_list_rec
<dnbr_addr_list_rec_addr> } ] } ] } ] [ { TABLE_gr_sess <gr-sess-vrf-name> { TABLE_gr_sess_inst
<gr-sess-peer-id> <gr-sess-state> } } ] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
graceful-restart	Show Graceful Restart summary
<i>__readonly__</i>	(Optional) Read Only
<i>gr-st-enabled</i>	(Optional) LDP Graceful Restart Enabled
<i>gr-st-restarted</i>	(Optional) LDP is restarting gracefully
<i>gr-st-fwd-holding-left-sec</i>	(Optional) LDP forwarding state holdtime left
<i>gr-st-nbr-liveness-sec</i>	(Optional) LDP GR neighbor liveness time
<i>gr-st-max-recovery-sec</i>	(Optional) LDP GR max recovery time
<i>gr-st-fwd-holding-sec</i>	(Optional) LDP GR forwarding state holdtime
TABLE_dnbr	(Optional) LDP GR down neighbor information
<i>dnbr-rec_cnt</i>	(Optional) LDP GR down neighbor count
TABLE_dnbr_rec	(Optional) LDP GR down neighbor record
<i>dnbr-rec-vrf-name</i>	(Optional) LDP GR down neighbor vrf
<i>dnbr-peer-id</i>	(Optional) LDP GR down neighbor peer ID
<i>dnbr-peer-inst</i>	(Optional) LDP GR down neighbor instance
<i>dnbr-lcl-id</i>	(Optional) LDP GR down neighbor local ID
<i>dnbr-reconn-left-sec</i>	(Optional) LDP GR down neighbor reconnection left
<i>dnbr-recovery-left-sec</i>	(Optional) LDP GR down neighbor recovery left
<i>dnbr-addr-list-cnt</i>	(Optional) LDP GR down neighbor address list count
TABLE_dnbr_addr_list_rec	(Optional) LDP GR down neighbor address list

<i>dnbr_addr_list_rec_addr</i>	(Optional) LDP GR down neighbor address
TABLE_gr_sess	(Optional) LDP GR session information
<i>gr-sess-vrf-name</i>	(Optional) LDP GR session vrf
TABLE_gr_sess_inst	(Optional) LDP GR session instance information
<i>gr-sess-peer-id</i>	(Optional) LDP GR session peer ID
<i>gr-sess-state</i>	(Optional) LDP GR session state

Command Mode

- /exec

show mpls ldp igp sync

```
show mpls ldp igp sync [ vrf { <vrf-name> | <vrf-known-name> | all } | interface <intfc> ] [ __readonly__ {
TABLE_ismnc [ <ldp_ctx> ] { TABLE_ismnc_if_list <if_name> <ldp_status> <ismnc_status> [ <sync_achieved>
] [ <peer_reachable> ] [ <delay_time> ] [ <secs_left> ] [ <holddown_time> ] [ { TABLE_ismnc_peer_list
<peer_idnt> <gr_enabled> } ] [ { TABLE_ismnc_nsi_rec <nsi_idnt> <chkpt_created> } ] [ {
TABLE_ismnc_igp_rec <igp_enabled> <igp_instance> } ] } ] }
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
igp	IGP-related information
sync	LDP-IGP Synchronization
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display IGP SYNC information in all VRFs
interface	(Optional) Interface of interest
<i>intfc</i>	(Optional)
__readonly__	(Optional) Read Only
TABLE_ismnc	(Optional) Show igp sync info for a vrf
<i>ldp_ctx</i>	(Optional) LDP context
TABLE_ismnc_if_list	(Optional) Show igp sync info for a single interface
<i>if_name</i>	(Optional) Interface namestring
<i>ldp_status</i>	(Optional) LDP configured/not configured
<i>ismnc_status</i>	(Optional) LDP-IGP Synchronization enabled/disabled
<i>sync_achieved</i>	(Optional) Sync status: sync achieved/not achieved
<i>peer_reachable</i>	(Optional) Sync status: peer reachable/not reachable
<i>delay_time</i>	(Optional) Sync delay time (seconds)
<i>secs_left</i>	(Optional) Sync timer remaining time (seconds left)
<i>holddown_time</i>	(Optional) IGP holddown time

TABLE_isync_peer_list	(Optional) Show all peers for interface
<i>peer_ident</i>	(Optional) Peer LDP Ident
<i>gr_enabled</i>	(Optional) Displays if GR is enabled for session
TABLE_isync_nsi_rec	(Optional) Show all interface-level neighbor id records
<i>nsi_ident</i>	(Optional) GR-enabled peer ID
<i>chkpt_created</i>	(Optional) Displays if NSI checkpoint created
TABLE_isync_igp_rec	(Optional) Show sync-enabled IGP instances enabled on interface
<i>igp_enabled</i>	(Optional) Displays if IGP sync is enabled on intf
<i>igp_instance</i>	(Optional) IGP instance protocol and handle

Command Mode

- /exec

show mpls ldp neighbor

```
show mpls ldp neighbor [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ <address> | <interface> ] [ capabilities
| detail | graceful-restart | password ] [ __readonly__ { TABLE_ctx [ <ldp_ctx> ] [ <tdp_status> ] { TABLE_rec
<peer_router_id> <local_router_id> <remote_addr> <remote_tcp_port> <local_addr> <local_tcp_port> [
<md5_status> <sha1_status> ] [ <pwd_info> ] [ <adj_pwd_rx> <adj_pwd_tx> <tcp_pwd_rx> <tcp_pwd_tx>
] <state> <msgs_sent> <msgs_rcvd> [ <advert> ] [ <last_rev_sent> ] [ <up_time> ] [ <uid> ] [ <peer_id> ]
[ <gr_status> ] [ <gr_reconnect_time> ] [ { TABLE_adj [ <intf> <src_ip> ] [ <hello_holdtime> <hello_intvl>
] [ <dhcb_local> <dhcb_target> <dhcb_mode> [ <dhcb_holdtime> <dhcb_intvl> ] ] } ] [ { TABLE_addr
<peer_addr> } ] [ { TABLE_dup_addr <dup_addr> } ] [ <peer_holdtime> ] [ <ka_interval> ] [ <peer_state>
] [ { TABLE_client <client_name> } ] [ <inbound_filter> ] [ <sp_state> <sp_info> <sp_timer_left> ] [
<loop_det_peer> <loop_det_local> <pvl_peer> <pvl_local> ] [ { TABLE_cap_sent <cap_sent_name> } ] [
{ TABLE_cap_rcvd <cap_rcvd_name> } ] } ] }
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
neighbor	LDP neighbor
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display neighbor information in all VRFs
<i>address</i>	(Optional) Neighbor address
<i>interface</i>	(Optional) Local interface
capabilities	(Optional) Display neighbor capability information
detail	(Optional) Display detailed neighbor information
graceful-restart	(Optional) Display graceful restart neighbor information
password	(Optional) Display neighbor password information
__readonly__	(Optional) Read Only
TABLE_ctx	(Optional) Show session info across all contexts
<i>ldp_ctx</i>	(Optional) LDP context
<i>tdp_status</i>	(Optional) LDP status
TABLE_rec	(Optional) Show session info for a vrf

<i>peer_router_id</i>	(Optional) Peer router LDP ID
<i>local_router_id</i>	(Optional) Local router LDP ID
<i>remote_addr</i>	(Optional) TCP connection remote IP address
<i>remote_tcp_port</i>	(Optional) TCP connection remote port number
<i>local_addr</i>	(Optional) TCP connection local IP address
<i>local_tcp_port</i>	(Optional) TCP connection local port number
<i>md5_status</i>	(Optional) MD5 on for this LDP session
<i>sha1_status</i>	(Optional) SHA1 on for this LDP session
<i>pwd_info</i>	(Optional) Password status
<i>adj_pwd_rx</i>	(Optional) Adj pwd Rx
<i>adj_pwd_tx</i>	(Optional) Adj pwd Tx
<i>tcp_pwd_rx</i>	(Optional) TCP pwd Rx
<i>tcp_pwd_tx</i>	(Optional) TCP pwd Tx
<i>state</i>	(Optional) LDP session state
<i>msgs_sent</i>	(Optional) Number of msgs/PIEs sent
<i>msgs_rcvd</i>	(Optional) Number of msgs/PIEs received
<i>advert</i>	(Optional) Neighbor label advertisement type
<i>last_rev_sent</i>	(Optional) Last TIB revision sent
<i>up_time</i>	(Optional) LDP session up time
<i>uid</i>	(Optional) Unique ID for adjacency
<i>peer_id</i>	(Optional) Peer index for adjacency
<i>gr_status</i>	(Optional) Graceful restart status
<i>gr_reconnect_time</i>	(Optional) Graceful restart peer reconnect time (msecs)
<i>peer_holdtime</i>	(Optional) Holdtime of peer (ms)
<i>ka_interval</i>	(Optional) Keepalive interval
<i>peer_state</i>	(Optional) State of session with peer
<i>inbound_filter</i>	(Optional) LDP inbound filtering accept acl
<i>sp_state</i>	(Optional) LDP Session Protection state
<i>sp_info</i>	(Optional) LDP Session Protection filter and duration (secs)

<i>sp_timer_left</i>	(Optional) LDP Session Protection holdup time remaining (secs)
<i>loop_det_peer</i>	(Optional) Loop Detection peer status
<i>loop_det_local</i>	(Optional) Loop Detection local status
<i>pvl_peer</i>	(Optional) Path Vector Limit of peer
<i>pvl_local</i>	(Optional) Path Vector Limit of local
TABLE_adj	(Optional) LDP discovery sources
<i>intf</i>	(Optional) Local interface to peer
<i>src_ip</i>	(Optional) Source IP address of hello packet
<i>hello_holdtime</i>	(Optional) Hello holdtime (ms)
<i>hello_intvl</i>	(Optional) Hello interval (ms)
<i>dhcb_local</i>	(Optional) DHCB local IP address
<i>dhcb_target</i>	(Optional) DHCB target IP address
<i>dhcb_mode</i>	(Optional) DHCB active or passive mode
<i>dhcb_holdtime</i>	(Optional) Targeted hello holdtime
<i>dhcb_intvl</i>	(Optional) Targeted hello interval
TABLE_addr	(Optional) Addresses bound to peer LDP ID
<i>peer_addr</i>	(Optional) Address bound to peer LDP Ident
TABLE_dup_addr	(Optional) Duplicate addresses advertised by peer
<i>dup_addr</i>	(Optional) Duplicate address advertised by peer
TABLE_client	(Optional) Client names associated with session
<i>client_name</i>	(Optional) Client name
TABLE_cap_sent	(Optional) Capabilities sent
<i>cap_sent_name</i>	(Optional) Capability sent
TABLE_cap_rcvd	(Optional) Capabilities received
<i>cap_rcvd_name</i>	(Optional) Capability received

Command Mode

- /exec

show mpls ldp parameters

```
show mpls ldp parameters [ __readonly__ { TABLE_fctrl <fctrl_state> [ <fctrl_compat_fset> ] [ {
TABLE_features <feature_name> } ] [ <feature_none> ] } <ptcl-version> [ <sess-hold-infinite> ] [
<sess-hold-sec> ] <kpalive-intvl-sec> <hello-hold-sec> <hello-intvl-sec> <tgthello-hold-sec>
<tgthello-intvl-sec> [ <tgthello-acpt-st> ] [ <tgthello-acpt-fltr> ] <max-hop-count> <targeted-session-st>
<backoff-init-sec> <backoff-max-sec> <loop-detection-st> [ <omit-xport-addr> ] [ <ignore-xport-addr> ] [
<hello-spoofing> ] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
parameters	Display LDP configuration parameters
<i>__readonly__</i>	(Optional) Read Only
<i>ptcl-version</i>	(Optional) LDP protocol version
<i>sess-hold-infinite</i>	(Optional) LDP session holdtime infinite
<i>sess-hold-sec</i>	(Optional) LDP session holdtime in seconds
<i>kpalive-intvl-sec</i>	(Optional) LDP session keepalive interval in seconds
<i>hello-hold-sec</i>	(Optional) LDP discovery adjacency holdtime in seconds
<i>hello-intvl-sec</i>	(Optional) LDP discovery hello interval in seconds
<i>tgthello-hold-sec</i>	(Optional) LDP targeted adjacency holdtime in seconds
<i>tgthello-intvl-sec</i>	(Optional) LDP targeted hello interval in seconds
<i>tgthello-acpt-st</i>	(Optional) LDP targeted hello accept
<i>tgthello-acpt-fltr</i>	(Optional) LDP targeted hello acceptance filter
<i>omit-xport-addr</i>	(Optional) Omitting transport addr in transmitted hello
<i>ignore-xport-addr</i>	(Optional) Ignoring transport addr in received hello
<i>hello-spoofing</i>	(Optional) Accepting undirected hellos to non-broadcast addresses
<i>max-hop-count</i>	(Optional) Downstream on Demand max hop count
<i>targeted-session-st</i>	(Optional) Targeted session
<i>backoff-init-sec</i>	(Optional) LDP initial backoff in seconds
<i>backoff-max-sec</i>	(Optional) LDP maximum backoff in seconds

<i>loop-detection-st</i>	(Optional) LDP loop detection
TABLE_fctrl	(Optional) LDP feature set manager
<i>fctrl_state</i>	(Optional) LDP feature set manager state
<i>fctrl_compat_fset</i>	(Optional) LDP feature set compatible
TABLE_features	(Optional) LDP feature list
<i>feature_name</i>	(Optional) LDP feature name
<i>feature_none</i>	(Optional) LDP not enabled

Command Mode

- /exec

show mpls static binding

```
show mpls static binding [ vrf { <vrf-name> | <vrf-known-name> } ] { { ipv4 [ <prefix> { <mask> |
<mask-length> } | <prefix-mask> ] [ local | remote ] [ nexthop <addr> ] [ inconsistency ] [ lsp <slb_name> ]
} | { ipv6 [ <ipv6-prefix> ] [ local | remote ] [ ipv6-nexthop <ipv6-addr> ] [ inconsistency ] } | all [ inconsistency
] } [ __readonly__ [ TABLE_slb [ <slb_name> ] [ <slb_prefix> ] [ <slb_mask> ] <slb_vrf> <slb_inlabel> [
<slb_type> ] [ TABLE_slb_outlbl_list [ <slb_nh_path_num> ] <slb_nhopp> <slb_outlabel> ] [
<inconsistency_reason> ] ] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
static	Show MPLS static information
binding	Show static label bindings
ipv4	Show ipv4 static label bindings
ipv6	Show ipv6 static label bindings
all	Show all static label bindings
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
local	(Optional) Incoming (local) static label bindings
remote	(Optional) Outgoing (remote) static label bindings
inconsistency	(Optional) Inconsistent bindings between config and URIB
<i>prefix</i>	(Optional) Destination ipv4 prefix
<i>mask</i>	(Optional) Destination ipv4 prefix mask
<i>mask-length</i>	(Optional) Ipv4 mask length
<i>prefix-mask</i>	(Optional) Destination prefix/mask
nexthop	(Optional) Ipv4 next hop address
<i>addr</i>	(Optional) Ipv4 Next hop address
ipv6-nexthop	(Optional) Ipv6 next hop address
lsp	(Optional) LSP Name
__readonly__	(Optional) Read Only

TABLE_slb	(Optional) Show static label bindings for a given prefix
<i>slb_name</i>	(Optional) Name
<i>slb_prefix</i>	(Optional) Prefix
<i>slb_type</i>	(Optional) SLB Type
<i>slb_mask</i>	(Optional) Mask bits
<i>slb_vrf</i>	(Optional) VRF name for prefix
<i>slb_inlabel</i>	(Optional) Incoming label for prefix
TABLE_slb_outlbl_list	(Optional) Show static outgoing labels for prefix
<i>slb_nhop</i>	(Optional) Next-hop address
<i>slb_nh_path_num</i>	(Optional) Identifier for outgoing nexthop
<i>slb_outlabel</i>	(Optional) Outgoing label for next-hop address
<i>inconsistency_reason</i>	(Optional) Reason for inconsistency

Command Mode

- /exec

show mpls static binding

```
show mpls static binding [ ipv4 ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ <prefix> { <mask> |
<mask-length> } | <prefix-mask> ] [ local | remote ] [ nexthop <addr> ] [ __readonly__ { TABLE_slb [
<slb_prefix> <slb_mask> ] <slb_vrf> <slb_inlabel> [ { TABLE_slb_outlbl_list <slb_nhop> <slb_outlabel>
} } ] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
static	Show MPLS static information
binding	Show static label bindings
ipv4	(Optional) Show ipv4 static label bindings
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>prefix</i>	(Optional) Destination prefix
<i>mask</i>	(Optional) Destination prefix mask
<i>mask-length</i>	(Optional) Mask length
<i>prefix-mask</i>	(Optional) Destination prefix/mask
local	(Optional) Incoming (local) static label bindings
remote	(Optional) Outgoing (remote) static label bindings
nexthop	(Optional) Next hop address
<i>addr</i>	(Optional) Next hop address
__readonly__	(Optional) Read Only
TABLE_slb	(Optional) Show static label bindings for a given prefix
<i>slb_prefix</i>	(Optional) Prefix
<i>slb_mask</i>	(Optional) Mask bits
<i>slb_vrf</i>	(Optional) VRF name for prefix
<i>slb_inlabel</i>	(Optional) Incoming label for prefix
TABLE_slb_outlbl_list	(Optional) Show static outgoing labels for prefix

<i>slb_nhop</i>	(Optional) Next-hop address
<i>slb_outlabel</i>	(Optional) Outgoing label for next-hop address

Command Mode

- /exec

show mpls static binding vrf per-vrf

```
show mpls static binding [ ipv4 ] vrf { <vrf-name> | <vrf-known-name> } per-vrf [ __readonly__ {
TABLE_slb_per_vrf <slb_vrf_per_vrf> <slb_inlabel_per_vrf> } ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
static	Show MPLS static information
binding	Show static label bindings
ipv4	(Optional) Show ipv4 static label bindings
vrf	VRF Routing/Forwarding instance information
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name
per-vrf	per-vrf static label bindings
__readonly__	(Optional) Read Only
TABLE_slb_per_vrf	(Optional) Show static label bindings for per-vrf deaggregation
<i>slb_vrf_per_vrf</i>	(Optional) VRF name
<i>slb_inlabel_per_vrf</i>	(Optional) Incoming label

Command Mode

- /exec

show mpls static trace

show mpls static trace { error | warning | event } [size]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
static	Static Label Bindings
trace	MPLS static trace
error	MPLS static error trace
warning	MPLS static warning trace
event	MPLS static event trace
size	(Optional) trace buffer size in Kbytes

Command Mode

- /exec

show mpls strip labels

```
show mpls strip labels [ all | static | dynamic | <label_val> ] [ __readonly__ <disp_summary> TABLE_labels
<disp_label> <disp_age> <disp_interface> <disp_pkt_cnt> <disp_stats> <disp_static> ]
```

Syntax Description

show	Show running system information
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
labels	labels added in the system
all	(Optional) all labels [default]
static	(Optional) labels programmed using cli
dynamic	(Optional) dynamically learned
<i>label_val</i>	(Optional) Label to show
<i>__readonly__</i>	(Optional) Read Only
TABLE_labels	(Optional) MPLS Strip Labels Tables
<i>disp_label</i>	(Optional) Label
<i>disp_age</i>	(Optional) Age
<i>disp_interface</i>	(Optional) Interface
<i>disp_pkt_cnt</i>	(Optional) Packet Count
<i>disp_stats</i>	(Optional) Statistics
<i>disp_static</i>	(Optional) Static
<i>disp_summary</i>	(Optional) Summary

Command Mode

- /exec

show mpls switching

```
show mpls switching [ labels <label> [ <max-label> ] | interface <intf> | { <ip-addr> | <ipv4-prefix> } [ vrf
<vrf-name> ] | <ipv6-prefix> [ vrf <vrf-name> ] | aggregate [ ipv4 | ipv6 ] [ vrf <vrf-name> ] | { fec {
ipv4_prefix [ vrf <vrf-name> ] | ipv6_prefix [ vrf <vrf-name> ] | deagg [ vrf <vrf-name> ] | ias_vpnv4 |
ias_vpnv6 } } | { summary } ] [ detail ] [ private ] [ vrf <vrf-name> ] [ __readonly__ [ TABLE_vrf <vrf_name>
[ TABLE_inlabel <in_label> <out_label_stack> + { <ipv4_prefix> | <ipv6_prefix> } ] [ {
<tunnel_v4_mid_source> | <tunnel_v6_mid_source> } <tunnel_id> { <ext_v4_tunnel_id> | <ext_v6_tunnel_id>
} <tunnel_instance> <deagg_vrf> <deagg_af> <tunnel_head> ] <out_interface> { <ipv4_next_hop> |
<ipv6_next_hop> } [ <nhlfe_p2p_flag> ] [ <nhlfe_fir_status> ] [ <nhlfe_stale_flag> ] [ <in_packets> <in_bytes>
] [ [ <out_label> + ] <out_packets> + <out_bytes> + ] [ { <tunnel_v4_mid_dest> | <tunnel_v6_mid_dest> }
{ <ipv4_next_hop> | <ipv6_next_hop> } ] [ <per_ce_table> <per_ce_nh_set_id> ] [ { <ias_v4_prefix> |
<ias_v6_prefix> } <ias_rd> ] [ <fec_none_label> ] [ <table_name> ] ] ] ] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
<i>ip-addr</i>	(Optional) Match destination address
<i>ipv4-prefix</i>	(Optional) Specify an IP prefix/mask
fec	(Optional) Show FEC information in the ULIB
private	(Optional) Show more detailed information in the ULIB
labels	(Optional) Show a specific label-related information
<i>label</i>	(Optional) Low label value
<i>max-label</i>	(Optional) High label value
interface	(Optional) Match outgoing interface
aggregate	(Optional) Show aggregate-related information
<i>intf</i>	(Optional) Specify outgoing interface
summary	(Optional) Summarized information
detail	(Optional) Detailed information
ipv4_prefix	(Optional) IPv4 prefix
ipv6_prefix	(Optional) IPv6 prefix
ipv4	(Optional) Display IPv4 information
ipv6	(Optional) Display IPv6 information

deagg	(Optional) De-aggregation
ias_vpnv4	(Optional) Display Inter-AS V4 information
ias_vpnv6	(Optional) Display Inter-AS V6 information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name (Max Size 32)
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf_name</i>	(Optional)
TABLE_inlabel	(Optional)
<i>in_label</i>	(Optional)
<i>out_label_stack</i>	(Optional)
<i>ipv4_prefix</i>	(Optional)
<i>tunnel_v4_mid_source</i>	(Optional)
<i>tunnel_v4_mid_dest</i>	(Optional)
<i>tunnel_id</i>	(Optional)
<i>ext_v4_tunnel_id</i>	(Optional)
<i>tunnel_instance</i>	(Optional)
<i>tunnel_head</i>	(Optional)
<i>deagg_vrf</i>	(Optional)
<i>deagg_af</i>	(Optional)
<i>out_interface</i>	(Optional)
<i>ipv4_next_hop</i>	(Optional)
<i>ipv6_next_hop</i>	(Optional)
<i>nhlfe_frr_status</i>	(Optional)
<i>nhlfe_stale_flag</i>	(Optional)
<i>nhlfe_p2p_flag</i>	(Optional)
<i>table_name</i>	(Optional)
<i>in_packets</i>	(Optional)
<i>in_bytes</i>	(Optional)

<i>out_label</i>	(Optional)
<i>out_packets</i>	(Optional)
<i>out_bytes</i>	(Optional)
<i>per_ce_table</i>	(Optional)
<i>per_ce_nh_set_id</i>	(Optional)
<i>fec_none_label</i>	(Optional)
<i>ias_v4_prefix</i>	(Optional)
<i>ias_v6_prefix</i>	(Optional)
<i>ias_rd</i>	(Optional)

Command Mode

- /exec

show mpls switching clients

```
show mpls switching clients [ __readonly__ [ TABLE_client <pib-name> <pib-index> <pib-uuid> <pib-sap>
<stale-time> <pib-flag> [ <stale-due> ] <reg-msg> <conv-msg> [ <inv-conv> ] <fec-msg> <fec-add> <ile-add>
<fec-del> <ile-del> <last-xid> <fec-ack> ] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
clients	Display ULIB client components
__readonly__	(Optional)
TABLE_client	(Optional)
<i>pib-name</i>	(Optional) Name of the client(pib)
<i>pib-index</i>	(Optional) PIB Index
<i>pib-uuid</i>	(Optional) PIB UUID
<i>pib-sap</i>	(Optional) MTS SAP for the pib
<i>stale-time</i>	(Optional) Stale time
<i>pib-flag</i>	(Optional) Flags set by the pib
<i>stale-due</i>	(Optional) Stale timer due in
<i>reg-msg</i>	(Optional) Number of Registration Message
<i>conv-msg</i>	(Optional) Number of Converge Message
<i>inv-conv</i>	(Optional) Number of Invalid Convergence message
<i>fec-msg</i>	(Optional) Number of FEC messages
<i>fec-add</i>	(Optional) Number of FEC Add messages
<i>ile-add</i>	(Optional) Number of ILE Add messages
<i>fec-del</i>	(Optional) Number of FEC delete messages
<i>ile-del</i>	(Optional) Number of ILE delete messages
<i>last-xid</i>	(Optional) Last XID
<i>fec-ack</i>	(Optional) Number of FEC Ack messages sent

Command Mode

- /exec

show mpls traffic-eng

```
show mpls traffic-eng { fast-reroute database summary | tunnels fast-reroute summary | tunnels protection
summary } [ __readonly__ [ <frr_num_lsps> <frr_num_active_lsps> <frr_backup_tunnels> <frr_active_intf>
] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
fast-reroute	Fast Reroute information
database	Fast Reroute Database information
summary	Summary information
tunnels	MPLS traffic-eng tunnel status
protection	Failure protection provided for tunnels
summary	Summary information
fast-reroute	Fast Reroute information
summary	Summary information
<i>__readonly__</i>	(Optional)
<i>frr_num_lsps</i>	(Optional) num lsps
<i>frr_num_active_lsps</i>	(Optional) num active lsps
<i>frr_backup_tunnels</i>	(Optional) num backup tunnels
<i>frr_active_intf</i>	(Optional) num active interfaces

Command Mode

- /exec

show mpls traffic-eng

```
show mpls traffic-eng { { fast-reroute database [ destination <dest-addr> ] [ interface <intfc> ] [ backup-interface
{ <tunnel-intf> | unresolved } ] [ role { head | middle } | state { active | ready | requested } ] [ detail ] } | {
tunnels fast-reroute } } [ __readonly__ [ { TABLE_frr_db <protected_tun> [ <sprint_downlink_name>
<sprint_tun_protected_bw> [ <sprint_prot_bw> ] [ <backup_none> | <sprint_tun_backup_name>
<sprint_tun_lsp_frr_out_active> <sprint_tun_frr_protect_level> <sprint_tun_frr_out_nnhop> ] ] } ] }
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
database	Fast Reroute Database information
destination	(Optional) Match LSP destination address
<i>dest-addr</i>	(Optional) Tunnel destination address
interface	(Optional) Match protected outgoing interface
<i>intfc</i>	(Optional)
backup-interface	(Optional) Match backup outgoing interface
<i>tunnel-intf</i>	(Optional) Tunnel interface
unresolved	(Optional) Unresolved backup interface
role	(Optional) Restrict display to LSPs with specified role
head	(Optional) LSPs that originate locally
middle	(Optional) LSPs that transit locally
state	(Optional) Restrict display to LSPs with specified FRR state
active	(Optional) LSPs with active FRR state
ready	(Optional) LSPs with ready FRR state
requested	(Optional) LSPs with requested FRR state
detail	(Optional) Detailed information
tunnels	MPLS traffic-eng tunnel status
fast-reroute	Fast Reroute information
__readonly__	(Optional)
TABLE_frr_db	(Optional) frr_db info

<i>protected_tun</i>	(Optional) protected tunnel
<i>backup_none</i>	(Optional) backup none
<i>sprint_downlink_name</i>	(Optional) sprint downlink name
<i>sprint_tun_protected_bw</i>	(Optional) sprint tun protected bw
<i>sprint_prot_bw</i>	(Optional) sprint protected flag
<i>sprint_tun_backup_name</i>	(Optional) sprint tun backup name
<i>sprint_tun_lsp_frr_out_active</i>	(Optional) sprint tun lsp frr out active
<i>sprint_tun_frr_protect_level</i>	(Optional) sprint tun frr protect level
<i>sprint_tun_frr_out_nnhop</i>	(Optional) sprint tun frr out nnhop

Command Mode

- /exec

show mpls traffic-eng exp

```
show mpls traffic-eng exp [ <ipaddr> ] [ __readonly__ [ TABLE_bundles <exp_bundle_dest>
<exp_bundle_master> <exp_bundle_master_state> [ TABLE_exp_member <exp_bundle_member>
<exp_bundle_member_state> <exp_bundle_member_conf_exp> <exp_bundle_member_actual_exp> ] ] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
exp	MPLS traffic-eng tunnel exp information
<i>ipaddr</i>	(Optional) destination address of the master tunnel (A.B.C.D)
<i>__readonly__</i>	(Optional)
TABLE_bundles	(Optional) Bundle info
<i>exp_bundle_dest</i>	(Optional) Bundle tunnel destination
<i>exp_bundle_master</i>	(Optional) Bundle master tunnel name
<i>exp_bundle_master_state</i>	(Optional) Bundle master tunnel state
TABLE_exp_member	(Optional) Bundle member info
<i>exp_bundle_member</i>	(Optional) Bundle member tunnel name
<i>exp_bundle_member_state</i>	(Optional) Bundle member tunnel state
<i>exp_bundle_member_conf_exp</i>	(Optional) Bundle member tunnel configured exp
<i>exp_bundle_member_actual_exp</i>	(Optional) Bundle member tunnel actual exp

Command Mode

- /exec

show mpls traffic-eng explicit-paths

```
show mpls traffic-eng explicit-paths [ detail | identifier <id> [ detail ] | name <name> [ detail ] ] [ __readonly__
{ TABLE_explpath <eph_style> <eph_path_id_str> <eph_path_loose_strict> <eph_complete_flag>
<eph_generation> [ <eph_status> ] { TABLE_nxtaddr <eph_idx> <eph_type> <eph_subtype> <eph_addr>
[ <eph_lasthop> ] } } ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
explicit-paths	Show explicit paths
detail	(Optional) Show explicit paths in detail
identifier	(Optional) Show a specific numbered explicit path
<i>id</i>	(Optional) Enter path number
name	(Optional) Show a specific named explicit path
<i>name</i>	(Optional) Enter path name
__readonly__	(Optional)
TABLE_explpath	(Optional) explpath info
<i>eph_style</i>	(Optional) eph style
<i>eph_path_id_str</i>	(Optional) eph path id str
<i>eph_path_loose_strict</i>	(Optional) eph path loose strict
<i>eph_complete_flag</i>	(Optional) eph path complete flag
<i>eph_generation</i>	(Optional) eph generation
<i>eph_status</i>	(Optional) eph status
TABLE_nxtaddr	(Optional) next address
<i>eph_idx</i>	(Optional) eph idx
<i>eph_type</i>	(Optional) eph type
<i>eph_subtype</i>	(Optional) eph subtype
<i>eph_addr</i>	(Optional) eph addr
<i>eph_lasthop</i>	(Optional) eph lasthop

Command Mode

- /exec

show mpls traffic-eng high-availability

```
show mpls traffic-eng high-availability { database [ summary ] | shared-database | sso-database | status } [
  __readonly__ < __dummy_string__ > < __dummy_hex__ > < __dummy_int__ > < __dummy_unsigned__ >
  < __dummy_long_unsigned__ > < __dummy_long_long_unsigned__ > ]
```

Syntax Description

high-availability	MPLS TE HA information
database	MPLS TE checkpoint database
summary	(Optional) Summary counters only
shared-database	MPLS TE shared database
sso-database	MPLS TE SSO read-write databases
status	MPLS TE HA status and events
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
__readonly__	(Optional)
__dummy_string__	(Optional) dummy string
__dummy_hex__	(Optional) dummy hex
__dummy_int__	(Optional) dummy int
__dummy_unsigned__	(Optional) dummy unsigned
__dummy_long_unsigned__	(Optional) dummy long
__dummy_long_long_unsigned__	(Optional) dummy long long

Command Mode

- /exec

<i>tun_name</i>	(Optional) tunnel name
<i>uplink_name</i>	(Optional) uplink name
<i>downlink_name</i>	(Optional) downlink name
<i>priority_string</i>	(Optional) priority string
<i>tun_state</i>	(Optional) tunnel state
<i>bw_kbps</i>	(Optional) bandwidth in KBps
<i>bw_state</i>	(Optional) bandwidth state
<i>bw_kind</i>	(Optional) bandwidth kind
<i>links_count</i>	(Optional) number of links
<i>bw_hold_time</i>	(Optional) bandwidth hold time
<i>flooding_system_status</i>	(Optional) flooding system status
TABLE_flooding	(Optional) flooding info
<i>flooding_igp_area_id</i>	(Optional) flooding IGP area ID
<i>flooding_protocol</i>	(Optional) flooding protocol
<i>flooding_status</i>	(Optional) flooding status
<i>flooding_periodic_status</i>	(Optional) flooding periodic status
<i>flooding_periodic_interval</i>	(Optional) flooding periodic interval
<i>flooding_periodic_remaining</i>	(Optional) flooding periodic remaining
<i>number_of_flooded_links</i>	(Optional) number of flooded links
<i>flooding_igp_system_id</i>	(Optional) flooding IGP system ID
<i>flooding_rtr_ipaddress</i>	(Optional) flooding router address
<i>flooding_neighbor_count</i>	(Optional) flooding neighbor count
TABLE_links	(Optional) table of information for each link
<i>link_name</i>	(Optional) link name
<i>link_ipaddress</i>	(Optional) link IP address
<i>link_is_numbered</i>	(Optional) whether or not the link is numbered
<i>local_intf_id</i>	(Optional) local interface ID
<i>rlp_capability</i>	(Optional) RLP capability
<i>rlp_working_priority</i>	(Optional) RLP working priority

<i>srlg_group_none</i>	(Optional) no SRLG group numbers
TABLE_srlg	(Optional) SRLGs
<i>srlg_group_number</i>	(Optional) SRLG group number
TABLE_ixcd	(Optional) IXCD
<i>link_key</i>	(Optional) link key
<i>intfc_switching_cap</i>	(Optional) interface switching capacity
<i>encoding</i>	(Optional) interface encoding
<i>link_label_type</i>	(Optional) link label type
<i>link_installed</i>	(Optional) is link installed
<i>link_local_label</i>	(Optional) link local label
<i>phys_bw</i>	(Optional) link physical bandwidth
<i>phys_bw_units</i>	(Optional) link physical bandwidth units
<i>model_id</i>	(Optional) model ID (e.g., MAM, RDM)
<i>link_min_flow</i>	(Optional) link min flow
<i>bw_units</i>	(Optional) bandwidth units
<i>max_link_rsvbl_bw</i>	(Optional) link maximum reservable bandwidth
<i>rsvbl_bw_units</i>	(Optional) reservable bandwidth units
<i>rsvd_up</i>	(Optional) reserved up
<i>rsvd_down</i>	(Optional) reserved down
<i>max_global_rsvbl_bw</i>	(Optional) maximum global reservable bandwidth
<i>max_sub_rsvbl_bw</i>	(Optional) maximum subpool reservable bandwidth
<i>bw_descriptors</i>	(Optional) bandwidth descriptors
<i>descriptor_count</i>	(Optional) bandwidth descriptor count
<i>descriptor_kind</i>	(Optional) descriptor kind
<i>link_state</i>	(Optional) link state
<i>admit_method_up</i>	(Optional) admit method up
<i>admit_method_down</i>	(Optional) admit method down
<i>admin_weight</i>	(Optional) admin weight
<i>admin_state</i>	(Optional) admin state

<i>neighbor_interface_info</i>	(Optional) neighbor interface info
<i>interface_name</i>	(Optional) interface name
TABLE_nbr_src	(Optional) neighbor information
<i>neighbor_source</i>	(Optional) neighbor source
TABLE_ami_flags	(Optional) AMI flags
<i>ami_flag_string</i>	(Optional) AMI flag
<i>interface_id</i>	(Optional) interface ID
<i>sw_cap</i>	(Optional) Sw Cap
<i>source_te_id</i>	(Optional) TE ID
<i>source_up_down</i>	(Optional) is the source up or down
<i>source_floodable</i>	(Optional) is the source floodable
<i>source_link_lable_id</i>	(Optional) link table ID
<i>igp_neighbor_count</i>	(Optional) IGP neighbor count
TABLE_igp	(Optional) IGP information
<i>neighbor_id</i>	(Optional) neighbor's name
<i>neighbor_ipaddress</i>	(Optional) neighbor's IP address
<i>neighbor_igp_area_id</i>	(Optional) neighbor's IGP area ID
<i>neighbor_link_name</i>	(Optional) neighbor's link name
<i>neighbor_up_down</i>	(Optional) is neighbor up or down
<i>link_up_thresholds</i>	(Optional) link up thresholds
<i>link_down_thresholds</i>	(Optional) link down thresholds
<i>flooded_areas</i>	(Optional) number of flooded areas
TABLE_dlist	(Optional) table
<i>area_tag</i>	(Optional) area tag
<i>area_id</i>	(Optional) area ID
<i>area_flooding_status</i>	(Optional) area flooding status
<i>area_not_flooded_reason</i>	(Optional) area not-flooded reason
TABLE_up_down	(Optional) up/down information
<i>link_dir_name</i>	(Optional) link dir name

<i>link_dir_bw_kind</i>	(Optional) link dir bandwidth kind
<i>link_dir_bw_units</i>	(Optional) link dir bandwidth units
TABLE_pool	(Optional) information about each pool
<i>link_bw_keep_prio</i>	(Optional) keep priority
<i>link_bw_held</i>	(Optional) bandwidth held
<i>link_bw_total_held</i>	(Optional) total bandwidth held
<i>link_bw_locked</i>	(Optional) bandwidth locked
<i>link_bw_total_locked</i>	(Optional) total bandwidth locked

Command Mode

- /exec

show mpls traffic-eng link-management advertisements

```
show mpls traffic-eng link-management advertisements [ __readonly__ <link_flooding_status>
<configured_areas> { TABLE_areas <area_tag> <area_id> [ <flooding_protocol> <igp_system_id>
<mpls_te_router_ipaddress> <number_of_flooded_links> [ { TABLE_links <link_num> <link_name>
<link_subnet_type> [ <link_ipaddress> ] [ <link_local_interface_id> ] [ <link_designated_router> ] [
<link_neighbor_id> ] [ <link_neighbor_ipaddress> ] [ <link_remote_interface_id> ] [
<link_protection_capabilities> <link_protection_working_prio> ] [ <intfc_sw_cap> <link_encoding> {
TABLE_flsvc <flsvc> <max_lsp_bw> } <min_lsp_bw> [ <interface_mtu> | <sonet_sdh_indication> ] ] [
<link_te_metric> ] [ <link_igp_metric> ] [ { TABLE_srlls <link_srllg_number> } | <link_srllg_none> ] [
<link_bandwidth> <link_bandwidth_units> [ <link_max_res_bandwidth> <link_bandwidth_units> ]
<link_global_bc0_bandwidth> <link_bandwidth_units> [ <link_subpool_bc1_bandwidth>
<link_bandwidth_units> ] [ <link_dir_down> [ { TABLE_down_classes <link_down_te_class>
<link_down_class_bandwidth> <link_down_bandwidth_units> } ] [ { TABLE_down_pools <down_exp_prio>
<link_down_global_pool_bc0_bandwidth> [ <link_down_subpool_bc1_bandwidth> ]
<link_down_pool_bandwidth_units> } <link_affinity_flags> ] ] [ <link_dir_up> [ { TABLE_up_pools
<up_exp_prio> <link_up_global_pool_bc0_bandwidth> [ <link_up_subpool_bc1_bandwidth> ]
<link_up_pool_bandwidth_units> } ] ] } ] ] ] }
```

Syntax Description

link-management	Link Management information
advertisements	Link Management advertisements
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
__readonly__	(Optional)
<i>link_flooding_status</i>	(Optional) link flooding status
<i>configured_areas</i>	(Optional) configured areas
<i>area_tag</i>	(Optional) area tag
TABLE_areas	(Optional) area info
<i>area_id</i>	(Optional) area ID
<i>flooding_protocol</i>	(Optional) flooding protocol
<i>igp_system_id</i>	(Optional) IGP system ID
<i>mpls_te_router_ipaddress</i>	(Optional) MPLS-TE router IP address
<i>number_of_flooded_links</i>	(Optional) number of flooded links
TABLE_links	(Optional) link info
<i>link_num</i>	(Optional) link number

<i>link_name</i>	(Optional) link name
<i>link_subnet_type</i>	(Optional) link subnet type
<i>link_ipaddress</i>	(Optional) link IP address
<i>link_local_interface_id</i>	(Optional) link local interface ID
<i>link_designated_router</i>	(Optional) link designated router
<i>link_neighbor_id</i>	(Optional) link neighbor ID
<i>link_neighbor_ipaddress</i>	(Optional) link neighbor IP address
<i>link_remote_interface_id</i>	(Optional) link remote interface ID
<i>link_protection_capabilities</i>	(Optional) link protection capabilities
<i>link_protection_working_prio</i>	(Optional) link protection working priority
<i>intfc_sw_cap</i>	(Optional) intfc switching cap
<i>link_encoding</i>	(Optional) link encoding
<i>flsvc</i>	(Optional) flsvc
TABLE_flsvc	(Optional) flsvc info
<i>max_lsp_bw</i>	(Optional) maximum LSP bandwidth
<i>min_lsp_bw</i>	(Optional) minimum LSP bandwidth
<i>interface_mtu</i>	(Optional) interface MTU
<i>sonet_sdh_indication</i>	(Optional) SONET/SDH indication
<i>link_te_metric</i>	(Optional) link TE metric
<i>link_igp_metric</i>	(Optional) link IGP metric
<i>link_srlg_number</i>	(Optional) link SRLG number
TABLE_srlgs	(Optional) SRLG info
<i>link_srlg_none</i>	(Optional) link SRLG -- none
<i>link_bandwidth</i>	(Optional) link bandwidth
<i>link_bandwidth_units</i>	(Optional) link bandwidth units
<i>link_max_res_bandwidth</i>	(Optional) link max res bandwidth
<i>link_global_bc0_bandwidth</i>	(Optional) link global bc0 bandwidth
<i>link_subpool_bc1_bandwidth</i>	(Optional) link subpool bc1 bandwidth
<i>link_dir_down</i>	(Optional) link direction down

<code>TABLE_down_classes</code>	(Optional) direction down class info
<code>link_down_te_class</code>	(Optional) link down TE class
<code>link_down_class_bandwidth</code>	(Optional) link down class bandwidth
<code>link_down_bandwidth_units</code>	(Optional) link down bandwidth units
<code>link_dir_up</code>	(Optional) link direction up
<code>TABLE_up_pools</code>	(Optional) direction up pool info
<code>up_exp_prio</code>	(Optional) up export priority
<code>link_up_global_pool_bc0_bandwidth</code>	(Optional) link up global pool bandwidth
<code>link_up_subpool_bc1_bandwidth</code>	(Optional) link up subpool bandwidth
<code>link_up_pool_bandwidth_units</code>	(Optional) link up pool bandwidth units
<code>TABLE_down_pools</code>	(Optional) direction down pool info
<code>down_exp_prio</code>	(Optional) down export priority
<code>link_down_global_pool_bc0_bandwidth</code>	(Optional) link down global pool bandwidth
<code>link_down_subpool_bc1_bandwidth</code>	(Optional) link down subpool bandwidth
<code>link_down_pool_bandwidth_units</code>	(Optional) link down pool bandwidth units
<code>link_affinity_flags</code>	(Optional) link affinity flags

Command Mode

- /exec

<i>flooding_protocol</i>	(Optional) flooding protocol
<i>flooding_status</i>	(Optional) flooding status
<i>flooding_periodic_status</i>	(Optional) flooding periodic status
<i>flooding_periodic_interval</i>	(Optional) flooding periodic interval
<i>number_of_flooded_links</i>	(Optional) number of flooded links
<i>flooding_igp_system_id</i>	(Optional) flooding IGP system ID
<i>flooding_rtr_ipaddress</i>	(Optional) flooding router address
<i>flooding_neighbor_count</i>	(Optional) flooding neighbor count
TABLE_links	(Optional) table of information for each link
<i>link_name</i>	(Optional) link name
<i>link_ipaddress</i>	(Optional) link IP address
<i>link_is_numbered</i>	(Optional) whether or not the link is numbered
<i>local_intf_id</i>	(Optional) local interface ID
<i>rlp_capability</i>	(Optional) RLP capability
<i>rlp_working_priority</i>	(Optional) RLP working priority
<i>srlg_group_none</i>	(Optional) no SRLG group numbers
TABLE_srlg	(Optional) SRLGs
<i>srlg_group_number</i>	(Optional) SRLG group number
TABLE_ixcd	(Optional) IXCD
<i>link_key</i>	(Optional) link key
<i>intfc_switching_cap</i>	(Optional) interface switching capacity
<i>encoding</i>	(Optional) interface encoding
<i>link_label_type</i>	(Optional) link label type
<i>link_installed</i>	(Optional) is link installed
<i>link_local_label</i>	(Optional) link local label
<i>phys_bw</i>	(Optional) link physical bandwidth
<i>phys_bw_units</i>	(Optional) link physical bandwidth units
<i>model_id</i>	(Optional) model ID (e.g., MAM, RDM)
<i>link_min_flow</i>	(Optional) link min flow

<i>bw_units</i>	(Optional) bandwidth units
<i>max_link_rsvbl_bw</i>	(Optional) link maximum reservable bandwidth
<i>rsvbl_bw_units</i>	(Optional) reservable bandwidth units
<i>rsvd_up</i>	(Optional) reserved up
<i>rsvd_down</i>	(Optional) reserved down
<i>link_max_res_bandwidth</i>	(Optional) link max res bandwidth
<i>max_global_rsvbl_bw</i>	(Optional) maximum global reservable bandwidth
<i>link_subpool_bc1_bandwidth</i>	(Optional) link subpool bc1 res bandwidth
<i>max_sub_rsvbl_bw</i>	(Optional) maximum subpool reservable bandwidth
<i>bw_descriptors</i>	(Optional) bandwidth descriptors
<i>descriptor_count</i>	(Optional) bandwidth descriptor count
<i>descriptor_kind</i>	(Optional) descriptor kind
<i>link_state</i>	(Optional) link state
<i>admit_method_up</i>	(Optional) admit method up
<i>admit_method_down</i>	(Optional) admit method down
<i>admin_weight</i>	(Optional) admin weight
<i>admin_state</i>	(Optional) admin state
<i>neighbor_interface_info</i>	(Optional) neighbor interface info
<i>interface_name</i>	(Optional) interface name
TABLE_nbr_src	(Optional) neighbor information
<i>neighbor_source</i>	(Optional) neighbor source
TABLE_ami_flags	(Optional) AMI flags
<i>ami_flag_string</i>	(Optional) AMI flag
<i>interface_id</i>	(Optional) interface ID
<i>sw_cap</i>	(Optional) Sw Cap
<i>source_te_id</i>	(Optional) TE ID
<i>source_up_down</i>	(Optional) is the source up or down
<i>source_floodable</i>	(Optional) is the source floodable
<i>source_link_lable_id</i>	(Optional) link table ID

<i>igp_neighbor_count</i>	(Optional) IGP neighbor count
TABLE_igp	(Optional) IGP information
<i>neighbor_id</i>	(Optional) neighbor's name
<i>neighbor_ipaddress</i>	(Optional) neighbor's IP address
<i>neighbor_igp_area_id</i>	(Optional) neighbor's IGP area ID
<i>neighbor_link_name</i>	(Optional) neighbor's link name
<i>neighbor_up_down</i>	(Optional) is neighbor up or down
<i>link_up_thresholds</i>	(Optional) link up thresholds
<i>link_down_thresholds</i>	(Optional) link down thresholds
<i>flooded_areas</i>	(Optional) number of flooded areas
TABLE_dlist	(Optional) table
<i>area_tag</i>	(Optional) area tag
<i>area_id</i>	(Optional) area ID
<i>area_flooding_status</i>	(Optional) area flooding status
<i>area_not_flooded_reason</i>	(Optional) area not-flooded reason
TABLE_up_down	(Optional) up/down information
<i>link_dir_name</i>	(Optional) link dir name
<i>link_dir_bw_kind</i>	(Optional) link dir bandwidth kind
<i>link_dir_bw_units</i>	(Optional) link dir bandwidth units
TABLE_pool	(Optional) information about each pool
<i>link_bw_keep_prio</i>	(Optional) keep priority
<i>link_bw_held</i>	(Optional) bandwidth held
<i>link_bw_total_held</i>	(Optional) total bandwidth held
<i>link_bw_locked</i>	(Optional) bandwidth locked
<i>link_bw_total_locked</i>	(Optional) total bandwidth locked
<i>link_global_bc0_bandwidth</i>	(Optional) link global bc0 bandwidth

Command Mode

- /exec

show mpls traffic-eng link-management igp-neighbors ip

```
show mpls traffic-eng link-management igp-neighbors ip <ipaddr> [ __readonly__
<neighbor_ippeer_hdr_ipaddress> [ TABLE_nbr <neighbor_ippeer_id> <neighbor_ippeer_igp_area_id>
<neighbor_ippeer_link_name> ] ]
```

Syntax Description

link-management	Link Management information
igp-neighbors	Link Management igp-neighbors
ip	Show neighbors with matching link IP address
<i>ipaddr</i>	neighbor's IP address (A.B.C.D)
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
<i>__readonly__</i>	(Optional)
<i>neighbor_ippeer_hdr_ipaddress</i>	(Optional) header neighbor ip address
TABLE_nbr	(Optional) list of neighbors
<i>neighbor_ippeer_id</i>	(Optional) neighbor ID
<i>neighbor_ippeer_igp_area_id</i>	(Optional) neighbor's IGP area ID
<i>neighbor_ippeer_link_name</i>	(Optional) neighbor link's name

Command Mode

- /exec

show mpls traffic-eng link-management igp-neighbors igp-id isis

```
show mpls traffic-eng link-management igp-neighbors igp-id { isis <isis-id> | ospf <ospf-ipaddr> } [
__readonly__ <hdr_neighbor_id> [ TABLE_nbr [ <igppeer_neighbor_id> ] <igppeer_neighbor_ipaddress>
[ <igppeer_neighbor_igp_area_id> ] [ <igppeer_neighbor_link_name> ] ] ]
```

Syntax Description

link-management	Link Management information
igp-neighbors	Link Management igp-neighbors
igp-id	Link Management igp-neighbors by IGP ID
isis	Show neighbors with matching ISIS node ID
<i>isis-id</i>	neighbor's ISIS ID in XX.XXXX.XXX.XX form
ospf	Show neighbors with matching OSPF node ID
<i>ospf-ipaddr</i>	neighbor's OSPF ID (A.B.C.D)
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
<i>__readonly__</i>	(Optional)
<i>hdr_neighbor_id</i>	(Optional) header neighbor id
TABLE_nbr	(Optional) list of neighbors
<i>igppeer_neighbor_id</i>	(Optional) neighbor's name
<i>igppeer_neighbor_igp_area_id</i>	(Optional) neighbor's IGP area ID
<i>igppeer_neighbor_ipaddress</i>	(Optional) neighbor ip address
<i>igppeer_neighbor_link_name</i>	(Optional) neighbor link's name

Command Mode

- /exec

show mpls traffic-eng link-management statistics

```
show mpls traffic-eng link-management statistics [ <intfc> ] [ __readonly__ [
<lsp_path_adm_ctr_setup_requests> <lsp_path_adm_ctr_setup_admits> <lsp_path_adm_ctr_setup_rejects>
<lsp_path_adm_ctr_setup_errors> <lsp_path_adm_ctr_tear_requests> <lsp_path_adm_ctr_tear_preempts>
<lsp_path_adm_ctr_tear_errors> <lsp_resv_adm_ctr_setup_requests> <lsp_resv_adm_ctr_setup_admits>
<lsp_resv_adm_ctr_setup_rejects> <lsp_resv_adm_ctr_setup_errors> <lsp_resv_adm_ctr_tear_requests>
<lsp_resv_adm_ctr_tear_preempts> <lsp_resv_adm_ctr_tear_errors> [ TABLE_links <link_name> [
<link_ipaddress> ] <up_path_ctr_setup_requests> <up_path_ctr_setup_admits> <up_path_ctr_setup_rejects>
<up_path_ctr_setup_errors> <up_path_ctr_tear_requests> <up_path_ctr_tear_preempts>
<up_path_ctr_tear_errors> <up_resv_ctr_setup_requests> <up_resv_ctr_setup_admits>
<up_resv_ctr_setup_rejects> <up_resv_ctr_setup_errors> <up_resv_ctr_tear_requests>
<up_resv_ctr_tear_preempts> <up_resv_ctr_tear_errors> <down_path_ctr_setup_requests>
<down_path_ctr_setup_admits> <down_path_ctr_setup_rejects> <down_path_ctr_setup_errors>
<down_path_ctr_tear_requests> <down_path_ctr_tear_preempts> <down_path_ctr_tear_errors>
<down_resv_ctr_setup_requests> <down_resv_ctr_setup_admits> <down_resv_ctr_setup_rejects>
<down_resv_ctr_setup_errors> <down_resv_ctr_tear_requests> <down_resv_ctr_tear_preempts>
<down_resv_ctr_tear_errors> ] [ <igp_mem_stats_rims_name> <igp_mem_stats_rims_allocs>
<igp_mem_stats_rims_frees> <igp_mem_stats_rims_locks> <igp_mem_stats_rims_unlocks> ] ] ]
```

Syntax Description

link-management	Link Management information
statistics	Link Management Traffic Engineering statistics
<i>intfc</i>	(Optional)
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
<i>__readonly__</i>	(Optional)
<i>lsp_path_adm_ctr_setup_requests</i>	(Optional) setup requests
<i>lsp_path_adm_ctr_setup_admits</i>	(Optional) setup admits
<i>lsp_path_adm_ctr_setup_rejects</i>	(Optional) setup rejects
<i>lsp_path_adm_ctr_setup_errors</i>	(Optional) setup errors
<i>lsp_path_adm_ctr_tear_requests</i>	(Optional) tear requests
<i>lsp_path_adm_ctr_tear_preempts</i>	(Optional) tear preempts
<i>lsp_path_adm_ctr_tear_errors</i>	(Optional) tear errors
<i>lsp_resv_adm_ctr_setup_requests</i>	(Optional) setup requests
<i>lsp_resv_adm_ctr_setup_admits</i>	(Optional) setup admits

<i>lsp_resv_adm_ctr_setup_rejects</i>	(Optional) setup rejects
<i>lsp_resv_adm_ctr_setup_errors</i>	(Optional) setup errors
<i>lsp_resv_adm_ctr_tear_requests</i>	(Optional) tear requests
<i>lsp_resv_adm_ctr_tear_preempts</i>	(Optional) tear preempts
<i>lsp_resv_adm_ctr_tear_errors</i>	(Optional) tear errors
TABLE_links	(Optional) table of information for each link
<i>link_name</i>	(Optional) link name
<i>link_ipaddress</i>	(Optional) link IP address
<i>up_path_ctr_setup_requests</i>	(Optional) setup requests
<i>up_path_ctr_setup_admits</i>	(Optional) setup admits
<i>up_path_ctr_setup_rejects</i>	(Optional) setup rejects
<i>up_path_ctr_setup_errors</i>	(Optional) setup errors
<i>up_path_ctr_tear_requests</i>	(Optional) tear requests
<i>up_path_ctr_tear_preempts</i>	(Optional) tear preempts
<i>up_path_ctr_tear_errors</i>	(Optional) tear errors
<i>up_resv_ctr_setup_requests</i>	(Optional) setup requests
<i>up_resv_ctr_setup_admits</i>	(Optional) setup admits
<i>up_resv_ctr_setup_rejects</i>	(Optional) setup rejects
<i>up_resv_ctr_setup_errors</i>	(Optional) setup errors
<i>up_resv_ctr_tear_requests</i>	(Optional) tear requests
<i>up_resv_ctr_tear_preempts</i>	(Optional) tear preempts
<i>up_resv_ctr_tear_errors</i>	(Optional) tear errors
<i>down_path_ctr_setup_requests</i>	(Optional) setup requests
<i>down_path_ctr_setup_admits</i>	(Optional) setup admits
<i>down_path_ctr_setup_rejects</i>	(Optional) setup rejects
<i>down_path_ctr_setup_errors</i>	(Optional) setup errors
<i>down_path_ctr_tear_requests</i>	(Optional) tear requests
<i>down_path_ctr_tear_preempts</i>	(Optional) tear preempts
<i>down_path_ctr_tear_errors</i>	(Optional) tear errors

<i>down_resv_ctr_setup_requests</i>	(Optional) setup requests
<i>down_resv_ctr_setup_admits</i>	(Optional) setup admits
<i>down_resv_ctr_setup_rejects</i>	(Optional) setup rejects
<i>down_resv_ctr_setup_errors</i>	(Optional) setup errors
<i>down_resv_ctr_tear_requests</i>	(Optional) tear requests
<i>down_resv_ctr_tear_preempts</i>	(Optional) tear preempts
<i>down_resv_ctr_tear_errors</i>	(Optional) tear errors
<i>igp_mem_stats_rims_name</i>	(Optional) IGP mem stats RIMS name
<i>igp_mem_stats_rims_allocs</i>	(Optional) IGP mem stats RIMS allocs
<i>igp_mem_stats_rims_frees</i>	(Optional) IGP mem stats RIMS frees
<i>igp_mem_stats_rims_locks</i>	(Optional) IGP mem stats RIMS locks
<i>igp_mem_stats_rims_unlocks</i>	(Optional) IGP mem stats RIMS unlocks

Command Mode

- /exec

show mpls traffic-eng lsp attributes

```
show mpls traffic-eng lsp attributes [ name <attr-list> ] [ __readonly__ [ <lsp_id_count> <lsp_list_count> ]
{ TABLE_lspattr [ <lsp_name> <lsp_id_name> ] [ <lsp_sd_command> ] [ <lsp_aff_command> ] [
<lsp_abw_command> ] [ <lsp_bw_command> ] [ <lsp_frr_command> ] [ <lsp_ld_command> ] [
<lsp_prio_command> ] [ <lsp_rec_rte_command> ] } ] ]
```

Syntax Description

lsp	Show LSP information
attributes	Show LSP attribute lists
name	(Optional) Show a specific named attribute list
<i>attr-list</i>	(Optional) Enter list name
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
<i>__readonly__</i>	(Optional)
<i>lsp_id_count</i>	(Optional) lsp id count
<i>lsp_list_count</i>	(Optional) lsp list count
TABLE_lspattr	(Optional) lspattr info
<i>lsp_name</i>	(Optional) lsp name
<i>lsp_id_name</i>	(Optional) lsp id name
<i>lsp_sd_command</i>	(Optional) lsp sd command
<i>lsp_aff_command</i>	(Optional) lsp aff command
<i>lsp_abw_command</i>	(Optional) lsp abw command
<i>lsp_bw_command</i>	(Optional) lsp bw command
<i>lsp_frr_command</i>	(Optional) lsp fir command
<i>lsp_ld_command</i>	(Optional) lsp ld command
<i>lsp_prio_command</i>	(Optional) lsp prio command
<i>lsp_rec_rte_command</i>	(Optional) lsp rec rte command

Command Mode

- /exec

show mpls traffic-eng topology

```
show mpls traffic-eng topology [ { { <ipaddr> [ ibrief ] } | area <area-id> | level-1 | level-2 | brief | igp-id {
isis <isis-id> | ospf <ospf-ipaddr> [ { network | router | brief } ] } } ] [ __readonly__ [ TABLE_areas
<hdr_pcalc_system_id> <hdr_pcalc_area_id> ] [ <hdr_pcalc_maxage> ] [ <hdr_pcalc_generation> ] [
<hdr_pcalc_dste_mode> ] [ TABLE_nodes <pcalc_node_system_id> [ [ <pcalc_node_router_id> ]
<pcalc_node_type> <pcalc_node_valid_for_spf> <pcalc_node_area_id> [ <pcalc_node_node_id> ] [
TABLE_mg_list <pcalc_mg_id> [ <pcalc_dest_addr> ] ] [ TABLE_links <pcalc_link_index>
<pcalc_subnet_type> <pcalc_dr> <pcalc_system_id> <pcalc_node_id> <pcalc_generation> [ <pcalc_frag_id>
] [ <pcalc_ip_addr> ] [ <pcalc_if_id> ] [ <pcalc_nbr_ip_addr> ] [ <pcalc_nbr_if_id> ] [ <pcalc_te_metric>
] [ <pcalc_igp_metric> ] [ <pcalc_affinity> ] [ TABLE_srlgs <pcalc_srlg_number> ] [ <pcalc_switch_cap>
<pcalc_encode> ] [ <pcalc_bw> ] [ <pcalc_dste_mode> ] [ TABLE_pcalc_migr <pcalc_migration_mode>
<pcalc_migration_bw> ] [ <pcalc_lsp_bw> ] [ TABLE_prios <pcalc_pri> <pcalc_lsp_bw_alloc>
<pcalc_lsp_bw_avail> ] [ TABLE_inprogress <pcalc_in_progress_pri> <pcalc_in_progress_bw>
<pcalc_in_progress_sub_bw> ] ] ] ] ]
```

Syntax Description

topology	Show topology commands
<i>ipaddr</i>	(Optional) Show topology based on router-id or interface ip address (A.B.C.D)
area	(Optional) restrict output to an OSPF area
<i>area-id</i>	(Optional) OSPF area ID as a decimal value
level-1	(Optional) restrict output to an IS-IS level-1
level-2	(Optional) restrict output to an IS-IS level-2
ibrief	(Optional) Use brief format
brief	(Optional) Use brief format
igp-id	(Optional) Show topology based on igp-id
isis	(Optional) Show topology based on isis igp-id
<i>isis-id</i>	(Optional) ISIS ID in XX.XXXX.XXX.XX form
ospf	(Optional) Show traffic-eng topology based on ospf igp-id
<i>ospf-ipaddr</i>	(Optional) igp ipaddr Id (A.B.C.D)
network	(Optional) node type is network
router	(Optional) node type is router
brief	(Optional) Use brief format
show	Show running system information
mpls	Display MPLS status and configuration

traffic-eng	Traffic engineering information
<i>__readonly__</i>	(Optional)
TABLE_areas	(Optional) areas info
<i>hdr_pcalc_system_id</i>	(Optional) pcalc system id
<i>hdr_pcalc_area_id</i>	(Optional) pcalc area id
<i>hdr_pcalc_maxage</i>	(Optional) pcalc maxage
<i>hdr_pcalc_generation</i>	(Optional) pcalc generation
<i>hdr_pcalc_dste_mode</i>	(Optional) pcalc dste mode
TABLE_nodes	(Optional) nodes info
<i>pcalc_node_system_id</i>	(Optional) pcalc system id
<i>pcalc_node_router_id</i>	(Optional) pcalc router id
<i>pcalc_node_type</i>	(Optional) pcalc node type
<i>pcalc_node_valid_for_spf</i>	(Optional) pcalc valid for spf
<i>pcalc_node_area_id</i>	(Optional) pcalc area id
<i>pcalc_node_node_id</i>	(Optional) pcalc node id
TABLE_mg_list	(Optional) mg_list info
<i>pcalc_mg_id</i>	(Optional) pcalc mg id
<i>pcalc_dest_addr</i>	(Optional) pcalc dest addr
TABLE_links	(Optional) links info
<i>pcalc_link_index</i>	(Optional) pcalc link index
<i>pcalc_subnet_type</i>	(Optional) pcalc subnet type
<i>pcalc_dr</i>	(Optional) pcalc dr
<i>pcalc_system_id</i>	(Optional) pcalc system id
<i>pcalc_node_id</i>	(Optional) pcalc node id
<i>pcalc_generation</i>	(Optional) pcalc generation
<i>pcalc_frag_id</i>	(Optional) pcalc frag id
<i>pcalc_ip_addr</i>	(Optional) pcalc ip addr
<i>pcalc_if_id</i>	(Optional) pcalc if id
<i>pcalc_nbr_ip_addr</i>	(Optional) pcalc nbr ip addr

<i>pcalc_nbr_if_id</i>	(Optional) pcalc nbr if id
<i>pcalc_te_metric</i>	(Optional) pcalc TE metric
<i>pcalc_igp_metric</i>	(Optional) pcalc IGP metric
<i>pcalc_affinity</i>	(Optional) pcalc affinity
TABLE_srlgs	(Optional) srlgs info
<i>pcalc_srlg_number</i>	(Optional) pcalc srlg number
<i>pcalc_switch_cap</i>	(Optional) pcalc switch cap
<i>pcalc_encode</i>	(Optional) pcalc encode
<i>pcalc_bw</i>	(Optional) pcalc bw
<i>pcalc_dste_mode</i>	(Optional) pcalc dste mode
TABLE_pcalc_migr	(Optional) pcalc migration info
<i>pcalc_migration_mode</i>	(Optional) pcalc migration mode
<i>pcalc_migration_bw</i>	(Optional) pcalc migration bw
<i>pcalc_lsp_bw</i>	(Optional) pcalc lsp bw
TABLE_prios	(Optional) prios info
<i>pcalc_pri</i>	(Optional) pcalc pri
<i>pcalc_lsp_bw_alloc</i>	(Optional) pcalc lsp bw alloc
<i>pcalc_lsp_bw_avail</i>	(Optional) pcalc lsp bw avail
TABLE_inprogress	(Optional) in progress info
<i>pcalc_in_progress_pri</i>	(Optional) pcalc in progress priority
<i>pcalc_in_progress_bw</i>	(Optional) pcalc in progress bw
<i>pcalc_in_progress_sub_bw</i>	(Optional) pcalc in progress sub bw

Command Mode

- /exec

show mpls traffic-eng topology path

```
show mpls traffic-eng topology path { <tunnel-intf> [ destination <ipaddr> ] | destination <ipaddr> } [
bandwidth <kbps> | { priority <take-priority> [ <keep-priority> ] } | { affinity <affinity-value> [ mask
<mask-value> ] } ] + [ __readonly__ <path_dest_ipaddr> <path_bw> <path_setup_pri> <path_hold_pri>
<path_affinity_value> <path_affinity_mask> [ <path_match> <path_dest_ipaddr> ] [ <path_min_bw> ] [
<path_max_bw> ] [ TABLE_hops <path_n_hop> [ <path_hop_link_id> ] [ <path_hop_affinity_value> ] [
<path_hop_available_bw> ] [ <path_hop_dest_ipaddr> ] ] ]
```

Syntax Description

topology	Show topology commands
path	MPLS traffic-eng path information
<i>tunnel-intf</i>	Tunnel interface
destination	(Optional) Specify LSP destination address
<i>ipaddr</i>	(Optional) destination address (A.B.C.D)
bandwidth	(Optional) Specify LSP bandwidth
<i>kbps</i>	(Optional) bandwidth in kbps
priority	(Optional) Specify LSP priority
<i>take-priority</i>	(Optional) setup (take) priority
<i>keep-priority</i>	(Optional) hold (keep) priority
affinity	(Optional) Specify LSP affinity
<i>affinity-value</i>	(Optional) affinity value
mask	(Optional) Specify LSP affinity mask
<i>mask-value</i>	(Optional) affinity mask value
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
<i>__readonly__</i>	(Optional)
<i>path_dest_ipaddr</i>	(Optional) path dest ipaddr
<i>path_bw</i>	(Optional) path bw
<i>path_setup_pri</i>	(Optional) path setup pri
<i>path_hold_pri</i>	(Optional) path hold pri

<i>path_affinity_value</i>	(Optional) path affinity value
<i>path_affinity_mask</i>	(Optional) path affinity mask
<i>path_match</i>	(Optional) path match
<i>path_min_bw</i>	(Optional) path min bw
<i>path_max_bw</i>	(Optional) path min bw
TABLE_hops	(Optional) hops info
<i>path_n_hop</i>	(Optional) path n hop
<i>path_hop_link_id</i>	(Optional) path hop link id
<i>path_hop_affinity_value</i>	(Optional) path hop affinity value
<i>path_hop_available_bw</i>	(Optional) path hop available bw
<i>path_hop_dest_ipaddr</i>	(Optional) path hop dest ipaddr

Command Mode

- /exec

show mpls traffic-eng tunnels

```

show mpls traffic-eng tunnels { summary | { <tun-intf> } [ brief | statistics | accounting | backup | protection
] | { { [ destination <address> ] [ source-id { <ipaddress> | <tunnel-id> | <ipaddress> <tunnel-id> } ] [ role {
all | head | middle | tail | remote } ] [ { up | down } ] [ suboptimal constraints { none | current | max } ] [ property
{ backup-tunnel | fast-reroute } ] [ frstate { ready | active } ] [ name <string> | name-regex <regex-string>
] [ interface { in <in-intf> | out <out-intf> | <phys-intf> | backup <bkup-intf> } ] [ attributes <attr-string> ] }
+ [ brief | statistics [ summary ] | accounting | backup | protection ] } [ __readonly__ [ [ [
<tun_process_signaller_status> ] [ <passive_listener_running> ] [ <rsvp_running> ] [ <forwarding_configured>
] [ <head_vifs> <heads_active> <heads_est> <heads_activated> <heads_deactivated> <recov_attempts>
<recovered> <midpoints> <tails> ] [ <reopt_interval> <reopt_remaining> ] [ <reopt_running> ] [
<fr_promote_interval> <fr_promote_remaining> ] [ <fr_promote_running> ] [ <fr_onehop_est_interval>
<fr_onehop_est_remaining> ] [ <fr_est_scan_running> ] [ <fr_rm_active_est_interval>
<fr_rm_active_est_remaining> ] [ <fr_active_scan_running> ] [ <fr_bu_notinuse_interval>
<fr_bu_notinuse_remaining> ] [ <fr_bu_notinuse_scan_running> ] [ <auto_bw_coll_interval>
<auto_bw_coll_remaining> ] [ <auto_bw_coll_running> ] [ <reeval_interval> <reeval_remaining> ] [
<reeval_running> ] ] [ TABLE_tunnels_brief <tun_brief_name> <tun_brief_dest_ip> [ <tun_brief_uplink>
] [ <tun_brief_downlink> ] <tun_brief_gen_status> <tun_brief_conn_status> ] ] [ TABLE_tunnels_protect [
<prot_tunnel_role> ] <prot_name> <prot_head_name> <prot_gen_status> <prot_conn_status>
<prot_tsp_src_ipaddr> <prot_tsp_dst_ipaddr> <prot_tsp_tun_instances> [ [ <backup_none> ] [
TABLE_fr_backup_db <bu_protected_intfcs> ] [ <bu_num_lsps> <bu_num_active_lsps> ] [
<bu_bw_any_unlimited_inuse> ] [ <bu_bw_any_limit> <bu_bw_any_limited_inuse>
<bu_bw_any_limited_bwp_inuse> ] [ <bu_bw_sub_limit> <bu_bw_sub_limited_inuse> [
<bu_bw_sub_limited_bwp_inuse> ] ] [ <bu_bw_global_limit> <bu_bw_global_limited_inuse> [
<bu_bw_global_limited_bwp_inuse> ] ] ] [ <fr_protection_none> ] [ <no_rsvp_info> ] [ <in_fr_is_active>
<in_orig_intfcs> <in_tun_tag_label> <in_fr_orig_phop> [ <in_intfcs_with_fr> <in_fr_phop> ] ] [
<unprotected> <out_orig_name> <out_tun_tag_label> <out_lsp_orig_phop> [ <nhop_is_tail> ] [
<no_fr_nnhop_info> ] [ <out_fr_orig_nnhop> <out_fr_orig_nnhop_rtr> ] ] [ <fr_active_or_ready>
<fr_backup_lsp_intfcs> <fr_nnhop_or_nhop> <fr_out_backup_intfcs> <lsp_out_intfcs>
<fr_backup_lsp_out_label> <fr_orig_out_intfcs> <fr_orig_out_label> <fr_orig_out_nhop> [
<fr_backup_nnhop> <fr_backup_nnhop_rtr> ] <fr_backup_intfcs> <fr_backup_label> <fr_protected_bw>
<fr_protect_level> <fr_bw_type> ] [ [ TABLE_prot_protection [ <protection_path_status> ] [
<protection_common_links> ] [ <protection_common_nodes> ] [ <protection_p2p_links>
<protection_multiaccess_links> <protection_both_interfaces> <protection_one_interface>
<protection_zero_interfaces> ] [ TABLE_primary_protection <protection_primary_path> ] [
TABLE_protect_protection <protection_protect_path> ] [ <protection_type> <protection Autobw_req>
<protection_bw_kbps> <protection_setup_pri> <protection_hold_pri> <protection_affinity_value>
<protection_affinity_mask> <protection_metric_type> ] [ [ <protection_in_name> ] [ <protection_in_label>
] [ <protection_out_name> ] [ <protection_out_label> ] [ <protection_backup_name> ] [
<protection_backup_label> ] [ <protection_fr_active> ] ] [ <protection_rsvp_lsp_source_addr>
<protection_rsvp_lsp_dest_addr> <protection_rsvp_lsp_dest_port> <protection_rsvp_lsp_source_port>
<protection_rsvp_lsp_local_addr> ] [ { TABLE_ero_in_protection [ <in_protection_rsvp_ero_addr>
<in_protection_rsvp_ero_loose> ] [ <in_protection_rsvp_ero_routerid> <in_protection_rsvp_ero_if_id> } ]
] [ { TABLE_ero_out_protection [ <out_protection_rsvp_ero_addr> <out_protection_rsvp_ero_loose> ] [
<out_protection_rsvp_ero_routerid> <out_protection_rsvp_ero_if_id> ] } ] [ { TABLE_rro_protection [
<protection_rsvp_rro_addr> ] [ <protection_rsvp_rro_protect_avail> ] [ <protection_rsvp_rro_protect_in_use>
] [ <protection_rsvp_rro_bw_protected> ] [ <protection_rsvp_rro_node_protect_avail> ] [
<protection_rsvp_rro_is_node_id> ] [ <protection_rsvp_rro_if_addr> <protection_rsvp_rro_if_id> ] [
<protection_rsvp_rro_label> ] } ] [ [ <protection_rsvp_spec_rate> ] [ <protection_rsvp_spec_burst> ] [
<protection_rsvp_spec_peak> ] ] [ { TABLE_rro_resv_protection [ <resv_protection_rsvp_rro_addr> ] [

```

```

<resv_protection_rsvp_rro_protect_avail> ][ <resv_protection_rsvp_rro_protect_in_use> ][
<resv_protection_rsvp_rro_bw_protected> ][ <resv_protection_rsvp_rro_node_protect_avail> ][
<resv_protection_rsvp_rro_is_node_id> ][ <resv_protection_rsvp_rro_if_addr>
<resv_protection_rsvp_rro_if_id> ][ <resv_protection_rsvp_rro_label> ] } ] [ [ <protection_rsvp_fspec_rate>
] [ <protection_rsvp_fspec_burst> ] [ <protection_rsvp_fspec_peak> ] ] ] ] ] [ TABLE_tunnels [
<vif_head_name> ] [ <lsp_name> ] [ <sprint_tun_name_stats> ] [ <tunnels_shown> ] [ <dest_intf> ] [ [
<lm_tunnel_name_stats> ] [ <tsp_dest_ipaddr_stats> ] [ <vif_head_name_stats> ] [ [ <tsp_cnt_num_tunnels>
] <tsp_cnt_idx_no_path> <tsp_cnt_idx_inval_path> <tsp_cnt_idx_no_iep> <tsp_cnt_idx_pathchg>
<tsp_cnt_idx_loose_reopt> <tsp_cnt_idx_statechg> <tsp_cnt_idx_tun_down> <tsp_cnt_idx_oper_down>
<tsp_cnt_idx_sig_ok> <tsp_cnt_idx_sig_timeout> <tsp_cnt_idx_bad_path> <tsp_cnt_idx_sig_abort>
<tsp_cnt_idx_nobw> <tsp_cnt_idx_noroute> <tsp_cnt_idx_admin> <tsp_cnt_idx_bad> <tsp_cnt_idx_rro_loop>
<tsp_cnt_idx_frr_active> <tsp_cnt_idx_other> [ TABLE_rrr_db <tsp_rrr_db_type> <tsp_rrr_db_in_use>
<tsp_rrr_db_allocated> <tsp_rrr_db_freed> ] [ <he_mgr_tbl_id> ] [ <lm_mgr_tbl_id> ] ] [ <time_passed>
<output_rate> <packet_rate> <normalized> ] ] [ <sprint_tun_name> <tsp_dest_ipaddr> ] [ <lm_tunnel_name>
] [ <gen_status> ] [ <conn_status> ] [ <tsp_setup_valid> ] [ <tsp_setup_status> ] [ TABLE_members [
<member_name> [ TABLE_member_exp [ <member_exp_bits> ] ] [ <member_default_exp_bit> ] ] ] [ [
<current_reopt_in_progress> ] [ <current_delayed_clean> ] [ <current_popt_protect> <current_popt_idx_str>
<current_popt_lockdown> <current_popt_type_str> <current_popt_verbatim> <current_popt_path_id> [
<current_popt_accum_admin_weight> ] [ <current_popt_out_interface_name> [ <current_popt_label_str>
<current_popt_int_prop> ] [ <current_popt_label_raw_value> ] ] ] [ <current_fwd_adj_hold_up_ms_remaining>
] [ <current_reroute_pending> ] [ <current_type> <current_autobw_req> <current_bw_kbps>
<current_setup_pri> <current_hold_pri> <current_affinity_value> <current_affinity_mask>
<current_metric_type> ] [ [ TABLE_prot_current [ <current_path_status> ] [ <current_common_links> ] [
<current_common_nodes> ] [ <current_p2p_links> <current_multiaccess_links> <current_both_interfaces>
<current_one_interface> <current_zero_interfaces> ] [ TABLE_primary_current <current_primary_path> ]
[ TABLE_protect_current <current_protect_path> ] [ <current_type> <current_autobw_req>
<current_bw_kbps> <current_setup_pri> <current_hold_pri> <current_affinity_value> <current_affinity_mask>
<current_metric_type> ] [ [ [ <current_in_name> ] [ <current_in_label> ] [ <current_out_name> ] [
<current_out_label> ] [ <current_backup_name> ] [ <current_backup_label> ] [ <current_frr_active> ] ] [
<current_rsvp_lsp_source_addr> <current_rsvp_lsp_dest_addr> <current_rsvp_lsp_dest_port>
<current_rsvp_lsp_source_port> <current_rsvp_lsp_local_addr> ] [ { TABLE_ero_in_current [
<in_current_rsvp_ero_addr> <in_current_rsvp_ero_loose> ] [ <in_current_rsvp_ero_routerid>
<in_current_rsvp_ero_if_id> ] } ] [ { TABLE_ero_out_current [ <out_current_rsvp_ero_addr>
<out_current_rsvp_ero_loose> ] [ <out_current_rsvp_ero_routerid> <out_current_rsvp_ero_if_id> ] } ] [ {
TABLE_rro_current [ <current_rsvp_rro_addr> ] [ <current_rsvp_rro_protect_avail> ] [
<current_rsvp_rro_protect_in_use> ] [ <current_rsvp_rro_bw_protected> ] [
<current_rsvp_rro_node_protect_avail> ] [ <current_rsvp_rro_is_node_id> ] [ <current_rsvp_rro_if_addr>
<current_rsvp_rro_if_id> ] [ <current_rsvp_rro_label> ] } ] [ [ <current_rsvp_tspec_rate> ] [
<current_rsvp_tspec_burst> ] [ <current_rsvp_tspec_peak> ] ] [ { TABLE_rro_resv_current [
<resv_current_rsvp_rro_addr> ] [ <resv_current_rsvp_rro_protect_avail> ] [
<resv_current_rsvp_rro_protect_in_use> ] [ <resv_current_rsvp_rro_bw_protected> ] [
<resv_current_rsvp_rro_node_protect_avail> ] [ <resv_current_rsvp_rro_is_node_id> ] [
<resv_current_rsvp_rro_if_addr> <resv_current_rsvp_rro_if_id> ] [ <resv_current_rsvp_rro_label> ] } ] [ [
<current_rsvp_fspec_rate> ] [ <current_rsvp_fspec_burst> ] [ <current_rsvp_fspec_peak> ] ] ] ] ] [
<prot_current_popt_protect> <prot_current_popt_idx_str> <prot_current_popt_lockdown>
<prot_current_popt_type_str> <prot_current_popt_verbatim> <prot_current_popt_path_id> [
<prot_current_popt_accum_admin_weight> ] [ <prot_current_popt_out_interface_name> [
<prot_current_popt_label_str> <prot_current_popt_int_prop> ] [ <prot_current_popt_label_raw_value> ] ]
] ] [ TABLE_popts [ [ <popts_reopt_in_progress> ] [ <popts_delayed_clean> ] [ <popts_popt_protect>
<popts_popt_idx_str> <popts_popt_lockdown> <popts_popt_type_str> <popts_popt_verbatim>
<popts_popt_path_id> [ <popts_popt_accum_admin_weight> ] [ <popts_popt_out_interface_name> [

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<popts_popt_label_str> <popts_popt_int_prop> ][ <popts_popt_label_raw_value> ]][
<popts_fwd_adj_hold_up_ms_remaining> ][ <popts_reroute_pending> ][ <popts_type> <popts_autobw_req>
<popts_bw_kbps> <popts_setup_pri> <popts_hold_pri> <popts_affinity_value> <popts_affinity_mask>
<popts_metric_type> ] [ TABLE_prot_popts [ <popts_path_status> ][ <popts_common_links> ][
<popts_common_nodes> ][ <popts_p2p_links> <popts_multiaccess_links> <popts_both_interfaces>
<popts_one_interface> <popts_zero_interfaces> ] [ TABLE_primary_popts <popts_primary_path> ][
TABLE_protect_popts <popts_protect_path> ][ <popts_type> <popts_autobw_req> <popts_bw_kbps>
<popts_setup_pri> <popts_hold_pri> <popts_affinity_value> <popts_affinity_mask> <popts_metric_type>
][ [ [ <popts_in_name> ][ <popts_in_label> ][ <popts_out_name> ][ <popts_out_label> ][
<popts_backup_name> ][ <popts_backup_label> ][ <popts_frr_active> ]][ <popts_rsvp_lsp_source_addr>
<popts_rsvp_lsp_dest_addr> <popts_rsvp_lsp_dest_port> <popts_rsvp_lsp_source_port>
<popts_rsvp_lsp_local_addr> ] [ { TABLE_ero_in_popts [ <in_popts_rsvp_ero_addr>
<in_popts_rsvp_ero_loose> ] [ <in_popts_rsvp_ero_routerid> <in_popts_rsvp_ero_if_id> ] } ] [ {
TABLE_ero_out_popts [ <out_popts_rsvp_ero_addr> <out_popts_rsvp_ero_loose> ] [
<out_popts_rsvp_ero_routerid> <out_popts_rsvp_ero_if_id> ] } ] [ { TABLE_rro_popts [
<popts_rsvp_rro_addr> ] [ <popts_rsvp_rro_protect_avail> ] [ <popts_rsvp_rro_protect_in_use> ] [
<popts_rsvp_rro_bw_protected> ] [ <popts_rsvp_rro_node_protect_avail> ] [ <popts_rsvp_rro_is_node_id>
] [ <popts_rsvp_rro_if_addr> <popts_rsvp_rro_if_id> ] [ <popts_rsvp_rro_label> ] } ] [ [
<popts_rsvp_tspec_rate> ] [ <popts_rsvp_tspec_burst> ] [ <popts_rsvp_tspec_peak> ] ] [ {
TABLE_rro_resv_popts [ <resv_popts_rsvp_rro_addr> ] [ <resv_popts_rsvp_rro_protect_avail> ] [
<resv_popts_rsvp_rro_protect_in_use> ] [ <resv_popts_rsvp_rro_bw_protected> ] [
<resv_popts_rsvp_rro_node_protect_avail> ] [ <resv_popts_rsvp_rro_is_node_id> ] [
<resv_popts_rsvp_rro_if_addr> <resv_popts_rsvp_rro_if_id> ] [ <resv_popts_rsvp_rro_label> ] } ] [ [
<popts_rsvp_fspec_rate> ] [ <popts_rsvp_fspec_burst> ] [ <popts_rsvp_fspec_peak> ] ] ] ] ] [
<prot_popts_popt_protect> <prot_popts_popt_idx_str> <prot_popts_popt_lockdown>
<prot_popts_popt_type_str> <prot_popts_popt_verbatim> <prot_popts_popt_path_id> [
<prot_popts_popt_accum_admin_weight> ] [ <prot_popts_popt_out_interface_name> [
<prot_popts_popt_label_str> <prot_popts_popt_int_prop> ] [ <prot_popts_popt_label_raw_value> ] ] ] ] ] [
<passive_dest_ipaddr> <passive_tunnel_id> <passive_incomplete_properties> <passive_dest_str> ] [
<config_type> <config_autobw_req> <config_bw_kbps> <config_setup_pri> <config_hold_pri>
<config_affinity_value> <config_affinity_mask> <config_metric_type> ] [ <tsp_flg_annnc> ] [
<tsp_active_popt_enbl> ] [ <fa_holdtime> ] [ <tsp_autobw_freq> <tsp_autobw_time_left>
<tsp_autobw_time_max> <tsp_autobw_collect> <tsp_autobw_high_or_req> <tsp_autobw_samp_missed>
<tsp_autobw_samp_collected> ] [ <auto_bw_disabled> ] [ <active_popt_type_str> <active_popt_idx_str>
<active_popt_bw_override_enabled> <active_popt_lockdown_enabled> <active_popt_verbatim_enabled> [
<active_bw> <active_bw_pool> [ <active_autobw> <active_autobw_pool> ] [ <active_cfg_bw>
<active_cfg_bw_pool> ] ] ] [ <passive_sig_name> <passive_sig_setup> <passive_sig_reserve> ] [ [ [
<rsvp_current_in_name> ] [ <rsvp_current_in_label> ] [ <rsvp_current_out_name> ] [ <rsvp_current_out_label>
] [ <rsvp_current_backup_name> ] [ <rsvp_current_backup_label> ] [ <rsvp_current_frr_active> ] ] [
<rsvp_current_rsvp_lsp_source_addr> <rsvp_current_rsvp_lsp_dest_addr> <rsvp_current_rsvp_lsp_dest_port>
<rsvp_current_rsvp_lsp_source_port> <rsvp_current_rsvp_lsp_local_addr> ] [ { TABLE_ero_in_rsvp_current
[ <in_rsvp_current_rsvp_ero_addr> <in_rsvp_current_rsvp_ero_loose> ] [ <in_rsvp_current_rsvp_ero_routerid>
<in_rsvp_current_rsvp_ero_if_id> ] } ] [ { TABLE_ero_out_rsvp_current [ <out_rsvp_current_rsvp_ero_addr>
<out_rsvp_current_rsvp_ero_loose> ] [ <out_rsvp_current_rsvp_ero_routerid>
<out_rsvp_current_rsvp_ero_if_id> ] } ] [ { TABLE_rro_rsvp_current [ <rsvp_current_rsvp_rro_addr> ] [
<rsvp_current_rsvp_rro_protect_avail> ] [ <rsvp_current_rsvp_rro_protect_in_use> ] [
<rsvp_current_rsvp_rro_bw_protected> ] [ <rsvp_current_rsvp_rro_node_protect_avail> ] [
<rsvp_current_rsvp_rro_is_node_id> ] [ <rsvp_current_rsvp_rro_if_addr> <rsvp_current_rsvp_rro_if_id> ]
[ <rsvp_current_rsvp_rro_label> ] } ] [ [ <rsvp_current_rsvp_tspec_rate> ] [ <rsvp_current_rsvp_tspec_burst>
] [ <rsvp_current_rsvp_tspec_peak> ] ] [ { TABLE_rro_resv_rsvp_current [ <resv_rsvp_current_rsvp_rro_addr>
] [ <resv_rsvp_current_rsvp_rro_protect_avail> ] [ <resv_rsvp_current_rsvp_rro_protect_in_use> ] [

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<resv_rsvp_current_rsvp_rro_bw_protected> ][ <resv_rsvp_current_rsvp_rro_node_protect_avail> ][
<resv_rsvp_current_rsvp_rro_is_node_id> ][ <resv_rsvp_current_rsvp_rro_if_addr>
<resv_rsvp_current_rsvp_rro_if_id> ][ <resv_rsvp_current_rsvp_rro_label> ] } ][ [
<rsvp_current_rsvp_fspect_rate> ][ <rsvp_current_rsvp_fspect_burst> ][ <rsvp_current_rsvp_fspect_peak> ]
] ][ [ <spfw_path_info_str> ][ <spfw_pathw_str> ][ <spfw_unknown_str> ][ <spfw_accum_admin_weight>
][ <spfw_metric_type> ][ <spfw_exp_prefix> ][ <spfw_hop_unknown> ][ TABLE_spfw_hoplist <spfw_hop_ipaddr>
[ <spfw_hop_intf> ] ] ][ [ <hist_create_time> ][ <hist_path_change_time> ][ <hist_tun_instances> ][
<hist_uptime> ][ <hist_setup_time> ][ <hist_selection> ][ <hist_perr_loc_current> ][
<hist_perr_desc_current> ][ <hist_uptime_reopt> ][ <hist_setup_time_reopt> ][ <hist_perr_loc_reopt> ][
<hist_perr_desc_reopt> ][ <hist_prev_popt_idx_str> ][ <hist_prev_instance> ][ <hist_prev_unknown> ][
<hist_setup_fail_reason> ][ <hist_perr_loc_prev> ][ <hist_perr_desc_prev> ][ <hist_other_po_idx> ][
<hist_perr_loc_other> ][ <hist_perr_desc_other> ] ] ][ [ <heads_shown> <head_vifs> <mids_shown>
<midpoints> <tails_shown> <tails> ] ]

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Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
tunnels	MPLS traffic-eng tunnel status
summary	Show summary information
<i>tun-intf</i>	Tunnel interface
brief	(Optional) Brief summary of tunnel status and configuration
statistics	(Optional) Tunnel counters and statistics
accounting	(Optional) Tunnel accounting
backup	(Optional) Fast reroute backup protection provided by tunnels
protection	(Optional) Failure protection provided for tunnels
destination	(Optional) Restrict display to tunnels with this destination
<i>address</i>	(Optional) tunnel destination address
source-id	(Optional) Tunnel identifier address/id
<i>ipaddress</i>	(Optional) Source address part of tunnel identifier
<i>tunnel-id</i>	(Optional) Number part of tunnel identifier
role	(Optional) Restrict display to tunnels with specified role
all	(Optional) head, middle, or tail LSP tunnels
head	(Optional) tunnels that originate locally
middle	(Optional) tunnels that transit locally

tail	(Optional) tunnels that terminate locally
remote	(Optional) middle or tail tunnels
up	(Optional) Restrict display to tunnels in up state
down	(Optional) Restrict display to tunnels in down state
suboptimal	(Optional) Restrict display to tunnels using a suboptimal path
constraints	(Optional) Specify constraints for finding best comparison path
none	(Optional) path lookup without any constraints
current	(Optional) path lookup constrained by available resources
max	(Optional) path lookup constrained by network's maximum potential resources
property	(Optional) Restrict display to tunnels with specified property
backup-tunnel	(Optional) Tunnels used as fast reroute
fast-reroute	(Optional) Tunnels protected by fast reroute
frrstate	(Optional) Restrict display to tunnels with specific frr state
ready	(Optional) Tunnels in FRR ready state
active	(Optional) Tunnels in FRR active state
name	(Optional) Restrict display to tunnels with this name
<i>string</i>	(Optional) LSP Tunnel name
name-regexp	(Optional) Restrict display to tunnels matching this name
<i>regexp-string</i>	(Optional) LSP Tunnel name (regular expression)
interface	(Optional) Restrict display to tunnels using a specified interface
in	(Optional) input interface
<i>in-intf</i>	(Optional)
out	(Optional) output interface
<i>out-intf</i>	(Optional)
<i>phys-intf</i>	(Optional)
backup	(Optional) Fast reroute backup protection provided by tunnels
<i>bkup-intf</i>	(Optional)
attributes	(Optional) Restrict display to tunnels using a matching attribute list

<i>attr-string</i>	(Optional) LSP attribute list name (regular expression)
<i>brief</i>	(Optional) Brief summary of tunnel status and configuration
<i>statistics</i>	(Optional) Tunnel counters and statistics
<i>summary</i>	(Optional) Summarize tunnel counters and statistics
<i>accounting</i>	(Optional) Tunnel accounting
<i>protection</i>	(Optional) Failure protection provided for tunnels
<i>__readonly__</i>	(Optional)
<i>tun_process_signaller_status</i>	(Optional) tunnel process signaller status
<i>passive_listener_running</i>	(Optional) is the passive listener running
<i>forwarding_configured</i>	(Optional) is forwarding configured
<i>rsvp_running</i>	(Optional) is RSVP running
<i>head_vifs</i>	(Optional) head VIFs
<i>heads_active</i>	(Optional) number of active heads
<i>heads_est</i>	(Optional) heads est
<i>heads_activated</i>	(Optional) number of heads activated
<i>heads_deactivated</i>	(Optional) number of heads deactivated
<i>recov_attempts</i>	(Optional) number of recovery attempts
<i>recovered</i>	(Optional) number recovered
<i>midpoints</i>	(Optional) number of midpoints
<i>tails</i>	(Optional) number of tails
<i>reopt_interval</i>	(Optional) reopt interval
<i>reopt_remaining</i>	(Optional) reopt remaining
<i>reopt_running</i>	(Optional) reopt is running
<i>frr_promote_interval</i>	(Optional) FRR promote interval
<i>frr_promote_remaining</i>	(Optional) FRR promote remaining
<i>frr_promote_running</i>	(Optional) FRR promote is running
<i>frr_onehop_est_interval</i>	(Optional) FRR one hop est interval
<i>frr_onehop_est_remaining</i>	(Optional) FRR one hop est remaining
<i>frr_est_scan_running</i>	(Optional) FRR est scan is running

<i>frr_rm_active_est_interval</i>	(Optional) FRR rm active est interval
<i>frr_rm_active_est_remaining</i>	(Optional) FRR rm active est remaining
<i>frr_active_scan_running</i>	(Optional) FRR active scan is running
<i>frr_bu_notinuse_interval</i>	(Optional) FRR BU not in use interval
<i>frr_bu_notinuse_remaining</i>	(Optional) FRR BU not in use remaining
<i>frr_bu_notinuse_scan_running</i>	(Optional) FRR BU not in use scan is running
<i>auto_bw_coll_interval</i>	(Optional) auto BW coll interval
<i>auto_bw_coll_remaining</i>	(Optional) auto BW coll remaining
<i>auto_bw_coll_running</i>	(Optional) auto BW coll is running
<i>reeval_interval</i>	(Optional) re-eval interval
<i>reeval_remaining</i>	(Optional) re-eval remaining
<i>reeval_running</i>	(Optional) re-eval is running
TABLE_tunnels_brief	(Optional) tunnels brief
<i>tun_brief_name</i>	(Optional) name
<i>tun_brief_dest_ip</i>	(Optional) destinatin IP address
<i>tun_brief_uplink</i>	(Optional) uplink name
<i>tun_brief_downlink</i>	(Optional) down name
<i>tun_brief_gen_status</i>	(Optional) gen status
<i>tun_brief_conn_status</i>	(Optional) connection status
<i>gen_status</i>	(Optional) gen status
<i>conn_status</i>	(Optional) conn status
<i>tsp_setup_valid</i>	(Optional) tsp setup valid
<i>tsp_setup_status</i>	(Optional) tsp setup status
TABLE_tunnels	(Optional) tunnel information
<i>vif_head_name</i>	(Optional) vif head name
<i>tunnels_shown</i>	(Optional) tunnels shown
<i>lm_tunnel_name</i>	(Optional) tunnel name
<i>dest_intf</i>	(Optional) dest intf
<i>lm_tunnel_name_stats</i>	(Optional) tunnel name

<i>lsp_name</i>	(Optional) lsp name
<i>sprint_tun_name</i>	(Optional) sprint tun name
<i>tsp_dest_ipaddr</i>	(Optional) tsp dest ipaddr
<i>vif_head_name_stats</i>	(Optional) vif head name
<i>sprint_tun_name_stats</i>	(Optional) sprint tun name
<i>tsp_dest_ipaddr_stats</i>	(Optional) tsp dest ipaddr
<i>tsp_cnt_num_tunnels</i>	(Optional) tsp cnt num tunnels
<i>tsp_cnt_idx_no_path</i>	(Optional) tsp cnt idx no path
<i>tsp_cnt_idx_inval_path</i>	(Optional) tsp cnt idx inval path
<i>tsp_cnt_idx_no_iep</i>	(Optional) tsp cnt idx no iep
<i>tsp_cnt_idx_pathchg</i>	(Optional) tsp cnt idx pathchg
<i>tsp_cnt_idx_loose_reopt</i>	(Optional) tsp cnt idx loose reopt
<i>tsp_cnt_idx_statechg</i>	(Optional) tsp cnt idx statechg
<i>tsp_cnt_idx_tun_down</i>	(Optional) tsp cnt idx tun down
<i>tsp_cnt_idx_oper_down</i>	(Optional) tsp cnt idx oper down
<i>tsp_cnt_idx_sig_ok</i>	(Optional) tsp cnt idx sig ok
<i>tsp_cnt_idx_sig_timeout</i>	(Optional) tsp cnt idx sig timeout
<i>tsp_cnt_idx_bad_path</i>	(Optional) tsp cnt idx bad path
<i>tsp_cnt_idx_sig_abort</i>	(Optional) tsp cnt idx sig abort
<i>tsp_cnt_idx_nobw</i>	(Optional) tsp cnt idx nobw
<i>tsp_cnt_idx_noroute</i>	(Optional) tsp cnt idx noroute
<i>tsp_cnt_idx_admin</i>	(Optional) tsp cnt idx admin
<i>tsp_cnt_idx_bad</i>	(Optional) tsp cnt idx bad
<i>tsp_cnt_idx_rrr_loop</i>	(Optional) tsp cnt idx rrr loop
<i>tsp_cnt_idx_frr_active</i>	(Optional) tsp cnt idx frr active
<i>tsp_cnt_idx_other</i>	(Optional) tsp cnt idx other
TABLE_rrr_db	(Optional) rrr_db info
<i>tsp_rrr_db_type</i>	(Optional) tsp rrr db type
<i>tsp_rrr_db_in_use</i>	(Optional) tsp rrr db in use

<i>tsp_rrr_db_allocated</i>	(Optional) tsp rrr db allocated
<i>tsp_rrr_db_freed</i>	(Optional) tsp rrr db freed
<i>he_mgr_tbl_id</i>	(Optional) he mgr tbl id
<i>lm_mgr_tbl_id</i>	(Optional) lm mgr tbl id
<i>time_passed</i>	(Optional) time passed
<i>output_rate</i>	(Optional) output rate
<i>packet_rate</i>	(Optional) packet rate
<i>normalized</i>	(Optional) normalized
TABLE_tunnels_protect	(Optional) tunnels protection
<i>prot_tunnel_role</i>	(Optional) tunnel role
<i>prot_name</i>	(Optional) protect name
<i>prot_head_name</i>	(Optional) head name
<i>prot_gen_status</i>	(Optional) gen status
<i>prot_conn_status</i>	(Optional) conn status
<i>prot_tsp_src_ipaddr</i>	(Optional) tsp src ipaddr
<i>prot_tsp_dst_ipaddr</i>	(Optional) tsp dst ipaddr
<i>prot_tsp_tun_instances</i>	(Optional) tsp tun instances
<i>unprotected</i>	(Optional) unprotected
<i>out_orig_name</i>	(Optional) out orig name
<i>out_tun_tag_label</i>	(Optional) out tun tag label
<i>out_lsp_orig_phop</i>	(Optional) out lsp orig phop
<i>out_frr_orig_nnhop</i>	(Optional) out frr orig nnhop
<i>out_frr_orig_nnhop_rtr</i>	(Optional) out frr orig nnhop rtr
TABLE_frr_backup_db	(Optional) frr_backup_db info
<i>bu_protected_intfcs</i>	(Optional) protected intfcs
<i>bu_num_lsps</i>	(Optional) num lsps
<i>bu_num_active_lsps</i>	(Optional) num active lsps
<i>bu_bw_any_unlimited_inuse</i>	(Optional) bu bw any unlimited inuse
<i>bu_bw_any_limit</i>	(Optional) bu bw any limit

<i>bu_bw_any_limited_inuse</i>	(Optional) bu bw any limited inuse
<i>bu_bw_any_limited_bwp_inuse</i>	(Optional) bu bw any limited bwp inuse
<i>bu_bw_global_limit</i>	(Optional) bu bw global limit
<i>bu_bw_global_limited_inuse</i>	(Optional) bu bw global limited inuse
<i>bu_bw_global_limited_bwp_inuse</i>	(Optional) bu bw global limited bwp inuse
<i>bu_bw_sub_limit</i>	(Optional) bu bw sub limit
<i>bu_bw_sub_limited_inuse</i>	(Optional) bu bw sub limited inuse
<i>bu_bw_sub_limited_bwp_inuse</i>	(Optional) bu bw sub limited bwp inuse
<i>backup_none</i>	(Optional) backup none
<i>frr_protection_none</i>	(Optional) frr protection none
<i>no_rsvp_info</i>	(Optional) no rsvp info
<i>in_frr_is_active</i>	(Optional) in frr is active
<i>in_orig_intf</i>	(Optional) in orig intf
<i>in_tun_tag_label</i>	(Optional) in tun tag label
<i>in_frr_orig_phop</i>	(Optional) in frr orig phop
<i>in_intf_with_frr</i>	(Optional) in intf with frr
<i>in_frr_phop</i>	(Optional) in frr phop
<i>nhop_is_tail</i>	(Optional) nhop is tail
<i>no_frr_nnhop_info</i>	(Optional) no frr nnhop info
<i>frr_active_or_ready</i>	(Optional) frr active or ready
<i>frr_backup_lsp_intf</i>	(Optional) frr backup lsp intf
<i>frr_nnhop_or_nhop</i>	(Optional) frr nnhop or nhop
<i>frr_out_backup_intf</i>	(Optional) frr out backup intf
<i>lsp_out_intf</i>	(Optional) lsp out intf
<i>frr_backup_lsp_out_label</i>	(Optional) frr backup lsp out label
<i>frr_orig_out_intf</i>	(Optional) frr orig out intf
<i>frr_orig_out_label</i>	(Optional) frr orig out label
<i>frr_orig_out_nhop</i>	(Optional) frr orig out nhop
<i>frr_backup_nnhop</i>	(Optional) frr backup nnhop

<i>frr_backup_nnhop_rtr</i>	(Optional) frr backup nnhop rtr
<i>frr_backup_intf</i>	(Optional) frr backup intf
<i>frr_backup_label</i>	(Optional) frr backup label
<i>frr_protected_bw</i>	(Optional) frr protected bw
<i>frr_protect_level</i>	(Optional) frr protect level
<i>frr_bw_type</i>	(Optional) frr bw type
TABLE_prot_protection	(Optional) protection path info
<i>protection_path_status</i>	(Optional) protection path status
<i>protection_common_links</i>	(Optional) protection common links
<i>protection_common_nodes</i>	(Optional) protection common nodes
<i>protection_p2p_links</i>	(Optional) protection p2p links
<i>protection_multiaccess_links</i>	(Optional) protection multiaccess links
<i>protection_both_interfaces</i>	(Optional) protection both interfaces
<i>protection_one_interface</i>	(Optional) protection one interface
<i>protection_zero_interfaces</i>	(Optional) protection zero interfaces
TABLE_primary_protection	(Optional) primary path
<i>protection_primary_path</i>	(Optional) protection primary path
TABLE_protect_protection	(Optional) primary path
<i>protection_protect_path</i>	(Optional) protection protect path
<i>protection_type</i>	(Optional) parameter type
<i>protection_autobw_req</i>	(Optional) autobw req
<i>protection_bw_kbps</i>	(Optional) bw kbps
<i>protection_setup_pri</i>	(Optional) setup priority
<i>protection_hold_pri</i>	(Optional) hold priority
<i>protection_affinity_value</i>	(Optional) affinity value
<i>protection_Affinity_mask</i>	(Optional) affinity mask
<i>protection_metric_type</i>	(Optional) metric type
<i>protection_in_name</i>	(Optional) input interface name
<i>protection_in_label</i>	(Optional) input label

<i>protection_out_name</i>	(Optional) output interface name
<i>protection_out_label</i>	(Optional) output label
<i>protection_backup_name</i>	(Optional) backup interface name
<i>protection_backup_label</i>	(Optional) backup label
<i>protection_frr_active</i>	(Optional) FRR active/in use
<i>protection_rsvp_lsp_source_addr</i>	(Optional) rsvp lsp source addr
<i>protection_rsvp_lsp_dest_addr</i>	(Optional) rsvp lsp dest addr
<i>protection_rsvp_lsp_dest_port</i>	(Optional) rsvp lsp dest port
<i>protection_rsvp_lsp_source_port</i>	(Optional) rsvp lsp source port
<i>protection_rsvp_lsp_local_addr</i>	(Optional) rsvp lsp local addr
TABLE_ero_in_protection	(Optional) ero info
<i>in_protection_rsvp_ero_addr</i>	(Optional) rsvp ero addr
<i>in_protection_rsvp_ero_loose</i>	(Optional) rsvp ero loose
<i>in_protection_rsvp_ero_routerid</i>	(Optional) rsvp ero routerid
<i>in_protection_rsvp_ero_if_id</i>	(Optional) rsvp ero if id
TABLE_ero_out_protection	(Optional) ero info
<i>out_protection_rsvp_ero_addr</i>	(Optional) rsvp ero addr
<i>out_protection_rsvp_ero_loose</i>	(Optional) rsvp ero loose
<i>out_protection_rsvp_ero_routerid</i>	(Optional) rsvp ero routerid
<i>out_protection_rsvp_ero_if_id</i>	(Optional) rsvp ero if id
TABLE_rro_protection	(Optional) rro info
<i>protection_rsvp_rro_protect_avail</i>	(Optional) rsvp rro protection available
<i>protection_rsvp_rro_protect_in_use</i>	(Optional) rsvp rro protection in use
<i>protection_rsvp_rro_bw_protected</i>	(Optional) rsvp rro bw protected
<i>protection_rsvp_rro_node_protect_avail</i>	(Optional) rsvp rro node protection available
<i>protection_rsvp_rro_is_node_id</i>	(Optional) rsvp rro is node id
<i>protection_rsvp_rro_addr</i>	(Optional) rsvp rro addr
<i>protection_rsvp_rro_if_addr</i>	(Optional) rsvp rro if addr
<i>protection_rsvp_rro_if_id</i>	(Optional) rsvp rro if id

<i>protection_rsvp_rro_label</i>	(Optional) rsvp rro label
<i>protection_rsvp_tspec_rate</i>	(Optional) rsvp tspec rate
<i>protection_rsvp_tspec_burst</i>	(Optional) rsvp tspec burst
<i>protection_rsvp_tspec_peak</i>	(Optional) rsvp tspec peak
TABLE_rro_resv_protection	(Optional) rro info
<i>resv_protection_rsvp_rro_protect_avail</i>	(Optional) rsvp rro protection available
<i>resv_protection_rsvp_rro_protect_in_use</i>	(Optional) rsvp rro protection in use
<i>resv_protection_rsvp_rro_bw_protected</i>	(Optional) rsvp rro bw protected
<i>resv_protection_rsvp_rro_node_protect_avail</i>	(Optional) rsvp rro node protection available
<i>resv_protection_rsvp_rro_is_node_id</i>	(Optional) rsvp rro is node id
<i>resv_protection_rsvp_rro_addr</i>	(Optional) rsvp rro addr
<i>resv_protection_rsvp_rro_if_addr</i>	(Optional) rsvp rro if addr
<i>resv_protection_rsvp_rro_if_id</i>	(Optional) rsvp rro if id
<i>resv_protection_rsvp_rro_label</i>	(Optional) rsvp rro label
<i>protection_rsvp_fspec_rate</i>	(Optional) rsvp rspec rate
<i>protection_rsvp_fspec_burst</i>	(Optional) rsvp rspec burst
<i>protection_rsvp_fspec_peak</i>	(Optional) rsvp rspec peak
TABLE_members	(Optional) members info
<i>member_name</i>	(Optional) tunnel name
TABLE_member_exp	(Optional) member exp info
<i>member_exp_bits</i>	(Optional) exp bits
<i>member_default_exp_bit</i>	(Optional) default exp bit
<i>current_reopt_in_progress</i>	(Optional) reopt in progress
<i>current_delayed_clean</i>	(Optional) delayed clean
<i>current_popt_protect</i>	(Optional) popt protect
<i>current_popt_idx_str</i>	(Optional) popt idx str
<i>current_popt_lockdown</i>	(Optional) popt lockdown
<i>current_popt_type_str</i>	(Optional) popt type str
<i>current_popt_verbatim</i>	(Optional) popt verbatim

<i>current_popt_path_id</i>	(Optional) popt path id
<i>current_popt_accum_admin_weight</i>	(Optional) popt accum admin weight
<i>current_popt_out_interface_name</i>	(Optional) out interface name
<i>current_popt_label_str</i>	(Optional) popt label str
<i>current_popt_int_prop</i>	(Optional) popt int prop
<i>current_popt_label_raw_value</i>	(Optional) popt label raw value
<i>current_fwd_adj_hold_up_ms_remaining</i>	(Optional) fwd adj hold up ms remaining
<i>current_reroute_pending</i>	(Optional) reroute pending
<i>current_type</i>	(Optional) parameter type
<i>current_autobw_req</i>	(Optional) autobw req
<i>current_bw_kbps</i>	(Optional) bw kbps
<i>current_setup_pri</i>	(Optional) setup priority
<i>current_hold_pri</i>	(Optional) hold priority
<i>current_affinity_value</i>	(Optional) affinity value
<i>current_affinity_mask</i>	(Optional) affinity mask
<i>current_metric_type</i>	(Optional) metric type
TABLE_prot_current	(Optional) protection path info
<i>current_path_status</i>	(Optional) protection path status
<i>current_common_links</i>	(Optional) protection common links
<i>current_common_nodes</i>	(Optional) protection common nodes
<i>current_p2p_links</i>	(Optional) protection p2p links
<i>current_multiaccess_links</i>	(Optional) protection multiaccess links
<i>current_both_interfaces</i>	(Optional) protection both interfaces
<i>current_one_interface</i>	(Optional) protection one interface
<i>current_zero_interfaces</i>	(Optional) protection zero interfaces
TABLE_primary_current	(Optional) primary path
<i>current_primary_path</i>	(Optional) protection primary path
TABLE_protect_current	(Optional) primary path
<i>current_protect_path</i>	(Optional) protection protect path

<i>current_type</i>	(Optional) parameter type
<i>current_autobw_req</i>	(Optional) autobw req
<i>current_bw_kbps</i>	(Optional) bw kbps
<i>current_setup_pri</i>	(Optional) setup priority
<i>current_hold_pri</i>	(Optional) hold priority
<i>current_affinity_value</i>	(Optional) affinity value
<i>current_affinity_mask</i>	(Optional) affinity mask
<i>current_metric_type</i>	(Optional) metric type
<i>current_in_name</i>	(Optional) input interface name
<i>current_in_label</i>	(Optional) input label
<i>current_out_name</i>	(Optional) output interface name
<i>current_out_label</i>	(Optional) output label
<i>current_backup_name</i>	(Optional) backup interface name
<i>current_backup_label</i>	(Optional) backup label
<i>current_frr_active</i>	(Optional) FRR active/in use
<i>current_rsvp_lsp_source_addr</i>	(Optional) rsvp lsp source addr
<i>current_rsvp_lsp_dest_addr</i>	(Optional) rsvp lsp dest addr
<i>current_rsvp_lsp_dest_port</i>	(Optional) rsvp lsp dest port
<i>current_rsvp_lsp_source_port</i>	(Optional) rsvp lsp source port
<i>current_rsvp_lsp_local_addr</i>	(Optional) rsvp lsp local addr
TABLE_ero_in_current	(Optional) ero info
<i>in_current_rsvp_ero_addr</i>	(Optional) rsvp ero addr
<i>in_current_rsvp_ero_loose</i>	(Optional) rsvp ero loose
<i>in_current_rsvp_ero_routerid</i>	(Optional) rsvp ero routerid
<i>in_current_rsvp_ero_if_id</i>	(Optional) rsvp ero if id
TABLE_ero_out_current	(Optional) ero info
<i>out_current_rsvp_ero_addr</i>	(Optional) rsvp ero addr
<i>out_current_rsvp_ero_loose</i>	(Optional) rsvp ero loose
<i>out_current_rsvp_ero_routerid</i>	(Optional) rsvp ero routerid

<i>out_current_rsvp_ero_if_id</i>	(Optional) rsvp ero if id
TABLE_rro_current	(Optional) rro info
<i>current_rsvp_rro_protect_avail</i>	(Optional) rsvp rro protection available
<i>current_rsvp_rro_protect_in_use</i>	(Optional) rsvp rro protection in use
<i>current_rsvp_rro_bw_protected</i>	(Optional) rsvp rro bw protected
<i>current_rsvp_rro_node_protect_avail</i>	(Optional) rsvp rro node protection available
<i>current_rsvp_rro_is_node_id</i>	(Optional) rsvp rro is node id
<i>current_rsvp_rro_addr</i>	(Optional) rsvp rro addr
<i>current_rsvp_rro_if_addr</i>	(Optional) rsvp rro if addr
<i>current_rsvp_rro_if_id</i>	(Optional) rsvp rro if id
<i>current_rsvp_rro_label</i>	(Optional) rsvp rro label
<i>current_rsvp_tspeg_rate</i>	(Optional) rsvp tspeg rate
<i>current_rsvp_tspeg_burst</i>	(Optional) rsvp tspeg burst
<i>current_rsvp_tspeg_peak</i>	(Optional) rsvp tspeg peak
TABLE_rro_resv_current	(Optional) rro info
<i>resv_current_rsvp_rro_protect_avail</i>	(Optional) rsvp rro protection available
<i>resv_current_rsvp_rro_protect_in_use</i>	(Optional) rsvp rro protection in use
<i>resv_current_rsvp_rro_bw_protected</i>	(Optional) rsvp rro bw protected
<i>resv_current_rsvp_rro_node_protect_avail</i>	(Optional) rsvp rro node protection available
<i>resv_current_rsvp_rro_is_node_id</i>	(Optional) rsvp rro is node id
<i>resv_current_rsvp_rro_addr</i>	(Optional) rsvp rro addr
<i>resv_current_rsvp_rro_if_addr</i>	(Optional) rsvp rro if addr
<i>resv_current_rsvp_rro_if_id</i>	(Optional) rsvp rro if id
<i>resv_current_rsvp_rro_label</i>	(Optional) rsvp rro label
<i>current_rsvp_fspeg_rate</i>	(Optional) rsvp rspeg rate
<i>current_rsvp_fspeg_burst</i>	(Optional) rsvp rspeg burst
<i>current_rsvp_fspeg_peak</i>	(Optional) rsvp rspeg peak
<i>prot_current_popt_protect</i>	(Optional) popt protect
<i>prot_current_popt_idx_str</i>	(Optional) popt idx str

<i>prot_current_popt_lockdown</i>	(Optional) popt lockdown
<i>prot_current_popt_type_str</i>	(Optional) popt type str
<i>prot_current_popt_verbatim</i>	(Optional) popt verbatim
<i>prot_current_popt_path_id</i>	(Optional) popt path id
<i>prot_current_popt_accum_admin_weight</i>	(Optional) popt accum admin weight
<i>prot_current_popt_out_interface_name</i>	(Optional) out interface name
<i>prot_current_popt_label_str</i>	(Optional) popt label str
<i>prot_current_popt_int_prop</i>	(Optional) popt int prop
<i>prot_current_popt_label_raw_value</i>	(Optional) popt label raw value
TABLE_popts	(Optional) path options table
<i>popts_reopt_in_progress</i>	(Optional) reopt in progress
<i>popts_delayed_clean</i>	(Optional) delayed clean
<i>popts_popt_protect</i>	(Optional) popt protect
<i>popts_popt_idx_str</i>	(Optional) popt idx str
<i>popts_popt_lockdown</i>	(Optional) popt lockdown
<i>popts_popt_type_str</i>	(Optional) popt type str
<i>popts_popt_verbatim</i>	(Optional) popt verbatim
<i>popts_popt_path_id</i>	(Optional) popt path id
<i>popts_popt_accum_admin_weight</i>	(Optional) popt accum admin weight
<i>popts_popt_out_interface_name</i>	(Optional) out interface name
<i>popts_popt_label_str</i>	(Optional) popt label str
<i>popts_popt_int_prop</i>	(Optional) popt int prop
<i>popts_popt_label_raw_value</i>	(Optional) popt label raw value
<i>popts_fwd_adj_hold_up_ms_remaining</i>	(Optional) fwd adj hold up ms remaining
<i>popts_reroute_pending</i>	(Optional) reroute pending
<i>popts_type</i>	(Optional) parameter type
<i>popts_autobw_req</i>	(Optional) autobw req
<i>popts_bw_kbps</i>	(Optional) bw kbps
<i>popts_setup_pri</i>	(Optional) setup priority

<i>popts_hold_pri</i>	(Optional) hold priority
<i>popts_affinity_value</i>	(Optional) affinity value
<i>popts_affinity_mask</i>	(Optional) affinity mask
<i>popts_metric_type</i>	(Optional) metric type
TABLE_prot_popts	(Optional) protection path info
<i>popts_path_status</i>	(Optional) protection path status
<i>popts_common_links</i>	(Optional) protection common links
<i>popts_common_nodes</i>	(Optional) protection common nodes
<i>popts_p2p_links</i>	(Optional) protection p2p links
<i>popts_multiaccess_links</i>	(Optional) protection multiaccess links
<i>popts_both_interfaces</i>	(Optional) protection both interfaces
<i>popts_one_interface</i>	(Optional) protection one interface
<i>popts_zero_interfaces</i>	(Optional) protection zero interfaces
TABLE_primary_popts	(Optional) primary path
<i>popts_primary_path</i>	(Optional) protection primary path
TABLE_protect_popts	(Optional) primary path
<i>popts_protect_path</i>	(Optional) protection protect path
<i>popts_type</i>	(Optional) parameter type
<i>popts_autobw_req</i>	(Optional) autobw req
<i>popts_bw_kbps</i>	(Optional) bw kbps
<i>popts_setup_pri</i>	(Optional) setup priority
<i>popts_hold_pri</i>	(Optional) hold priority
<i>popts_affinity_value</i>	(Optional) affinity value
<i>popts_affinity_mask</i>	(Optional) affinity mask
<i>popts_metric_type</i>	(Optional) metric type
<i>popts_in_name</i>	(Optional) input interface name
<i>popts_in_label</i>	(Optional) input label
<i>popts_out_name</i>	(Optional) output interface name
<i>popts_out_label</i>	(Optional) output label

<i>popts_backup_name</i>	(Optional) backup interface name
<i>popts_backup_label</i>	(Optional) backup label
<i>popts_frr_active</i>	(Optional) FRR active/in use
<i>popts_rsvp_lsp_source_addr</i>	(Optional) rsvp lsp source addr
<i>popts_rsvp_lsp_dest_addr</i>	(Optional) rsvp lsp dest addr
<i>popts_rsvp_lsp_dest_port</i>	(Optional) rsvp lsp dest port
<i>popts_rsvp_lsp_source_port</i>	(Optional) rsvp lsp source port
<i>popts_rsvp_lsp_local_addr</i>	(Optional) rsvp lsp local addr
TABLE_ero_in_popts	(Optional) ero info
<i>in_popts_rsvp_ero_addr</i>	(Optional) rsvp ero addr
<i>in_popts_rsvp_ero_loose</i>	(Optional) rsvp ero loose
<i>in_popts_rsvp_ero_routerid</i>	(Optional) rsvp ero routerid
<i>in_popts_rsvp_ero_if_id</i>	(Optional) rsvp ero if id
TABLE_ero_out_popts	(Optional) ero info
<i>out_popts_rsvp_ero_addr</i>	(Optional) rsvp ero addr
<i>out_popts_rsvp_ero_loose</i>	(Optional) rsvp ero loose
<i>out_popts_rsvp_ero_routerid</i>	(Optional) rsvp ero routerid
<i>out_popts_rsvp_ero_if_id</i>	(Optional) rsvp ero if id
TABLE_rro_popts	(Optional) rro info
<i>popts_rsvp_rro_protect_avail</i>	(Optional) rsvp rro protection available
<i>popts_rsvp_rro_protect_in_use</i>	(Optional) rsvp rro protection in use
<i>popts_rsvp_rro_bw_protected</i>	(Optional) rsvp rro bw protected
<i>popts_rsvp_rro_node_protect_avail</i>	(Optional) rsvp rro node protection available
<i>popts_rsvp_rro_is_node_id</i>	(Optional) rsvp rro is node id
<i>popts_rsvp_rro_addr</i>	(Optional) rsvp rro addr
<i>popts_rsvp_rro_if_addr</i>	(Optional) rsvp rro if addr
<i>popts_rsvp_rro_if_id</i>	(Optional) rsvp rro if id
<i>popts_rsvp_rro_label</i>	(Optional) rsvp rro label
<i>popts_rsvp_tspecc_rate</i>	(Optional) rsvp tspecc rate

<i>popts_rsvp_tspec_burst</i>	(Optional) rsvp tspec burst
<i>popts_rsvp_tspec_peak</i>	(Optional) rsvp tspec peak
TABLE_rro_resv_popts	(Optional) rro info
<i>resv_popts_rsvp_rro_protect_avail</i>	(Optional) rsvp rro protection available
<i>resv_popts_rsvp_rro_protect_in_use</i>	(Optional) rsvp rro protection in use
<i>resv_popts_rsvp_rro_bw_protected</i>	(Optional) rsvp rro bw protected
<i>resv_popts_rsvp_rro_node_protect_avail</i>	(Optional) rsvp rro node protection available
<i>resv_popts_rsvp_rro_is_node_id</i>	(Optional) rsvp rro is node id
<i>resv_popts_rsvp_rro_addr</i>	(Optional) rsvp rro addr
<i>resv_popts_rsvp_rro_if_addr</i>	(Optional) rsvp rro if addr
<i>resv_popts_rsvp_rro_if_id</i>	(Optional) rsvp rro if id
<i>resv_popts_rsvp_rro_label</i>	(Optional) rsvp rro label
<i>popts_rsvp_fspec_rate</i>	(Optional) rsvp rspec rate
<i>popts_rsvp_fspec_burst</i>	(Optional) rsvp rspec burst
<i>popts_rsvp_fspec_peak</i>	(Optional) rsvp rspec peak
<i>prot_popts_popt_protect</i>	(Optional) popt protect
<i>prot_popts_popt_idx_str</i>	(Optional) popt idx str
<i>prot_popts_popt_lockdown</i>	(Optional) popt lockdown
<i>prot_popts_popt_type_str</i>	(Optional) popt type str
<i>prot_popts_popt_verbatim</i>	(Optional) popt verbatim
<i>prot_popts_popt_path_id</i>	(Optional) popt path id
<i>prot_popts_popt_accum_admin_weight</i>	(Optional) popt accum admin weight
<i>prot_popts_popt_out_interface_name</i>	(Optional) out interface name
<i>prot_popts_popt_label_str</i>	(Optional) popt label str
<i>prot_popts_popt_int_prop</i>	(Optional) popt int prop
<i>prot_popts_popt_label_raw_value</i>	(Optional) popt label raw value
<i>passive_dest_ipaddr</i>	(Optional) passive tunnel destination ip address
<i>passive_tunnel_id</i>	(Optional) passive tunnel id
<i>passive_incomplete_properties</i>	(Optional) passive tunnel incomplete properties

<i>passive_dest_str</i>	(Optional) passive destination string
<i>config_type</i>	(Optional) parameter type
<i>config_autobw_req</i>	(Optional) autobw req
<i>config_bw_kbps</i>	(Optional) bw kbps
<i>config_setup_pri</i>	(Optional) setup priority
<i>config_hold_pri</i>	(Optional) hold priority
<i>config_affinity_value</i>	(Optional) affinity value
<i>config_affinity_mask</i>	(Optional) affinity mask
<i>config_metric_type</i>	(Optional) metric type
<i>tsp_flg_annnc</i>	(Optional) tsp flg annnc
<i>tsp_active_popt_enbl</i>	(Optional) tsp active popt enbl
<i>fa_holdtime</i>	(Optional) fa holdtime
<i>tsp_autobw_freq</i>	(Optional) tsp autobw freq
<i>tsp_autobw_time_left</i>	(Optional) tsp autobw time left
<i>tsp_autobw_time_max</i>	(Optional) tsp autobw time max
<i>tsp_autobw_collect</i>	(Optional) tsp autobw collect
<i>tsp_autobw_high_or_req</i>	(Optional) tsp autobw high or req
<i>tsp_autobw_samp_missed</i>	(Optional) tsp autobw samp missed
<i>tsp_autobw_samp_collected</i>	(Optional) tsp autobw samp collected
<i>auto_bw_disabled</i>	(Optional) auto bw disabled
<i>active_popt_type_str</i>	(Optional) active popt type
<i>active_popt_idx_str</i>	(Optional) active popt index
<i>active_popt_bw_override_enabled</i>	(Optional) active popt bw override enabled
<i>active_popt_lockdown_enabled</i>	(Optional) active popt lockdown enabled
<i>active_popt_verbatim_enabled</i>	(Optional) active popt verbatim enabled
<i>active_bw</i>	(Optional) active bandwidth
<i>active_bw_pool</i>	(Optional) active bw pool
<i>active_autobw</i>	(Optional) active autobw bandwidth
<i>active_autobw_pool</i>	(Optional) active autobw pool

<i>active_cfg_bw</i>	(Optional) active configured bandwidth
<i>active_cfg_bw_pool</i>	(Optional) active configured bw pool
<i>passive_sig_name</i>	(Optional) passive signalled name
<i>passive_sig_setup</i>	(Optional) passive signalled setup
<i>passive_sig_reserv</i>	(Optional) passive signalled reserved
<i>rsvp_current_in_name</i>	(Optional) input interface name
<i>rsvp_current_in_label</i>	(Optional) input label
<i>rsvp_current_out_name</i>	(Optional) output interface name
<i>rsvp_current_out_label</i>	(Optional) output label
<i>rsvp_current_backup_name</i>	(Optional) backup interface name
<i>rsvp_current_backup_label</i>	(Optional) backup label
<i>rsvp_current_frr_active</i>	(Optional) FRR active/in use
<i>rsvp_current_rsvp_lsp_source_addr</i>	(Optional) rsvp lsp source addr
<i>rsvp_current_rsvp_lsp_dest_addr</i>	(Optional) rsvp lsp dest addr
<i>rsvp_current_rsvp_lsp_dest_port</i>	(Optional) rsvp lsp dest port
<i>rsvp_current_rsvp_lsp_source_port</i>	(Optional) rsvp lsp source port
<i>rsvp_current_rsvp_lsp_local_addr</i>	(Optional) rsvp lsp local addr
TABLE_ero_in_rsvp_current	(Optional) ero info
<i>in_rsvp_current_rsvp_ero_addr</i>	(Optional) rsvp ero addr
<i>in_rsvp_current_rsvp_ero_loose</i>	(Optional) rsvp ero loose
<i>in_rsvp_current_rsvp_ero_routerid</i>	(Optional) rsvp ero routerid
<i>in_rsvp_current_rsvp_ero_if_id</i>	(Optional) rsvp ero if id
TABLE_ero_out_rsvp_current	(Optional) ero info
<i>out_rsvp_current_rsvp_ero_addr</i>	(Optional) rsvp ero addr
<i>out_rsvp_current_rsvp_ero_loose</i>	(Optional) rsvp ero loose
<i>out_rsvp_current_rsvp_ero_routerid</i>	(Optional) rsvp ero routerid
<i>out_rsvp_current_rsvp_ero_if_id</i>	(Optional) rsvp ero if id
TABLE_rro_rsvp_current	(Optional) rro info
<i>rsvp_current_rsvp_rro_protect_avail</i>	(Optional) rsvp rro protection available

<i>rsvp_current_rsvp_rro_protect_in_use</i>	(Optional) rsvp rro protection in use
<i>rsvp_current_rsvp_rro_bw_protected</i>	(Optional) rsvp rro bw protected
<i>rsvp_current_rsvp_rro_node_protect_avail</i>	(Optional) rsvp rro node protection available
<i>rsvp_current_rsvp_rro_is_node_id</i>	(Optional) rsvp rro is node id
<i>rsvp_current_rsvp_rro_addr</i>	(Optional) rsvp rro addr
<i>rsvp_current_rsvp_rro_if_addr</i>	(Optional) rsvp rro if addr
<i>rsvp_current_rsvp_rro_if_id</i>	(Optional) rsvp rro if id
<i>rsvp_current_rsvp_rro_label</i>	(Optional) rsvp rro label
<i>rsvp_current_rsvp_tspec_rate</i>	(Optional) rsvp tspec rate
<i>rsvp_current_rsvp_tspec_burst</i>	(Optional) rsvp tspec burst
<i>rsvp_current_rsvp_tspec_peak</i>	(Optional) rsvp tspec peak
TABLE_rro_resv_rsvp_current	(Optional) rro info
<i>resv_rsvp_current_rsvp_rro_protect_avail</i>	(Optional) rsvp rro protection available
<i>resv_rsvp_current_rsvp_rro_protect_in_use</i>	(Optional) rsvp rro protection in use
<i>resv_rsvp_current_rsvp_rro_bw_protected</i>	(Optional) rsvp rro bw protected
<i>resv_rsvp_current_rsvp_rro_node_protect_avail</i>	(Optional) rsvp rro node protection available
<i>resv_rsvp_current_rsvp_rro_is_node_id</i>	(Optional) rsvp rro is node id
<i>resv_rsvp_current_rsvp_rro_addr</i>	(Optional) rsvp rro addr
<i>resv_rsvp_current_rsvp_rro_if_addr</i>	(Optional) rsvp rro if addr
<i>resv_rsvp_current_rsvp_rro_if_id</i>	(Optional) rsvp rro if id
<i>resv_rsvp_current_rsvp_rro_label</i>	(Optional) rsvp rro label
<i>rsvp_current_rsvp_fspec_rate</i>	(Optional) rsvp rspec rate
<i>rsvp_current_rsvp_fspec_burst</i>	(Optional) rsvp rspec burst
<i>rsvp_current_rsvp_fspec_peak</i>	(Optional) rsvp rspec peak
<i>spf_path_info_str</i>	(Optional) spf path info string
<i>spf_path_weight_str</i>	(Optional) spf path weight string
<i>spf_weight_unknown_str</i>	(Optional) spf weight unknown string
<i>spf_weight_accum_admin_weight</i>	(Optional) spf accumulated admin weight
<i>spf_metric_type</i>	(Optional) spf metric type

<i>spf_exp_prefix</i>	(Optional) spf exp prefix
<i>spf_hop_unknown</i>	(Optional) spf hop unknown
TABLE_spf_hoplist	(Optional) spf hoplist table
<i>spf_hop_ipaddr</i>	(Optional) spf hop IP address
<i>spf_hop_intf</i>	(Optional) spf hop interface
<i>hist_create_time</i>	(Optional) creation time
<i>hist_path_change_time</i>	(Optional) path change time
<i>hist_tun_instances</i>	(Optional) tunnel instances
<i>hist_uptime</i>	(Optional) uptime
<i>hist_setup_time</i>	(Optional) setup time
<i>hist_selection</i>	(Optional) path option selection
<i>hist_perr_loc_current</i>	(Optional) current LSP path error location
<i>hist_perr_desc_current</i>	(Optional) current LSP path error description
<i>hist_uptime_reopt</i>	(Optional) reopt LSP uptime
<i>hist_setup_time_reopt</i>	(Optional) reopt LSP setup time
<i>hist_perr_loc_reopt</i>	(Optional) reopt LSP path error location
<i>hist_perr_desc_reopt</i>	(Optional) reopt LSP path error description
<i>hist_prev_popt_idx_str</i>	(Optional) previous LSP popt index str
<i>hist_prev_instance</i>	(Optional) previous LSP instance
<i>hist_prev_unknown</i>	(Optional) previous LSP unknown
<i>hist_setup_fail_reason</i>	(Optional) setup fail reason
<i>hist_perr_loc_prev</i>	(Optional) previous LSP path error location
<i>hist_perr_desc_prev</i>	(Optional) previous LSP path error description
<i>hist_other_po_idx</i>	(Optional) other LSP popt index
<i>hist_perr_loc_other</i>	(Optional) other LSP path error location
<i>hist_perr_desc_other</i>	(Optional) other LSP path error description
<i>heads_shown</i>	(Optional) number of heads shown
<i>mids_shown</i>	(Optional) number of midpoints shown
<i>tails_shown</i>	(Optional) number of tails shown

Command Mode

- /exec

show mpls traffic-eng tunnels statistics internal

```
show mpls traffic-eng tunnels { <tun-intf> | { [ destination <address> ] [ source-id { <ipaddress> | <tunnel-id> | <ipaddress> <tunnel-id> } ] [ role { all | head | middle | tail | remote } ] [ { up | down } ] [ suboptimal constraints { none | current | max } ] [ property { backup-tunnel | fast-reroute } ] [ firstate { ready | active } ] [ name <string> | name-regexp <regexp-string> ] [ interface { in <in-intf> | out <out-intf> | <phys-intf> | backup <bkup-intf> } ] [ attributes <attr-string> } ] + } statistics internal
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
tunnels	MPLS traffic-eng tunnel status
<i>tun-intf</i>	Tunnel interface
destination	(Optional) Restrict display to tunnels with this destination
<i>address</i>	(Optional) tunnel destination address
source-id	(Optional) Tunnel identifier address/id
<i>ipaddress</i>	(Optional) Source address part of tunnel identifier
<i>tunnel-id</i>	(Optional) Number part of tunnel identifier
role	(Optional) Restrict display to tunnels with specified role
all	(Optional) head, middle, or tail LSP tunnels
head	(Optional) tunnels that originate locally
middle	(Optional) tunnels that transit locally
tail	(Optional) tunnels that terminate locally
remote	(Optional) middle or tail tunnels
up	(Optional) Restrict display to tunnels in up state
down	(Optional) Restrict display to tunnels in down state
suboptimal	(Optional) Restrict display to tunnels using a suboptimal path
constraints	(Optional) Specify constraints for finding best comparison path
none	(Optional) path lookup without any constraints
current	(Optional) path lookup constrained by available resources

max	(Optional) path lookup constrained by network's maximum potential resources
property	(Optional) Restrict display to tunnels with specified property
backup-tunnel	(Optional) Tunnels used as fast reroute
fast-reroute	(Optional) Tunnels protected by fast reroute
frrstate	(Optional) Restrict display to tunnels with specific frr state
ready	(Optional) Tunnels in FRR ready state
active	(Optional) Tunnels in FRR active state
name	(Optional) Restrict display to tunnels with this name
<i>string</i>	(Optional) LSP Tunnel name
name-regexp	(Optional) Restrict display to tunnels matching this name
<i>regexp-string</i>	(Optional) LSP Tunnel name (regular expression)
interface	(Optional) Restrict display to tunnels using a specified interface
in	(Optional) input interface
<i>in-intf</i>	(Optional)
out	(Optional) output interface
<i>out-intf</i>	(Optional)
<i>phys-intf</i>	(Optional)
backup	(Optional) Fast reroute backup protection provided by tunnels
<i>bkup-intf</i>	(Optional)
attributes	(Optional) Restrict display to tunnels using a matching attribute list
<i>attr-string</i>	(Optional) LSP attribute list name (regular expression)
statistics	Tunnel counters and statistics
internal	Commands for internal use

Command Mode

- /exec

show mvpn bgp mdt

```
show mvpn bgp { mdt-safi | auto-discovery } [ mdt-source <src-addr> ] [ __readonly__ { TABLE_entry
<bgp_rd> <mdt_src> <mdt_grp> <local> } ]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
bgp	Display BGP related information
mdt-safi	Display Auto-discovered BGP MDT-SAFI database
auto-discovery	Display Auto-discovered BGP MDT-SAFI database
mdt-source	(Optional) Source address of MVPN neighbor
<i>src-addr</i>	(Optional) Source Address
<i>__readonly__</i>	(Optional)
TABLE_entry	(Optional)
<i>bgp_rd</i>	(Optional)
<i>mdt_src</i>	(Optional)
<i>mdt_grp</i>	(Optional)
<i>local</i>	(Optional)

Command Mode

- /exec

show mvpn mdt encap

```
show mvpn mdt encap [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<out_context> { TABLE_encap <encap_index> <mdt_grp> <mdt_src> <mdt_src_if> } ]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
mdt	Display MDT information
encap	Display MDT Encap table
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>out_context</i>	(Optional)
<i>TABLE_encap</i>	(Optional)
<i>encap_index</i>	(Optional)
<i>mdt_grp</i>	(Optional)
<i>mdt_src</i>	(Optional)
<i>mdt_src_if</i>	(Optional)

Command Mode

- /exec

show mvpn mdt route

```
show mvpn mdt route [ detail ] [ __readonly__ TABLE_vrf <out_context> [ TABLE_mroute <src_addr>
<grp_addr> <uptime> <ref_count> ] ]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
mdt	Display MDT information
route	Display MDT route information
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_mroute	(Optional)
<i>src_addr</i>	(Optional)
<i>grp_addr</i>	(Optional)
<i>uptime</i>	(Optional)
<i>ref_count</i>	(Optional)

Command Mode

- /exec

show mvpn snmp mib genericTable

```
show mvpn snmp mib genericTable [ <mplsVpnVrfName-in> ] [ __readonly__
TABLE_ciscoMvpnGenericTable <mplsVpnVrfName-out> <ciscoMvpnGenOperStatusChange>
<ciscoMvpnGenOperChangeTime> <ciscoMvpnGenAssociatedInterfaces> <ciscoMvpnGenRowStatus> ]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
genericTable	Show MVPN Generic Table
<i>mplsVpnVrfName-in</i>	(Optional) mplsVpnVrfName
<i>__readonly__</i>	(Optional)
<i>TABLE_ciscoMvpnGenericTable</i>	(Optional)
<i>mplsVpnVrfName-out</i>	(Optional) mib table index mplsVpnVrfName
<i>ciscoMvpnGenOperStatusChange</i>	(Optional) mib object ciscoMvpnGenOperStatusChange
<i>ciscoMvpnGenOperChangeTime</i>	(Optional) mib object ciscoMvpnGenOperChangeTime
<i>ciscoMvpnGenAssociatedInterfaces</i>	(Optional) mib object ciscoMvpnGenAssociatedInterfaces
<i>ciscoMvpnGenRowStatus</i>	(Optional) mib object ciscoMvpnGenRowStatus

Command Mode

- /exec

show mvpn snmp mib mvpnBgpMdtUpdateTable

```
show mvpn snmp mib mvpnBgpMdtUpdateTable [ <ciscoMvpnBgpMdtUpdGrpAddrType-in>
<ciscoMvpnBgpMdtUpdateGroup-in> <ciscoMvpnBgpMdtUpdSrcAddrType-in>
<ciscoMvpnBgpMdtUpdateSource-in> ] [ __readonly__ TABLE_ciscoMvpnBgpMdtUpdateTable
<ciscoMvpnBgpMdtUpdGrpAddrType-out> <ciscoMvpnBgpMdtUpdateGroup-out>
<ciscoMvpnBgpMdtUpdateRd> <ciscoMvpnBgpMdtUpdSrcAddrType-out>
<ciscoMvpnBgpMdtUpdateSource-out> <ciscoMvpnBgpMdtUpdOrigAddrType>
<ciscoMvpnBgpMdtUpdateOriginator> <ciscoMvpnBgpMdtUpdNhAddrType>
<ciscoMvpnBgpMdtUpdateNextHop> ]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnBgpMdtUpdateTable	show mib table mvpnBgpMdtUpdateTable
<i>ciscoMvpnBgpMdtUpdGrpAddrType-in</i>	(Optional) Data MDT Group Address Type
<i>ciscoMvpnBgpMdtUpdateGroup-in</i>	(Optional) Data MDT group address in the MDT join TLV
<i>ciscoMvpnBgpMdtUpdSrcAddrType-in</i>	(Optional) MDT mulitcast routing enty source address type
<i>ciscoMvpnBgpMdtUpdateSource-in</i>	(Optional) Souce adres for the MDT mulitcast routing enty created following the receipt of MDT join TLV
__readonly__	(Optional)
TABLE_ciscoMvpnBgpMdtUpdateTable	(Optional)
<i>ciscoMvpnBgpMdtUpdGrpAddrType-out</i>	(Optional) mib table index ciscoMvpnBgpMdtUpdGrpAddrType
<i>ciscoMvpnBgpMdtUpdateGroup-out</i>	(Optional) mib table index ciscoMvpnBgpMdtUpdateGroup
<i>ciscoMvpnBgpMdtUpdateRd</i>	(Optional) mib object ciscoMvpnBgpMdtUpdateRd
<i>ciscoMvpnBgpMdtUpdSrcAddrType-out</i>	(Optional) mib table index ciscoMvpnBgpMdtUpdSrcAddrType
<i>ciscoMvpnBgpMdtUpdateSource-out</i>	(Optional) mib table index ciscoMvpnBgpMdtUpdateSource
<i>ciscoMvpnBgpMdtUpdOrigAddrType</i>	(Optional) mib object ciscoMvpnBgpMdtUpdOrigAddrType
<i>ciscoMvpnBgpMdtUpdateOriginator</i>	(Optional) mib object ciscoMvpnBgpMdtUpdateOriginator
<i>ciscoMvpnBgpMdtUpdNhAddrType</i>	(Optional) mib object ciscoMvpnBgpMdtUpdNhAddrType
<i>ciscoMvpnBgpMdtUpdateNextHop</i>	(Optional) mib object ciscoMvpnBgpMdtUpdateNextHop

Command Mode

- /exec

show mvpn snmp mib mvpnMdtDataTable

```
show mvpn snmp mib mvpnMdtDataTable [ <mplsVpnVrfName-in> ] [ __readonly__
TABLE_ciscoMvpnMdtDataTable <mplsVpnVrfName-out> <ciscoMvpnMdtDataRangeAddrType>
<ciscoMvpnMdtDataRangeAddress> <ciscoMvpnMdtDataWildcardType> <ciscoMvpnMdtDataWildcardBits>
<ciscoMvpnMdtDataThreshold> <ciscoMvpnMdtDataRowStatus> ]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtDataTable	show mib table mvpnMdtDataTable
<i>mplsVpnVrfName-in</i>	(Optional) VRF name
<i>__readonly__</i>	(Optional)
<i>TABLE_ciscoMvpnMdtDataTable</i>	(Optional)
<i>mplsVpnVrfName-out</i>	(Optional) mib table index mplsVpnVrfName
<i>ciscoMvpnMdtDataRangeAddrType</i>	(Optional) mib object ciscoMvpnMdtDefaultAddrType
<i>ciscoMvpnMdtDataRangeAddress</i>	(Optional) mib object ciscoMvpnMdtDataRangeAddress
<i>ciscoMvpnMdtDataWildcardType</i>	(Optional) mib object ciscoMvpnMdtDataWildcardType
<i>ciscoMvpnMdtDataWildcardBits</i>	(Optional) mib object ciscoMvpnMdtDataWildcardBits
<i>ciscoMvpnMdtDataThreshold</i>	(Optional) mib object ciscoMvpnMdtDataThreshold
<i>ciscoMvpnMdtDataRowStatus</i>	(Optional) mib object ciscoMvpnMdtDataRowStatus

Command Mode

- /exec

show mvpn snmp mib mvpnMdtDefaultTable

```
show mvpn snmp mib mvpnMdtDefaultTable [ <mplsVpnVrfName-in> ] [ __readonly__
TABLE_ciscoMvpnMdtDefaultTable <mplsVpnVrfName-out> <ciscoMvpnMdtDefaultAddrType>
<ciscoMvpnMdtDefaultAddress> <ciscoMvpnMdtEncapsType> <ciscoMvpnMdtDefaultRowStatus> ]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtDefaultTable	show mib table ciscoMvpnMdtDefaultTable
<i>mplsVpnVrfName-in</i>	(Optional) mplsVpnVrfName
<i>__readonly__</i>	(Optional)
<i>TABLE_ciscoMvpnMdtDefaultTable</i>	(Optional)
<i>mplsVpnVrfName-out</i>	(Optional) mib table index mplsVpnVrfName
<i>ciscoMvpnMdtDefaultAddrType</i>	(Optional) mib object ciscoMvpnMdtDefaultAddrType
<i>ciscoMvpnMdtDefaultAddress</i>	(Optional) mib object ciscoMvpnMdtDefaultAddress
<i>ciscoMvpnMdtEncapsType</i>	(Optional) mib object ciscoMvpnMdtEncapsType
<i>ciscoMvpnMdtDefaultRowStatus</i>	(Optional) mib object ciscoMvpnMdtDefaultRowStatus

Command Mode

- /exec

show mvpn snmp mib mvpnMdtJnRcvTable

```
show mvpn snmp mib mvpnMdtJnRcv Table [ <mplsVpnVrfName-in> <ciscoMvpnMdtJnRcvGrpAddrType-in>
<ciscoMvpnMdtJnRcvGroup-in> <ciscoMvpnMdtJnRcvSrcAddrType-in> <ciscoMvpnMdtJnRcvSource-in>
] [ __readonly__ TABLE_ciscoMvpnMdtJnRcvTable <mplsVpnVrfName-out>
<ciscoMvpnMdtJnRcvGrpAddrType-out> <ciscoMvpnMdtJnRcvGroup-out>
<ciscoMvpnMdtJnRcvSrcAddrType-out> <ciscoMvpnMdtJnRcvSource-out> <ciscoMvpnMdtJnRcvUpTime>
<ciscoMvpnMdtJnRcvExpTime> ]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtJnRcvTable	show mib table ciscoMvpnMdtJnRcvTable
<i>mplsVpnVrfName-in</i>	(Optional) VRF name
<i>ciscoMvpnMdtJnRcvGrpAddrType-in</i>	(Optional) Data MDT group address type
<i>ciscoMvpnMdtJnRcvGroup-in</i>	(Optional) Data MDT group address in the MDT join TLV
<i>ciscoMvpnMdtJnRcvSrcAddrType-in</i>	(Optional) Source address type
<i>ciscoMvpnMdtJnRcvSource-in</i>	(Optional) Souce address for the MDT mulitcast routing enty created following the receipt of MDT join TLV
<i>__readonly__</i>	(Optional)
TABLE_ciscoMvpnMdtJnRcvTable	(Optional)
<i>mplsVpnVrfName-out</i>	(Optional) mib table index mplsVpnVrfName
<i>ciscoMvpnMdtJnRcvGrpAddrType-out</i>	(Optional) mib table index ciscoMvpnMdtJnRcvGrpAddrType
<i>ciscoMvpnMdtJnRcvGroup-out</i>	(Optional) mib table index ciscoMvpnMdtJnRcvGroup
<i>ciscoMvpnMdtJnRcvSrcAddrType-out</i>	(Optional) mib table index ciscoMvpnMdtJnRcvSrcAddrType
<i>ciscoMvpnMdtJnRcvSource-out</i>	(Optional) mib table index ciscoMvpnMdtJnRcvSource
<i>ciscoMvpnMdtJnRcvUpTime</i>	(Optional) mib object ciscoMvpnMdtJnRcvUpTime
<i>ciscoMvpnMdtJnRcvExpTime</i>	(Optional) mib object ciscoMvpnMdtJnRcvExpTime

Command Mode

- /exec

show mvpn snmp mib mvpnMdtJnSendTable

```
show mvpn snmp mib mvpnMdtJnSendTable [ <mplsVpnVrfName-in>
<ciscoMvpnMdtJnSendGrpAddrType-in> <ciscoMvpnMdtJnSendGroup-in>
<ciscoMvpnMdtJnSendSrcAddrType-in> <ciscoMvpnMdtJnSendSource-in> ] [ __readonly__
TABLE_ ciscoMvpnMdtJnSendTable <mplsVpnVrfName-out> <ciscoMvpnMdtJnSendGrpAddrType-out>
<ciscoMvpnMdtJnSendGroup-out> <ciscoMvpnMdtJnSendSrcAddrType-out>
<ciscoMvpnMdtJnSendSource-out> <ciscoMvpnMdtJnSendMdtGroup> <ciscoMvpnMdtJnSendMdtRefCt>
]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtJnSendTable	show mib table ciscoMvpnMdtJnSendTable
<i>mplsVpnVrfName-in</i>	(Optional) VRF name
<i>ciscoMvpnMdtJnSendGrpAddrType-in</i>	(Optional) Data MDT group address type
<i>ciscoMvpnMdtJnSendGroup-in</i>	(Optional) Data MDT group address in the MDT join TLV
<i>ciscoMvpnMdtJnSendSrcAddrType-in</i>	(Optional) Source address type
<i>ciscoMvpnMdtJnSendSource-in</i>	(Optional) Souce adres for the MDT mulitcast routing enty created following the receipt of MDT join TLV
<i>__readonly__</i>	(Optional)
TABLE_ ciscoMvpnMdtJnSendTable	(Optional)
<i>mplsVpnVrfName-out</i>	(Optional) mib table index mplsVpnVrfName
<i>ciscoMvpnMdtJnSendGrpAddrType-out</i>	(Optional) mib table index ciscoMvpnMdtJnSendGrpAddrType
<i>ciscoMvpnMdtJnSendGroup-out</i>	(Optional) mib table index ciscoMvpnMdtJnSendGroup
<i>ciscoMvpnMdtJnSendSrcAddrType-out</i>	(Optional) mib table index ciscoMvpnMdtJnSendSrcAddrType
<i>ciscoMvpnMdtJnSendSource-out</i>	(Optional) mib table index ciscoMvpnMdtJnSendSource
<i>ciscoMvpnMdtJnSendMdtGroup</i>	(Optional) mib object ciscoMvpnMdtJnSendMdtGroup
<i>ciscoMvpnMdtJnSendMdtRefCt</i>	(Optional) mib object ciscoMvpnMdtJnSendMdtRefCt

Command Mode

- /exec

show mvpn snmp mib mvpnMrouteMdtTable

```
show mvpn snmp mib mvpnMrouteMdtTable [ <mplsVpnVrfName-in>
<ciscoMvpnMrouteMvrfGrpAddrType-in> <ciscoMvpnMrouteMvrfGroup-in>
<ciscoMvpnMrouteMvrfSrcAddrType-in> <ciscoMvpnMrouteMvrfSource-in>
<ciscoMvpnMrouteUpDownStreamInfo-in> ] [ __readonly__ TABLE_ciscoMvpnMrouteMdtTable
<mplsVpnVrfName-out> <ciscoMvpnMrouteMvrfGrpAddrType-out> <ciscoMvpnMrouteMvrfGroup-out>
<ciscoMvpnMrouteMvrfSrcAddrType-out> <ciscoMvpnMrouteMvrfSource-out>
<ciscoMvpnMrouteUpDownStreamInfo-out> <ciscoMvpnMrouteMdtGrpAddrType>
<ciscoMvpnMrouteMdtGroup> <ciscoMvpnMrouteMdtType> ]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMrouteMdtTable	show mib table mvpnMrouteMdtTable
<i>mplsVpnVrfName-in</i>	(Optional) VRF name
<i>ciscoMvpnMrouteMvrfGrpAddrType-in</i>	(Optional) Group address type of multicast routing entry
<i>ciscoMvpnMrouteMvrfGroup-in</i>	(Optional) Group address of multicast routing entry
<i>ciscoMvpnMrouteMvrfSrcAddrType-in</i>	(Optional) Source address type
<i>ciscoMvpnMrouteMvrfSource-in</i>	(Optional) Source address of multicast routing entry
<i>ciscoMvpnMrouteUpDownStreamInfo-in</i>	(Optional) if PE is Upstream or downstream router for the multicast routing entry
<i>__readonly__</i>	(Optional)
<i>TABLE_ciscoMvpnMrouteMdtTable</i>	(Optional)
<i>mplsVpnVrfName-out</i>	(Optional) mib table index mplsVpnVrfName
<i>ciscoMvpnMrouteMvrfGrpAddrType-out</i>	(Optional) mib table index ciscoMvpnMrouteMvrfGrpAddrType
<i>ciscoMvpnMrouteMvrfGroup-out</i>	(Optional) mib table index ciscoMvpnMrouteMvrfGroup
<i>ciscoMvpnMrouteMvrfSrcAddrType-out</i>	(Optional) mib table index ciscoMvpnMrouteMvrfSrcAddrType
<i>ciscoMvpnMrouteMvrfSource-out</i>	(Optional) mib table index ciscoMvpnMrouteMvrfSource
<i>ciscoMvpnMrouteUpDownStreamInfo-out</i>	(Optional) mib table index ciscoMvpnMrouteUpDownStreamInfo
<i>ciscoMvpnMrouteMdtGrpAddrType</i>	(Optional) mib object ciscoMvpnMrouteMdtGrpAddrType
<i>ciscoMvpnMrouteMdtGroup</i>	(Optional) mib object ciscoMvpnMrouteMdtGroup

<i>ciscoMvpnMrouteMdtType</i>	(Optional) mib object ciscoMvpnMrouteMdtType
-------------------------------	--

Command Mode

- /exec

show mvpn snmp mib mvpnMvrfNumber

show mvpn snmp mib mvpnMvrfNumber [__readonly__ <ciscoMvpnMvrfNumber>]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables/scalars
mvpnMvrfNumber	Show number of MVRFs
__readonly__	(Optional) Read Only
<i>ciscoMvpnMvrfNumber</i>	(Optional) mib object ciscoMvpnMvrfNumber

Command Mode

- /exec

show mvpn snmp mib mvpnNotificationEnable

```
show mvpn snmp mib mvpnNotificationEnable [ __readonly__ <ciscoMvpnNotificationEnable> ]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables/scalars
mvpnNotificationEnable	Show value of ciscoMvpnNotificationEnable
__readonly__	(Optional) Read Only
<i>ciscoMvpnNotificationEnable</i>	(Optional) mib object ciscoMvpnNotificationEnable

Command Mode

- /exec

show mvpn snmp mib mvpnTunnelTable

```
show mvpn snmp mib mvpnTunnelTable [ <ifIndex-in> ] [ __readonly__ TABLE_ciscoMvpnTunnelTable
<ifIndex-out> <ciscoMvpnTunnelName> <ciscoMvpnTunnelMvrf> ]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnTunnelTable	show mib table mvpnTunnelTable
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
<i>TABLE_ciscoMvpnTunnelTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>ciscoMvpnTunnelName</i>	(Optional) mib object ciscoMvpnTunnelName
<i>ciscoMvpnTunnelMvrf</i>	(Optional) mib object ciscoMvpnTunnelMvrf

Command Mode

- /exec

show mvr

```
show mvr [ verbose ] [ __readonly__ <mvr-status> <mvr-default-vlan> <number-of-mvr-vlans> [
<mvr-group-list> <cfg-nodes> <interface-cfg-nodes> ] ]
```

Syntax Description

show	Show running system information
mvr	show mvr info
verbose	(Optional) Show in detail
__readonly__	(Optional)
<i>mvr-status</i>	(Optional)
<i>mvr-default-vlan</i>	(Optional)
<i>number-of-mvr-vlans</i>	(Optional)
<i>mvr-group-list</i>	(Optional)
<i>cfg-nodes</i>	(Optional)
<i>interface-cfg-nodes</i>	(Optional)

Command Mode

- /exec

show mvr groups

```
show mvr groups [ __readonly__ [ TABLE_group_list <ip-address> <ip-max-addr> <rn-count-char> <rn-count>
<mvr-vlan-string> <if-name> ] [ [ <interface-name> ] [ <mvr-vlan> ] [ TABLE_mvr_vlan <global-mvr-vlan>
] <mvr-groups> <mvr-receiver-type> <mvr-source-type> ] ]
```

Syntax Description

show	Show running system information
mvr	show mvr info
groups	show mvr groups config
<i>__readonly__</i>	(Optional)
<i>TABLE_group_list</i>	(Optional)
<i>ip-address</i>	(Optional)
<i>ip-max-addr</i>	(Optional)
<i>rn-count-char</i>	(Optional)
<i>rn-count</i>	(Optional)
<i>mvr-vlan-string</i>	(Optional)
<i>if-name</i>	(Optional)
<i>interface-name</i>	(Optional)
<i>mvr-vlan</i>	(Optional)
<i>TABLE_mvr_vlan</i>	(Optional)
<i>global-mvr-vlan</i>	(Optional)
<i>mvr-groups</i>	(Optional)
<i>mvr-receiver-type</i>	(Optional)
<i>mvr-source-type</i>	(Optional)

Command Mode

- /exec

show mvr interface

```
show mvr interface [ <if0> ] [ __readonly__ [ TABLE_if_name <interface-name> <access-vlan> <src-rcvr>
<igmp-mvr-port-status> <mvr-vlan-str> ] ]
```

Syntax Description

show	Show running system information
mvr	show mvr info
interface	show mvr interfaces
<i>if0</i>	(Optional) Interface name
<i>__readonly__</i>	(Optional)
<i>TABLE_if_name</i>	(Optional)
<i>interface-name</i>	(Optional)
<i>access-vlan</i>	(Optional)
<i>src-rcvr</i>	(Optional)
<i>igmp-mvr-port-status</i>	(Optional)
<i>mvr-vlan-str</i>	(Optional)

Command Mode

- /exec

show mvr members

```
show mvr members [ interface <if0> ] [ __readonly__ [ TABLE_mvr_vlan <mvr-vlan> <group> <status> [
TABLE_members_if <if-name> ] ] [ <vlan> <mvr-group> ] ]
```

Syntax Description

show	Show running system information
mvr	show mvr info
members	show active mvr groups
interface	(Optional) show active mvr groups config on interface
<i>if0</i>	(Optional) Interface name
<i>__readonly__</i>	(Optional)
<i>TABLE_mvr_vlan</i>	(Optional)
<i>mvr-vlan</i>	(Optional)
<i>group</i>	(Optional)
<i>status</i>	(Optional)
<i>TABLE_members_if</i>	(Optional)
<i>if-name</i>	(Optional)
<i>vlan</i>	(Optional)
<i>mvr-group</i>	(Optional)

Command Mode

- /exec

show mvr members count

```
show mvr members count [ __readonly__ [ TABLE_mvr_vlan <mvr-vlan> <mvr-members-count> ] ]
```

Syntax Description

show	Show running system information
mvr	show mvr info
members	show active mvr groups
count	Active mvr groups on each mvr-vlan
<i>__readonly__</i>	(Optional)
<i>TABLE_mvr_vlan</i>	(Optional)
<i>mvr-vlan</i>	(Optional)
<i>mvr-members-count</i>	(Optional)

Command Mode

- /exec

show mvr members vlan

```
show mvr members { vlan <vlan-id> } [ __readonly__ [ TABLE_mvr_vlan <mvr-vlan> <grp> <stat> [
TABLE_interface_vlan <interface-name> ] ] ]
```

Syntax Description

show	Show running system information
mvr	show mvr info
members	show active mvr groups
vlan	vlan
<i>vlan-id</i>	Enter MVR Vlan
<i>__readonly__</i>	(Optional)
TABLE_mvr_vlan	(Optional)
<i>mvr-vlan</i>	(Optional)
<i>grp</i>	(Optional)
<i>stat</i>	(Optional)
TABLE_interface_vlan	(Optional)
<i>interface-name</i>	(Optional)

Command Mode

- /exec

show mvr receiver-ports

```
show mvr receiver-ports [ <if0> ] [ __readonly__ [ TABLE_mvr_if_name <mvr-if-name> <mvr-vlan-str>
<igmp-port-status> <rx_reports> <rx_leaves> ] ]
```

Syntax Description

show	Show running system information
mvr	show mvr info
receiver-ports	List MVR receiver ports
<i>if0</i>	(Optional) Interface name
<i>__readonly__</i>	(Optional)
<i>TABLE_mvr_if_name</i>	(Optional)
<i>mvr-if-name</i>	(Optional)
<i>mvr-vlan-str</i>	(Optional)
<i>igmp-port-status</i>	(Optional)
<i>rx_reports</i>	(Optional)
<i>rx_leaves</i>	(Optional)

Command Mode

- /exec

show mvr source-ports

```
show mvr source-ports [ <if0> ] [ __readonly__ [ TABLE_mvr_if_name <mvr-if-name> <interface-name>
<igmp-port-status> ] ]
```

Syntax Description

show	Show running system information
mvr	show mvr info
source-ports	List MVR source ports
<i>if0</i>	(Optional) Interface name
<i>__readonly__</i>	(Optional)
<i>TABLE_mvr_if_name</i>	(Optional)
<i>mvr-if-name</i>	(Optional)
<i>interface-name</i>	(Optional)
<i>igmp-port-status</i>	(Optional)

Command Mode

- /exec



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show nbm controller

show nbm controller

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
controller	Controller mode information

Command Mode

- /exec

show nbm flows

```
show nbm flows [ all | group-based | m-group <group-ip-id> | [ source <source-ip> [ group <group-ip> ] |
group <group-ip> [ source <source-ip> ] ] [ active | inactive | no-receiver | detail ] [ interface <if-name> ]
```

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM flows
active	(Optional) Active flows
inactive	(Optional) Inactive flows
no-receiver	(Optional) Flows without any receiver
all	(Optional) Both active and deleted flows
group-based	(Optional) Multicast group based (*,G) flows to IGMP receivers
m-group	(Optional) Multicast group
<i>group-ip-id</i>	(Optional) Multicast group address
source	(Optional) Source ip of sender
<i>source-ip</i>	(Optional) Sender ip address
group	(Optional) Multicast group
<i>group-ip</i>	(Optional) Multicast group address
interface	(Optional) Ingress port
detail	(Optional) Detailed output
<i>if-name</i>	(Optional) Interface name

Command Mode

- /exec

show nbm flows bandwidth

show nbm flows bandwidth

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM flows
bandwidth	Per Flow Bandwidth in Mbps

Command Mode

- /exec

show nbm flows statistics

show nbm flows statistics [group-based | m-group <group-ip-id>] [interface <if-name>]

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM flows
statistics	Flow statistics
group-based	(Optional) Multicast group based (*,G) flows to IGMP receivers
m-group	(Optional) Multicast group
<i>group-ip-id</i>	(Optional) Multicast group address
interface	(Optional) Ingress port
<i>if-name</i>	(Optional) Interface name

Command Mode

- /exec

show ngoam acl status

```
show ngoam acl status [ __readonly__ [ LIST_bds { <bd-id> } ] <end-row> <top-line> ]
```

Syntax Description

show	Show running system information
ngoam	ngoam
acl	Show acl info
status	Show acl install status
<i>__readonly__</i>	(Optional) Read Only
<i>LIST_bds</i>	(Optional) List of all bds acls is installed on
<i>bd-id</i>	(Optional) Bridge-Domain identifier
<i>end-row</i>	(Optional) Carriage return
<i>top-line</i>	(Optional) Placeholder for printing the headline

Command Mode

- /exec

show ngoam actsessions

show ngoam actsessions

Syntax Description

show	Show running system information
ngoam	ngoam information
actsessions	show

Command Mode

- /exec

show ngoam loopback

```
show ngoam loopback { { statistics { session { <handle> | all } | summary } } | { status { session { <handle>
| all } } } } [ __readonly__ [ TABLE_statistics { <sender-handle> <last-clear-stats> { <stat-attr> <stat-value>
} + } + ] [ TABLE_status { <st-sender-handle> <type> <state> } + ] [ TABLE_statistics_summary {
<last-clear-summary-stats> <tx> <rx> <timeout> <unsent> <resp-tx> <resp-rx> <resp-unsent> <resp-dup>
} ] ]
```

Syntax Description

show	Show running system information
ngoam	ngoam
loopback	ngoam loopback
statistics	ngoam loopback statistics
summary	ngoam loopback statistics summary
status	ngoam loopback status
session	ngoam loopback session
session	ngoam loopback session
<i>handle</i>	ngoam loopback session handle
<i>handle</i>	ngoam loopback session handle
all	Display results for all ping/loopback sessions
all	Display results for all ping/loopback sessions
TABLE_statistics	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>last-clear-stats</i>	(Optional) last clear time for statistics
<i>stat-attr</i>	(Optional) stats type
<i>stat-value</i>	(Optional) stats value
TABLE_statistics_summary	(Optional) statistics summary table
<i>last-clear-summary-stats</i>	(Optional) last clear time for summary statistics
<i>tx</i>	(Optional) summary request sent
<i>rx</i>	(Optional) summary reply received
<i>timeout</i>	(Optional) summary timeout
<i>unsent</i>	(Optional) summary unsent

<i>resp-tx</i>	(Optional) summary resp tx
<i>resp-rx</i>	(Optional) summary resp rx
<i>resp-unsent</i>	(Optional) summary resp unsent
<i>resp-dup</i>	(Optional) Duplicate responses received
TABLE_status	(Optional) database status table
<i>st-sender-handle</i>	(Optional) sender handle
<i>type</i>	(Optional) ngoam ping type
<i>state</i>	(Optional) ngoam ping state
__readonly__	(Optional) Read Only

Command Mode

- /exec

show ngoam pathtrace

```
show ngoam pathtrace { { statistics { summary | { session { <handle> | all } } } | { database session {
<handle> | all } [ detail ] } } [ __readonly__ [ TABLE_stats { <sender-handle> <last-clear-stats> { <stat-attr>
<stat-value> } + } + ] [ TABLE_summary { <last-clear-summary-stats> <tx> <rx> <timeout> <unsent>
<resp-tx> <resp-rx> <resp-unsent> <resp-dup> } ] [ TABLE_database { <db-sender-handle> <db-start-time>
<db-end-time> <db-last-clear-stats> <db-tx> <db-rx> <db-timeout> <db-unsent> <db-resp-tx> <db-resp-rx>
<db-resp-unsent> <db-resp-dup> { <seq-number> <cli-status> [ <reply-ip> ] [ <reply-ipv6> ] [ <ingress-if>
] [ <ingress-if-state> ] [ <egress-if> ] [ <egress-if-state> ] [ <end-row> ] + } + } + ] [ TABLE_ifstats {
<if-name> <rx-len> <rx-bytes> <rx-pkt-rate> <rx-byte-rate> <rx-load> <rx-ucast> <rx-mcast> <rx-bcast>
<rx-errors> <rx-discards> <rx-unknown> <rx-bandwidth> <tx-len> <tx-bytes> <tx-pkt-rate> <tx-byte-rate>
<tx-load> <tx-ucast> <tx-mcast> <tx-bcast> <tx-discards> <tx-errors> <tx-bandwidth> } ] ]
```

Syntax Description

show	Show running system information
ngoam	ngoam
pathtrace	ngoam pathtrace
statistics	ngoam pathtrace statistics
<i>end-row</i>	(Optional) Row end
summary	ngoam pathtrace statistics summary
session	ngoam pathtrace session
<i>handle</i>	ngoam pathtrace session handle
all	Display results for all pathtrace sessions
database	ngoam pathtrace results from the database
session	ngoam pathtrace session
all	Display results for all pathtrace sessions
<i>handle</i>	ngoam pathtrace session handle
detail	(Optional) Show detailed stats if present
TABLE_stats	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>last-clear-stats</i>	(Optional) last clear time for statistics
<i>stat-attr</i>	(Optional) stats type
<i>stat-value</i>	(Optional) stats value
TABLE_summary	(Optional) statistics summary table

<i>last-clear-summary-stats</i>	(Optional) last clear time for summary statistics
<i>tx</i>	(Optional) summary request sent
<i>rx</i>	(Optional) summary reply received
<i>timeout</i>	(Optional) summary timeout
<i>unsent</i>	(Optional) summary unsent
<i>resp-tx</i>	(Optional) summary resp tx
<i>resp-rx</i>	(Optional) summary resp rx
<i>resp-unsent</i>	(Optional) summary resp unsent
<i>resp-dup</i>	(Optional) Duplicate responses received
TABLE_database	(Optional) pathtrace database
<i>seq-number</i>	(Optional) Sequence number
<i>cli-status</i>	(Optional) ngoam pathtrace status
<i>ingress-if</i>	(Optional) Ingress interface
<i>egress-if</i>	(Optional) Egress interface
<i>ingress-if-state</i>	(Optional) Ingress interface state
<i>egress-if-state</i>	(Optional) Egress interface state
<i>reply-ip</i>	(Optional) ngoam pathtrace reply ip
<i>db-sender-handle</i>	(Optional) Sender handle
<i>db-start-time</i>	(Optional) Start time
<i>db-end-time</i>	(Optional) End time
<i>db-last-clear-stats</i>	(Optional) Last clear stats
<i>db-tx</i>	(Optional) Tx packets
<i>db-rx</i>	(Optional) Rx packets
<i>db-timeout</i>	(Optional) Timeout
<i>db-unsent</i>	(Optional) Unsent
<i>db-resp-tx</i>	(Optional) Response tx
<i>db-resp-rx</i>	(Optional) Response Rx
<i>db-resp-unsent</i>	(Optional) Response unsent
<i>db-resp-dup</i>	(Optional) Duplicate response recvd

TABLE_ifstats	(Optional) Interface statistics
<i>if-name</i>	(Optional) Interface name
<i>rx-len</i>	(Optional) Rx Length
<i>rx-bytes</i>	(Optional) Rx Bytes
<i>rx-pkt-rate</i>	(Optional) Rx packet rate
<i>rx-byte-rate</i>	(Optional) Rx byte rate
<i>rx-load</i>	(Optional) Rx load
<i>rx-ucast</i>	(Optional) Rx unicast pkts
<i>rx-mcast</i>	(Optional) Rx mcast pkts
<i>rx-bcast</i>	(Optional) Rx bcast pkts
<i>rx-discards</i>	(Optional) Rx discards
<i>rx-errors</i>	(Optional) Rx errors
<i>rx-unknown</i>	(Optional) Rx unknown
<i>rx-bandwidth</i>	(Optional) Rx bandwidth
<i>tx-len</i>	(Optional) Tx Length
<i>tx-bytes</i>	(Optional) Tx Bytes
<i>tx-pkt-rate</i>	(Optional) Tx packet rate
<i>tx-byte-rate</i>	(Optional) Tx byte rate
<i>tx-load</i>	(Optional) Tx load
<i>tx-ucast</i>	(Optional) Tx unicast pkts
<i>tx-mcast</i>	(Optional) Tx mcast pkts
<i>tx-bcast</i>	(Optional) Tx bcast pkts
<i>tx-discards</i>	(Optional) Tx discards
<i>tx-errors</i>	(Optional) Tx unknown
<i>tx-bandwidth</i>	(Optional) Tx bandwidth
<u>__readonly__</u>	(Optional) Read Only

Command Mode

- /exec

show ngoam traceroute statistics

```
show ngoam traceroute statistics { summary | { session { <handle> | all } } } [ __readonly__ [ TABLE_stats
{ <sender-handle> <last-clear-stats> { <stat-attr> <stat-value> } + } + ] [ TABLE_summary {
<last-clear-summary-stats> <tx> <rx> <timeout> <unsent> <resp-tx> <resp-rx> <resp-unsent> <resp-dup>
} ] ]
```

Syntax Description

show	Show running system information
ngoam	ngoam
traceroute	ngoam traceroute
statistics	ngoam traceroute statistics
summary	ngoam traceroute statistics summary
session	ngoam traceroute session
<i>handle</i>	ngoam traceroute session handle
all	Display results for all traceroute sessions
TABLE_stats	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>last-clear-stats</i>	(Optional) last clear time for statistics
<i>stat-attr</i>	(Optional) stats type
<i>stat-value</i>	(Optional) stats value
TABLE_summary	(Optional) statistics summary table
<i>last-clear-summary-stats</i>	(Optional) last clear time for summary statistics
<i>tx</i>	(Optional) summary request sent
<i>rx</i>	(Optional) summary reply received
<i>timeout</i>	(Optional) summary timeout
<i>unsent</i>	(Optional) summary unsent
<i>resp-tx</i>	(Optional) summary resp tx
<i>resp-rx</i>	(Optional) summary resp rx
<i>resp-unsent</i>	(Optional) summary resp unsent
<i>resp-dup</i>	(Optional) Duplicate responses received

__readonly__	(Optional) Read Only
--------------	----------------------

Command Mode

- /exec

show ntp access-groups

```
show ntp access-groups [ __readonly__ [ <matchall> ] [ { TABLE_accessgroups <accesslist> [ <type> } ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
access-groups	Display NTP access groups
__readonly__	(Optional)
<i>matchall</i>	(Optional) matchall
TABLE_accessgroups	(Optional) accessgroups
<i>accesslist</i>	(Optional) accesslist
<i>type</i>	(Optional) type

Command Mode

- /exec

show ntp authentication-keys

```
show ntp authentication-keys [ __readonly__ [ { TABLE_authkeys <Authkey> [ <MD5String> } ] ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
authentication-keys	Display authentication keys
__readonly__	(Optional)
TABLE_authkeys	(Optional) authentication keys
<i>Authkey</i>	(Optional) authentication key
<i>MD5String</i>	(Optional) password

Command Mode

- /exec

show ntp authentication-status

```
show ntp authentication-status [ __readonly__ [ <authentication> ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
authentication-status	NTP Authentication Status
__readonly__	(Optional)
<i>authentication</i>	(Optional) authentication enabled/disabled

Command Mode

- /exec

show ntp information

```
show ntp information [ __readonly__ [ <system_type> ] [ <software_version> ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
information	Show ntp information
<i>__readonly__</i>	(Optional)
<i>system_type</i>	(Optional) Ntp System Type
<i>software_version</i>	(Optional) Ntp Software Version

Command Mode

- /exec

show ntp logging-status

```
show ntp logging-status [ __readonly__ [ <loggingstatus> ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
logging-status	Display NTP logging status
__readonly__	(Optional)
<i>loggingstatus</i>	(Optional) logging enabled/disabled

Command Mode

- /exec

show ntp peer-status

```
show ntp peer-status [ __readonly__ [ <totalpeers> ] [ { TABLE_peersstatus <syncmode> <remote> <local>
<st> <poll> <reach> <delay> [ <vrf> } } ] ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
peer-status	Show the status for all the server/peers
<i>__readonly__</i>	(Optional)
<i>totalpeers</i>	(Optional) totalpeers
TABLE_peersstatus	(Optional) peersstatus
<i>syncmode</i>	(Optional) peermode
<i>remote</i>	(Optional) remote addr
<i>local</i>	(Optional) local addr
<i>st</i>	(Optional) stratum
<i>poll</i>	(Optional) ntp poll
<i>reach</i>	(Optional) reach
<i>delay</i>	(Optional) delay
<i>vrf</i>	(Optional) vrf name

Command Mode

- /exec

show ntp peers

```
show ntp peers [ __readonly__ [ { TABLE_peers <PeerIPAddress> <serv_peer> <conf_flag> } ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
peers	Show all the peers.
__readonly__	(Optional)
TABLE_peers	(Optional) peers
<i>PeerIPAddress</i>	(Optional) peer Ip addr
<i>serv_peer</i>	(Optional) server or peer
<i>conf_flag</i>	(Optional) configured or dynamic

Command Mode

- /exec

show ntp rts-update

```
show ntp rts-update [ __readonly__ [ <rtsupdate> ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
rts-update	Show if the RTS update is enabled
__readonly__	(Optional)
<i>rtsupdate</i>	(Optional) rts update enabled/disabled

Command Mode

- /exec

show ntp session status

```
show ntp session status [ __readonly__ [ <session_status> ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
session	Show the session information
status	Show the session status
<i>__readonly__</i>	(Optional)
<i>session_status</i>	(Optional) last session status

Command Mode

- /exec

show ntp source-interface

```
show ntp source-interface [ __readonly__ [ <sourceinterface> ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
source-interface	Source interface configured
__readonly__	(Optional)
<i>sourceinterface</i>	(Optional) source interface

Command Mode

- /exec

show ntp source

```
show ntp source [ __readonly__ [ <sourceip> ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
source	Source IP address configured
__readonly__	(Optional)
<i>sourceip</i>	(Optional) source ip addr

Command Mode

- /exec

show ntp statistics

```
show ntp statistics { [ io ] | [ local ] | [ memory ] | peer { ipaddr { <ipv4_0> | <ipv6_1> } | name <s0> } } [
__readonly__ [ { <iotimesincereset> <ioreceivebuffers> <iofreereceivebuffers> <iousedreceivebuffers>
<iolowwaterrefills> <iodroppedpackets> <ioignoredpackets> <ioreceivedpackets> <iopacketsent>
<iopacketsnotsent> <iointerruptshandled> <ioreceivedbyint> } ] [ { <localsystemuptime> <localtimesincereset>
<localoldversionpackets> <localnewversionpackets> <localunknownversionnumber> <localbadpacketformat>
<localpacketsprocessed> <localbadauthentication> [ <localpacketsrejected> ] } ] [ { <memtimesincereset>
<memtotalpeermemory> <memfreepeermemory> <memcallstofindpeer> <memnewpeerallocations>
<mempeerdemobilizations> <memhashtablecounts> } ] [ { <peeripremotehost> <peeriplocalinterface>
<peeriptimelastreceived> <peeriptimeuntilnextsend> <peeripreachabilitychange> <peerippacketsent>
<peerippacketsreceived> <peeripbadauthentication> <peeripbogusorigin> <peeripduplicate>
<peeripbaddispersion> <peeripbadreferencetime> <peeripcandidateorder> } ] [ { <peernameremotehost>
<peernamelocalinterface> <peernametimelastreceived> <peernametimeuntilnextsend>
<peernamereachabilitychange> <peernamepacketsent> <peernamepacketsreceived>
<peernamebadauthentication> <peernamebogusorigin> <peernameduplicate> <peernameduplicate>
<peernamebaddispersion> <peernamebadreferencetime> <peernamecandidateorder> } ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
statistics	Show the NTP statistics
io	(Optional) Show the input-output statistics.
local	(Optional) Show the counters maintained by the local NTP.
memory	(Optional) Show the statistics counters related to memory code.
peer	Show the per-peer statistics counter of a peer.
ipaddr	Peer's IP address
<i>ipv4_0</i>	
name	Peer's Name
<i>s0</i>	
__readonly__	(Optional)
<i>iotimesincereset</i>	(Optional) time since reset
<i>ioreceivebuffers</i>	(Optional) receive buffers
<i>iofreereceivebuffers</i>	(Optional) free receive buffers
<i>iousedreceivebuffers</i>	(Optional) used receive buffers
<i>iolowwaterrefills</i>	(Optional) low water refills

<i>iodroppedpackets</i>	(Optional) dropped packets
<i>ioignoredpackets</i>	(Optional) ignored packets
<i>ioreceivedpackets</i>	(Optional) received packets
<i>iopacketsent</i>	(Optional) packets sent
<i>iopacketsnotsent</i>	(Optional) packets not sent
<i>iointerruptshandled</i>	(Optional) interrupts handled
<i>ioreceivedbyint</i>	(Optional) received by int
<i>localsystemuptime</i>	(Optional) system up time
<i>localtimesincereset</i>	(Optional) time since reset
<i>localoldversionpackets</i>	(Optional) old version packets
<i>localnewversionpackets</i>	(Optional) new version packets
<i>localunknownversionnumber</i>	(Optional) unknown version number
<i>localbadpacketformat</i>	(Optional) bad packet format
<i>localpacketsprocessed</i>	(Optional) packets processed
<i>localbadauthentication</i>	(Optional) bad authentication
<i>localpacketsrejected</i>	(Optional) packets rejected
<i>memtimesincereset</i>	(Optional) time since reset
<i>memtotalpeermemory</i>	(Optional) total peer memory
<i>memfreepeermemory</i>	(Optional) free peer memory
<i>memcallstofindpeer</i>	(Optional) calls to find peer
<i>memnewpeerallocations</i>	(Optional) new peer allocations
<i>mempeerdemobilizations</i>	(Optional) peer demobilizations
<i>memhashtablecounts</i>	(Optional) hash table counts
<i>peeripremotehost</i>	(Optional) peeripremotehost
<i>peeriplocalinterface</i>	(Optional) peeriplocalinterface
<i>peeriptimelastreceived</i>	(Optional) peeriptimelastreceived
<i>peeriptimeuntilnextsend</i>	(Optional) peeriptimeuntilnextsend
<i>peeripreachabilitychange</i>	(Optional) peeripreachabilitychange
<i>peerippacketsent</i>	(Optional) peerippacketsent

<i>peerippacketsreceived</i>	(Optional) peerippacketsreceived
<i>peeripbadauthentication</i>	(Optional) peeripbadauthentication
<i>peeripbogusorigin</i>	(Optional) peeripbogusorigin
<i>peeripduplicate</i>	(Optional) peeripduplicate
<i>peeripbaddispersion</i>	(Optional) peeripbaddispersion
<i>peeripbadreferencetime</i>	(Optional) peeripbadreferencetime
<i>peeripcandidateorder</i>	(Optional) peeripcandidateorder
<i>peername remotehost</i>	(Optional) peername remotehost
<i>peername localinterface</i>	(Optional) peername localinterface
<i>peername timelastreceived</i>	(Optional) peername timelastreceived
<i>peername timeuntilnextsend</i>	(Optional) peername timeuntilnextsend
<i>peername reachabilitychange</i>	(Optional) peername reachabilitychange
<i>peername packets sent</i>	(Optional) peername packets sent
<i>peername packets received</i>	(Optional) peername packets received
<i>peername badauthentication</i>	(Optional) peername badauthentication
<i>peername bogusorigin</i>	(Optional) peername bogusorigin
<i>peername duplicate</i>	(Optional) peername duplicate
<i>peername baddispersion</i>	(Optional) peername baddispersion
<i>peername badreferencetime</i>	(Optional) peername badreferencetime
<i>peername candidateorder</i>	(Optional) peername candidateorder

Command Mode

- /exec

show ntp status

```
show ntp status [ __readonly__ [ <distribution> ] [ <operational_state> ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
status	Show the NTP distribution status
<i>__readonly__</i>	(Optional)
<i>distribution</i>	(Optional) distribution enabled/disabled
<i>operational_state</i>	(Optional) last operation status

Command Mode

- /exec

show ntp trusted-keys

```
show ntp trusted-keys [ __readonly__ [ { TABLE_trustkeys <key> } ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
trusted-keys	Display trusted keys
__readonly__	(Optional)
TABLE_trustkeys	(Optional) trusted keys
<i>key</i>	(Optional) trusted key

Command Mode

- /exec

show nve bfd neighbors

```
show nve bfd neighbors [ __readonly__ [ TABLE_nve_bfd_neighbors <if-name> [ { <neighbor-vtep-ip>
<neighbor-inner-ip> <neighbor-inner-mac> <neighbor-cc-state> } ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
bfd	BFD
neighbors	neighbors
<i>__readonly__</i>	(Optional)
<i>TABLE_nve_bfd_neighbors</i>	(Optional) BFD neighbors schema
<i>if-name</i>	(Optional) if-name
<i>neighbor-vtep-ip</i>	(Optional) Remote VTEP IP address
<i>neighbor-inner-ip</i>	(Optional) Remote VTEP Inner IP address
<i>neighbor-inner-mac</i>	(Optional) Remote VTEP Inner MAC address
<i>neighbor-cc-state</i>	(Optional) Remote VTEP vPC consistency check state

Command Mode

- /exec

show nve core-links

```
show nve core-links [ __readonly__ [ TABLE_core_link <if-name> <if-state> ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
core-links	Core-links
__readonly__	(Optional)
TABLE_core_link	(Optional) xml schema for show nve core-links
<i>if-name</i>	(Optional) core-link interface name
<i>if-state</i>	(Optional) core-link interface oper state

Command Mode

- /exec

show nve ethernet-segment

```
show nve ethernet-segment [ summary ] [ { esi <esi-id> } ] [ __readonly__ [ TABLE_es <esi> <if-name>
<es-state> <po-state> <nve-if-name> <nve-state> <host-reach-mode> <active-vlans> <df-vlans> <active-vnis>
<cc-failed-vlans> <cc-timer-left> <num-es-mem> <local-ordinal> <df-timer-st> <config-status> <df-list>
<es-rt-added> <ead-rt-added> <ead-evi-rt-timer-age> ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
ethernet-segment	Ethernet-segment
summary	(Optional) Ethernet-segment summary
esi	(Optional) ESI Value
<i>esi-id</i>	(Optional) ESI ID
<i>__readonly__</i>	(Optional)
TABLE_es	(Optional) xml schema for show nve ethernet-segment
<i>esi</i>	(Optional) ESI value
<i>if-name</i>	(Optional) port-channel interface name
<i>es-state</i>	(Optional) Ethernet-segment oper state
<i>po-state</i>	(Optional) port-channel interface oper state
<i>nve-if-name</i>	(Optional) NVE interface name
<i>nve-state</i>	(Optional) NVE oper state
<i>host-reach-mode</i>	(Optional) host reach mode
<i>active-vlans</i>	(Optional) Active vlans on ES
<i>df-vlans</i>	(Optional) DF-vlans on ES
<i>active-vnis</i>	(Optional) Active VNIs on ES
<i>cc-failed-vlans</i>	(Optional) Vlans for which consistency check failed
<i>cc-timer-left</i>	(Optional) vlan CC timer status
<i>num-es-mem</i>	(Optional) number of es members
<i>local-ordinal</i>	(Optional) local-ordinal
<i>df-timer-st</i>	(Optional) df election start timer

<i>config-status</i>	(Optional) config state
<i>df-list</i>	(Optional) List of router-ips in DF list
<i>es-rt-added</i>	(Optional) ES route added to L2RIB
<i>ead-rt-added</i>	(Optional) EAD routes added to L2RIB
<i>ead-evi-rt-timer-age</i>	(Optional) EAD/EVI route advertisement timer age

Command Mode

- /exec

show nve interface

```
show nve interface [ <nve-if> [ detail ] ] [ __readonly__ [ TABLE_nve_if { <if-name> <if-state> <encap-type>
<vpc-capability> <local-rmac> <host-reach-mode> <source-if> <primary-ip> <secondary-ip> [ { <src-if-state>
<nve-flags> <nve-if-handle> <src-if-holddown-tm> <src-if-holdup-tm> <src-if-holddown-left> [
<es-delay-restore-time> <es-delay-restore-time-left> ] <src-intf-last-reinit-notify-type> } } ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
interface	Interface
<i>nve-if</i>	(Optional) NVE interface
detail	(Optional) Detailed information
<code>__readonly__</code>	(Optional)
TABLE_nve_if	(Optional) xml schema for show nve interfaces
<i>if-name</i>	(Optional) interface name
<i>if-state</i>	(Optional) interface oper state
<i>encap-type</i>	(Optional) encap-type
<i>source-if</i>	(Optional) source-interface
<i>primary-ip</i>	(Optional) primary-ip
<i>secondary-ip</i>	(Optional) secondary-ip
<i>src-if-state</i>	(Optional) source-interface state
<i>nve-flags</i>	(Optional) nve-flags
<i>nve-if-handle</i>	(Optional) interface handle
<i>vpc-capability</i>	(Optional) vpc capability
<i>local-rmac</i>	(Optional) local router mac
<i>host-reach-mode</i>	(Optional) host reach mode
<i>src-if-holddown-tm</i>	(Optional) hold down time
<i>src-if-holdup-tm</i>	(Optional) hold up time
<i>src-if-holddown-left</i>	(Optional) hold down time left
<i>es-delay-restore-time</i>	(Optional) es delay restore time

<i>es-delay-restore-time-left</i>	(Optional) es delay restore time left
<i>src-intf-last-reinit-notify-type</i>	(Optional) Src-Intf last notify type

Command Mode

- /exec

show nve peers

```
show nve peers [ [ interface <nve-if> | peer-ip <user-peer-ip> | control-plane | data-plane ] [ detail ] ] [ [ control-plane-vni [ vni <vni-id> | peer-ip <user-peer-ip> ] ] [ controller ] ] [ __readonly__ TABLE_nve_peers [ [ <if-name> ] [ <peer-ip> ] [ <peer-state> ] [ <learn-type> ] [ <uptime> ] [ <router-mac> ] [ { <first-vni> <create-ts> <config-vnis> <provision-state> <route-update> <peer-flags> <cp-vni> <peer-ifindex-resp> } ] [ { <vni> <learn-src> <vni-gw-mac> } ] ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
peers	Show peers
interface	(Optional) Interface
<i>nve-if</i>	(Optional) NVE interface
detail	(Optional) Detailed information
peer-ip	(Optional) Show a specific peer
<i>user-peer-ip</i>	(Optional) Remote Peer IP address
control-plane	(Optional) Show peers learned via control plane
data-plane	(Optional) Show peers learned via data plane
control-plane-vni	(Optional) Show details of control plane vnis
vni	(Optional) VNI ID
<i>vni-id</i>	(Optional) Virtual Network Identifier
controller	(Optional) Show peers configured by controller
__readonly__	(Optional)
TABLE_nve_peers	(Optional) schema peer
<i>if-name</i>	(Optional) if-name
<i>peer-ip</i>	(Optional) peer-ip
<i>peer-state</i>	(Optional) peer-state
<i>learn-type</i>	(Optional) learn-type
<i>uptime</i>	(Optional) uptime
<i>first-vni</i>	(Optional) first-vni
<i>config-vnis</i>	(Optional) config-vnis

<i>provision-state</i>	(Optional) provision-state
<i>route-update</i>	(Optional) route-update
<i>peer-flags</i>	(Optional) peer-flags
<i>cp-vni</i>	(Optional) cp-vni
<i>peer-ifindex-resp</i>	(Optional) peer-ifindex-resp
<i>create-ts</i>	(Optional) create-timestamp
<i>router-mac</i>	(Optional) router-mac
<i>vni</i>	(Optional) vni value
<i>learn-src</i>	(Optional) learn source
<i>vni-gw-mac</i>	(Optional) vni gateway mac

Command Mode

- /exec

show nve peers interface counters

```
show nve peers <addr> interface <nve-if>counters [ __readonly__ <peer-ip> <tx_ucastpkts> <tx_ucastbytes>
<tx_mcastpkts> <tx_mcastbytes> <rx_ucastpkts> <rx_ucastbytes> <rx_mcastpkts> <rx_mcastbytes> ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
peers	NVE Peer
<i>addr</i>	Remote Peer IP Address
interface	Interface
<i>__readonly__</i>	(Optional)
<i>peer-ip</i>	(Optional)
<i>tx_ucastpkts</i>	(Optional)
<i>tx_ucastbytes</i>	(Optional)
<i>tx_mcastpkts</i>	(Optional)
<i>tx_mcastbytes</i>	(Optional)
<i>rx_ucastpkts</i>	(Optional)
<i>rx_ucastbytes</i>	(Optional)
<i>rx_mcastpkts</i>	(Optional)
<i>rx_mcastbytes</i>	(Optional)

Command Mode

- /exec

show nve peers vni interface counters

```
show nve peers { <addr> | all } vni { <vni-id> | all } interface <nve-if>counters [ __readonly__
TABLE_nve_peer_vni_counters <peer-ip> <vni> <tx_ucastpkts> <tx_ucastbytes> <tx_mcastpkts>
<tx_mcastbytes> <rx_ucastpkts> <rx_ucastbytes> <rx_mcastpkts> <rx_mcastbytes> ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
peers	NVE Peer
<i>addr</i>	Remote Peer IP Address
all	Show counters for all peers/VNIs
vni	Virtual Network Identifier
<i>vni-id</i>	Virtual Network Identifier
interface	Interface
<i>__readonly__</i>	(Optional)
TABLE_nve_peer_vni_counters	(Optional)
<i>peer-ip</i>	(Optional)
<i>vni</i>	(Optional)
<i>tx_ucastpkts</i>	(Optional)
<i>tx_ucastbytes</i>	(Optional)
<i>tx_mcastpkts</i>	(Optional)
<i>tx_mcastbytes</i>	(Optional)
<i>rx_ucastpkts</i>	(Optional)
<i>rx_ucastbytes</i>	(Optional)
<i>rx_mcastpkts</i>	(Optional)
<i>rx_mcastbytes</i>	(Optional)

Command Mode

- /exec

show nve replication-servers

```
show nve replication-servers [ __readonly__ [ TABLE_nve_replication_servers <if-name> [ { <server-ip>
<server-state> <server-ready> } ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
replication-servers	replication-servers
<i>__readonly__</i>	(Optional)
TABLE_nve_replication_servers	(Optional) replication servers schema
<i>if-name</i>	(Optional) if-name
<i>server-ip</i>	(Optional) Server IP address
<i>server-state</i>	(Optional) Server reachability state
<i>server-ready</i>	(Optional) Server ready state

Command Mode

- /exec

show nve vni

```
show nve vni [ { { interface <nve-if> | <vni-id> } [ detail ] } | control-plane | data-plane | summary | controller
] [ __readonly__ [ TABLE_nve_vni [ <if-name> <vni> <mcast> <vni-state> <mode> <type> <flags> [ {
<prvsn-state> <vlan-bd> <svi-state> <cp-submode> } ] ] [ { <cp-vni-count> <cp-vni-up> <cp-vni-down>
<dp-vni-count> <dp-vni-up> <dp-vni-down> } ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
vni	Virtual Network Identifier
<i>vni-id</i>	(Optional) Virtual Network Identifier
interface	(Optional) Interface
<i>nve-if</i>	(Optional) NVE interface
detail	(Optional) Detailed information
control-plane	(Optional) show vni learned via BGP
data-plane	(Optional) show vni learned via data plane
summary	(Optional) show vni summary
controller	(Optional) show vni configured by controller
__readonly__	(Optional)
TABLE_nve_vni	(Optional) vni schema
<i>if-name</i>	(Optional) if-name
<i>vni</i>	(Optional) vni
<i>mcast</i>	(Optional) mcast
<i>vni-state</i>	(Optional) vni-state
<i>mode</i>	(Optional) vni-mode
<i>type</i>	(Optional) vni-type
<i>flags</i>	(Optional) vni-flags
<i>prvsn-state</i>	(Optional) provision-state
<i>vlan-bd</i>	(Optional) vlan-bd
<i>svi-state</i>	(Optional) svi-state

<i>cp-submode</i>	(Optional) CP-submode
<i>cp-vni-count</i>	(Optional) CP vni count
<i>cp-vni-up</i>	(Optional) CP vni up count
<i>cp-vni-down</i>	(Optional) CP vni down count
<i>dp-vni-count</i>	(Optional) DP vni count
<i>dp-vni-up</i>	(Optional) DP vni up count
<i>dp-vni-down</i>	(Optional) DP vni down count

Command Mode

- /exec

show nve vni counters

```
show nve vni <vni-id> counters [ __readonly__ <vni> <tx_ucastpkts> <tx_ucastbytes> <tx_mcastpkts>
<tx_mcastbytes> <rx_ucastpkts> <rx_ucastbytes> <rx_mcastpkts> <rx_mcastbytes> ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
vni	Virtual Network Identifier
<i>vni-id</i>	Virtual Network Identifier
counters	Counters
<i>__readonly__</i>	(Optional)
<i>vni</i>	(Optional)
<i>tx_ucastpkts</i>	(Optional)
<i>tx_ucastbytes</i>	(Optional)
<i>tx_mcastpkts</i>	(Optional)
<i>tx_mcastbytes</i>	(Optional)
<i>rx_ucastpkts</i>	(Optional)
<i>rx_ucastbytes</i>	(Optional)
<i>rx_mcastpkts</i>	(Optional)
<i>rx_mcastbytes</i>	(Optional)

Command Mode

- /exec

show nve vni ingress-replication

```
show nve vni ingress-replication [ { interface <nve-if> | <vni-id> } ] [ __readonly__ [
TABLE_nve_vni_ingr_repl <if-name> <vni> [ { <repl-ip> <source> <up-time> } ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
vni	Virtual Network Identifier
ingress-replication	ingress-replication
<i>vni-id</i>	(Optional) Virtual Network Identifier
interface	(Optional) Interface
<i>nve-if</i>	(Optional) NVE interface
<i>__readonly__</i>	(Optional)
TABLE_nve_vni_ingr_repl	(Optional) vni ingress repl schema
<i>if-name</i>	(Optional) if-name
<i>vni</i>	(Optional) vni
<i>repl-ip</i>	(Optional) Replication List
<i>source</i>	(Optional) Source
<i>up-time</i>	(Optional) Up Time

Command Mode

- /exec

show nve vni peer-vtep

```
show nve vni peer-vtep [ { interface <nve-if> | <vni-id> } ] [ __readonly__ [ TABLE_nve_vni_peer_vtep
<if-name> <vni> [ { <vtep-ip> <source> <up-time> } ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
vni	Virtual Network Identifier
peer-vtep	Show static peer-vtep configured per vni
<i>vni-id</i>	(Optional) Virtual Network Identifier
interface	(Optional) Interface
<i>nve-if</i>	(Optional) NVE interface
<i>__readonly__</i>	(Optional)
TABLE_nve_vni_peer_vtep	(Optional) vni peer vtep schema
<i>if-name</i>	(Optional) if-name
<i>vni</i>	(Optional) vni
<i>vtep-ip</i>	(Optional) VTEP List
<i>source</i>	(Optional) Source
<i>up-time</i>	(Optional) Up Time

Command Mode

- /exec

show nve vrf

```
show nve vrf [ vrf-name ] [ __readonly__ [ TABLE_nve_vrf <vrf-name> <vni> <if-name> <gateway-mac>
[ { <ipv4-tblid> <ipv6-tblid> <vni-sw-bd> <flags> } ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
vrf	VRF name
<i>vrf-name</i>	(Optional) vrf name
<i>__readonly__</i>	(Optional)
<i>TABLE_nve_vrf</i>	(Optional) vrf schema
<i>vrf-name</i>	(Optional) vrf-name
<i>vni</i>	(Optional) vni
<i>if-name</i>	(Optional) if-name
<i>gateway-mac</i>	(Optional) gateway-mac
<i>ipv4-tblid</i>	(Optional) ipv4-table-id
<i>ipv6-tblid</i>	(Optional) ipv6-table-id
<i>vni-sw-bd</i>	(Optional) vni-sw-bd
<i>flags</i>	(Optional) flags

Command Mode

- /exec

show nve vxlan-params

```
show nve vxlan-params [ __readonly__ <vxlan-port> ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
vxlan-params	VxLAN Parameters
__readonly__	(Optional)
<i>vxlan-port</i>	(Optional) vxlan-params

Command Mode

- /exec

show nxapi-server logs

show nxapi-server logs

Syntax Description

show	Show running system information
nxapi-server	Show NX-API Server
logs	Show NX-API Server logs

Command Mode

- /exec

show nxapi

```
show nxapi [ __readonly__ { operation_status <o_status> } [ configuration_error <c_error> ] {
TABLE_listen_on_port <l_port> } ]
```

Syntax Description

show	Show running system information
nxapi	Show nxapi status
<i>__readonly__</i>	(Optional)
operation_status	(Optional) run-time information about nxapi
<i>o_status</i>	(Optional) enabled or not
configuration_error	(Optional) config syntax error
<i>c_error</i>	(Optional) config syntax error
TABLE_listen_on_port	(Optional) listen on port table
<i>l_port</i>	(Optional) listen on port

Command Mode

- /exec



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show object-group

```
show object-group [ <name> ] [ __readonly__ TABLE_ogroup <group_type> <group_name> [ TABLE_seqno
<seqno> { <_port_op> <port0_num> | <_port_range> <port1_num> <port2_num> | <hostaddr> | <net_ip> |
<mask_ip_addr> <mask_ip_mask> | <hostip6> | <net_ipv6> | <mask_ipv6_addr> <mask_ipv6_mask> } ]
]
```

Syntax Description

show	Show running system information
object-group	Show configured ACL object groups
<i>name</i>	(Optional) object-group name
<i>__readonly__</i>	(Optional)
<i>group_type</i>	(Optional) Object group type
<i>group_name</i>	(Optional) Object group name
<i>seqno</i>	(Optional) Sequence number
TABLE_ogroup	(Optional)
TABLE_seqno	(Optional)
<i>_port_op</i>	(Optional) Port operator
<i>_port_range</i>	(Optional) Port range
<i>port0_num</i>	(Optional) Port number
<i>port1_num</i>	(Optional) Port number
<i>port2_num</i>	(Optional) Port number
<i>net_ip</i>	(Optional) A.B.C.D Network address of object-group member
<i>hostaddr</i>	(Optional) A.B.C.D Host address
<i>mask_ip_addr</i>	(Optional) A.B.C.D IP address
<i>mask_ip_mask</i>	(Optional) A.B.C.D IP address mask

Command Mode

- /exec

show onep

```
show onep { session { all | <onep-session-id> | rate-limit } [ detail ] } [ __readonly__ [ { TABLE_sessions
<ID> <Username> <State> <ReconnectTimer> <ConnectTime> <Appname> <Error> } ] [ { TABLE_details
<Appname> <Username> <State> <Error> <ConnectingTime> <ConnectTime> <ReconnectTimer> <ID>
<Version> <LastActiveTime> <Keepalive> <TransportName> <HostIP> <HostName> <Pid> [ {
TABLE_client_certificate <SerialNumber> <Issuer> [ { TABLE_validity <notBefore> <notAfter> } ]
<Subject> <KeyUsage> [ { TABLE_fingerprint <HashType> <HashValue> } ] } ] ] [ { TABLE_buckets
<Addr> <Hash> <Rate> <Last> <Current> <Limit> <ExtendedLimit> <MarkCounter> <Reject> <Accept>
} ] ]
```

Syntax Description

show	Show running system information
onep	One Platform
session	One Platform session
all	All sessions
<i>onep-session-id</i>	Specific session name
rate-limit	rate limiting feature info
<code>__readonly__</code>	(Optional)
TABLE_sessions	(Optional) all current sessions of onep
<i>ID</i>	(Optional) the session handler
<i>Username</i>	(Optional) the username
<i>State</i>	(Optional) the state
<i>ReconnectTimer</i>	(Optional) the reconnect timer
<i>ConnectTime</i>	(Optional) the connect time
<i>Appname</i>	(Optional) the application name
<i>Error</i>	(Optional) possible error message
TABLE_buckets	(Optional) all rate limit buckets
<i>Addr</i>	(Optional) the remote address
<i>Hash</i>	(Optional) the hash of the remote address
<i>Rate</i>	(Optional) the token fill rate
<i>Last</i>	(Optional) the last rate check time
<i>Current</i>	(Optional) current tokens that are accepted to consume

<i>Limit</i>	(Optional) the standard limit on tokens
<i>ExtendedLimit</i>	(Optional) the burst limit on tokens
<i>MarkCounter</i>	(Optional) the burst tokens to consume
<i>Reject</i>	(Optional) stats: rejected TCP connections
<i>Accept</i>	(Optional) stats: accepted TCP connections
detail	(Optional) Show detailed session info
TABLE_details	(Optional) all current sessions of onep
<i>ID</i>	(Optional) the session handler
<i>Appname</i>	(Optional) the application name
<i>Username</i>	(Optional) the username
<i>State</i>	(Optional) the state
<i>ConnectTime</i>	(Optional) the connected time
<i>ConnectingTime</i>	(Optional) the connecting time
<i>ReconnectTimer</i>	(Optional) the reconnect timer
<i>Version</i>	(Optional) onep version
<i>LastActiveTime</i>	(Optional) last activity time
<i>Keepalive</i>	(Optional) keepalive time
<i>TransportName</i>	(Optional) Transport name
<i>HostIP</i>	(Optional) host address
<i>HostName</i>	(Optional) host name
<i>Pid</i>	(Optional) Pid
TABLE_client_certificate	(Optional) client certificate
<i>SerialNumber</i>	(Optional) Serial Number
<i>Issuer</i>	(Optional) Issuer
TABLE_validity	(Optional) certificate validity
<i>notBefore</i>	(Optional) notBefore
<i>notAfter</i>	(Optional) notAfter
<i>Subject</i>	(Optional) Subject
<i>KeyUsage</i>	(Optional) Key Usage

TABLE_fingerprint	(Optional) certificate finger print
<i>HashType</i>	(Optional) Hash Type
<i>HashValue</i>	(Optional) Hash Value

Command Mode

- /exec

show onep cli-extensions applications

show onep cli-extensions applications [*__readonly__* <num_applications> [TABLE_applications <app_name> <app_version> <config_domain> <ver_specific>]]

Syntax Description

show	Show running system information
onep	One Platform
cli-extensions	CLI Extensions feature
applications	Onep applications using the CLI Extensions feature
<i>__readonly__</i>	(Optional)
<i>num_applications</i>	(Optional) Number of onep applications
TABLE_applications	(Optional) Table of onep applications
<i>app_name</i>	(Optional) Onep application name
<i>app_version</i>	(Optional) Onep application version
<i>config_domain</i>	(Optional) Onep config domain
<i>ver_specific</i>	(Optional) Onep application version specific

Command Mode

- /exec

show onep error

```
show onep error [ __readonly__ [ { TABLE_onep_errors <Content> } ] ]
```

Syntax Description

show	Show running system information
onep	One Platform
error	Error
__readonly__	(Optional)
TABLE_onep_errors	(Optional) Errors messages
<i>Content</i>	(Optional) error content

Command Mode

- /exec

show onep history

```
show onep history [ { archived } | { all } | { session { all | <onep-session-id> } } ] [ __readonly__ [ {
TABLE_history <Record> } ] ]
```

Syntax Description

show	Show running system information
onep	One Platform
history	One Platform history trails
archived	One Platform archived session
session	One Platform session
<i>onep-session-id</i>	Specific session name
all	All sessions
__readonly__	(Optional)
TABLE_history	(Optional) a set of history records
<i>Record</i>	(Optional) an individual history record

Command Mode

- /exec

show onep statistics

```
show onep statistics [ session { all | <onep-session-id> } ] [ __readonly__ [ { TABLE_stats_global
<SessionTotal> <ActiveSessions> <LocalDisconnect> <RemoteDisconnect> <ErrorDisconnect>
<TotalDisconnects> <TotalErrors> <AuthenticateErr> <DupAppNameErr> <MemErr> <SystemErr>
<TotalConnects> <RejectedConnects> <AcceptedConnects> <UnaffectedConnects> <FailedConnectionIndex>
<SequenceNumber> <FailureReason> <ErrorCode> <FailureTime> <RemoteHost> } ] [ {
TABLE_stats_sessions <ID> <Appname> <APIIn> <APIOut> <BytesIn> <BytesOut> <VtyCount> <Error>
} ] ]
```

Syntax Description

show	Show running system information
onep	One Platform
statistics	statistics
session	(Optional) One Platform session
all	(Optional) All sessions
<i>onep-session-id</i>	(Optional) Specific session name
<i>__readonly__</i>	(Optional)
TABLE_stats_global	(Optional) global session statistics for onep
<i>SessionTotal</i>	(Optional) total onep sessions
<i>ActiveSessions</i>	(Optional) currently active onep sessions
<i>LocalDisconnect</i>	(Optional) onep sessions locally disconnected
<i>RemoteDisconnect</i>	(Optional) onep sessions remotely disconnected
<i>ErrorDisconnect</i>	(Optional) onep sessions errored disconnected
<i>TotalDisconnects</i>	(Optional) total onep disconnected sessions
<i>TotalErrors</i>	(Optional) total onep errors
<i>AuthenticateErr</i>	(Optional) onep authentication errors
<i>DupAppNameErr</i>	(Optional) onep duplicate application name errors
<i>MemErr</i>	(Optional) onep memory errors
<i>SystemErr</i>	(Optional) onep system errors
<i>TotalConnects</i>	(Optional) total number of TCP connection attempts
<i>RejectedConnects</i>	(Optional) number of TCP connections rejected by rate limiting
<i>AcceptedConnects</i>	(Optional) number of TCP connections accepted by rate limiting

<i>UnaffectedConnects</i>	(Optional) number of TCP connections unaffected by rate limiting
<i>FailedConnectionIndex</i>	(Optional) Index of the failed connection
<i>SequenceNumber</i>	(Optional) Sequence number of the failed connection
<i>FailureReason</i>	(Optional) Failure reason of the failed connection
<i>ErrorCode</i>	(Optional) Error code of the failed connection
<i>FailureTime</i>	(Optional) Failure time of the failed connection
<i>RemoteHost</i>	(Optional) Remote host address of the failed connection
TABLE_stats_sessions	(Optional) all current sessions of onep
<i>ID</i>	(Optional) the session handler
<i>Appname</i>	(Optional) the application name
<i>APIIn</i>	(Optional) the API in
<i>APIOut</i>	(Optional) the API out
<i>BytesIn</i>	(Optional) the Bytes in
<i>BytesOut</i>	(Optional) the Bytes out
<i>VtyCount</i>	(Optional) the Vty count
<i>Error</i>	(Optional) possible error message

Command Mode

- /exec

show onep status

```
show onep status [ __readonly__ { operational_status <o_status> } { operational_enable_reason
<o_enable_reason> } { operational_version <o_version> } [ { TABLE_transports <transport_name> <status>
[ <port> ] [ <access_class> ] [ { TABLE_trustpoints <trustpoint_type> <trustpoint_name> [ {
TABLE_trustpoint_hashes <tp_hash_type> <tp_hash_value> } ] ] ] ] { session_max_limit <s_max_limit>
} { session_key <enabled> } { cpu_interval <c_interval> } { cpu_fall_threshold <c_fall_threshold> } {
cpu_rise_threshold <c_rise_threshold> } { history_buffer_on <h_buffer_on> } { history_buffer_purge
<h_buffer_purge> } { history_buffer_size <h_buffer_size> } { history_syslog <h_syslog> } [ {
TABLE_service_sets <service_set> <state> [ <enable_mask> ] <version> <accessible_by> } ] ]
```

Syntax Description

show	Show running system information
onep	One Platform
status	status
<i>__readonly__</i>	(Optional)
operational_status	(Optional) run-time info about onep
<i>o_status</i>	(Optional) status of onep
operational_enable_reason	(Optional) enable reason if onep is enabled
<i>o_enable_reason</i>	(Optional) if onep is enabled, the enable reason
operational_version	(Optional) run-time version about onep
<i>o_version</i>	(Optional) version of onep
TABLE_transports	(Optional) all transports of onep
<i>transport_name</i>	(Optional) the transport name
<i>status</i>	(Optional) the transport status
<i>port</i>	(Optional) the transport port
<i>access_class</i>	(Optional) the transport access-class
TABLE_trustpoints	(Optional) all trustpoints of the transport
<i>trustpoint_type</i>	(Optional) either Server-Identity or Client-Verification
<i>trustpoint_name</i>	(Optional) the name of the configured trustpoint
TABLE_trustpoint_hashes	(Optional) hashes of a certificate in each trustpoint
<i>tp_hash_type</i>	(Optional) the algorithm used to perform the hash
<i>tp_hash_value</i>	(Optional) the actual hash

session_max_limit	(Optional) maximum number of sessions allowed
<i>s_max_limit</i>	(Optional) maximum limit
session_key	(Optional) session key-required
<i>enabled</i>	(Optional) session key-required
cpu_interval	(Optional) observation interval in seconds
<i>c_interval</i>	(Optional) observation interval
cpu_fall_threshold	(Optional) falling threshold in percentage
<i>c_fall_threshold</i>	(Optional) falling threshold
cpu_rise_threshold	(Optional) rising threshold in percentage
<i>c_rise_threshold</i>	(Optional) rising threshold
history_buffer_on	(Optional) history buffer on
<i>h_buffer_on</i>	(Optional) history buffer on
history_buffer_purge	(Optional) history buffer purge
<i>h_buffer_purge</i>	(Optional) purge oldest or newest
history_buffer_size	(Optional) history buffer size
<i>h_buffer_size</i>	(Optional) history buffer size
history_syslog	(Optional) history syslog
<i>h_syslog</i>	(Optional) history syslog
TABLE_service_sets	(Optional) all registered service sets of onep
<i>service_set</i>	(Optional) service set name
<i>state</i>	(Optional) service set state
<i>enable_mask</i>	(Optional) service set enable mask
<i>version</i>	(Optional) service set version
<i>accessible_by</i>	(Optional) service set accessibility

Command Mode

- /exec

show onep trace

```
show onep trace [ __readonly__ [ { TABLE_onep_traces <Content> } ] ]
```

Syntax Description

show	Show running system information
onep	One Platform
trace	Trace
__readonly__	(Optional)
TABLE_onep_traces	(Optional) all internal traces
<i>Content</i>	(Optional) trace content

Command Mode

- /exec

show ospfv3

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <instance_number> <cname> <rid> <stateful_ha> <gr_ha> [ [ <gr_planned_only> ] [
<gr_notify_period> ] [ <gr_grace_period> ] [ <gr_state> ] [ <gr_last_status> ] ] [ <gr_helper_mode> ]
<support_tos0_only> <support_opaque_lsa> [ <low_mem_cond> ] <is_abr> <is_asbr> [
<max_lsa_non_self_number> ] [ <max_lsa_state> ] [ <max_lsa_warning_only> ] [
<max_lsa_current_non_self_lsa_number> ] [ <max_lsa_threshold_pct> ] [ <max_lsa_ignore_time> ] [
<max_lsa_reset_time> ] [ <max_lsa_ignore_count> ] [ <max_lsa_current_ignore_count> ] [
<max_lsa_ignore_time_left> ] [ <max_lsa_reset_time_left> ] [ <max_lsa_permanent_ignore> ] [
<ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ { TABLE_redist <proto> [ <max_lsas> ] [
<warning> ] [ <threshold> ] [ <current_count> ] } ] <admin_dist> <ref_bw> <spf_start_time> <spf_hold_time>
<spf_max_time> <lsa_start_time> <lsa_hold_time> <lsa_max_time> <min_lsa_arr_time> <lsa_aging_pace>
<spf_max_paths> <max_metric_adver> [ [ <max_metric_time_left> ] [ <max_metric_wait_bgp> ] [
<max_metric_timeout> ] [ <max_metric_always> ] [ <max_metric_sum_lsa> ] [ <max_metric_ext_lsa> ] ]
<asext_lsa_cnt> <asext_lsa_crc> <area_total> <area_normal> <area_stub> <area_nssa> <act_area_total>
<act_area_normal> <act_area_stub> <act_area_nssa> <no_discard_rt_ext> <no_discard_rt_int> [
<bfd_enabled> ] [ <passive_dflt> ] [ <name_lookup> ] [ { TABLE_area <aname> [ <backbone_active> ] [
<active> ] <age> <total_intf> <act_intf> <passive_intf> <loopback_intf> [ <gr_nbr_cnt> ] <stub> [
<stub_def_cost> ] <nssa> [ <no_redist> ] [ <nssa_trans> ] <no_summary> <spf_runs> <last_spf_run_time>
[ <rtr_lsa_throt> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ TABLE_range <addr>
<masklen> <state> <nets> <advertise> [ <cost> ] ] [ <filter_in> ] [ <filter_out> ] <lsa_cnt> <lsa_crc> } ] ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>instance_number</i>	(Optional)
<i>cname</i>	(Optional)
<i>rid</i>	(Optional)

<i>stateful_ha</i>	(Optional)
<i>gr_ha</i>	(Optional)
<i>gr_planned_only</i>	(Optional)
<i>gr_notify_period</i>	(Optional)
<i>gr_grace_period</i>	(Optional)
<i>gr_state</i>	(Optional)
<i>gr_last_status</i>	(Optional)
<i>gr_helper_mode</i>	(Optional)
<i>support_tos0_only</i>	(Optional)
<i>support_opaque_lsa</i>	(Optional)
<i>low_mem_cond</i>	(Optional)
<i>is_abr</i>	(Optional)
<i>is_asbr</i>	(Optional)
<i>max_lsa_non_self_number</i>	(Optional)
<i>max_lsa_state</i>	(Optional)
<i>max_lsa_warning_only</i>	(Optional)
<i>max_lsa_current_non_self_lsa_number</i>	(Optional)
<i>max_lsa_threshold_pct</i>	(Optional)
<i>max_lsa_ignore_time</i>	(Optional)
<i>max_lsa_reset_time</i>	(Optional)
<i>max_lsa_ignore_count</i>	(Optional)
<i>max_lsa_current_ignore_count</i>	(Optional)
<i>max_lsa_ignore_time_left</i>	(Optional)
<i>max_lsa_reset_time_left</i>	(Optional)
<i>max_lsa_permanent_ignore</i>	(Optional)
<i>ipsec_sa_type</i>	(Optional) IPsec SA Type
<i>ipsec_sa_algorithm</i>	(Optional) IPsec SA Algorithm name
<i>ipsec_sa_spi</i>	(Optional) IPsec SA SPI Value
TABLE_redist	(Optional)

<i>proto</i>	(Optional)
<i>max_lsas</i>	(Optional)
<i>warning</i>	(Optional)
<i>threshold</i>	(Optional)
<i>current_count</i>	(Optional)
<i>admin_dist</i>	(Optional)
<i>ref_bw</i>	(Optional)
<i>spf_start_time</i>	(Optional)
<i>spf_hold_time</i>	(Optional)
<i>spf_max_time</i>	(Optional)
<i>lsa_start_time</i>	(Optional)
<i>lsa_hold_time</i>	(Optional)
<i>lsa_max_time</i>	(Optional)
<i>min_lsa_arr_time</i>	(Optional)
<i>lsa_aging_pace</i>	(Optional)
<i>spf_max_paths</i>	(Optional)
<i>max_metric_adver</i>	(Optional)
<i>max_metric_time_left</i>	(Optional)
<i>max_metric_wait_bgp</i>	(Optional)
<i>max_metric_timeout</i>	(Optional)
<i>max_metric_always</i>	(Optional)
<i>max_metric_sum_lsa</i>	(Optional)
<i>max_metric_ext_lsa</i>	(Optional)
<i>asext_lsa_cnt</i>	(Optional)
<i>asext_lsa_crc</i>	(Optional)
<i>area_total</i>	(Optional)
<i>area_normal</i>	(Optional)
<i>area_stub</i>	(Optional)
<i>area_nssa</i>	(Optional)

<i>act_area_total</i>	(Optional)
<i>act_area_normal</i>	(Optional)
<i>act_area_stub</i>	(Optional)
<i>act_area_nssa</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>passive_dflt</i>	(Optional)
<i>name_lookup</i>	(Optional)
<i>no_discard_rt_ext</i>	(Optional)
<i>no_discard_rt_int</i>	(Optional)
TABLE_area	(Optional)
<i>aname</i>	(Optional)
<i>backbone_active</i>	(Optional)
<i>active</i>	(Optional)
<i>age</i>	(Optional)
<i>total_intf</i>	(Optional)
<i>act_intf</i>	(Optional)
<i>passive_intf</i>	(Optional)
<i>loopback_intf</i>	(Optional)
<i>gr_nbr_cnt</i>	(Optional)
<i>stub</i>	(Optional)
<i>stub_def_cost</i>	(Optional)
<i>nssa</i>	(Optional)
<i>no_redist</i>	(Optional)
<i>nssa_trans</i>	(Optional)
<i>no_summary</i>	(Optional)
<i>spf_runs</i>	(Optional)
<i>last_spf_run_time</i>	(Optional)
<i>rtr_lsa_throt</i>	(Optional)
<i>ipsec_sa_type</i>	(Optional) IPsec SA Type

<i>ipsec_sa_algorithm</i>	(Optional) IPsec SA Algorithm name
<i>ipsec_sa_spi</i>	(Optional) IPsec SA SPI Value
<i>TABLE_range</i>	(Optional)
<i>masklen</i>	(Optional)
<i>state</i>	(Optional)
<i>nets</i>	(Optional)
<i>advertise</i>	(Optional)
<i>cost</i>	(Optional)
<i>filter_in</i>	(Optional)
<i>filter_out</i>	(Optional)
<i>lsa_cnt</i>	(Optional)
<i>lsa_crc</i>	(Optional)

Command Mode

- /exec

show ospfv3 border-routers

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] border-routers [ all_routes ] [
vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_br
<type> <addr> <cost> <asbr> <abr> <area> <spf_inst> [ <vlink_unresolved> ] [ TABLE_br_ubest_nh [
<ubest_nh_addr> ] [ <ubest_nh_intf> ] ] [ TABLE_br_mbest_nh [ <mbest_nh_addr> ] [ <mbest_nh_intf> ]
] ] ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
border-routers	Border routers
all_routes	(Optional) Display all OSPFv3 routes
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_br	(Optional)
type	(Optional)
addr	(Optional)
cost	(Optional)
asbr	(Optional)
abr	(Optional)
area	(Optional)
spf_inst	(Optional)
vlink_unresolved	(Optional)

TABLE_br_ubest_nh	(Optional)
<i>ubest_nh_intf</i>	(Optional)
TABLE_br_mbest_nh	(Optional)
<i>mbest_nh_intf</i>	(Optional)

Command Mode

- /exec

show ospfv3 database

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ [ [ [ router | network
| intra-area-prefix | inter-area { irouter | iprefix } | nssa-external | area-unknown | [ [ { link | link-unknown |
grace } [ <interface> ] ] ] ] [ area <area-id-ip> ] ] | external [ tag <tag_val> ] ] as-unknown [ <lsid> ] [
self-originated | adv-router <adv-id> | adv-router-name <adv-name> ] ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_db3_lsa [ <name> ] [ <area> ] [ <id>
] [ <advrtr> ] [ <age> ] [ <seqno> ] [ <corrupt> ] [ <rtr_num_links> ] [ <net_num_rtr> ] [ <prefix> ] [
<inter_rid> ] [ <link_if> ] [ <intra_ref_type> ] [ <intra_ref_lsid> ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
router	(Optional) Display router LSAs
network	(Optional) Display network LSAs
inter-area	(Optional) Display inter-area LSAs
iprefix	(Optional) Display Inter-Area-Prefix LSAs
irouter	(Optional) Display Inter-Area-Router LSAs
nssa-external	(Optional) Display NSSA-external LSAs
area-unknown	(Optional) Display area-scope unknown LSAs
external	(Optional) Display AS-external LSAs
as-unknown	(Optional) Display as-scope unknown LSAs
grace	(Optional) Display Grace LSAs
link	(Optional) Display Link LSAs
link-unknown	(Optional) Display link-scope unknown LSAs
<i>interface</i>	(Optional) OSPF enabled interface

<i>intra-area-prefix</i>	(Optional) Display Intra-Area-Prefix LSAs
<i>self-originated</i>	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
<i>adv-router</i>	(Optional) Restrict display by Advertising router
<i>advid</i>	(Optional) Advertising router ID
<i>adv-router-name</i>	(Optional) Restrict display by Advertising router name
<i>adv-name</i>	(Optional) DNS Name of the Advertising router
<i>area</i>	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
<i>tag</i>	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
<i>__readonly__</i>	(Optional)
<i>TABLE_ctx</i>	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>TABLE_db3_lsa</i>	(Optional)
<i>name</i>	(Optional)
<i>area</i>	(Optional)
<i>id</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>age</i>	(Optional)
<i>seqno</i>	(Optional)
<i>corrupt</i>	(Optional)
<i>rtr_num_links</i>	(Optional)
<i>net_num_rtr</i>	(Optional)
<i>inter_rid</i>	(Optional)
<i>link_if</i>	(Optional)
<i>intra_ref_type</i>	(Optional)

<i>intra_ref_lsid</i>	(Optional)
-----------------------	------------

Command Mode

- /exec

show ospfv3 database database-summary

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database database-summary
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <rid> <ptag> <cname> [
TABLE_dbsum [ TABLE_dbsum_area <area> [ TABLE_dbsum_area_lsa <area_lsa_name> <area_lsa_count>
] <area_lsa_total> ] [ TABLE_dbsum_all [ TABLE_dbsum_lsa_all <lsa_name> <lsa_count> ]
<non_self_lsa_total> <lsa_total> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
database-summary	Summary of database
<u>__readonly__</u>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_dbsum	(Optional)
TABLE_dbsum_area	(Optional)
<i>area</i>	(Optional)
TABLE_dbsum_area_lsa	(Optional)
<i>area_lsa_name</i>	(Optional)
<i>area_lsa_count</i>	(Optional)
<i>area_lsa_total</i>	(Optional)
TABLE_dbsum_all	(Optional)

TABLE_dbsum_lsa_all	(Optional)
<i>lsa_name</i>	(Optional)
<i>lsa_count</i>	(Optional)
<i>non_self_lsa_total</i>	(Optional)
<i>lsa_total</i>	(Optional)

Command Mode

- /exec

external	(Optional) Display AS-external LSAs
as-unknown	(Optional) Display as-scope unknown LSAs
grace	(Optional) Display Grace LSAs
link	(Optional) Display Link LSAs
link-unknown	(Optional) Display link-scope unknown LSAs
<i>interface</i>	(Optional) OSPF enabled interface
intra-area-prefix	(Optional) Display Intra-Area-Prefix LSAs
self-originated	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
<i>advid</i>	(Optional) Advertising router ID
adv-router-name	(Optional) Restrict display by Advertising router name
<i>adv-name</i>	(Optional) DNS Name of the Advertising router
area	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
tag	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
detail	Display LSA in detail
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_db3_lsa	(Optional)
<i>name</i>	(Optional)
<i>area</i>	(Optional)
TABLE_lsdb	(Optional)
<i>age</i>	(Optional)
<i>maxage</i>	(Optional)

<i>wrapping</i>	(Optional)
<i>dummy</i>	(Optional)
<i>flush_pending</i>	(Optional)
<i>type</i>	(Optional)
<i>intf</i>	(Optional)
<i>id</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>len</i>	(Optional)
<i>corrupt</i>	(Optional)
<i>rtr_abr</i>	(Optional)
<i>rtr_asbr</i>	(Optional)
<i>rtr_translate</i>	(Optional)
<i>rtr_vlink_end</i>	(Optional)
<i>rtr_options</i>	(Optional)
<i>rtr_num_links</i>	(Optional)
TABLE_rlsa	(Optional)
<i>rtr_link_type</i>	(Optional)
<i>rtr_link_metric</i>	(Optional)
<i>rtr_link_ifid</i>	(Optional)
<i>rtr_link_nbr_ifid</i>	(Optional)
<i>rtr_link_nbr_rid</i>	(Optional)
<i>net_options</i>	(Optional)
TABLE_nlsa	(Optional)
<i>net_rtr</i>	(Optional)
<i>ia_prefix_options</i>	(Optional)
<i>ia_prefix_metric</i>	(Optional)
<i>ia_rtr_options</i>	(Optional)

<i>ia_rtr_metric</i>	(Optional)
<i>ia_rtr_rid</i>	(Optional)
<i>asext_options</i>	(Optional)
<i>asext_metric_type2</i>	(Optional)
<i>asext_metric</i>	(Optional)
<i>asext_tag</i>	(Optional)
<i>asext_ref_lstype</i>	(Optional)
<i>asext_ref_lsid</i>	(Optional)
<i>link_priority</i>	(Optional)
<i>link_options</i>	(Optional)
<i>link_num_prefix</i>	(Optional)
TABLE_linklsa	(Optional)
<i>link_prefix_options</i>	(Optional)
<i>intra_num_prefix</i>	(Optional)
<i>intra_ref_lstype</i>	(Optional)
<i>intra_ref_lsid</i>	(Optional)
<i>intra_ref_advrtr</i>	(Optional)
TABLE_iaplsa	(Optional)
<i>intra_prefix_options</i>	(Optional)
<i>intra_prefix_metric</i>	(Optional)
<i>corrupted_length</i>	(Optional)
<i>tlv_type</i>	(Optional)
<i>tlv_len</i>	(Optional)
<i>tlv_data</i>	(Optional)
<i>tlv_unknown</i>	(Optional)
<i>gr_interval</i>	(Optional)
<i>gr_reason</i>	(Optional)
<i>unknown</i>	(Optional)
<i>data_len</i>	(Optional)

<i>data</i>	(Optional)
-------------	------------

Command Mode

- /exec

show ospfv3 event-history

show ospfv3 [<tag>] [internal] event-history { errors | msgs | statistics | adjacency | event | ha | flooding | lsa | spf | redistribution | hello | spf-trigger | cli | rib }

Syntax Description

show	Show running system information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show various event logs of OSPF
errors	Error logs
msgs	IPC logs
statistics	Show the state and size of the buffers
adjacency	Adjacency formation logs
event	Internal event logs
ha	HA and GR logs
flooding	LSA flooding logs
lsa	LSA generation and databse logs
spf	SPF calculation logs
redistribution	Redistribution logs
hello	Hello related logs
spf-trigger	SPF TRIGGER related logs
cli	Cli logs
rib	RIB related logs

Command Mode

- /exec

show ospfv3 event-history detail

```
show ospfv3 [ <tag> ] [ internal ] event-history detail [ statistics ]
```

Syntax Description

show	Show running system information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show event history of OSPF
detail	Show detailed event history information
statistics	(Optional) Show the state and size of the verbose history buffer

Command Mode

- /exec

show ospfv3 ha

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ha [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> <stateful> <pss_restored> <pss_state>
<gr_enabled> <gr_grace_period> <gr_state> <gr_last_status> <gr_helper_mode> ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ha	High Availability status
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>stateful</i>	(Optional)
<i>pss_restored</i>	(Optional)
<i>pss_state</i>	(Optional)
<i>gr_enabled</i>	(Optional)
<i>gr_grace_period</i>	(Optional)
<i>gr_state</i>	(Optional)
<i>gr_last_status</i>	(Optional)
<i>gr_helper_mode</i>	(Optional)

Command Mode

- /exec

show ospfv3 interface

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface [ <interface> | vrf {
<vrf-name> | <vrf-known-name> | all } ] [ private ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_intf
<ifname> <admin_status> <proto_status> <addr> [ <masklen> ] [ <inst_id> ] <area> [ <if_cfg> ] <state_str>
<type_str> <cost> [ <bfd_enabled> ] <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority>
] [ <dr_rid> ] [ <dr_addr> ] [ <bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [
<gr_nbr> ] [ <hello_interval> ] [ <dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer>
] [ <wait_timer> ] [ <pacing_timer> ] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer> ] [ <link_lsa_cnt>
] [ <link_lsa_crc> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
interface	(Optional) OSPF enabled interface
private	(Optional) Developer-only statistics
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_intf	(Optional)
ifname	(Optional)
admin_status	(Optional)
proto_status	(Optional)
masklen	(Optional)
inst_id	(Optional)

<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)

<i>ipsec_sa_type</i>	(Optional) IPsec SA Type
<i>ipsec_sa_algorithm</i>	(Optional) IPsec SA Algorithm name
<i>ipsec_sa_spi</i>	(Optional) IPsec SA SPI Value

Command Mode

- /exec

show ospfv3 interface brief

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> <intf_count> TABLE_intf <ifname> <index> <area> <cost> <state_str> <nbr_total> <admin_status> ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
brief	Display summary of OSPFv3 interfaces
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>intf_count</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>index</i>	(Optional)
<i>area</i>	(Optional)
<i>cost</i>	(Optional)
<i>state_str</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>admin_status</i>	(Optional)

Command Mode

- /exec

show ospfv3 memory

```
show [ ipv6 ] ospfv3 [ <tag> ] memory [ __readonly__ TABLE_mem <ptag> <byte_total> <byte_consumed>
<byte_overhead> <byte_allocated> <alloc_current> <alloc_created> <alloc_failed> <alloc_free> <bf_current>
<bf_created> <bf_failed> <bf_free> <bf_byte_consumed> <bf_32_current> <bf_32_created> <bf_32_failed>
<bf_32_free> <bf_32_byte_consumed> <slab_current> <slab_created> <slab_failed> <slab_free>
<slab_byte_consumed> <if_index_alloc_failed> <nbr_index_alloc_failed> ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
memory	Memory usage statistics
__readonly__	(Optional)
TABLE_mem	(Optional)
ptag	(Optional)
byte_total	(Optional)
byte_consumed	(Optional)
byte_overhead	(Optional)
byte_allocated	(Optional)
alloc_current	(Optional)
alloc_created	(Optional)
alloc_failed	(Optional)
alloc_free	(Optional)
bf_current	(Optional)
bf_created	(Optional)
bf_failed	(Optional)
bf_free	(Optional)
bf_byte_consumed	(Optional)
bf_32_current	(Optional)
bf_32_created	(Optional)

<i>bf_32_failed</i>	(Optional)
<i>bf_32_free</i>	(Optional)
<i>bf_32_byte_consumed</i>	(Optional)
<i>slab_current</i>	(Optional)
<i>slab_created</i>	(Optional)
<i>slab_failed</i>	(Optional)
<i>slab_free</i>	(Optional)
<i>slab_byte_consumed</i>	(Optional)
<i>if_index_alloc_failed</i>	(Optional)
<i>nbr_index_alloc_failed</i>	(Optional)

Command Mode

- /exec

show ospfv3 neighbors

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] neighbors [ { { <interface> [ <neighbor> | <neighbor-name> ] } | { [ <neighbor> | <neighbor-name> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] } } ] [ __readonly__ TABLE_ctx <ptag> <cname> <nbrcount> [ TABLE_nbr <rid> <priority> <state> <drstate> <uptime> <ifid> <intf> [ <multiarea> ] <addr> ] ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
<i>neighbor</i>	(Optional) Router ID of neighbor
<i>neighbor-name</i>	(Optional) DNS Name of the neighbor
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>nbrcount</i>	(Optional)
TABLE_nbr	(Optional)
<i>rid</i>	(Optional)
<i>priority</i>	(Optional)
<i>state</i>	(Optional)
<i>drstate</i>	(Optional)
<i>uptime</i>	(Optional)

<i>ifid</i>	(Optional)
<i>intf</i>	(Optional)
<i>multiarea</i>	(Optional)

Command Mode

- /exec

show ospfv3 neighbors detail

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] neighbors [ <interface> ] [
<neighbor> ] detail [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ private ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_nbr <rid> <addr> <area> <intf> <state> <transition> <lastchange> [ <bfd_state>
] [ <priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [ <dbdallsent> ] [
<dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] <helloptions> <dbdoptions>
<lastnonhello> [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [
<rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [
<helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [
<sendlsreqreply> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
<i>neighbor</i>	(Optional) Router ID of neighbor
detail	Show detailed neighbor display
private	(Optional) Developer-only statistics
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_nbr	(Optional)
<i>rid</i>	(Optional)
<i>area</i>	(Optional)
<i>intf</i>	(Optional)

<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>bfd_state</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>pacingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)

<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendsreq</i>	(Optional)
<i>sendsu</i>	(Optional)
<i>sendsurxmt</i>	(Optional)
<i>sendsack</i>	(Optional)
<i>sendsreqreply</i>	(Optional)

Command Mode

- /exec

show ospfv3 neighbors summary

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] neighbors [ <interface> ]
summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname>
TABLE_intf { <ifname> | <total> } <down> <attempt> <init> <twoway> <exstart> <exchange> <loading>
<full> <if_total> ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
summary	Summary of neighbors
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>total</i>	(Optional)
<i>down</i>	(Optional)
<i>attempt</i>	(Optional)
<i>init</i>	(Optional)
<i>twoway</i>	(Optional)
<i>exstart</i>	(Optional)

<i>exchange</i>	(Optional)
<i>loading</i>	(Optional)
<i>full</i>	(Optional)
<i>if_total</i>	(Optional)

Command Mode

- /exec

show ospfv3 policy statistics

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] policy statistics { { redistribute
{ bgp <as> | { isis | rip } <tag> | static | direct | amt } } | { area <area-id-ip> filter-list { in | out } } } [ vrf {
<vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
policy	Display Policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
rip	Routing Information Protocol (RIP)
isis	ISO Intermediate-to-Intermediate (IS-IS)
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
static	Static
direct	Directly connected
amt	AMT anycast prefix
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
in	Filter networks sent to this area
out	Filter networks sent from this area
<i>tag</i>	

Command Mode

- /exec

- /exec

Command Mode

- /exec

show ospfv3 route

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] route [ <ipv6-prefix> [
longer-prefixes ] ] [ all_routes ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ <hdr_addr> ] [ <hdr_masklen> ] [ TABLE_route <addr> <masklen> <type> <in_rib>
<direct> [ <area> ] [ <tag> ] [ <vlink_unresolved> ] [ TABLE_route_ubest_nh [ <ubest_nh_addr> ] [
<ubest_nh_intf> ] [ <ubest_cost> ] [ <distance> ] [ <ubest_nh_direct> ] [ <ubest_nh_in_rib> ] ] [
TABLE_route_mbest_nh [ <mbest_nh_addr> ] [ <mbest_nh_intf> ] [ <mbest_cost> ] [ <mbest_nh_direct>
] [ <mbest_nh_in_rib> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
longer-prefixes	(Optional) Show exact match and more specific routes
all_routes	(Optional) Display all OSPFv3 routes
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>hdr_masklen</i>	(Optional)
TABLE_route	(Optional)
<i>masklen</i>	(Optional)
<i>type</i>	(Optional)
<i>in_rib</i>	(Optional)
<i>direct</i>	(Optional)

<i>area</i>	(Optional)
<i>vlink_unresolved</i>	(Optional)
TABLE_route_ubest_nh	(Optional)
<i>ubest_nh_intf</i>	(Optional)
<i>ubest_cost</i>	(Optional)
<i>distance</i>	(Optional)
<i>ubest_nh_direct</i>	(Optional)
<i>ubest_nh_in_rib</i>	(Optional)
TABLE_route_mbest_nh	(Optional)
<i>mbest_nh_intf</i>	(Optional)
<i>mbest_cost</i>	(Optional)
<i>mbest_nh_direct</i>	(Optional)
<i>mbest_nh_in_rib</i>	(Optional)

Command Mode

- /exec

show ospfv3 route summary

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] route [ <ipv6-prefix> [
longer-prefixes ] ] summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_route <total_routes> <total_paths> [ TABLE_route_type <path_type>
<path_routes> <path_paths> ] [ TABLE_route_masklen <masklen> <masklen_routes> <masklen_paths> ] ]
]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
longer-prefixes	(Optional) Show exact match and more specific routes
summary	Show route counts
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_route	(Optional)
total_routes	(Optional)
total_paths	(Optional)
TABLE_route_type	(Optional)
path_type	(Optional)
path_routes	(Optional)
path_paths	(Optional)
TABLE_route_masklen	(Optional)

<i>masklen</i>	(Optional)
<i>masklen_routes</i>	(Optional)
<i>masklen_paths</i>	(Optional)

Command Mode

- /exec

show ospfv3 statistics

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_stats <ptag> <cname> <last_clear> <rid_change>
<dr_elections> <older_lsa_rcv> <nbr_state_change> <nbr_dead_postpone> <nbr_dead_expire>
<nbr_bad_lsreq> <nbr_seqno_mismatch> <spf_full> <spf_summary> <spf_external> <spf_extsummary>
<rtr_generate> <rtr_refresh> <rtr_flush> <rtr_other_flush> <net_generate> <net_refresh> <net_flush>
<net_other_flush> <inter_prefix_generate> <inter_prefix_refresh> <inter_prefix_flush>
<inter_prefix_other_flush> <inter_router_generate> <inter_router_refresh> <inter_router_flush>
<inter_router_other_flush> <asext_generate> <asext_refresh> <asext_flush> <asext_other_flush>
<link_generate> <link_refresh> <link_flush> <link_other_flush> <intra_prefix_generate>
<intra_prefix_refresh> <intra_prefix_flush> <intra_prefix_other_flush> <unknown_generate>
<unknown_refresh> <unknown_flush> <unknown_other_flush> <limbo_lsa_count> <limbo_lsa_hwm>
<limbo_lsa_deleted> <limbo_lsa_revived> <limbo_runs> <limbo_lsa_last_time_hwm> [ <limbo_timer> ]
<helloq_size> <helloq_max_size> <helloq_hwm> <helloq_drops> <helloq_last_hwm_time> <floodq_size>
<floodq_max_size> <floodq_hwm> <floodq_drops> <floodq_last_hwm_time> <lsdb_add_fail> [
TABLE_buffer_detail [ <buf_size> ] [ <buf_size_huge> ] <buf_in_use> <buf_hwm> <buf_perm> <buf_alloc>
<buf_free> ] ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Event counters
__readonly__	(Optional)
TABLE_stats	(Optional)
ptag	(Optional)
cname	(Optional)
last_clear	(Optional)
rid_change	(Optional)
dr_elections	(Optional)
older_lsa_rcv	(Optional)

<i>nbr_state_change</i>	(Optional)
<i>nbr_dead_postpone</i>	(Optional)
<i>nbr_dead_expire</i>	(Optional)
<i>nbr_bad_lsreq</i>	(Optional)
<i>nbr_seqno_mismatch</i>	(Optional)
<i>spf_full</i>	(Optional)
<i>spf_summary</i>	(Optional)
<i>spf_external</i>	(Optional)
<i>spf_extsummary</i>	(Optional)
<i>rtr_generate</i>	(Optional)
<i>rtr_refresh</i>	(Optional)
<i>rtr_flush</i>	(Optional)
<i>rtr_other_flush</i>	(Optional)
<i>net_generate</i>	(Optional)
<i>net_refresh</i>	(Optional)
<i>net_flush</i>	(Optional)
<i>net_other_flush</i>	(Optional)
<i>inter_prefix_generate</i>	(Optional)
<i>inter_prefix_refresh</i>	(Optional)
<i>inter_prefix_flush</i>	(Optional)
<i>inter_prefix_other_flush</i>	(Optional)
<i>inter_router_generate</i>	(Optional)
<i>inter_router_refresh</i>	(Optional)
<i>inter_router_flush</i>	(Optional)
<i>inter_router_other_flush</i>	(Optional)
<i>asext_generate</i>	(Optional)
<i>asext_refresh</i>	(Optional)
<i>asext_flush</i>	(Optional)
<i>asext_other_flush</i>	(Optional)

<i>link_generate</i>	(Optional)
<i>link_refresh</i>	(Optional)
<i>link_flush</i>	(Optional)
<i>link_other_flush</i>	(Optional)
<i>intra_prefix_generate</i>	(Optional)
<i>intra_prefix_refresh</i>	(Optional)
<i>intra_prefix_flush</i>	(Optional)
<i>intra_prefix_other_flush</i>	(Optional)
<i>unknown_generate</i>	(Optional)
<i>unknown_refresh</i>	(Optional)
<i>unknown_flush</i>	(Optional)
<i>unknown_other_flush</i>	(Optional)
<i>limbo_lsa_count</i>	(Optional)
<i>limbo_lsa_hwm</i>	(Optional)
<i>limbo_lsa_deleted</i>	(Optional)
<i>limbo_lsa_revived</i>	(Optional)
<i>limbo_runs</i>	(Optional)
<i>limbo_lsa_last_time_hwm</i>	(Optional)
<i>limbo_timer</i>	(Optional)
<i>helloq_size</i>	(Optional)
<i>helloq_max_size</i>	(Optional)
<i>helloq_hwm</i>	(Optional)
<i>helloq_drops</i>	(Optional)
<i>helloq_last_hwm_time</i>	(Optional)
<i>floodq_size</i>	(Optional)
<i>floodq_max_size</i>	(Optional)
<i>floodq_hwm</i>	(Optional)
<i>floodq_drops</i>	(Optional)
<i>floodq_last_hwm_time</i>	(Optional)

<i>lsdb_add_fail</i>	(Optional)
TABLE_buffer_detail	(Optional)
<i>buf_size</i>	(Optional)
<i>buf_size_huge</i>	(Optional)
<i>buf_in_use</i>	(Optional)
<i>buf_hwm</i>	(Optional)
<i>buf_perm</i>	(Optional)
<i>buf_alloc</i>	(Optional)
<i>buf_free</i>	(Optional)

Command Mode

- /exec

show ospfv3 summary-address

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] summary-address [ private ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_ctx <ptag> <cname> <rid> [
TABLE_sum <addr> <masklen> [ <metric> ] [ <tag> ] [ <pending> ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary-address	Summary-address redistribution information
private	(Optional) Developer-only statistics
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>rid</i>	(Optional)
TABLE_sum	(Optional)
<i>masklen</i>	(Optional)
<i>metric</i>	(Optional)
<i>pending</i>	(Optional)

Command Mode

- /exec

show ospfv3 traffic

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> [ detail ]
| [ detail ] | [ detail ] vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_traf <ptag>
<cname> <last_clear> [ <ifname> ] <pkt_in> <pkt_out> <lsu_first_trans> <lsu_retrans> <lsu_for_lsreq>
<lsu_nbr_trans> <throttle_out> <throttle_out_token> <throttle_out_ip> <lsa_ignored> <lsa_dropped_spf>
<lsa_dropped_gr> <pkt_drops_in> <pkt_drops_out> <pkt_errors_in> <pkt_errors_out> <hello_errors_in>
<dbds_errors_in> <lsreqs_errors_in> <lsus_errors_in> <lsacks_errors_in> <pkt_unknown_in>
<pkt_unknown_out> <pkt_no_ospf_intf> <bad_version> <bad_crc> <dup_rtr_id> <dup_src_addr>
<invalid_src_addr> <invalid_dst_addr> <non_existing_nbr> <pkt_passive_intf> <wrong_area>
<invalid_pkt_len> <nbr_changed_routerid_ipaddr> <nbr_changed_interfaceid> [ <bad_auth> ] [
<bad_reserved> ] [ <pkt_no_vrf> ] <hellos_in> <dbds_in> <lsreqs_in> <lsus_in> <lsacks_in> <hellos_out>
<dbds_out> <lsreqs_out> <lsus_out> <lsacks_out> [ <hellos_in_hq> <dbds_in_hq> <lsreqs_in_flq>
<lsus_in_flq> <lsacks_in_flq> <lsas_in_dbds_in> <lsas_in_lsreqs_in> <lsas_in_lsus_in> <lsas_in_lsacks_in>
<lsas_in_dbds_out> <lsas_in_lsreqs_out> <lsas_in_lsus_out> <lsas_in_lsacks_out> <lsas_in_rxmt_lsus_out>
]]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
<i>interface</i>	(Optional) OSPF enabled interface
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Packet counters
<i>__readonly__</i>	(Optional)
TABLE_traf	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>last_clear</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pkt_in</i>	(Optional)

<i>pkt_out</i>	(Optional)
<i>lsu_first_trans</i>	(Optional)
<i>lsu_retrans</i>	(Optional)
<i>lsu_for_lsreq</i>	(Optional)
<i>lsu_nbr_trans</i>	(Optional)
<i>throttle_out</i>	(Optional)
<i>throttle_out_token</i>	(Optional)
<i>throttle_out_ip</i>	(Optional)
<i>lsa_ignored</i>	(Optional)
<i>lsa_dropped_spf</i>	(Optional)
<i>lsa_dropped_gr</i>	(Optional)
<i>pkt_drops_in</i>	(Optional)
<i>pkt_drops_out</i>	(Optional)
<i>pkt_errors_in</i>	(Optional)
<i>pkt_errors_out</i>	(Optional)
<i>hello_errors_in</i>	(Optional)
<i>dbds_errors_in</i>	(Optional)
<i>lsreqs_errors_in</i>	(Optional)
<i>lsus_errors_in</i>	(Optional)
<i>lsacks_errors_in</i>	(Optional)
<i>pkt_unknown_in</i>	(Optional)
<i>pkt_unknown_out</i>	(Optional)
<i>pkt_no_ospf_intf</i>	(Optional)
<i>bad_version</i>	(Optional)
<i>bad_crc</i>	(Optional)
<i>dup_rtr_id</i>	(Optional)
<i>dup_src_addr</i>	(Optional)
<i>invalid_src_addr</i>	(Optional)
<i>invalid_dst_addr</i>	(Optional)

<i>non_existing_nbr</i>	(Optional)
<i>pkt_passive_intf</i>	(Optional)
<i>wrong_area</i>	(Optional)
<i>invalid_pkt_len</i>	(Optional)
<i>nbr_changed_routerid_ipaddr</i>	(Optional)
<i>nbr_changed_interfaceid</i>	(Optional)
<i>bad_auth</i>	(Optional)
<i>bad_reserved</i>	(Optional)
<i>pkt_no_vrf</i>	(Optional)
<i>hellos_in</i>	(Optional)
<i>dbds_in</i>	(Optional)
<i>lsreqs_in</i>	(Optional)
<i>lsus_in</i>	(Optional)
<i>lsacks_in</i>	(Optional)
<i>hellos_out</i>	(Optional)
<i>dbds_out</i>	(Optional)
<i>lsreqs_out</i>	(Optional)
<i>lsus_out</i>	(Optional)
<i>lsacks_out</i>	(Optional)
<i>hellos_in_hq</i>	(Optional)
<i>dbds_in_hq</i>	(Optional)
<i>lsreqs_in_flq</i>	(Optional)
<i>lsus_in_flq</i>	(Optional)
<i>lsacks_in_flq</i>	(Optional)
<i>lsas_in_dbds_in</i>	(Optional)
<i>lsas_in_lsreqs_in</i>	(Optional)
<i>lsas_in_lsus_in</i>	(Optional)
<i>lsas_in_lsacks_in</i>	(Optional)
<i>lsas_in_dbds_out</i>	(Optional)

<i>lsas_in_lsreqs_out</i>	(Optional)
<i>lsas_in_lsus_out</i>	(Optional)
<i>lsas_in_lsacks_out</i>	(Optional)
<i>lsas_in_rxmt_lsus_out</i>	(Optional)

Command Mode

- /exec

show ospfv3 virtual-links

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] virtual-links [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_vlink <name> <nbr_rid>
<if_state> <transit_area> <nh_intf> <nbr_addr> [ <transit_area_stub> ] [ <transit_area_nssa> ] <addr> [
<masklen> ] <inst_id> <area> [ <if_cfg> ] <state_str> <type_str> <cost> <index> [ <passive> ] [ <mpls> ]
[ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [ <bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ]
[ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr> ] [ <hello_interval> ] [ <dead_interval> ] [ <wait_interval> ] [
<rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <pacing_timer> ] [ <lsu_timer> ] [ <lsack_timer> ] [
<netlsa_throt_timer> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <state> ] [ <transition> ] [ <lastchange> ] [
<priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [ <dbdallsent> ] [
<dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] [ <helloptions> ] [ <dbdoptions> ] [
<lastnonhello> ] [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [
<rerxmtimer> ] [ <fastrexmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [
<helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [
<sendlsreqreply> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_vlink	(Optional)
name	(Optional)
nbr_rid	(Optional)
if_state	(Optional)
transit_area	(Optional)

<i>nh_intf</i>	(Optional)
<i>transit_area_stub</i>	(Optional)
<i>transit_area_nssa</i>	(Optional)
<i>masklen</i>	(Optional)
<i>inst_id</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)

<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>paddingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)

<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)
<i>ipsec_sa_type</i>	(Optional) IPsec SA Type
<i>ipsec_sa_algorithm</i>	(Optional) IPsec SA Algorithm name
<i>ipsec_sa_spi</i>	(Optional) IPsec SA SPI Value

Command Mode

- /exec

show ospfv3 virtual-links brief

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] virtual-links brief [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> <vlink_count> [
TABLE_vlink <nbr_rid> <vlink_num> <transit_area> <cost> <if_state> ] ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
brief	Display summary of OSPFv3 virtual links
<u>__readonly__</u>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>vlink_count</i>	(Optional)
TABLE_vlink	(Optional)
<i>nbr_rid</i>	(Optional)
<i>vlink_num</i>	(Optional)
<i>transit_area</i>	(Optional)
<i>cost</i>	(Optional)
<i>if_state</i>	(Optional)

Command Mode

- /exec

show otv

```
show otv [ <overlay-if> [ vpn <vpn-name> ] ]
```

Syntax Description

show	Display OTV information
otv	Configure OTV information
<i>overlay-if</i>	(Optional) Overlay interface
vpn	(Optional) Overlay VPN name
<i>vpn-name</i>	(Optional) OTV VPN Name

Command Mode

- /exec

show otv adjacency

```
show otv adjacency [ detail ] [ <overlay-if> | vpn <vpn-name> ]
```

Syntax Description

show	Display OTV information
otv	Configure OTV information
<i>overlay-if</i>	(Optional) Overlay interface
vpn	(Optional) Overlay VPN name
<i>vpn-name</i>	(Optional) OTV VPN Name
adjacency	Show adjacencies on overlay
detail	(Optional) Adjacency details

Command Mode

- /exec

show otv arp-nd-cache

```
show otv arp-nd-cache [ <overlay-if> | vpn <vpn-name> | vlan-id <vlan_id> ] [ __readonly__ {
TABLE_arp-nd-cache <if-name> <vlan-id> <mac-addr> <l3-addr> <uptime> <expiry> } ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
<i>overlay-if</i>	(Optional) Overlay interface
vpn	(Optional) Overlay VPN name
<i>vpn-name</i>	(Optional) OTV VPN Name
vlan-id	(Optional) Vlan id filter
<i>vlan_id</i>	(Optional) Vlan id
arp-nd-cache	Display (L3, L2) addresses cached from ARP and ND packet inspection
__readonly__	(Optional)
TABLE_arp-nd-cache	(Optional)
<i>if-name</i>	(Optional)
<i>vlan-id</i>	(Optional)
<i>mac-addr</i>	(Optional)
<i>l3-addr</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expiry</i>	(Optional)

Command Mode

- /exec

show otv data-group

```
show otv data-group [ local | remote ] [ [ <overlay-if> ] [ vlan <vlan-id> ] [ source <source> ] [ group <group> ] [ delivery-source <dsource> ] [ delivery-group <dgroup> ] [ join-interface <jif> ] ] +
```

Syntax Description

show	Show running system information
otv	Display OTV information
data-group	Data groups
local	(Optional) Local sources/groups
remote	(Optional) Remote sources/groups
<i>overlay-if</i>	(Optional) Overlay interface
vlan	(Optional) Vlan
<i>vlan-id</i>	(Optional) Vlan ID
source	(Optional) active-source source
<i>source</i>	(Optional) active-source source address
group	(Optional) active-source group
<i>group</i>	(Optional) active-source group address
delivery-source	(Optional) delivery source
<i>dsource</i>	(Optional) delivery source address
delivery-group	(Optional) delivery group
<i>dgroup</i>	(Optional) delivery group address
join-interface	(Optional) join interface
<i>jif</i>	(Optional) interface

Command Mode

- /exec

show otv isis

```
show otv isis [ <otv-isis-tag> ] [ vpn { <vrf-name> | all } ] [ process | protocol ] [ vpn { <vrf-name> | all } ]
[ __readonly__ <tag-out> TABLE_vrf <vrf-name-out> <system-id-out> <is-type-out> <sap-out> <mtu-out>
<qh-out> <gr-t3-timer-out> <gr-status-out> <gr-state-out> <last-gr-status-out> <bfd-state-out>
<metric-send-out> <metric-accept-out> <area-addr-out> <proc-state-out> <vrf-id-out> <te-lvl-out> <te-ted-out>
<mpls-te-out> <intf-name-out> <auth-out> <auth-chk-out> <auth-kchain-out> [ { TABLE_redist <max_redist>
<warning> <threshold> <current_count> } ] TABLE_afi_safi <afi-safi-out> <intf-num-out> <adj-check-out>
<redist-pib-out> <redist-rpm-out> <dist-src-lvl-out> <dist-dest-lvl-out> <dist-leak-all-out> <dist-rpm-out>
<admin-dist-out> ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) Display information for all VRFs
process	(Optional) Display IS-IS process information
protocol	(Optional) Display IS-IS process information
__readonly__	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi_safi	(Optional)
<i>afi-safi-out</i>	(Optional)
<i>system-id-out</i>	(Optional)
<i>is-type-out</i>	(Optional)
<i>sap-out</i>	(Optional)
<i>mtu-out</i>	(Optional)
<i>qh-out</i>	(Optional)
<i>gr-t3-timer-out</i>	(Optional)

<i>gr-status-out</i>	(Optional)
<i>gr-state-out</i>	(Optional)
<i>last-gr-status-out</i>	(Optional)
<i>bfd-state-out</i>	(Optional)
<i>metric-send-out</i>	(Optional)
<i>metric-accept-out</i>	(Optional)
<i>area-addr-out</i>	(Optional)
<i>proc-state-out</i>	(Optional)
<i>vrf-id-out</i>	(Optional)
<i>te-lvl-out</i>	(Optional)
<i>te-ted-out</i>	(Optional)
<i>mpls-te-out</i>	(Optional)
<i>intf-name-out</i>	(Optional)
<i>auth-out</i>	(Optional)
<i>auth-chk-out</i>	(Optional)
<i>auth-kchain-out</i>	(Optional)
TABLE_redist	(Optional)
<i>max_redist</i>	(Optional)
<i>warning</i>	(Optional)
<i>threshold</i>	(Optional)
<i>current_count</i>	(Optional)
<i>intf-num-out</i>	(Optional)
<i>adj-check-out</i>	(Optional)
<i>redist-pib-out</i>	(Optional)
<i>redist-rpm-out</i>	(Optional)
<i>dist-src-lvl-out</i>	(Optional)
<i>dist-dest-lvl-out</i>	(Optional)
<i>dist-leak-all-out</i>	(Optional)
<i>dist-rpm-out</i>	(Optional)

<i>admin-dist-out</i>	(Optional)
-----------------------	------------

Command Mode

- /exec

show otv isis active-source

```
show otv isis [ <otv-isis-tag> ] active-source [ vlan <vlan-id> [ group <gip-addr> [ source <sip-addr> ] ] ] [
summary ] [ vpn { <vrf-name> | all } ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
active-source	Display IS-IS Active-source information
vlan	(Optional) Display IS-IS VLAN information
<i>vlan-id</i>	(Optional) Display IS-IS VLAN information
group	(Optional) Display IS-IS Group information
source	(Optional) Display IS-IS Source information
<i>gip-addr</i>	(Optional) Display single IP redistribute route
<i>sip-addr</i>	(Optional) Display single IP redistribute route
summary	(Optional) Display route counts

Command Mode

- /exec

show otv isis adjacency

```
show otv isis [ <otv-isis-tag> ] adjacency [ <interface> ] { [ system-id <sid> ] | [ detail ] | [ summary ] } [ vpn
{ <vrf-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out>
<adj-summary-out> <adj-interface-out> [ <adj-interface-name-out> ] [ { TABLE_process_adj
<adj-sys-name-out> <adj-sys-id-out> [ <adj-usage-out> ] [ <adj-level-out> ] <adj-state-out>
<adj-hold-time-out> <adj-intf-name-out> <adj-site-out> <adj-detail-set-out> [ { <adj-transitions-out>
<adj-flap-out> [ <adj-flap-time-out> ] <adj-ckt-type-out> <adj-ipv4-addr-out> <adj-ipv6-addr-out>
<adj-bcast-out> [ { <adj-ckt-id-out> <adj-lan-prio-out> } ] <adj-resurrect-out> [ { <adj-resurrect-count-out>
<adj-resurrect-hwm-out> } ] } ] } ] [ { TABLE_lan_adj_sum <adj-summ-lan-level-out>
<adj-summ-lan-state-out> <adj-summ-lan-count-out> } ] } ] }
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
adjacency	Display IS-IS adjacency information
<i>interface</i>	(Optional) IS-IS interface
system-id	(Optional) Hostname or System ID
<i>sid</i>	(Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX)
detail	(Optional) Display IS-IS adjacency detail information
summary	(Optional) Display IS-IS adjacency summary information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>adj-summary-out</i>	(Optional)
<i>adj-interface-out</i>	(Optional)

<i>adj-interface-name-out</i>	(Optional)
TABLE_process_adj	(Optional)
<i>adj-sys-name-out</i>	(Optional)
<i>adj-sys-id-out</i>	(Optional)
<i>adj-usage-out</i>	(Optional)
<i>adj-level-out</i>	(Optional)
<i>adj-state-out</i>	(Optional)
<i>adj-hold-time-out</i>	(Optional)
<i>adj-intf-name-out</i>	(Optional)
<i>adj-site-out</i>	(Optional)
<i>adj-detail-set-out</i>	(Optional)
<i>adj-transitions-out</i>	(Optional)
<i>adj-flap-out</i>	(Optional)
<i>adj-flap-time-out</i>	(Optional)
<i>adj-ckt-type-out</i>	(Optional)
<i>adj-ipv4-addr-out</i>	(Optional)
<i>adj-ipv6-addr-out</i>	(Optional)
<i>adj-bcast-out</i>	(Optional)
<i>adj-ckt-id-out</i>	(Optional)
<i>adj-lan-prio-out</i>	(Optional)
<i>adj-resurrect-out</i>	(Optional)
<i>adj-resurrect-count-out</i>	(Optional)
<i>adj-resurrect-hwm-out</i>	(Optional)
TABLE_lan_adj_sum	(Optional)
<i>adj-summ-lan-level-out</i>	(Optional)
<i>adj-summ-lan-state-out</i>	(Optional)
<i>adj-summ-lan-count-out</i>	(Optional)

Command Mode

- /exec

show otv isis aed-svr-req local

```
show otv isis [ <otv-isis-tag> ] aed-svr-req { local | remote }
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
aed-svr-req	Display aed svr req Info
local	local
remote	remote

Command Mode

- /exec

show otv isis csnp

```
show otv isis [ <otv-isis-tag> ] csnp [ detail ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
csnp	Display IS-IS CSNP cache contents
detail	(Optional) Display detailed IS-IS information

Command Mode

- /exec

show otv isis database

```
show otv isis [ <otv-isis-tag> ] [ site ] database [ mgroup ] [ detail | advertise | summary ] [ <lid> ] { [
zero-sequence ] [ adjacency <adj-id> ] } [ vpn { <vrf-name> | all } ] [ __readonly__ { TABLE_process_tag
<process-tag-out> { TABLE_vrf <vrf-name-out> [ <dbase-hname-absent-out> ] [ { TABLE_process_lvl
<dbase-level-out> [ { TABLE_process_lsp <dbase-lsp-name-out> <dbase-lsp-status-out>
<dbase-lsp-absent-out> [ { <dbase-lsp-seqnum-out> <dbase-lsp-cksum-out> [ <dbase-lsp-lifetime-str-out> ]
[ <dbase-lsp-lifetime-out> ] <dbase-att-out> <dbase-partition-out> <dbase-overload-out> <dbase-istype-out>
} ] [ <dbase-lsp-instance-out> [ { TABLE_process_tlv <dbase-lsp-tlv-name-out> [ <dbase-lsp-area-addr-out>
] [ <dbase-lsp-is-nbr-name-out> ] [ <dbase-lsp-is-nbr-metric-out> ] [ <dbase-lsp-is-nbr-ext-metric-out> ] [
<dbase-lsp-es-nbr-name-out> ] [ <dbase-lsp-es-nbr-metric-out> ] [ <dbase-lsp-es-nbr-ext-metric-out> ] [
<dbase-lsp-auth-type-out> ] [ <dbase-lsp-auth-len-out> ] [ <dbase-lsp-ext-is-name-out> ] [
<dbase-lsp-ext-is-metric-out> ] [ <dbase-lsp-ip-ri-addr-out> ] [ <dbase-lsp-ip-ri-mask-out> ] [
<dbase-lsp-ip-ri-metric-out> ] [ <dbase-lsp-ip-ri-ext-metric-out> ] [ <dbase-lsp-ip-ri-up-down-out> ] [ {
TABLE_process_nlpid <dbase-lsp-prot-support-out> } ] [ <dbase-lsp-ip-addr-out> ] [ <dbase-lsp-ipv6-addr-out>
] [ { TABLE_process_extip <dbase-lsp-extip-addr-out> <dbase-lsp-extip-prefix-len-out>
<dbase-lsp-extip-metric-out> <dbase-lsp-extip-up-down-out> } ] [ <dbase-lsp-hname-out> ] [
<dbase-lsp-hname-len-out> ] [ { TABLE_process_extipv6 <dbase-lsp-extipv6-addr-out>
<dbase-lsp-extipv6-prefix-len-out> <dbase-lsp-extipv6-metric-out> <dbase-lsp-extipv6-up-down-out>
<dbase-lsp-extipv6-ext-origin-out> } ] [ <dbase-lsp-tlv-len-out> ] [ <dbase-lsp-tlv-unknown-out> ] [ {
TABLE_process_subtlv <dbase-lsp-subtlv-name-out> [ <dbase-lsp-extis-admin-group-out> ] [
<dbase-lsp-subtlv-ip-addr-out> ] [ <dbase-lsp-extis-bw-out> ] [ <dbase-lsp-extis-pri1-out> ] [
<dbase-lsp-extis-pri1-val-out> ] [ <dbase-lsp-extis-pri2-out> ] [ <dbase-lsp-extis-pri2-val-out> ] [
<dbase-lsp-extis-te-metric-out> ] [ <dbase-lsp-subtlv-len-out> ] [ <dbase-lsp-subtlv-unknown-out> } ] } ]
<dbase-lsp-digest-out> } ] } ] [ { <dbase-lsp-total-out> [ { <dbase-lsp-empty-out> <dbase-lsp-zeroseq-out>
} ] } ] } ] }
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
site	(Optional) Display IS-IS OTV site information
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
database	Display IS-IS database information
mgroup	(Optional) Display IS-IS GM database information
<i>lid</i>	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
detail	(Optional) Display detailed IS-IS information

advertise	(Optional) Display advertise tlv lsp-memory information
summary	(Optional) Display summary IS-IS information
zero-sequence	(Optional) LSP with zero sequence number
adjacency	(Optional) Adjacency filter
<i>adj-id</i>	(Optional) Single exact match adjacency filter
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>dbase-hname-absent-out</i>	(Optional)
TABLE_process_lvl	(Optional)
<i>dbase-level-out</i>	(Optional)
TABLE_process_lsp	(Optional)
<i>dbase-lsp-name-out</i>	(Optional)
<i>dbase-lsp-status-out</i>	(Optional)
<i>dbase-lsp-absent-out</i>	(Optional)
<i>dbase-lsp-seqnum-out</i>	(Optional)
<i>dbase-lsp-cksum-out</i>	(Optional)
<i>dbase-lsp-lifetime-str-out</i>	(Optional)
<i>dbase-lsp-lifetime-out</i>	(Optional)
<i>dbase-att-out</i>	(Optional)
<i>dbase-partition-out</i>	(Optional)
<i>dbase-overload-out</i>	(Optional)
<i>dbase-istype-out</i>	(Optional)
<i>dbase-lsp-instance-out</i>	(Optional)
TABLE_process_tlv	(Optional)
<i>dbase-lsp-tlv-name-out</i>	(Optional)
<i>dbase-lsp-area-addr-out</i>	(Optional)

<i>dbase-lsp-is-nbr-name-out</i>	(Optional)
<i>dbase-lsp-is-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-is-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-name-out</i>	(Optional)
<i>dbase-lsp-es-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-auth-type-out</i>	(Optional)
<i>dbase-lsp-auth-len-out</i>	(Optional)
<i>dbase-lsp-ext-is-name-out</i>	(Optional)
<i>dbase-lsp-ext-is-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-addr-out</i>	(Optional)
<i>dbase-lsp-ip-ri-mask-out</i>	(Optional)
<i>dbase-lsp-ip-ri-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-ext-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-up-down-out</i>	(Optional)
TABLE_process_nlpid	(Optional)
<i>dbase-lsp-prot-support-out</i>	(Optional)
<i>dbase-lsp-ip-addr-out</i>	(Optional)
<i>dbase-lsp-ipv6-addr-out</i>	(Optional)
TABLE_process_extip	(Optional)
<i>dbase-lsp-extip-addr-out</i>	(Optional)
<i>dbase-lsp-extip-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extip-metric-out</i>	(Optional)
<i>dbase-lsp-extip-up-down-out</i>	(Optional)
<i>dbase-lsp-hname-out</i>	(Optional)
<i>dbase-lsp-hname-len-out</i>	(Optional)
TABLE_process_extipv6	(Optional)
<i>dbase-lsp-extipv6-addr-out</i>	(Optional)
<i>dbase-lsp-extipv6-prefix-len-out</i>	(Optional)

<i>dbase-lsp-extipv6-metric-out</i>	(Optional)
<i>dbase-lsp-extipv6-up-down-out</i>	(Optional)
<i>dbase-lsp-extipv6-ext-origin-out</i>	(Optional)
<i>dbase-lsp-tlv-len-out</i>	(Optional)
<i>dbase-lsp-tlv-unknown-out</i>	(Optional)
TABLE_process_subtlv	(Optional)
<i>dbase-lsp-subtlv-name-out</i>	(Optional)
<i>dbase-lsp-extis-admin-group-out</i>	(Optional)
<i>dbase-lsp-subtlv-ip-addr-out</i>	(Optional)
<i>dbase-lsp-extis-bw-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-val-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-val-out</i>	(Optional)
<i>dbase-lsp-extis-te-metric-out</i>	(Optional)
<i>dbase-lsp-subtlv-len-out</i>	(Optional)
<i>dbase-lsp-subtlv-unknown-out</i>	(Optional)
<i>dbase-lsp-digest-out</i>	(Optional)
<i>dbase-lsp-total-out</i>	(Optional)
<i>dbase-lsp-empty-out</i>	(Optional)
<i>dbase-lsp-zeroseq-out</i>	(Optional)

Command Mode

- /exec

show otv isis ed-summary local

show otv isis [<otv-isis-tag>] ed-summary local

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
ed-summary	Display ED Summary Info
local	local

Command Mode

- /exec

show otv isis ed-summary remote

show otv isis [<otv-isis-tag>] ed-summary remote [site-identifier { <site-id-mac> | <site-id-hex> }]

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
ed-summary	Display ED Summary Info
remote	remote
site-identifier	(Optional) site-identifier
<i>site-id-mac</i>	(Optional) Site ID in MAC address format
<i>site-id-hex</i>	(Optional) Site ID in hex

Command Mode

- /exec

show otv isis event-history

```
show otv isis [ <isis-tag> ] [ internal ] event-history { errors | msgs | <isis-event-hist-buf-name> | statistics }
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
internal	(Optional) Commands for internal use
event-history	Display IS-IS event history
errors	Error history
msgs	Message history
<i>isis-event-hist-buf-name</i>	Event history buffer
statistics	Show the state and size of the buffer

Command Mode

- /exec

show otv isis fast-flood

show otv isis [<otv-isis-tag>] fast-flood

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
fast-flood	Fast flood the LSP's

Command Mode

- /exec

show otv isis gm-spf-adjacency

show otv isis [<otv-isis-tag>] gm-spf-adjacency [vpn { <vrf-name> | all }]

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
gm-spf-adjacency	Display IS-IS GM-SPF adjacency information

Command Mode

- /exec

show otv isis hostname

```
show otv isis [ <otv-isis-tag> ] hostname [ detail ] [ vpn { <vrf-name> | all } ] [ __readonly__ <tag-out>
TABLE_vrf<vrf-name-out> <hname-enabled-out> <hname-detail-out> <hname-level-out> <hname-id-out>
<hname-id-mine-out> <hname-name-out> ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
hostname	Display IS-IS hostname table information
detail	(Optional) Display detailed IS-IS information
__readonly__	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>hname-enabled-out</i>	(Optional)
<i>hname-detail-out</i>	(Optional)
<i>hname-level-out</i>	(Optional)
<i>hname-id-out</i>	(Optional)
<i>hname-id-mine-out</i>	(Optional)
<i>hname-name-out</i>	(Optional)

Command Mode

- /exec

show otv isis interface

```
show otv isis [ <otv-isis-tag> ] interface [ brief | <interface> ] [ vpn { <vrf-name> | all } ] [ __readonly__ {
TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [ { TABLE_interface [ {
<intfb-name-out> <intfb-type-out> <intfb-ix-out> <intfb-state-out> <intfb-ready-state-out> <intfb-cid-out>
<intfb-ckt-type-out> <intfb-mtu-out> [ { <intf-p2p-metric-lvl-1-out> <intf-p2p-prio-lvl-1-out>
<intf-p2p-adj-count-lvl-1-out> <intf-p2p-adj-up-count-lvl-1-out> } ] [ { <intf-loopback-metric-lvl-1-out>
<intf-loopback-prio-lvl-1-out> <intf-loopback-adj-count-lvl-1-out> <intf-loopback-adj-up-count-lvl-1-out>
} ] [ { <intf-bcast-metric-lvl-1-out> <intf-bcast-prio-lvl-1-out> <intf-bcast-adj-count-lvl-1-out>
<intf-bcast-adj-up-count-lvl-1-out> } ] } ] [ { <intf-name-out> <intf-status-out> } ] [ { <intf-state-out>
<intf-internal-state-out> [ <intf-cib-disabled-out> ] [ <intf-cid-invalid-out> } ] [ { <intf-ix-out> <intf-cid-out>
<intf-ckt-type-out> } ] [ <intf-passive-mask-out> ] [ <intf-passive-mask-lvl-out> ] [ <intf-mgrp-set-out> ] [
<intf-mgrp-state-out> ] [ <intf-mgrp-id-out> ] [ { TABLE_auth [ { <intf-auth-info-out> [ <intf-auth-kchain-out>
] <intf-auth-chk-info-out> } ] } ] [ <intf-p2p-type-out> ] [ { <intf-p2p-ext-local-cid-out> <intf-p2p-cid-out>
<intf-retx-intv-out> <intf-retx-throttle-out> } ] [ <intf-loopback-type-out> ] [ { <intf-lsp-intv-out>
<intf-mtu-out> [ <intf-hpad-state-out> } ] } ] [ { <intf-p2p-pad-ts-out> ] <intf-p2p-adj-count-out>
<intf-p2p-adj-up-count-out> <intf-p2p-prio-out> <intf-p2p-hello-intv-out> <intf-p2p-hello-multi-out>
<intf-p2p-hello-next-out> [ { TABLE_p2p <intf-p2p-lvl-out> <intf-p2p-adj-lvl-out> <intf-p2p-adj-up-lvl-out>
<intf-p2p-metric-lvl-out> <intf-p2p-csnp-lvl-out> <intf-p2p-csnp-nxt-lvl-out> <intf-p2p-lspid-last-lvl-out>
} ] } ] [ { <intf-bcast-type-out> [ { TABLE_bcast_pad [ { <intf-bcast-lvl-out> <intf-bcast-pad-ts-out> } ] } ]
] [ { TABLE_bcast_dis [ { <intf-bcast-lvl-dis-out> <intf-bcast-dis-ts-out> } ] } ] [ { TABLE_bcast_pkt
<intf-bcast-lvl-info-out> <intf-bcast-lvl-metric-out> <intf-bcast-lvl-csnp-intv-out>
<intf-bcast-lvl-csnp-next-out> <intf-bcast-lvl-iih-intv-out> <intf-bcast-lvl-iih-multi-out>
<intf-bcast-lvl-iih-next-out> } ] [ { TABLE_bcast_adj <intf-bcast-lvl-value-out> <intf-bcast-lvl-adj-out>
<intf-bcast-lvl-adj-up-out> <intf-bcast-lvl-prio-out> <intf-bcast-lvl-ctid-out> <intf-bcast-lvl-ctid-ts-out>
} ] } ] [ { TABLE_loopback <intf-loopback-lvl-out> <intf-loopback-lvl-metric-out> } ] [ <intf-unknown-out>
} ] } ] }
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
brief	(Optional) Brief display of IS-IS interfaces
interface	Display IS-IS interface information
<i>interface</i>	(Optional) IS-IS interface
__readonly__	(Optional)
TABLE_process_tag	(Optional)

<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_interface	(Optional)
<i>intf-status-out</i>	(Optional)
<i>intf-name-out</i>	(Optional)
<i>intf-ix-out</i>	(Optional)
<i>intf-state-out</i>	(Optional)
<i>intf-cid-out</i>	(Optional)
<i>intf-ckt-type-out</i>	(Optional)
<i>intfb-name-out</i>	(Optional)
<i>intfb-type-out</i>	(Optional)
<i>intfb-ix-out</i>	(Optional)
<i>intfb-state-out</i>	(Optional)
<i>intfb-ready-state-out</i>	(Optional)
<i>intfb-cid-out</i>	(Optional)
<i>intfb-ckt-type-out</i>	(Optional)
<i>intf-p2p-metric-lvl-1-out</i>	(Optional)
<i>intf-p2p-prio-lvl-1-out</i>	(Optional)
<i>intf-p2p-adj-count-lvl-1-out</i>	(Optional)
<i>intf-p2p-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-loopback-metric-lvl-1-out</i>	(Optional)
<i>intf-loopback-prio-lvl-1-out</i>	(Optional)
<i>intf-loopback-adj-count-lvl-1-out</i>	(Optional)
<i>intf-loopback-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-bcast-metric-lvl-1-out</i>	(Optional)
<i>intf-bcast-prio-lvl-1-out</i>	(Optional)
<i>intf-bcast-adj-count-lvl-1-out</i>	(Optional)
<i>intf-bcast-adj-up-count-lvl-1-out</i>	(Optional)

<i>intf-internal-state-out</i>	(Optional)
<i>intf-cib-disabled-out</i>	(Optional)
<i>intf-cid-invalid-out</i>	(Optional)
<i>intf-passive-mask-out</i>	(Optional)
<i>intf-passive-mask-lvl-out</i>	(Optional)
<i>intf-mgrp-set-out</i>	(Optional)
<i>intf-mgrp-state-out</i>	(Optional)
<i>intf-mgrp-id-out</i>	(Optional)
TABLE_auth	(Optional)
<i>intf-auth-info-out</i>	(Optional)
<i>intf-auth-kchain-out</i>	(Optional)
<i>intf-auth-chk-info-out</i>	(Optional)
<i>intf-p2p-type-out</i>	(Optional)
<i>intf-p2p-ext-local-cid-out</i>	(Optional)
<i>intf-p2p-cid-out</i>	(Optional)
<i>intf-retx-intv-out</i>	(Optional)
<i>intf-retx-throttle-out</i>	(Optional)
<i>intf-loopback-type-out</i>	(Optional)
<i>intf-lsp-intv-out</i>	(Optional)
<i>intf-mtu-out</i>	(Optional)
<i>intfb-mtu-out</i>	(Optional)
<i>intf-hpad-state-out</i>	(Optional)
<i>intf-p2p-pad-ts-out</i>	(Optional)
<i>intf-p2p-adj-count-out</i>	(Optional)
<i>intf-p2p-adj-up-count-out</i>	(Optional)
<i>intf-p2p-prio-out</i>	(Optional)
<i>intf-p2p-hello-intv-out</i>	(Optional)
<i>intf-p2p-hello-multi-out</i>	(Optional)
<i>intf-p2p-hello-next-out</i>	(Optional)

TABLE_p2p	(Optional)
<i>intf-p2p-lvl-out</i>	(Optional)
<i>intf-p2p-adj-lvl-out</i>	(Optional)
<i>intf-p2p-adj-up-lvl-out</i>	(Optional)
<i>intf-p2p-metric-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-nxt-lvl-out</i>	(Optional)
<i>intf-p2p-lspid-last-lvl-out</i>	(Optional)
<i>intf-bcast-type-out</i>	(Optional)
TABLE_bcast_pad	(Optional)
<i>intf-bcast-lvl-out</i>	(Optional)
<i>intf-bcast-pad-ts-out</i>	(Optional)
TABLE_bcast_dis	(Optional)
<i>intf-bcast-lvl-dis-out</i>	(Optional)
<i>intf-bcast-dis-ts-out</i>	(Optional)
TABLE_bcast_pkt	(Optional)
<i>intf-bcast-lvl-info-out</i>	(Optional)
<i>intf-bcast-lvl-metric-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-intv-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-next-out</i>	(Optional)
<i>intf-bcast-lvl-iih-intv-out</i>	(Optional)
<i>intf-bcast-lvl-iih-multi-out</i>	(Optional)
<i>intf-bcast-lvl-iih-next-out</i>	(Optional)
TABLE_bcast_adj	(Optional)
<i>intf-bcast-lvl-value-out</i>	(Optional)
<i>intf-bcast-lvl-adj-out</i>	(Optional)
<i>intf-bcast-lvl-adj-up-out</i>	(Optional)
<i>intf-bcast-lvl-prio-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-out</i>	(Optional)

<i>intf-bcast-lvl-ctid-ts-out</i>	(Optional)
TABLE_loopback	(Optional)
<i>intf-loopback-lvl-out</i>	(Optional)
<i>intf-loopback-lvl-metric-out</i>	(Optional)
<i>intf-unknown-out</i>	(Optional)

Command Mode

- /exec

show otv isis ip mroute

```
show otv isis [ <otv-isis-tag> ] ip mroute [ vlan <vlan-id> [ group <gip-addr> [ source <sip-addr> ] ] ] [
summary ] [ vpn { <vrf-name> | all } ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
ip	Display IS-IS IPv4 information
mroute	Display IS-IS multicast group information
vlan	(Optional) Display IS-IS VLAN information
<i>vlan-id</i>	(Optional) Display IS-IS VLAN information
group	(Optional) Display IS-IS Group information
source	(Optional) Display IS-IS Source information
<i>gip-addr</i>	(Optional) Display single IP redistribute route
<i>sip-addr</i>	(Optional) Display single IP redistribute route
summary	(Optional) Display route counts

Command Mode

- /exec

show otv isis ip redistribute mroute

```
show otv isis [ <otv-isis-tag> ] ip redistribute mroute [ vlan <vlan-id> [ group <gip-addr> [ source <sip-addr>
] ] ] [ summary ] [ vpn { <vrf-name> | all } ] [ __readonly__ <tag-out> TABLE_process_tag <process-tag-out>
<redist-ipv4-mrouter-vlanid-out> <redist-ipv4-vlanid-out> <redist-ipv4-source-addr-out>
<redist-ipv4-group-addr-out> ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
ip	Display IS-IS IPv4 information
redistribute	Display IS-IS redistribute information
vlan	(Optional) Display IS-IS VLAN information
<i>vlan-id</i>	(Optional) Display IS-IS VLAN information
group	(Optional) Display IS-IS Group information
source	(Optional) Display IS-IS Source information
<i>gip-addr</i>	(Optional) Display single IP redistribute route
<i>sip-addr</i>	(Optional) Display single IP redistribute route
mroute	Display IS-IS multicast group information
summary	(Optional) Display route counts
__readonly__	(Optional)
<i>tag-out</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>redist-ipv4-mrouter-vlanid-out</i>	(Optional)
<i>redist-ipv4-vlanid-out</i>	(Optional)

<i>redist-ipv4-source-addr-out</i>	(Optional)
<i>redist-ipv4-group-addr-out</i>	(Optional)

Command Mode

- /exec

show otv isis lsp free-list

```
show otv isis [ <otv-isis-tag> ] { non-pseudonode | pseudonode { <interface> | orphan } } lsp free-list [
summary ] [ vpn { <vrf-name> | all } ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
non-pseudonode	Display IS-IS non-pseudo-node information
pseudonode	Display IS-IS pseudo-node information
<i>interface</i>	IS-IS interface
orphan	Display orphan LSP information
lsp	Display IS-IS LSP information
free-list	Display free-list information
summary	(Optional) Display LSP count per free-list

Command Mode

- /exec

show otv isis non tlv overflow-list

```
show otv isis [ <otv-isis-tag> ] { non-pseudonode | pseudonode <interface> } tlv overflow-list [ vpn {
<vrf-name> | all } ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
non-pseudonode	Display IS-IS non-pseudo-node information
pseudonode	Display IS-IS pseudo-node information
<i>interface</i>	IS-IS interface
tlv	Display IS-IS TLV information
overflow-list	Display ISIS TLV overflow-list information

Command Mode

- /exec

show otv isis redistribute route

```
show otv isis [ <otv-isis-tag> ] [ mac ] redistribute route [ summary ] [ direct-mask ] [ vpn { <vrf-name> | all } ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
mac	(Optional) Display IS-IS MAC information
summary	(Optional) Display route counts
direct-mask	(Optional) Display routes with direct-mask set

Command Mode

- /exec

show otv isis route-map statistics

```
show otv isis [ <otv-isis-tag> ] route-map statistics [ vpn { <vrf-name> | all } ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
route-map	Display IS-IS route-map information
statistics	Display IS-IS route-map statistics

Command Mode

- /exec

show otv isis route show otv isis route is

```
show otv isis [ <otv-isis-tag> ] route [ summary | detail ] [ vpn { <vrf-name> | all } ] | show otv isis [
<otv-isis-tag> ] route is [ vpn { <vrf-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf <vrf-name-out>
<afi-safi-out> <route-absent-out> <route-lvl-absent-out> <route-prefix-out> <route-mask-len-out>
<route-level-out> <route-summ-discard-addr-out> <route-summ-discard-mask-len-out>
<route-discard-addr-out> <route-discard-mask-len-out> <route-addr-print-out> <route-mask-len-print-out>
<route-direct-print-out> <route-direct-out> <route-direct-via-out> <route-direct-if-name-out>
<route-direct-metric-out> <route-direct-level-out> <route-direct-instance-out> <route-marker-out>
<route-addr-valid-out> <route-iframe-out> <route-metric-out> <route-pref-out> <route-no-def-prefix-out>
<route-instance-out> <route-discard-mask-out> <route-sum-prefix-out> <route-sum-prefix-len-out>
<route-total-out> <route-paths-total-out> <route-paths-best-out> <route-paths-backup-out> <route-sum-lvl-out>
<route-sum-total-out> <route-sum-direct-out> <route-sum-normal-out> <route-sum-missing-out>
<route-best-pend-num-out> <route-bestpaths-out> <route-backuppaths-out> <route-path-sum-lvl-out>
<route-path-sum-total-out> <route-path-sum-direct-out> <route-path-sum-normal-out>
<route-bestroutes-per-mask-out> <route-best-mask-val-out> <route-best-mask-count-out>
<route-pend-q-count-out> ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
is	Display IS route
route	Display IS-IS route information
summary	(Optional) Display route counts
detail	(Optional) Display detail route information
<i>otv-isis-tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)

<i>route-absent-out</i>	(Optional)
<i>route-lvl-absent-out</i>	(Optional)
<i>route-prefix-out</i>	(Optional)
<i>route-mask-len-out</i>	(Optional)
<i>route-level-out</i>	(Optional)
<i>route-summ-discard-addr-out</i>	(Optional)
<i>route-summ-discard-mask-len-out</i>	(Optional)
<i>route-discard-addr-out</i>	(Optional)
<i>route-discard-mask-len-out</i>	(Optional)
<i>route-addr-print-out</i>	(Optional)
<i>route-mask-len-print-out</i>	(Optional)
<i>route-direct-print-out</i>	(Optional)
<i>route-direct-out</i>	(Optional)
<i>route-direct-via-out</i>	(Optional)
<i>route-direct-if-name-out</i>	(Optional)
<i>route-direct-metric-out</i>	(Optional)
<i>route-direct-level-out</i>	(Optional)
<i>route-direct-instance-out</i>	(Optional)
<i>route-marker-out</i>	(Optional)
<i>route-addr-valid-out</i>	(Optional)
<i>route-ifname-out</i>	(Optional)
<i>route-metric-out</i>	(Optional)
<i>route-pref-out</i>	(Optional)
<i>route-instance-out</i>	(Optional)
<i>route-no-def-prefix-out</i>	(Optional)
<i>route-discard-mask-out</i>	(Optional)
<i>route-sum-prefix-out</i>	(Optional)
<i>route-sum-prefix-len-out</i>	(Optional)
<i>route-total-out</i>	(Optional)

<i>route-paths-total-out</i>	(Optional)
<i>route-paths-best-out</i>	(Optional)
<i>route-paths-backup-out</i>	(Optional)
<i>route-sum-lvl-out</i>	(Optional)
<i>route-sum-total-out</i>	(Optional)
<i>route-sum-direct-out</i>	(Optional)
<i>route-sum-normal-out</i>	(Optional)
<i>route-sum-missing-out</i>	(Optional)
<i>route-best-pend-num-out</i>	(Optional)
<i>route-bestpaths-out</i>	(Optional)
<i>route-backuppaths-out</i>	(Optional)
<i>route-path-sum-lvl-out</i>	(Optional)
<i>route-path-sum-total-out</i>	(Optional)
<i>route-path-sum-direct-out</i>	(Optional)
<i>route-path-sum-normal-out</i>	(Optional)
<i>route-bestroutes-per-mask-out</i>	(Optional)
<i>route-best-mask-val-out</i>	(Optional)
<i>route-best-mask-count-out</i>	(Optional)
<i>route-pend-q-count-out</i>	(Optional)

Command Mode

- /exec

show otv isis rrm

```
show otv isis [ <otv-isis-tag> ] rrm [ mgroup ] <interface> [ vpn { <vrf-name> | all } ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
rrm	Display IS-IS Retransmit-Routing-Message information
mgroup	(Optional) Display IS-IS GM Retransmit-Routing-Message information
<i>interface</i>	IS-IS interface

Command Mode

- /exec

show otv isis site-index

show otv isis [<otv-isis-tag>] site-index

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
site-index	Display site index table

Command Mode

- /exec

show otv isis site

show otv isis [<otv-isis-tag>] site [statistics]

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
site	Display IS-IS OTV site information
statistics	(Optional) Display IS-IS protocol statistics

Command Mode

- /exec

show otv isis spf-adjacency

```
show otv isis [ <otv-isis-tag> ] spf-adjacency [ vpn { <vrf-name> | all } ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
spf-adjacency	Display IS-IS SPF adjacency information

Command Mode

- /exec

show otv isis spf-log

```
show otv isis [ <otv-isis-tag> ] spf-log [ detail ] [ vpn { <vrf-name> | all } ] [ __readonly__ <tag-out>
TABLE_vrf <vrf-name-out> <spflog-calc-out> <spflog-size-out> <spflog-maxsize-out> <spflog-ago-time-out>
<spflog-lvl-out> <spflog-reason-out> <spflog-count-out> <spflog-elapsed-ts-out> <spflog-log-num-out>
<spflog-ts-detail-out> <spflog-date-detail-out> <spflog-lvl-detail-out> <spflog-instance-detail-out>
<spflog-init-ts-detail-out> <spflog-spf-ts-detail-out> <spflog-detail-ts-is-out> <spflog-detail-ts-urib-out>
<spflog-detail-ts-elapsed-out> <spflog-detail-lvl-out> <spflog-detail-spf-cnt-out> <spflog-detail-sync-cnt-out>
<spflog-detail-spf-reason-out> ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
spf-log	Display IS-IS SPF information
detail	(Optional) Display detail ISIS SPF information
__readonly__	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>spflog-calc-out</i>	(Optional)
<i>spflog-size-out</i>	(Optional)
<i>spflog-maxsize-out</i>	(Optional)
<i>spflog-ago-time-out</i>	(Optional)
<i>spflog-lvl-out</i>	(Optional)
<i>spflog-reason-out</i>	(Optional)
<i>spflog-count-out</i>	(Optional)
<i>spflog-elapsed-ts-out</i>	(Optional)
<i>spflog-log-num-out</i>	(Optional)

<i>spflog-ts-detail-out</i>	(Optional)
<i>spflog-date-detail-out</i>	(Optional)
<i>spflog-lvl-detail-out</i>	(Optional)
<i>spflog-instance-detail-out</i>	(Optional)
<i>spflog-init-ts-detail-out</i>	(Optional)
<i>spflog-spf-ts-detail-out</i>	(Optional)
<i>spflog-detail-ts-is-out</i>	(Optional)
<i>spflog-detail-ts-urib-out</i>	(Optional)
<i>spflog-detail-ts-elapsed-out</i>	(Optional)
<i>spflog-detail-lvl-out</i>	(Optional)
<i>spflog-detail-spf-cnt-out</i>	(Optional)
<i>spflog-detail-sync-cnt-out</i>	(Optional)
<i>spflog-detail-spf-reason-out</i>	(Optional)

Command Mode

- /exec

show otv isis srm

```
show otv isis [ <otv-isis-tag> ] srm [ mgroup ] <interface> [ vpn { <vrf-name> | all } ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
srm	Display IS-IS Send-Routing-Message information
mgroup	(Optional) Display IS-IS GM-Send-Routing-Message information
<i>interface</i>	IS-IS interface

Command Mode

- /exec

show otv isis ssn

```
show otv isis [ <otv-isis-tag> ] ssn [ mgroup ] <interface> [ vpn { <vrf-name> | all } ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
ssn	Display IS-IS Send-Sequence-Number information
mgroup	(Optional) Display IS-IS GM-Send-Sequence-Number information
<i>interface</i>	IS-IS interface

Command Mode

- /exec

show otv isis statistics

```
show otv isis [ <otv-isis-tag> ] statistics [ <interface> ] [ vpn { <vrf-name> | all } ] [ __readonly__ <tag-out>
TABLE_vrf <vrf-name-out> <stat-if-out> <stat-if-name-out> <stat-spf-calc-out> <stat-lsp-sourced-out>
<stat-lsp-refresh-out> <stat-lsp-purge-out> <stat-dis-elections-out> ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
statistics	Display IS-IS protocol statistics
<i>interface</i>	(Optional) IS-IS interface
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>stat-if-out</i>	(Optional)
<i>stat-if-name-out</i>	(Optional)
<i>stat-spf-calc-out</i>	(Optional)
<i>stat-lsp-sourced-out</i>	(Optional)
<i>stat-lsp-refresh-out</i>	(Optional)
<i>stat-lsp-purge-out</i>	(Optional)
<i>stat-dis-elections-out</i>	(Optional)

Command Mode

- /exec

show otv isis track-adjacency-nexthop

show otv isis [<otv-isis-tag>] track-adjacency-nexthop

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
track-adjacency-nexthop	Display IS-IS OTV adjacency nexthop tracking information

Command Mode

- /exec

show otv isis traffic

```
show otv isis [ <otv-isis-tag> ] traffic [ <interface> ] [ mbuf-priority ] [ vpn { <vrf-name> | all } ] [ __readonly__
{ TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <traffic-if-out> [ <traffic-if-name-out>
] <traffic-lan-iih-out> <traffic-lan-iih-rcv-out> <traffic-lan-iih-xmit-out> <traffic-lan-iih-rcv-auth-err-out>
<traffic-lan-iih-rcv-err-out> <traffic-csnp-out> <traffic-csnp-rcv-out> <traffic-csnp-xmit-out>
<traffic-csnp-rcv-auth-err-out> <traffic-csnp-rcv-err-out> <traffic-psnp-out> <traffic-psnp-rcv-out>
<traffic-psnp-xmit-out> <traffic-psnp-rcv-auth-err-out> <traffic-psnp-rcv-err-out> <traffic-lsp-out>
<traffic-lsp-rcv-out> <traffic-lsp-flood-out> <traffic-lsp-rcv-auth-err-out> <traffic-lsp-rcv-err-out>
<traffic-lsp-rexmit-out> <traffic-gmlsp-out> <traffic-gmlsp-rcv-out> <traffic-gmlsp-flood-out>
<traffic-gmlsp-rcv-auth-err-out> <traffic-gmlsp-rcv-err-out> <traffic-gmlsp-rexmit-out> [ <traffic-xmit-err-out>
] [ <traffic-unknown-pdu-rcv-out> ] } } ]
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
traffic	Display IS-IS traffic information
<i>interface</i>	(Optional) IS-IS interface
mbuf-priority	(Optional) Display mbuf priorities for received PDUs
<u>__readonly__</u>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>traffic-if-out</i>	(Optional)
<i>traffic-if-name-out</i>	(Optional)
<i>traffic-lan-iih-out</i>	(Optional)
<i>traffic-lan-iih-rcv-out</i>	(Optional)
<i>traffic-lan-iih-xmit-out</i>	(Optional)

<i>traffic-lan-iih-rcv-auth-err-out</i>	(Optional)
<i>traffic-lan-iih-rcv-err-out</i>	(Optional)
<i>traffic-csnp-out</i>	(Optional)
<i>traffic-csnp-rcv-out</i>	(Optional)
<i>traffic-csnp-xmit-out</i>	(Optional)
<i>traffic-csnp-rcv-auth-err-out</i>	(Optional)
<i>traffic-csnp-rcv-err-out</i>	(Optional)
<i>traffic-psnp-out</i>	(Optional)
<i>traffic-psnp-rcv-out</i>	(Optional)
<i>traffic-psnp-xmit-out</i>	(Optional)
<i>traffic-psnp-rcv-auth-err-out</i>	(Optional)
<i>traffic-psnp-rcv-err-out</i>	(Optional)
<i>traffic-lsp-out</i>	(Optional)
<i>traffic-lsp-rcv-out</i>	(Optional)
<i>traffic-lsp-flood-out</i>	(Optional)
<i>traffic-lsp-rcv-auth-err-out</i>	(Optional)
<i>traffic-lsp-rcv-err-out</i>	(Optional)
<i>traffic-lsp-rexmit-out</i>	(Optional)
<i>traffic-gmlsp-out</i>	(Optional)
<i>traffic-gmlsp-rcv-out</i>	(Optional)
<i>traffic-gmlsp-flood-out</i>	(Optional)
<i>traffic-gmlsp-rcv-auth-err-out</i>	(Optional)
<i>traffic-gmlsp-rcv-err-out</i>	(Optional)
<i>traffic-gmlsp-rexmit-out</i>	(Optional)
<i>traffic-xmit-err-out</i>	(Optional)
<i>traffic-unknown-pdu-rcv-out</i>	(Optional)

Command Mode

- /exec

show otv isis vlan-status local

```
show otv isis [ <otv-isis-tag> ] vlan-status { local | remote }
```

Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vlan-status	Display vlan status Info
local	local
remote	remote

Command Mode

- /exec

show otv site

show otv site [detail | <overlay-if> | vpn <vpn-name>]

Syntax Description

show	Display OTV information
otv	Configure OTV information
site	Show site-local adjacencies with other edge devices in this site
detail	(Optional) Show all site-local adjacencies incl. overlays not configured on this system
<i>overlay-if</i>	(Optional) Overlay interface
vpn	(Optional) Overlay VPN name
<i>vpn-name</i>	(Optional) OTV VPN Name

Command Mode

- /exec

show otv statistics multicast

show otv statistics multicast <vlan-id>

Syntax Description

show	Show running system information
otv	Display OTV information
statistics	Display OTV Traffic Stats
multicast	Display Multicast Stats
<i>vlan-id</i>	Vlan ID

Command Mode

- /exec

show otv vlan-mapping

show otv vlan-mapping [<overlay-if>]

Syntax Description

show	Display OTV information
otv	Configure OTV information
vlan-mapping	VLAN mapping information
<i>overlay-if</i>	(Optional) Overlay interface

Command Mode

- /exec

show otv vlan

show otv vlan [{ <vlan-range> }] [authoritative] [detail] [<overlay-if> | vpn <vpn-name>]

Syntax Description

show	Display OTV information
otv	Configure OTV information
<i>overlay-if</i>	(Optional) Overlay interface
vpn	(Optional) Overlay VPN name
<i>vpn-name</i>	(Optional) OTV VPN Name
vlan	Show extended VLANs including edge device AED status
<i>vlan-range</i>	(Optional) VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
detail	(Optional) Display each interface in VLAN
authoritative	(Optional) Display each interface in VLAN

Command Mode

- /exec



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show param-list

```
show param-list [ param-list-name <plistname> ] [ show-instance ] [ __readonly__ <param_list_header_flag>
<param_list_name> <param_list_var> <param_list_type> <param_instance_header_flag>
<param_instance_name> <param_instance_var> <param_instance_val> ]
```

Syntax Description

show	Show running system information
param-list	Show param-list
param-list-name	(Optional) param list name
<i>plistname</i>	(Optional) Enter the name of the param-list
show-instance	(Optional) show instances for the param list
<i>__readonly__</i>	(Optional)
<i>param_list_header_flag</i>	(Optional)
<i>param_list_name</i>	(Optional)
<i>param_list_var</i>	(Optional)
<i>param_list_type</i>	(Optional)
<i>param_instance_header_flag</i>	(Optional)
<i>param_instance_name</i>	(Optional)
<i>param_instance_var</i>	(Optional)
<i>param_instance_val</i>	(Optional)

Command Mode

- /exec

show password secure-mode

show password secure-mode [__readonly__ { secure_mode <secure_mode_status> }]

Syntax Description

show	Show running system information
password	Password for the user
secure-mode	secure mode for changing passwords
__readonly__	(Optional)
secure_mode	(Optional) run time status about xml
<i>secure_mode_status</i>	(Optional) Run time status about secure mode

Command Mode

- /exec

show password strength-check

```
show password strength-check [ __readonly__ { operation_status <o_status> } ]
```

Syntax Description

show	Show running system information
password	Password for the user
strength-check	Strength check of password
__readonly__	(Optional)
operation_status	(Optional) run-time information about password strength-check
<i>o_status</i>	(Optional) operational status of password strength check

Command Mode

- /exec

show pmap-int-br interface br

```
show pmap-int-br interface br [ __readonly__ { [ TABLE_ifvlanstr <if-vlan-str> <if-status> [ <in-pmap-qos>
] [ <out-pmap-qos> ] [ <in-pmap-que> ] [ <out-pmap-que> ] ] } ]
```

Syntax Description

show	Show running system information
pmap-int-br	Show policy maps
interface	Show service policy on interface
br	Brief report of all policies attached to interfaces
TABLE_ifvlanstr	(Optional) all interfaces xml sessions
<i>if-vlan-str</i>	(Optional) ifindex or vlan id: xml key
<i>__readonly__</i>	(Optional)
<i>if-status</i>	(Optional) Interface/vlan status [active/inactive]: xml key
<i>in-pmap-qos</i>	(Optional) Input QoS Policy-map name: xml key
<i>out-pmap-qos</i>	(Optional) output QoS Policy-map name: xml key
<i>in-pmap-que</i>	(Optional) Input Que Policy-map name: xml key
<i>out-pmap-que</i>	(Optional) Output Que Policy-map name: xml key

Command Mode

- /exec

show pmap-int

```
show pmap-int { interface [ <iiface-list> ] [ input | output ] [ type <qos-or-q> ] |
```

Syntax Description

show	Show running system information
pmap-int	Show policy maps
interface	Show service policy on interface
<i>iface-list</i>	(Optional) List of Interface
input	(Optional) Input Service policy
output	(Optional) Output Service policy
type	(Optional) Type of policy
<i>qos-or-q</i>	(Optional)

Command Mode

- /exec

TABLE_police	(Optional) all police actions
<i>police-key</i>	(Optional) police actions count: xml key
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
TABLE_action	(Optional) all actions
<i>action-key</i>	(Optional) Actions count: xml key
<i>yqos-or-q</i>	(Optional)
<i>options</i>	(Optional) match-first option
<i>pmap-name-out</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>cmap-name</i>	(Optional) Class-map name
<i>xqos-or-q</i>	(Optional)
<i>serv-pol-type</i>	(Optional) Type of service policy referred to
<i>serv-pol-name</i>	(Optional) Name of policy-map referred to within this policy-map
<i>type-spec</i>	(Optional) Type of policy-map specified or not
<i>type-cmap-spec</i>	(Optional) Type of class-map specified or not
<i>inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>dlb-disable</i>	(Optional) Disable Dynamic Load Balancing
<i>cos</i>	(Optional) IEEE 802.1Q Class of Service value
<i>exp-val-imposition</i>	(Optional) MPLS EXP value of type imposition
<i>exp-val-topmost</i>	(Optional) MPLS EXP value of type topmost
<i>dscp</i>	(Optional) DSCP in IP(v4) and IPv6 packets
<i>dscp-enum</i>	(Optional)
<i>prec</i>	(Optional) Precedence in IP(v4) and IPv6 packets
<i>prec-enum</i>	(Optional)
<i>disc-class</i>	(Optional) Discard class
<i>qos-group</i>	(Optional) Qos-group
<i>tmap-from</i>	(Optional)
<i>tmap-to</i>	(Optional)

<i>tmap-name</i>	(Optional) Table map name
<i>ptmap-from</i>	(Optional)
<i>ptmap-to</i>	(Optional)
<i>ptmap-name</i>	(Optional) Table map name
<i>avg-rate-type</i>	(Optional) Specifies if average shape rate is specified
<i>rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>min-rate-type</i>	(Optional) Specifies if minimum shape rate is specified
<i>min-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>max-rate-type</i>	(Optional) Specifies if maximum shape rate is specified
<i>max-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>cir-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps
<i>pir-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps
<i>prio-level</i>	(Optional) Priority if specified
<i>qlim-param-type</i>	(Optional) Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
<i>qlim-param-val</i>	(Optional) Parameter value for qlimit
<i>qlim-size</i>	(Optional) Queue size for qlimit
<i>size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>rdet-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>rdet-nonecn-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>afd-size-units</i>	(Optional) Units of queue size - bytes/kbytes/mbytes
<i>bc-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>be-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>qlim-enum-spec</i>	(Optional) Whether qlimit parameter is specified in enum or not
<i>rdet-mode</i>	(Optional) Random-detect mode
<i>rdet-nonecn-mode</i>	(Optional) Random-detect non-ecn mode
<i>rdet-agg</i>	(Optional) Are the params for aggregate flow
<i>rdet-values</i>	(Optional) List of class-of-service values for random-detect
<i>rdet-drop-prob</i>	(Optional) Random-detect drop probability
<i>rdet-weight</i>	(Optional) Random-detect queue length weight

<i>rdet-cap-average</i>	(Optional) Random-detect cap-average
<i>rdet-ecn</i>	(Optional) Random-detect ECN
<i>rdet-burst-opt</i>	(Optional) Random-detect burst optimized
<i>rdet-mesh-opt</i>	(Optional) Random-detect mesh optimized
<i>rdet-nonecn-drop-prob</i>	(Optional) Random-detect non-ecn drop probability
<i>afd-mode</i>	(Optional) AFD mode
<i>afd-values</i>	(Optional) List of class-of-service values for AFD
<i>afd-ecn</i>	(Optional) AFD ECN
<i>pause</i>	(Optional) Pause value
<i>priority-group-number</i>	(Optional) Priority group value
<i>bw-units</i>	(Optional) Bandwidth units
<i>rem-bw-units</i>	(Optional) Remaining bandwidth units
<i>rem-bw-rate</i>	(Optional) Remaining bandwidth rate
<i>agg-policer-name</i>	(Optional) Aggregate policer name
<i>cir-spec</i>	(Optional) Is CIR keyword specified
<i>bc-spec</i>	(Optional) Is Committed Burst keyword specified
<i>be-spec</i>	(Optional) Is Extended Burst keyword specified
<i>cnf-col-cmap</i>	(Optional) Conforming color class-map name
<i>exc-col-cmap</i>	(Optional) Exceeding color class-map name
<i>enum-spec</i>	(Optional) Is DSCP or PREC enum value specified
<i>cnf-act</i>	(Optional) Conform action (Police)
<i>exc-act</i>	(Optional) Exceed action (Police)
<i>vio-act</i>	(Optional) Violate action (Police)
<i>set-type</i>	(Optional) Type of set in police action
<i>set-val</i>	(Optional) Value of set type in police action
<i>ooo</i>	(Optional) Out-of-Order

Command Mode

- /exec

show policy-map interface control-plane

```
show policy-map interface control-plane { [ module <slot-no-in> [ class <cmap-name> ] ] [ class <cmap-name>
[ module <slot-no-in> ] ] } [ __readonly__ [ <scale-factor-cmd> ] <pmap-name> [ TABLE_cmap <cmap-key>
<cmap-name-out> <opt_any_or_all> [ TABLE_match <match-key> { [ access_grp <acc_grp_name> ] [
redirect <opt_match_redirect> ] [ exception <opt_match_except> ] [ protocol <opt_match_protocol> ] } + ] [
<class-off-rate> <class-drop-rate> <class-pkts> <class-bytes> ] [ [ <set_vld_flg> ] { { cos [ inner ] <cos-val>
} | { dscp [ tunnel ] <dscp-val> } | { precedence [ tunnel1 ] <prec-val> } } ] [ <threshold> <level> ] [ [
<policer_show_flags> ] [ <cir> <opt_kbps_mbps_gbps_pps_cir> ] [ { percent <cir-perc> } ] [ <bc>
<opt_kbytes_mbytes_gbytes_bc> ] [ <pir> <opt_kbps_mbps_gbps_pps_pir> ] [ { percent1 <pir-perc> } ] [
<be> <opt_kbytes_mbytes_gbytes_be> ] ] [ TABLE_slot { <slot-no-out> { [ [ <conform-pkts> ]
<conform-bytes> ] [ [ <opt_drop_transmit_conform> ] ] { set-cos-transmit <set-cos-val> } | { set-dscp-transmit
<set-dscp-val> } | { set-prec-transmit <set-prec-val> } ] [ { [ [ <exceed-pkts> ] <exceed-bytes> ] { {
<opt_drop_transmit_exceed> } | { set dscp1 dscp2 table cir-markdown-map } } } ] [ [ <violate-pkts> ]
<violate-bytes> ] { { <opt_drop_transmit_violate> } | { set1 dscp3 dscp4 table1 pir-markdown-map } } } }
} ] ] ]
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
interface	Show service policy on interface
control-plane	command is for copp policy
module	(Optional) module number for statistics
class	(Optional) class-name name
<i>cmap-name</i>	(Optional) Name of the class-map
<i>pmap-name</i>	(Optional) Name of the Policy-map
<i>__readonly__</i>	(Optional)
<i>scale-factor-cmd</i>	(Optional) Scale factor command
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map key : XML output
<i>cmap-name-out</i>	(Optional) Name of the output class-map
<i>opt_any_or_all</i>	(Optional) Enter match-any or match-all
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) Match key : XML output
access_grp	(Optional)
<i>acc_grp_name</i>	(Optional)

redirect	(Optional)
<i>opt_match_redirect</i>	(Optional) Match criteria for redirected packets
exception	(Optional)
<i>opt_match_except</i>	(Optional) Match criteria for exception packets
protocol	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets
<i>set_vld_flg</i>	(Optional) Set valid flag
cos	(Optional)
inner	(Optional)
<i>cos-val</i>	(Optional) Set cos val
dscp	(Optional)
tunnel	(Optional)
<i>dscp-val</i>	(Optional) Set dscp val
precedence	(Optional)
tunnel1	(Optional)
<i>prec-val</i>	(Optional) Set prec val
<i>policer_show_flags</i>	(Optional) Policer show flags
<i>level</i>	(Optional) syslog severity level
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional)
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional)
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
TABLE_slot	(Optional) all slot-num : XML output
<i>slot-no-in</i>	(Optional) input slot no
<i>slot-no-out</i>	(Optional) output slot no
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional)

<i>set-cos-val</i>	(Optional) Conform action cos val
set-dscp-transmit	(Optional)
<i>set-dscp-val</i>	(Optional) Conform action dscp val
set-prec-transmit	(Optional)
<i>set-prec-val</i>	(Optional) Conform action prec val
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional)
dscp1	(Optional)
dscp2	(Optional)
table	(Optional)
cir-markdown-map	(Optional)
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional)
dscp3	(Optional)
dscp4	(Optional)
table1	(Optional)
pir-markdown-map	(Optional)

Command Mode

- /exec

show policy-map interface type psp

```
show policy-map interface { [ <ifnum> ] } type psp { [ <pmap-name> [ client <clienttype> <clientID> ] ] [
handle <ppf_id> ] } { [ class-map-list { [ <cmap-name-plc> + ] [ class-map-handle <ppf_id1> + ] } ] [
__readonly__ { [ <number-of-classes> ] [ <display-all> ] [ TABLE_pmap <pmap-key> <id> <pmap-name-out>
[ <desc> ] [ TABLE_cmap <cmap-key> [ <cmap-name-out> ] [ TABLE_interface <interface> <byte-count>
] ] ] }
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
interface	Show stats for interface
<i>ifnum</i>	(Optional) Interface type and number
type	Type of the policy-map
psp	type psp
<i>pmap-name</i>	(Optional) Policy-map name
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID
handle	(Optional) Handle
<i>ppf_id</i>	(Optional) PPF ID
class-map-list	(Optional) Class-map list
<i>cmap-name-plc</i>	(Optional) Class-map name
class-map-handle	(Optional) Class-map Handle/s
<i>ppf_id1</i>	(Optional) PPF ID
__readonly__	(Optional)
<i>display-all</i>	(Optional) Display all kinds of policymaps
<i>number-of-classes</i>	(Optional) Total number of classes for which stats are returned
TABLE_pmap	(Optional) all pmap xml sessions
<i>id</i>	(Optional) Policy-map ID
<i>pmap-key</i>	(Optional) Policy-map name: xml key
<i>pmap-name-out</i>	(Optional) Policy-map name

<i>desc</i>	(Optional) Description string
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
<i>cmap-name-out</i>	(Optional) Class-map name
TABLE_interface	(Optional) all interface xml sessions
<i>interface</i>	(Optional) Interface type and number
<i>byte-count</i>	(Optional) Byte Count Statistic

Command Mode

- /exec

show policy-map system

```
show policy-map system [ type { network-qos | qos [ input2 ] | queuing [ input | output ] } ] [ __readonly__
{ [ <display-all> ] [ <desc> ] [ <xpmap-name> ] [ <xcmmap-name> ] [ <cos-list> ] [ <qos-group-list> ] [
<protocol> ] [ <timeout> ] [ <pause> <size-in-bytes> <xoff-bytes> <xon-bytes> ] [ <pf-cos-list> ] [ <cc> ]
[ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp>
] [ <stat-en-dis-enum> ] [ TABLE_pmap <pmap-key> <pmap-inner-outer> <in-or-out> <yqos-or-q> [ <options>
] <pmap-name> [ <stat-status-enum> ] [ TABLE_cmap <cmap-key> [ <xqos-or-q> ] <match-opts>
<cmap-name> [ TABLE_match <match-key> [ <not> ] [ <inner> ] [ <cos-list> ] [ <match-cmap-xqos-or-q>
] [ <match-cmap-opts> ] [ <match-cmap-name> ] ] [ TABLE_action <action-key> [ <set-inner> ] [ <cos> ]
[ <serv-pol-type> ] [ <serv-pol-name> ] [ <serv-pol-return-inout> ] [ <rate-units> ] [ <shape-rate> ] [
<min-rate-type> ] [ <min-rate-units> ] [ <shape-min-rate> ] [ <max-rate-type> ] [ <max-rate-units> ] [
<shape-max-rate> ] [ <prio-level> ] [ <qlim-param-type> ] [ <qlim-param-val> ] [ <size-units> ] [ <qlim-size>
] [ <qlim-enum-spec> ] [ <bw-units> ] [ <bw-rate> ] [ <rem-bw-units> ] [ <rem-bw-rate> ] [
<rise-threshold-units> ] [ <fall-threshold-units> ] [ TABLE_rdet <rdet-key> [ <rdet-values> ] [
<rdet-min-thresh> ] [ <rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob> ] [ <rdet-weight> ] [
<rdet-ecn> ] [ <rdet-cap-average> ] [ <rdet-burst-opt> ] [ <rdet-mesh-opt> ] ] [ TABLE_afd <afd-key> [
<afd-values> ] [ <afd-queue-desired> ] [ <afd-size-units> ] [ <afd-ecn> ] ] [ <pause> <size-in-bytes>
<xoff-bytes> <xon-bytes> ] ] ] ] }
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	(Optional) Type of the policy-map
system	Active policy in the system
network-qos	(Optional) type network-qos
qos	(Optional) type qos
input2	(Optional) input policy
queuing	(Optional) type queuing
input	(Optional) input policy
output	(Optional) output policy
__readonly__	(Optional)
<i>display-all</i>	(Optional) Display all network-qos policy-maps
<i>xpmap-name</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>xcmmap-name</i>	(Optional) Class-map name
<i>thresh-units</i>	(Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc

<i>drop-prob</i>	(Optional) Drop Probability at Maximum Threshold value
<i>pause</i>	(Optional) Pause value
<i>pfc-cos-list</i>	(Optional) List of class-of-service values
<i>timeout</i>	(Optional) timeout value
<i>cc</i>	(Optional) congestion control protocol
<i>iod</i>	(Optional) IOD value
<i>mtu</i>	(Optional) MTU value
<i>set-cos</i>	(Optional) Set CoS value
<i>dpp</i>	(Optional) Dynamic Packet Prioritization Class
<i>protocol</i>	(Optional) protocol
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
TABLE_pmap	(Optional) all pmap xml sessions
<i>pmap-key</i>	(Optional) Policy-map name: xml key
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
TABLE_action	(Optional) all actions
<i>action-key</i>	(Optional) Actions count: xml key
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
TABLE_rdet	(Optional) all WRED sessions
TABLE_afd	(Optional) all AFD sessions
<i>stat-en-dis-enum</i>	(Optional)
<i>in-or-out</i>	(Optional)
<i>yqos-or-q</i>	(Optional)
<i>stat-status-enum</i>	(Optional)
<i>options</i>	(Optional) match-first option
<i>pmap-name</i>	(Optional) Policy-map name
<i>pmap-inner-outer</i>	(Optional) Inner or Outer policy-map

<i>serv-pol-return-inout</i>	(Optional) Inner or Outer policy-map
<i>cmap-name</i>	(Optional) Class-map name
<i>xqos-or-q</i>	(Optional)
<i>match-opts</i>	(Optional) Type of match in class-map
<i>match-cmap-xqos-or-q</i>	(Optional)
<i>match-cmap-opts</i>	(Optional) Type of match in class-map
<i>not</i>	(Optional) Negate this match result
<i>inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>cos-list</i>	(Optional) List of class-of-service values
<i>match-cmap-name</i>	(Optional) class-map name
<i>serv-pol-type</i>	(Optional) Type of service policy referred to
<i>serv-pol-name</i>	(Optional) Name of policy-map referred to within this policy-map
<i>set-inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>cos</i>	(Optional) IEEE 802.1Q Class of Service value
<i>rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>min-rate-type</i>	(Optional) Specifies if minimum shape rate is specified
<i>min-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>max-rate-type</i>	(Optional) Specifies if maximum shape rate is specified
<i>max-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>prio-level</i>	(Optional) Priority if specified
<i>qlim-param-type</i>	(Optional) Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
<i>qlim-param-val</i>	(Optional) Parameter value for qlimit
<i>qlim-size</i>	(Optional) Queue size for qlimit
<i>size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>qlim-enum-spec</i>	(Optional) Whether qlimit parameter is specified in enum or not
<i>rdet-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>afd-size-units</i>	(Optional) Units of queue size - bytes/kbytes/mbytes
<i>bw-units</i>	(Optional) Bandwidth units
<i>rem-bw-units</i>	(Optional) Remaining bandwidth units

<i>rem-bw-rate</i>	(Optional) Remaining bandwidth rate
<i>rdet-values</i>	(Optional) List of class-of-service values for random-detect
<i>rdet-drop-prob</i>	(Optional) Random-detect drop probability
<i>rdet-weight</i>	(Optional) Random-detect queue length weight
<i>rdet-cap-average</i>	(Optional) Random-detect cap-average
<i>rdet-ecn</i>	(Optional) Random-detect ECN
<i>rdet-burst-opt</i>	(Optional) Random-detect burst optimized
<i>rdet-mesh-opt</i>	(Optional) Random-detect mesh optimized
<i>afd-values</i>	(Optional) List of class-of-service values for afd
<i>afd-ecn</i>	(Optional) AFD ECN
<i>pause</i>	(Optional) Pause value

Command Mode

- /exec

exception	(Optional)
<i>opt_match_except</i>	(Optional) Match criteria for exception packets
protocol	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets
TABLE_set_action	(Optional) Table of set action
<i>set_vld_flg</i>	(Optional) Set valid flag
<i>level</i>	(Optional) syslog severity level
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional)
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional)
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional)
<i>set-cos-val</i>	(Optional) Conform action cos val
set-dscp-transmit	(Optional)
<i>set-dscp-val</i>	(Optional) Conform action dscp val
set-prec-transmit	(Optional)
<i>set-prec-val</i>	(Optional) Conform action prec val
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional)
dscp1	(Optional)
dscp2	(Optional)
table	(Optional)
cir-markdown-map	(Optional)
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional)
dscp3	(Optional)

dscp4	(Optional)
table1	(Optional)
pir-markdown-map	(Optional)
cos	(Optional)
inner	(Optional)
<i>cos-val</i>	(Optional) Set cos val
dscp	(Optional)
tunnel	(Optional)
<i>dscp-val</i>	(Optional) Set dscp val
precedence	(Optional)
tunnel1	(Optional)
<i>prec-val</i>	(Optional) Set prec val
<i>policer_show_flags</i>	(Optional) Policer show flags

Command Mode

- /exec

show policy-map type network-qos

```
show policy-map type network-qos [ <pmap-name-nq> ] [ __readonly__ { <display-all> <desc> <xpmap-name>
<xcmap-name> <pause> <timeout> <size-in-bytes> <xoff-bytes> <xon-bytes> <pfc-cos-list> <cc>
<thresh-units> <min-thresh> <max-thresh> <drop-prob> <iod> <mtu> <set-cos> <dpp> } ]
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
<i>pmap-name-nq</i>	(Optional) Policy-map name
network-qos	type network-qos
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all network-qos policy-maps
<i>xpmap-name</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>xcmap-name</i>	(Optional) Class-map name
<i>pause</i>	(Optional) Pause value
<i>timeout</i>	(Optional) timeout value
<i>pfc-cos-list</i>	(Optional) List of class-of-service values
<i>cc</i>	(Optional) congestion control protocol
<i>thresh-units</i>	(Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>drop-prob</i>	(Optional) Drop Probability at Maximum Threshold value
<i>iod</i>	(Optional) IOD value
<i>mtu</i>	(Optional) MTU value
<i>set-cos</i>	(Optional) Set CoS value
<i>dpp</i>	(Optional) Dynamic Packet Prioritization Class

Command Mode

- /exec

show policy-map type psp

```
show policy-map type psp { [ <pmap-name> [ client <clienttype> <clientID> ] [ cfg-mode <cfgmode> ] ] | [
handle <ppf_id> ] } [ __readonly__ { [ <display-all> ] [ TABLE_pmap <pmap-key> <id> <pmap-name-out>
[ <desc> ] [ TABLE_cmap <cmap-key> <if-else-id> <cmap-id> [ class-default ] [ <cmap-name-out> ] [
TABLE_action <action-key> [ <cos-val> ] [ <src-mac-addr> ] [ <dest-mac-addr> ] [ <vlan-number> ] [
<ip-tos-value> ] [ <interface-name> ] [ action-strip-vlan ] [ action-drop-pkt ] [ divert-action ] [ copy-action ]
[ forward-normal ] [ <goto-pmap-handle> ] [ action-decrement-ttl ] ] ] ] }
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
psp	type psp
<i>pmap-name</i>	(Optional) Policy-map name
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID
cfg-mode	(Optional) cfg-mode
<i>cfgmode</i>	(Optional) persistent/transient
handle	(Optional) Handle
<i>ppf_id</i>	(Optional) PPF ID
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all kinds of policymaps
TABLE_pmap	(Optional) all pmap xml sessions
<i>id</i>	(Optional) Policy-map ID
<i>pmap-key</i>	(Optional) Policy-map name: xml key
<i>pmap-name-out</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
<i>if-else-id</i>	(Optional) If-Else ID

<i>cmap-id</i>	(Optional) Class-map ID
<i>class-default</i>	(Optional)
<i>cmap-name-out</i>	(Optional) Class-map name
TABLE_action	(Optional) all action xml sessions
<i>action-key</i>	(Optional) action count: xml key
<i>cos-val</i>	(Optional) 802.1Q Class of Service value
<i>src-mac-addr</i>	(Optional) Layer 2 MAC Address
<i>dest-mac-addr</i>	(Optional) Layer 2 MAC Address
<i>vlan-number</i>	(Optional) VLAN NUMBER
<i>ip-tos-value</i>	(Optional) IPv4 TOS Value
<i>interface-name</i>	(Optional) Physical Interface Name and Number
<i>action-strip-vlan</i>	(Optional) Perform the action STRIP-VLAN-ID
<i>action-drop-pkt</i>	(Optional) Perform the action Drop the Packet
<i>divert-action</i>	(Optional) Divert the packets to Controller
<i>copy-action</i>	(Optional) Copy the packets to Controller
<i>forward-normal</i>	(Optional) Forward the packets normally
<i>goto-pmap-handle</i>	(Optional) Pmap handle
<i>action-decrement-ttl</i>	(Optional) Decrement TTL on the Packet

Command Mode

- /exec

show port-channel capacity

show port-channel capacity [*__readonly__* <total> <used> <free> <percentage_used>]

Syntax Description

show	Show running system information
port-channel	Show port-channel information
capacity	Capacity information
<i>__readonly__</i>	(Optional)
<i>total</i>	(Optional) Total resource
<i>used</i>	(Optional) Used resource
<i>free</i>	(Optional) Free resource
<i>percentage_used</i>	(Optional) Used resource in percentage

Command Mode

- /exec

show port-channel compatibility-parameters

show port-channel compatibility-parameters [__readonly__ { <parameter> <description> } +]

Syntax Description

show	Show running system information
port-channel	Show port-channel information
compatibility-parameters	Show compatibility parameters
__readonly__	(Optional)
<i>parameter</i>	(Optional) Compatibility parameter
<i>description</i>	(Optional) Parameter description

Command Mode

- /exec

show port-channel database

```
show port-channel database [ interface <if0> ] [ __readonly__ TABLE_interface <interface>
<last-membership-update> <total-ports> <total-up-ports> [ <first_operational-port> ] <age-of-channel> [
<time-since-last-bundle> ] [ <last-bundled-member> ] [ <time-since-last-unbundle> ] [
<last-unbundled-member> ] [ { TABLE_member <port> <mode> <port-status> } ] [ <protocol> ] ]
```

Syntax Description

show	Show running system information
port-channel	Show port-channel information
database	Show port-channel database
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional) Port-channel table
<i>interface</i>	(Optional) Port channel
<i>mode</i>	(Optional) channel-group mode
<i>last-membership-update</i>	(Optional) Last membership update
<i>total-ports</i>	(Optional) Total number of member ports
<i>total-up-ports</i>	(Optional) Total number of UP member ports
<i>first_operational-port</i>	(Optional) First operational port
TABLE_member	(Optional) Member ports info
<i>port</i>	(Optional) Member port
<i>port-status</i>	(Optional) Member port status
<i>age-of-channel</i>	(Optional) Age of port channel
<i>time-since-last-bundle</i>	(Optional) Time since last port bundled
<i>last-bundled-member</i>	(Optional) Last bundled member port
<i>time-since-last-unbundle</i>	(Optional) Time since last port un-bundled
<i>last-unbundled-member</i>	(Optional) Last unbundled member port
<i>protocol</i>	(Optional) Port channel protocol

Command Mode

show port-channel database

- /exec

show port-channel load-balance

```
show port-channel load-balance { [ module <module> ] | { fex { all } } } [ __readonly__ <sys-cfg> {
<module-cfg> } + <non-ip-val> <non-ip-sel> <ipv4-val> <ipv4-sel> <ipv6-val> ]
```

Syntax Description

show	Show running system information
port-channel	Show port-channel information
load-balance	Show port-channel load balance
module	(Optional) slot
<i>module</i>	(Optional) Specify a module number
fex	FEX devices
all	Display all configured FEX port-channel LB
<i>__readonly__</i>	(Optional)
<i>sys-cfg</i>	(Optional) system wide load balance configuraton
<i>module-cfg</i>	(Optional) per module load balance configuraton
<i>non-ip-val</i>	(Optional) load balance setting for non-ip traffic
<i>non-ip-sel</i>	(Optional) non ip select
<i>ipv4-val</i>	(Optional) load balance setting for ipv4 traffic
<i>ipv4-sel</i>	(Optional) ip select
<i>ipv6-val</i>	(Optional) load balance setting for ipv6 traffic

Command Mode

- /exec

show port-channel load-balance forwarding-path1 interface src-interface

```
show port-channel load-balance forwarding-path1 interface <ch-id> src-interface <src-if> { vlan <vlan-id> |
src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6 <src-ipv6> | dst-ipv6
<dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ether-type <ethertype> | ip-prot <prot> }
+ [ __readonly__ { loadbalance-algorithm <algorithm> } { outgoing-port-id <port> } ]
```

Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
load-balance	Show port-channel load balance
forwarding-path1	Packet forwarding information
interface	Specify a port-channel number
<i>ch-id</i>	Port-Channel name
vlan	VLAN - for dot1Q tagged packets at ingress
<i>vlan-id</i>	VLAN ID
src-mac	Source MAC Address
<i>src-mac</i>	Source MAC address
dst-mac	Destination MAC Address
<i>dst-mac</i>	Destination MAC address
src-ip	Source IP address
<i>src-ip</i>	Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
dst-ipv6	Destination IPv6 address
l4-src-port	Source Port
<i>l4-src-port</i>	Source L4 port
l4-dst-port	Destination Port
<i>l4-dst-port</i>	Destination L4 port

ether-type	Ethernet Type
<i>ethertype</i>	Ethernet Type
src-interface	Optional source interface (physical switch port only)
<i>src-if</i>	Interface name
ip-proto	IP v4/v6 Protocol
<i>prot</i>	IP Protocol
__readonly__	(Optional)
loadbalance-algorithm	(Optional) load balance algorithm
<i>algorithm</i>	(Optional) algorithm
outgoing-port-id	(Optional) outgoing port-id
<i>port</i>	(Optional) port

Command Mode

- /exec

show port-channel load-balance forwarding-path interface

```
show port-channel load-balance forwarding-path { interface <ch-id> | hgig } { src-interface <src-if> | vlan
<vlan-id> | src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6 <src-ipv6> |
dst-ipv6 <dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ethertype <ethertype> | protocol
<prot> } + [ module <module> | fex <fex-range> | hgig-tgid <tgid> ] + [ source-interface <if-id> ] [
__readonly__ { loadbalance-algorithm <algorithm> } { outgoing-port-id <port> } ]
```

Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
load-balance	Show port-channel load balance
forwarding-path	Packet forwarding information
interface	Specify a port-channel number
<i>ch-id</i>	Port-Channel name
hgig	Higig hashing result (only with RTAG7)
vlan	VLAN of the ingress packet i.e. when available
<i>vlan-id</i>	
src-mac	Source MAC Address
<i>src-mac</i>	Source MAC address
dst-mac	Destination MAC Address
<i>dst-mac</i>	Destination MAC address
src-ip	Source IPv4 address
<i>src-ip</i>	Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
dst-ipv6	Destination IPv6 address
l4-src-port	Source L4 port
<i>l4-src-port</i>	Source L4 port
l4-dst-port	Destination l4 port
<i>l4-dst-port</i>	Destination L4 port

ethertype	Ethertype of the packet stream
<i>ethertype</i>	
src-interface	Optional source interface (physical switch port only)
<i>src-if</i>	Interface name
source-interface	(Optional) Source interface - Required paramter
<i>if-id</i>	(Optional) Interface name
protocol	Protocol
<i>prot</i>	
module	(Optional) Module #
<i>module</i>	(Optional)
fex	(Optional) FEX devices
<i>fex-range</i>	(Optional) FEX device range
hgig-tgid	(Optional) Hgig #
<i>tgid</i>	(Optional)
<u>__readonly__</u>	(Optional)
loadbalance-algorithm	(Optional) load balance algorithm
<i>algorithm</i>	(Optional) load balance algorithm
outgoing-port-id	(Optional) outgoing port-id
<i>port</i>	(Optional) outgoing port-id

Command Mode

- /exec

show port-channel load-balance hardware forwarding-path interface source

```
show port-channel load-balance hardware forwarding-path { interface <ch-id> | hgig } { source-interface
<if-id> } { vlan <vlan-id> | src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6
<src-ipv6> | dst-ipv6 <dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ethertype <ethertype>
| protocol <prot> } + [ module <module> | fex <fex-range> | hgig-tgid <tgid> ] [ __readonly__ {
loadbalance-algorithm <algorithm> } { outgoing-port-id <port> } ]
```

Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
load-balance	Show port-channel load balance
hardware	ASIC hardware based information
forwarding-path	Packet forwarding information
interface	Specify a port-channel number
<i>ch-id</i>	Port-Channel name
hgig	Higig hashing result (only with RTAG7)
source-interface	Source interface - Required paramter
<i>if-id</i>	Interface name
vlan	VLAN of the ingress packet i.e. when available
<i>vlan-id</i>	
src-mac	Source MAC Address
<i>src-mac</i>	Source MAC address
dst-mac	Destination MAC Address
<i>dst-mac</i>	Destination MAC address
src-ip	Source IPv4 address
<i>src-ip</i>	Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
dst-ipv6	Destination IPv6 address

l4-src-port	Source L4 port
<i>l4-src-port</i>	Source L4 port
l4-dst-port	Destination l4 port
<i>l4-dst-port</i>	Destination L4 port
ethertype	Ethertype of the packet stream
<i>ethertype</i>	
protocol	Protocol
<i>prot</i>	
module	(Optional) Module #
<i>module</i>	(Optional)
fex	(Optional) FEX devices
<i>fex-range</i>	(Optional) FEX device range
hgig-tgid	(Optional) Hgig #
<i>tgid</i>	(Optional)
<u>__readonly__</u>	(Optional)
loadbalance-algorithm	(Optional) load balance algorithm
<i>algorithm</i>	(Optional) load balance algorithm
outgoing-port-id	(Optional) outgoing port-id
<i>port</i>	(Optional) outgoing port-id

Command Mode

- /exec

show port-channel rbh-distribution

```
show port-channel rbh-distribution [ interface <if0> ] [ __readonly__ TABLE_channel <chan-id> <port> {
<rbh> } + <num_of_buckets> ]
```

Syntax Description

show	Show running system information
port-channel	Show port-channel information
rbh-distribution	Show RBH distribution for member ports
interface	(Optional) Specify a port-channel interface
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_channel	(Optional) Port-channel table
<i>chan-id</i>	(Optional) Channel ID
<i>port</i>	(Optional) Member port
<i>num_of_buckets</i>	(Optional) Channel ID
<i>rbh</i>	(Optional) Channel ID

Command Mode

- /exec

show port-channel summary

```
show port-channel summary [ interface <if0> | controller ] [ __readonly__ TABLE_channel <group>
<port-channel> <layer> <status> <type> <prtcl> [ { TABLE_member <port> <port-status> } ] ]
```

Syntax Description

show	Show running system information
port-channel	Show port-channel information
summary	Show port-channel summary
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
controller	(Optional) Show controller configured port-channels
<i>__readonly__</i>	(Optional)
TABLE_channel	(Optional) Port-channel table
<i>group</i>	(Optional) Channel group number
<i>port-channel</i>	(Optional) Port channel
<i>type</i>	(Optional) Channel type
<i>prtcl</i>	(Optional) Channel protocol
<i>status</i>	(Optional) Channel status
<i>layer</i>	(Optional) Channel layer info
TABLE_member	(Optional) Member table
<i>port</i>	(Optional) Member port
<i>port-status</i>	(Optional) Member port status

Command Mode

- /exec

show port-channel traffic

```
show port-channel traffic [ interface <if0> ] [ __readonly__ TABLE_channel <chanId> <port> <rx-ucst>
<tx-ucst> <rx-mcst> <tx-mcst> <rx-bcst> <tx-bcst> ]
```

Syntax Description

show	Show running system information
port-channel	Show port-channel information
traffic	Show port-channel traffic statistics
__readonly__	(Optional)
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
TABLE_channel	(Optional) Port-channel table
<i>chanId</i>	(Optional) Channel ID
<i>port</i>	(Optional) Member port
<i>rx-ucst</i>	(Optional) Received unicast
<i>tx-ucst</i>	(Optional) Transmitted unicast
<i>rx-mcst</i>	(Optional) Received multicast
<i>tx-mcst</i>	(Optional) Transmitted multicast
<i>rx-bcst</i>	(Optional) Received broadcast
<i>tx-bcst</i>	(Optional) Transmitted broadcast

Command Mode

- /exec

show port-channel usage

```
show port-channel usage [ __readonly__ <total-channel-number-used> { <used-range-low> [ <used-range-hi> ] } + { <unused-range-low> [ <unused-range-hi> ] } + ]
```

Syntax Description

show	Show running system information
port-channel	Show port-channel information
usage	Show port-channel number usage
<i>__readonly__</i>	(Optional)
<i>total-channel-number-used</i>	(Optional) Total used number of port-channels
<i>used-range-low</i>	(Optional) Used range low end value
<i>used-range-hi</i>	(Optional) Used range high end value
<i>unused-range-low</i>	(Optional) Un-used range low end value
<i>unused-range-hi</i>	(Optional) Un-used range high end value

Command Mode

- /exec

show port-profile

```
show port-profile [ name <all_profile_name> ] [ __readonly__ <profile_name> <profile_id> <type> <desc>
<status> <max_ports> <min_ports> <inherit> <profile_cfg> <cmd_depth> <cmd_key> <parent_seqno>
<cmd_seqno> <cmd_attr> <form_type> <cmd_mask> <shadow_cmd> <cmd_flags> <eval_cfg> <intf>
<cap_l3> <cap_iscsi> <ctrl_sgid> <pkt_sgid> <sys_vlans> <portgrp> <pprole> <port_binding> ]
```

Syntax Description

show	Show running system information
port-profile	Show port-profile
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
<i>profile_name</i>	(Optional)
<i>profile_id</i>	(Optional)
<i>type</i>	(Optional)
<i>desc</i>	(Optional)
<i>status</i>	(Optional)
<i>max_ports</i>	(Optional)
<i>min_ports</i>	(Optional)
<i>inherit</i>	(Optional)
<i>profile_cfg</i>	(Optional)
<i>cmd_depth</i>	(Optional)
<i>cmd_key</i>	(Optional)
<i>parent_seqno</i>	(Optional)
<i>cmd_seqno</i>	(Optional)
<i>cmd_attr</i>	(Optional)
<i>form_type</i>	(Optional)
<i>cmd_mask</i>	(Optional)
<i>shadow_cmd</i>	(Optional)
<i>cmd_flags</i>	(Optional)

<i>eval_cfg</i>	(Optional)
<i>intf</i>	(Optional)
<i>cap_l3</i>	(Optional) L3 Profile
<i>cap_iscsi</i>	(Optional) iSCSI cap
<i>ctrl_sgid</i>	(Optional) Control Vlan Pinned Sgid
<i>pkt_sgid</i>	(Optional) Packet Vlan Pinned Sgid
<i>sys_vlans</i>	(Optional) System Vlans
<i>portgrp</i>	(Optional) VMware Portgroup
<i>pprole</i>	(Optional) Port-profile Role
<i>port_binding</i>	(Optional) Port-binding

Command Mode

- /exec

show port-profile brief

```
show port-profile brief [ __readonly__ { TABLE_port_profile <profile_name> <type> <status>
<profile_cfg_cnt> <eval_cfg_cnt> <intf_cnt> <inherit_cnt> <header_flag> } { TABLE_intf_count <intf_type>
<intf_count> <tot_header_flag> } ]
```

Syntax Description

show	Show running system information
port-profile	Show port-profile
brief	Brief info about profiles
<i>__readonly__</i>	(Optional)
<i>profile_name</i>	(Optional)
TABLE_port_profile	(Optional)
<i>type</i>	(Optional)
<i>status</i>	(Optional)
<i>profile_cfg_cnt</i>	(Optional)
<i>eval_cfg_cnt</i>	(Optional)
<i>intf_cnt</i>	(Optional)
<i>inherit_cnt</i>	(Optional)
<i>header_flag</i>	(Optional)
TABLE_intf_count	(Optional)
<i>intf_type</i>	(Optional)
<i>intf_count</i>	(Optional)
<i>tot_header_flag</i>	(Optional)

Command Mode

- /exec

show port-profile expand-interface

```
show port-profile expand-interface [ name <all_profile_name> ] [ __readonly__ <profile_name> <intf>
<intf_cfg> ]
```

Syntax Description

show	Show running system information
port-profile	Show port-profile
expand-interface	Active profile config applied in a interface
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
<i>profile_name</i>	(Optional)
<i>intf</i>	(Optional)
<i>intf_cfg</i>	(Optional)

Command Mode

- /exec

show port-profile sync-status

```
show port-profile sync-status [ interface <intfname> ] [ __readonly__ <intf> <status> <inherit> <sync_status>
<cached_cmds> <errors> <recovery> ]
```

Syntax Description

show	Show running system information
port-profile	Show port-profile
sync-status	Interfaces out-of-sync with port-profiles
interface	(Optional) Interface name
<i>intfname</i>	(Optional) Name of interface
<i>__readonly__</i>	(Optional)
<i>intf</i>	(Optional)
<i>status</i>	(Optional)
<i>inherit</i>	(Optional)
<i>sync_status</i>	(Optional)
<i>cached_cmds</i>	(Optional)
<i>errors</i>	(Optional)
<i>recovery</i>	(Optional)

Command Mode

- /exec

show port-profile usage

```
show port-profile usage [ name <all_profile_name> ] [ __readonly__ TABLE_port_profile <profile_name>
{ TABLE_interface <interface> } ]
```

Syntax Description

show	Show running system information
port-profile	Show port-profile
usage	List of interfaces inherited a profile
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
TABLE_port_profile	(Optional)
TABLE_interface	(Optional)
<i>profile_name</i>	(Optional)
<i>interface</i>	(Optional)

Command Mode

- /exec

show port-security

```
show port-security [ __readonly__ { TABLE_eth_port_sec_interfaces <secure_port> <max_secure_addr>
<current_addr> <security_violation> <security_action> <num_val> <num_elems> <cmdid_show_index>
<port_state> } <total_addr> <max_sys_limit> ]
```

Syntax Description

port-security	Show secure port information
<i>__readonly__</i>	(Optional)
TABLE_eth_port_sec_interfaces	(Optional) Displays the secured interfaces
<i>secure_port</i>	(Optional) Interface Index
<i>max_secure_addr</i>	(Optional) Maximum number of secured MAC addresses
<i>current_addr</i>	(Optional) Number of secured MAC addresses
<i>security_violation</i>	(Optional) Number of security violations
<i>security_action</i>	(Optional) Security Action Shutdown/Restrict/Protect
<i>num_val</i>	(Optional) Number of Values
<i>num_elems</i>	(Optional) Number of Elements
<i>cmdid_show_index</i>	(Optional) Index for the Interfaces
<i>port_state</i>	(Optional) Port security enabled or disabled
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port

Command Mode

- /exec

show port-security address

```
show port-security address [ __readonly__ { TABLE_eth_port_sec_mac_addrs <vlan_id> <mac_addr> <type>
<if_index> <remain_age> <remote_learnt> <remote_aged> <num_elems> <cmd_addr_index> } <total_addr>
<max_sys_limit> ]
```

Syntax Description

port-security	Show secure port information
address	Show secure address
<i>__readonly__</i>	(Optional)
TABLE_eth_port_sec_mac_addrs	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>mac_addr</i>	(Optional) mac address
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>remain_age</i>	(Optional) Remaining age
<i>remote_learnt</i>	(Optional) Remotely learnt
<i>remote_aged</i>	(Optional) Remotely Aged Out
<i>num_elems</i>	(Optional) Number of Elements
<i>cmd_addr_index</i>	(Optional) Index for the interface address
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port

Command Mode

- /exec

show port-security address blocked

```
show port-security address blocked [ __readonly__ { TABLE_eth_port_sec_mac_addrs <vlan_id> <mac_addr>
<type> <if_index> <remain_age> <num_elems> <cmd_addr_index> } <total_addr> <max_sys_limit> ]
```

Syntax Description

port-security	Show secure port information
address	Show secure address
blocked	Port Security Blocked macs
<i>__readonly__</i>	(Optional)
TABLE_eth_port_sec_mac_addrs	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>mac_addr</i>	(Optional) mac address
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>remain_age</i>	(Optional) Remaining age
<i>num_elems</i>	(Optional) Number of Elements
<i>cmd_addr_index</i>	(Optional) Index for the interface address
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port

Command Mode

- /exec

show port-security address interface

```
show port-security address interface <interface-id> [ __readonly__ { TABLE_eth_port_sec_mac_addrs
<vlan_id> <mac_addr> <type> <if_index> <remain_age> <remote_learnt> <remote_aged> <num_elems>
} <total_addr> <max_sys_limit> <first> ]
```

Syntax Description

port-security	Show secure port information
address	Show secure address
interface	Show secure interface
<i>interface-id</i>	ethernet
<i>__readonly__</i>	(Optional)
TABLE_eth_port_sec_mac_addrs	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>mac_addr</i>	(Optional) mac address
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>remain_age</i>	(Optional) Remaining age
<i>remote_learnt</i>	(Optional) Remotely learnt
<i>remote_aged</i>	(Optional) Remotely Aged Out
<i>num_elems</i>	(Optional) Number of Elements
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port
<i>first</i>	(Optional) To identify the first entry

Command Mode

- /exec

show port-security address nvrाम

```
show port-security address nvrाम [ __readonly__ { TABLE_eth_port_sec_mac_addrs <vlan_id> <mac_addr>
<type> <if_index> <remain_age> <remote_learnt> <remote_aged> <num_elems> <cmd_addr_index> }
<total_addr> <max_sys_limit> ]
```

Syntax Description

port-security	Show secure port information
address	Show secure address
nvrाम	Port Security NVRAM
<i>__readonly__</i>	(Optional)
TABLE_eth_port_sec_mac_addrs	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>mac_addr</i>	(Optional) mac address
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>remain_age</i>	(Optional) Remaining age
<i>remote_learnt</i>	(Optional) Remotely learnt
<i>remote_aged</i>	(Optional) Remotely Aged Out
<i>num_elems</i>	(Optional) Number of Elements
<i>cmd_addr_index</i>	(Optional) Index for the interface address
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port

Command Mode

- /exec

show port-security detail interface

```
show port-security detail interface [ __readonly__ { TABLE_eth_port_sec_intf_detail <if_index>
<port_security> <port_status> <violation_mode> <aging_time> <aging_type> <max_mac_addr>
<total_sec_addrs> <trap_count> <addr_aging_enable> <secure_last_mac_addr> <sticky_enable>
<secure_last_mac_addr_vlan_id> } ]
```

Syntax Description

<code>port-security</code>	Show secure port information
<code>detail</code>	Show detailed information about secure interface
<code>interface</code>	Show secure interface
<code>TABLE_eth_port_sec_intf_detail</code>	(Optional) Displays the secured interface details
<code>__readonly__</code>	(Optional)
<code>if_index</code>	(Optional) Interface index
<code>port_security</code>	(Optional) Port Security is Enabled/Disabled
<code>port_status</code>	(Optional) Secure Up/Down
<code>violation_mode</code>	(Optional) Shutdown/Restrict/Protect
<code>aging_time</code>	(Optional) Aging time in minutes
<code>aging_type</code>	(Optional) Absolute/Inactivity
<code>max_mac_addr</code>	(Optional) Maximum number of MAC addresses that can be secured
<code>total_sec_addrs</code>	(Optional) Total number of secured MAC addresses
<code>trap_count</code>	(Optional) Trap Count
<code>addr_aging_enable</code>	(Optional) Specifies whether address aging is enabled
<code>secure_last_mac_addr</code>	(Optional) Secured last mac address
<code>sticky_enable</code>	(Optional) Specifies sticky feature is enabled on the port
<code>secure_last_mac_addr_vlan_id</code>	(Optional) Indicates the VLAN where the last MAC address seen on this interface

Command Mode

- /exec

show port-security interface

```
show port-security interface <interface-id> [ __readonly__ <config_port_security> <oper_port_security>
<port_status> <violation_mode> <aging_time> <aging_type> <max_mac_addr> <total_sec_addrs>
<conf_num_addrs> <num_sticky_addrs> <trap_count> ]
```

Syntax Description

port-security	Show secure port information
interface	Show secure interface
<i>interface-id</i>	ethernet
<i>__readonly__</i>	(Optional)
<i>config_port_security</i>	(Optional) Port Security configuration is Enabled/Disabled
<i>oper_port_security</i>	(Optional) Port Security is Operationally Enabled/Disabled
<i>port_status</i>	(Optional) Secure Up/Down
<i>violation_mode</i>	(Optional) Shutdown/Restrict/Protect
<i>aging_time</i>	(Optional) Aging time in minutes
<i>aging_type</i>	(Optional) Absolute/Inactivity
<i>max_mac_addr</i>	(Optional) Configured Maximum
<i>total_sec_addrs</i>	(Optional) Total number of secured MAC addresses
<i>conf_num_addrs</i>	(Optional) Number of configured MAC addresses
<i>num_sticky_addrs</i>	(Optional) Number of sticky MAC addresses
<i>trap_count</i>	(Optional) Trap Count

Command Mode

- /exec

show port-security multivlan address

```
show port-security multivlan address [ __readonly__ { TABLE_eth_port_sec_multi_vlan <if_index> <vlan_id>
<max_sec_mac_addr_count> <cur_sec_mac_addr_count> } ]
```

Syntax Description

port-security	Show secure port information
address	Show secure address
multivlan	Show port security information for a particular vlan in a multivlan port
__readonly__	(Optional)
TABLE_eth_port_sec_multi_vlan	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>max_sec_mac_addr_count</i>	(Optional) The maximum number of MAC addresses to be secured in the vlan
<i>cur_sec_mac_addr_count</i>	(Optional) Current number of MAC addresses secured in the VLAN

Command Mode

- /exec

show port-security secure address

```
show port-security secure address [ __readonly__ { TABLE_eth_port_sec_if_vlan_secure_mac_addr <if_index>
<mac_addr> <vlan_id> <mac_addr_type> <remain_age> } ]
```

Syntax Description

<code>port-security</code>	Show secure port information
<code>secure</code>	Show detail information about secure address
<code>address</code>	Show secure address
<code>__readonly__</code>	(Optional)
<code>TABLE_eth_port_sec_if_vlan_secure_mac_addr</code>	(Optional) Displays the secured MAC addresses
<code>if_index</code>	(Optional) Interface index
<code>mac_addr</code>	(Optional) mac address
<code>vlan_id</code>	(Optional) vlan id
<code>mac_addr_type</code>	(Optional) static/sticky/ MAC address
<code>remain_age</code>	(Optional) Remaining age

Command Mode

- /exec

show port-security state

show port-security state [__readonly__ <status>]

Syntax Description

port-security	Port security related command
state	port security state
__readonly__	(Optional)
<i>status</i>	(Optional) show port-security

Command Mode

- /exec

show port-security traps enable

show port-security traps enable [__readonly__ { <snmp_traps_enable> }]

Syntax Description

port-security	Show secure port information
traps	Enable SNMP traps
enable	enable
__readonly__	(Optional)
<i>snmp_traps_enable</i>	(Optional) SNMP traps enable/disable

Command Mode

- /exec

show privilege

show privilege

Syntax Description

show	Show running system information
privilege	Display privilege information

Command Mode

- /exec

show processes

```
show processes [ __readonly__ { [ TABLE_processes <pid> <state> <pc> <start_cnt> <tty> <p_type>
<process> ] } ]
```

Syntax Description

show	Show running system information
processes	Show processes
__readonly__	(Optional)
TABLE_processes	(Optional) all process information
<i>pid</i>	(Optional) process id
<i>state</i>	(Optional) process state
<i>pc</i>	(Optional) pc register
<i>start_cnt</i>	(Optional) TBD
<i>tty</i>	(Optional) TBD
<i>p_type</i>	(Optional) process type
<i>process</i>	(Optional) process name

Command Mode

- /exec

show processes cpu

```
show processes cpu [ sort ] [ __readonly__ { [ TABLE_process_cpu <pid> <runtime> <invoked> <usecs>
<onsec> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] } ]
```

Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
sort	(Optional) Show processes CPU Info (Sorted by Cpu Util with time base)
__readonly__	(Optional)
TABLE_process_cpu	(Optional) all process memory
<i>pid</i>	(Optional) process id
<i>runtime</i>	(Optional) Runtime
<i>invoked</i>	(Optional) Invoked
<i>usecs</i>	(Optional) usecs
<i>onsec</i>	(Optional) fivesec
<i>process</i>	(Optional) name of the process
<i>user_percent</i>	(Optional) user
<i>kernel_percent</i>	(Optional) kernel
<i>idle_percent</i>	(Optional) idle

Command Mode

- /exec

show processes cpu history

show processes cpu history

Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
history	Show processes CPU Util History

Command Mode

- /exec

show processes cpu module

```
show processes cpu module <i0> [ __readonly__ { [ TABLE_process_cpu <pid> <runtime> <invoked>
<usecs> <oneseq> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] } ]
```

Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
module	processes CPU Info
<i>i0</i>	module number
<i>__readonly__</i>	(Optional)
<i>TABLE_process_cpu</i>	(Optional) all process memory
<i>pid</i>	(Optional) process id
<i>runtime</i>	(Optional) Runtime
<i>invoked</i>	(Optional) Invoked
<i>usecs</i>	(Optional) usecs
<i>oneseq</i>	(Optional) oneseq
<i>process</i>	(Optional) name of the process
<i>user_percent</i>	(Optional) user
<i>kernel_percent</i>	(Optional) kernel
<i>idle_percent</i>	(Optional) idle

Command Mode

- /exec

show processes log

```
show processes log [ __readonly__ { [ TABLE_processes_log <vdc> <process> <pid> <normal_exit> <stack>
<core> <create_time> ] } ]
```

Syntax Description

show	Show running system information
processes	Show processes
log	Show information about process logs
<i>__readonly__</i>	(Optional)
TABLE_processes_log	(Optional) all processes log
<i>vdc</i>	(Optional) vdc
<i>process</i>	(Optional) vdc process name
<i>pid</i>	(Optional) pid
<i>normal_exit</i>	(Optional) process exit
<i>stack</i>	(Optional) stack
<i>core</i>	(Optional) core
<i>create_time</i>	(Optional) log create time

Command Mode

- /exec

show processes log details

show processes log details [__readonly__ { line_in_log_detail <line_in_file> }]

Syntax Description

show	Show running system information
processes	Show processes
log	Show information about process logs
details	Show detail of all logs with stack
__readonly__	(Optional)
line_in_log_detail	(Optional)
<i>line_in_file</i>	(Optional) each line

Command Mode

- /exec

show processes log pid

```
show processes log pid <i0> [ __readonly__ { TABLE_line_in_log_pid <line_in_file> } ]
```

Syntax Description

show	Show running system information
processes	Show processes
log	Show information about process logs
pid	Show detail log info about a specific process
<i>i0</i>	pid of the process
<i>__readonly__</i>	(Optional)
<i>TABLE_line_in_log_pid</i>	(Optional)
<i>line_in_file</i>	(Optional) each line

Command Mode

- /exec

show processes log vdc-all

```
show processes log vdc-all [ __readonly__ { [ TABLE_processes_log_vdc_all <vdc> <process> <pid>
<normal_exit> <stack> <core> <create_time> ] } ]
```

Syntax Description

TABLE_processes_log_vdc_all	(Optional) all processes log vdc all
show	Show running system information
processes	Show processes
log	Show information about process logs
vdc-all	Show information about process logs in all vdc's
__readonly__	(Optional)
vdc	(Optional) vdc process name
process	(Optional) vdc process name
pid	(Optional) process id
normal_exit	(Optional) process exit
stack	(Optional) stack
core	(Optional) core
create_time	(Optional) log create time

Command Mode

- /exec

show processes memory

```
show processes memory [ __readonly__ { TABLE_process_memory <mem_pid> <mem_alloc> <mem_limit>
<mem_used> <stack_base_ptr> <process> } ]
```

Syntax Description

show	Show running system information
processes	Show processes
memory	Show processes Memory Info
<i>__readonly__</i>	(Optional)
TABLE_process_memory	(Optional) all process memory
<i>mem_pid</i>	(Optional) process id
<i>mem_alloc</i>	(Optional) allocated memory
<i>mem_limit</i>	(Optional) memory limit
<i>mem_used</i>	(Optional) memory used
<i>stack_base_ptr</i>	(Optional) stack and base pointer
<i>process</i>	(Optional) name of the process

Command Mode

- /exec

show processes memory clis

show processes memory clis [shared | private]

Syntax Description

show	Show running system information
processes	Display process information
memory	Display memory information
clis	
shared	(Optional) Display CLIS shared memory information
private	(Optional) Display CLIS private memory information

Command Mode

- /exec

show processes memory shared

```
show processes memory shared [ detail | dynamic ] [ __readonly__ TABLE_process_tag [ <process-tag-out>
] [ <process-memory-share-dynamic-component-str> ] [ <process-memory-share-dynamic-shared-memory-str>
] [ <process-memory-share-dynamic-current-size-str> ] [ <process-memory-share-dynamic-max-size-str> ]
] [ <process-memory-share-dynamic-used-str> ] [ <process-memory-share-component-str> ] [
<process-memory-share-shared-memory-str> ] [ <process-memory-share-size-str> ] [
<process-memory-share-used-str> ] [ <process-memory-share-available-str> ] [ <process-memory-share-ref-str>
] [ <process-memory-share-byte-set-address-str> ] [ <process-memory-share-byte-set-count-str> ] [
<process-memory-share-address-str> ] [ <process-memory-share-kbytes-1-str> ] [
<process-memory-share-kbytes-2-str> ] [ <process-memory-share-kbytes-3-str> ] [
<process-memory-share-count-str> ] [ { TABLE_SMMITEM <process-memory-share-smr-name> } ] [ {
TABLE_SHOWPROC <process-memory-share-table-showproc-key> [ { TABLE_SHOWONEDYNAMIC
[ <process-memory-share-component> ] [ <process-memory-share-shared-memory> ] [
<process-memory-share-current-size> ] [ <process-memory-share-max-size> ] [ <process-memory-share-used>
] ] ] [ { TABLE_ONEITEM [ <process-memory-share-proc-smr-name> ] [ <process-memory-share-smr-addr>
] [ <process-memory-share-smr-size> ] [ <process-memory-share-smr-star-char> ] [
<process-memory-share-smr-empty-char> ] [ <process-memory-share-smr-used> ] [
<process-memory-share-smr-avail> ] [ <process-memory-share-smr-ref-count> ] [
<process-memory-share-dynamic-smr-name> } ] ] [ { TABLE_ONEITEMDYNAMIC [
<process-memory-share-dynamic-smr-addr> ] [ <process-memory-share-dynamic-smr-size> ] [
<process-memory-share-dynamic-plus-char> ] [ <process-memory-share-max-mem-size-str> ] [
<process-memory-share-dynamic-smr-used> ] [ <process-memory-share-dynamic-smr-avail> ] [
<process-memory-share-dynamic-smr-ref-count> ] [ <process-memory-share-region-smr-name> } ] ] ] [
<process-memory-share-total-shm-size> ] [ <process-memory-share-total-shm-used> ] [
<process-memory-share-total-shm-avail> ] ] ]
```

Syntax Description

show	Show running system information
processes	Display process information
memory	Display memory information
shared	Display shared memory info
detail	(Optional) Display shared memory in bytes instead of default kbytes
dynamic	(Optional) Display details of dynamic shared memory segments
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>process-memory-share-dynamic-component-str</i>	(Optional)
<i>process-memory-share-dynamic-shared-memory-str</i>	(Optional)
<i>process-memory-share-dynamic-current-size-str</i>	(Optional)

<i>process-memory-share-dynamic-max-size-str</i>	(Optional)
<i>process-memory-share-dynamic-used-str</i>	(Optional)
<i>process-memory-share-component-str</i>	(Optional)
<i>process-memory-share-shared-memory-str</i>	(Optional)
<i>process-memory-share-size-str</i>	(Optional)
<i>process-memory-share-used-str</i>	(Optional)
<i>process-memory-share-available-str</i>	(Optional)
<i>process-memory-share-ref-str</i>	(Optional)
<i>process-memory-share-byte-set-address-str</i>	(Optional)
<i>process-memory-share-byte-set-count-str</i>	(Optional)
<i>process-memory-share-address-str</i>	(Optional)
<i>process-memory-share-kbytes-1-str</i>	(Optional)
<i>process-memory-share-kbytes-2-str</i>	(Optional)
<i>process-memory-share-kbytes-3-str</i>	(Optional)
<i>process-memory-share-count-str</i>	(Optional)
TABLE_SMMITEM	(Optional)
<i>process-memory-share-smr-name</i>	(Optional)
TABLE_SHOWPROC	(Optional)
<i>process-memory-share-table-showproc-key</i>	(Optional)
TABLE_SHOWONEDYNAMIC	(Optional)
<i>process-memory-share-component</i>	(Optional)
<i>process-memory-share-shared-memory</i>	(Optional)
<i>process-memory-share-current-size</i>	(Optional)
<i>process-memory-share-max-size</i>	(Optional)
<i>process-memory-share-used</i>	(Optional)
TABLE_ONEITEM	(Optional)
<i>process-memory-share-proc-smr-name</i>	(Optional)
<i>process-memory-share-smr-addr</i>	(Optional)
<i>process-memory-share-smr-size</i>	(Optional)

<i>process-memory-share-smr-star-char</i>	(Optional)
<i>process-memory-share-smr-empty-char</i>	(Optional)
<i>process-memory-share-smr-used</i>	(Optional)
<i>process-memory-share-smr-avail</i>	(Optional)
<i>process-memory-share-smr-ref-count</i>	(Optional)
TABLE_ONEITEMDYNAMIC	(Optional)
<i>process-memory-share-dynamic-smr-name</i>	(Optional)
<i>process-memory-share-dynamic-smr-addr</i>	(Optional)
<i>process-memory-share-dynamic-smr-size</i>	(Optional)
<i>process-memory-share-dynamic-plus-char</i>	(Optional)
<i>process-memory-share-max-mem-size-str</i>	(Optional)
<i>process-memory-share-dynamic-smr-used</i>	(Optional)
<i>process-memory-share-dynamic-smr-avail</i>	(Optional)
<i>process-memory-share-dynamic-smr-ref-count</i>	(Optional)
<i>process-memory-share-region-smr-name</i>	(Optional)
<i>process-memory-share-total-shm-size</i>	(Optional)
<i>process-memory-share-total-shm-used</i>	(Optional)
<i>process-memory-share-total-shm-avail</i>	(Optional)

Command Mode

- /exec

show processes vdc

show processes vdc <e-vdc2>

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>

Command Mode

- /exec

show processes vdc cpu

show processes vdc <e-vdc2> cpu

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
cpu	Show processes CPU Info

Command Mode

- /exec

show processes vdc log

show processes vdc <e-vdc2> log

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Show information about process logs

Command Mode

- /exec

show processes vdc log details

show processes vdc <e-vdc2> log details

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Show information about process logs
details	Show detail of all logs with stack

Command Mode

- /exec

show processes vdc log pid

show processes vdc <e-vdc2> log pid <i1>

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Show information about process logs
pid	Show detail log info about a specific process
<i>i1</i>	pid of the process

Command Mode

- /exec

show processes vdc memory

```
show processes vdc <e-vdc2> memory [ __readonly__ { [ TABLE_process_memory <mem_pid> <mem_alloc>
<mem_limit> <mem_used> <stack_base_ptr> <process> ] [ <sum_mem_malloced> ] } ]
```

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
memory	Show processes Memory Info
<i>__readonly__</i>	(Optional)
TABLE_process_memory	(Optional) all process memory
<i>mem_pid</i>	(Optional) process id
<i>mem_alloc</i>	(Optional) allocated memory
<i>mem_limit</i>	(Optional) memory limit
<i>mem_used</i>	(Optional) memory used
<i>stack_base_ptr</i>	(Optional) stack and base pointer
<i>process</i>	(Optional) name of the process

Command Mode

- /exec

show processes version

```
show processes { version | threads } [ <comp-string> ] [ __readonly__ TABLE_component <component-name>
<version> <buildinfo> <sourceversion> ]
```

Syntax Description

show	Show running system information
processes	Display process information
version	Display system release information
threads	Threads Info
<i>comp-string</i>	(Optional) Component name for detailed information
<i>__readonly__</i>	(Optional)
<i>TABLE_component</i>	(Optional)
<i>component-name</i>	(Optional)
<i>version</i>	(Optional)
<i>buildinfo</i>	(Optional)
<i>sourceversion</i>	(Optional)

Command Mode

- /exec

show pss debug

show pss debug

Syntax Description

show	Show running system information
pss	display pss information
debug	display pss debug configuration

Command Mode

- /exec

show ptp brief

```
show ptp brief [ __readonly__ { TABLE_ptp <ptp-ifindex> <state> } <ptp-end> ]
```

Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>brief</code>	port states in brief
<code>__readonly__</code>	(Optional) Read Only
<code>TABLE_ptp</code>	(Optional) ptp table
<code>ptp-ifindex</code>	(Optional) ptp ifindex
<code>ptp-end</code>	(Optional) End of table
<code>state</code>	(Optional) BMC state

Command Mode

- /exec

show ptp clock

```
show ptp clock [ __readonly__ <clock-id> <domain-id> <num-ports> <priority1> <priority2> <class>
<accuracy> <scaled-log-variance> <offset-from-master> <mean-path-delay-to-master> <steps-removed> ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
clock	Set local clock attributes
<i>__readonly__</i>	(Optional) Read only
<i>domain-id</i>	(Optional) Domain Id
<i>clock-id</i>	(Optional) Clock Id
<i>priority1</i>	(Optional) Priority 1
<i>priority2</i>	(Optional) Priority 2
<i>num-ports</i>	(Optional) Number of PTP ports
<i>class</i>	(Optional) Class
<i>accuracy</i>	(Optional) Clock accuracy
<i>scaled-log-variance</i>	(Optional) scaled log variance
<i>offset-from-master</i>	(Optional) Offset from master
<i>mean-path-delay-to-master</i>	(Optional) mean path delay to master
<i>steps-removed</i>	(Optional) Steps removed

Command Mode

- /exec

show ptp clock foreign-masters record

```
show ptp clock foreign-masters record [ interface <if0> ] [ __readonly__ { TABLE_ptp <interface-name>
<clock-id> <priority1> <priority2> <class> <accuracy> <scaled-log-variance> <steps-removed> <is-gm> }
<ptp-end> ]
```

Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>clock</code>	Set local clock attributes
<code>foreign-masters</code>	foreign-masters
<code>record</code>	record
<code>if0</code>	(Optional)
<code>__readonly__</code>	(Optional) Read only
<code>TABLE_ptp</code>	(Optional) ptp table
<code>interface-name</code>	(Optional) interface name
<code>clock-id</code>	(Optional) Clock Id
<code>priority1</code>	(Optional) Priority 1
<code>priority2</code>	(Optional) Priority 2
<code>class</code>	(Optional) Class
<code>accuracy</code>	(Optional) Clock accuracy
<code>scaled-log-variance</code>	(Optional) scaled log variance
<code>steps-removed</code>	(Optional) Steps removed
<code>is-gm</code>	(Optional) Is Grandmaster
<code>ptp-end</code>	(Optional) End of table

Command Mode

- /exec

show ptp corrections

```
show ptp corrections [ __readonly__ { TABLE_ptp <intf-name> <sup-time> <correction-val>
<mean-path-delay> } <ptp-end> ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
__readonly__	(Optional) Read Only
corrections	Display last few corrections
TABLE_ptp	(Optional) ptp table
<i>intf-name</i>	(Optional) interface name
<i>sup-time</i>	(Optional) sup time
<i>correction-val</i>	(Optional) correction value
<i>ptp-end</i>	(Optional) End of table

Command Mode

- /exec

show ptp counters interface

```
show ptp counters { interface <if0> | all } [ { detail | ipv4 <ip> } ] [ __readonly__ [ TABLE_ptp
<interface_name> <accepted-ip> <tx-announce-pkts> <rx-announce-pkts> <tx-sync-pkts> <rx-sync-pkts>
<tx-follow-up-pkts> <rx-follow-up-pkts> <tx-delay-req-pkts> <rx-delay-req-pkts> <tx-delay-resp-pkts>
<rx-delay-resp-pkts> <tx-pdelay-req-pkts> <rx-pdelay-req-pkts> <tx-pdelay-resp-pkts> <rx-pdelay-resp-pkts>
<tx-pdelay-follow-up-pkts> <rx-pdelay-follow-up-pkts> <tx-mgmt-pkts> <rx-mgmt-pkts> ] <ptp-end> ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
__readonly__	(Optional) Read Only
counters	Display PTP packet counters
interface	Enter the port interface
all	Displays all information
<i>if0</i>	
detail	(Optional) Show detail
ipv4	(Optional) IP address for the stat info
<i>ip</i>	(Optional) IPv4 address (A.B.C.D)
TABLE_ptp	(Optional) ptp table
<i>interface_name</i>	(Optional) interface name
<i>accepted-ip</i>	(Optional) Accepted IP in unicast mode
<i>ptp-end</i>	(Optional) End of table

Command Mode

- /exec

show ptp packet-trace

```
show ptp packet-trace [ __readonly__ { TABLE_ptp <intf-name> <sup-time> <pkt_dir> <pkt_type> <pkt_info>
} <ptp-header> <ptp-end> ]
```

Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>__readonly__</code>	(Optional) Read Only
<code>packet-trace</code>	Display last few pkt traces
<code>TABLE_ptp</code>	(Optional) ptp table
<code>intf-name</code>	(Optional) interface name
<code>sup-time</code>	(Optional) sup time
<code>pkt_dir</code>	(Optional) pkt_dir
<code>pkt_type</code>	(Optional) pkt_type
<code>pkt_info</code>	(Optional) pkt_info
<code>ptp-header</code>	(Optional) Start of table
<code>ptp-end</code>	(Optional) End of table

Command Mode

- /exec

show ptp parent

```
show ptp parent [ __readonly__ <clock-id> <port-num> <obs-parent-offset> <obs-parent-clk-phase-chg>
<parent-ip> <gm-id> <gm-class> <gm-accuracy> <gm-scaled-log-variance> <gm-priority1> <gm-priority2>
]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
parent	parent clock
__readonly__	(Optional) Read only
<i>clock-id</i>	(Optional) Clock Id
<i>port-num</i>	(Optional) Port ID: port number
<i>obs-parent-offset</i>	(Optional) observed parent offset
<i>obs-parent-clk-phase-chg</i>	(Optional) observed parent clock phase change
<i>parent-ip</i>	(Optional) Parent clock IP
<i>gm-id</i>	(Optional) Grandmaster Id
<i>gm-class</i>	(Optional) Class
<i>gm-accuracy</i>	(Optional) Clock accuracy
<i>gm-scaled-log-variance</i>	(Optional) scaled log variance
<i>gm-priority1</i>	(Optional) GM Priority 1
<i>gm-priority2</i>	(Optional) GM Priority 2

Command Mode

- /exec

show ptp port interface

```
show ptp port interface <if0> [ __readonly__ <intf-name> <clock-id> <port-num> <version> <transport-mode>
<accepted-ip> <state> <vlan> <delay-req-intv> <ann-rx-tout> <peer-mean-path-delay> <ann-intv> <sync-intv>
<delay-mechanism> <peer-delay-req-intv> ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
port	port
interface	Enter the port interface
<i>if0</i>	
<i>__readonly__</i>	(Optional) Read only
<i>intf-name</i>	(Optional) interface name
<i>clock-id</i>	(Optional) Port ID: Clock Id
<i>port-num</i>	(Optional) Port ID: port number
<i>version</i>	(Optional) version
<i>transport-mode</i>	(Optional) Transport mode
<i>accepted-ip</i>	(Optional) Accepted IPs
<i>state</i>	(Optional) BMC state
<i>vlan</i>	(Optional) Vlan
<i>delay-req-intv</i>	(Optional) log mean delay req interval
<i>ann-rx-tout</i>	(Optional) announce receipt timeout
<i>peer-mean-path-delay</i>	(Optional) peer mean path delay
<i>ann-intv</i>	(Optional) announce interval
<i>sync-intv</i>	(Optional) sync interval
<i>delay-mechanism</i>	(Optional) delay mechanism
<i>peer-delay-req-intv</i>	(Optional) peer delay req interval

Command Mode

- /exec

show ptp time-property

show ptp time-property [*__readonly__* <current-utc-offset-valid> <current-utc-offset> <leap-59> <leap-61> <time-traceable> <freq-traceable> <ptp-timescale> <time-source>]

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
time-property	time property
<i>__readonly__</i>	(Optional) Read only
<i>current-utc-offset-valid</i>	(Optional) current_utc_offset_valid
<i>current-utc-offset</i>	(Optional) current_utc_offset
<i>leap-59</i>	(Optional) leap-59
<i>leap-61</i>	(Optional) leap-61
<i>time-traceable</i>	(Optional) time-traceable
<i>freq-traceable</i>	(Optional) freq-traceable
<i>ptp-timescale</i>	(Optional) ptp-timescale
<i>time-source</i>	(Optional) time-source

Command Mode

- /exec

show pulse

show pulse { ms | us | transmit | log-stats } { all | sup sap <sapno> }

Syntax Description

show	Show running system information
pulse	Pulse Utility
ms	In Milli Second Time Format
us	In Micro Second Time Format
transmit	MTS Send Statistics
log-stats	Remote Logging Statistics
all	Scan Pulse of All Subscribers
sup	Supervisor Application
sap	Staic MTS SAP
<i>sapno</i>	MTS SAP Number of an Application

Command Mode

- /exec



Q Commands

- [show qos dcbxp incompatibility interface](#), on page 2264
- [show qos dcbxp info](#), on page 2265
- [show qos shared-policer](#), on page 2266
- [show queuing1](#), on page 2268
- [show queuing burst-detect](#), on page 2270
- [show queuing interface](#), on page 2271
- [show queuing pfc-queue](#), on page 2273
- [show queuing pfc-queue snmp ifIndex](#), on page 2275
- [show queuing tabular](#), on page 2276

show qos dcbxp incompatibility interface

```
show qos dcbxp incompatibility interface <iface-num> [ __readonly__ { <pfc> <mtu> <lpg> <rpg> <bw>
<lfcqe> <rfcqe> <liscsi> <riscsi> } ]
```

Syntax Description

show	Show running system information
dcbxp	DCBXP
incompatibility	incompatibility information
interface	incompatibility info for interface
<i>iface-num</i>	Interface
<i>__readonly__</i>	(Optional)
<i>pfc</i>	(Optional) pfc
<i>mtu</i>	(Optional) MTU Value
<i>lpg</i>	(Optional) Local Priority Grouping
<i>rpg</i>	(Optional) Remote Priority Grouping
<i>bw</i>	(Optional) CIN: bandwidth/priority
<i>lfcqe</i>	(Optional) local fcoe
<i>rfcqe</i>	(Optional) remote fcoe
<i>liscsi</i>	(Optional) local iscsi
<i>riscsi</i>	(Optional) remote iscsi

Command Mode

- /exec

show qos dcbxp info

```
show qos dcbxp info [ __readonly__ { <intf> <pfc> <pfc> <pgr> <pgc> <mtur> <mtuc> <fcoer> <fcoec>
<iscsir> <iscsic> } ]
```

Syntax Description

show	Show running system information
dcbxp	DCBXP
info	information
__readonly__	(Optional)
<i>intf</i>	(Optional) Interface
<i>pfc</i>	(Optional) pfc recvd
<i>pfc</i>	(Optional) pfc compatible
<i>pgr</i>	(Optional) pg received
<i>pgc</i>	(Optional) pg compatible
<i>mtur</i>	(Optional) mtu received
<i>mtuc</i>	(Optional) mtu compatible
<i>fcoer</i>	(Optional) fcoe received
<i>fcoec</i>	(Optional) fcoe compatible
<i>iscsir</i>	(Optional) iscsi received
<i>iscsic</i>	(Optional) iscsi compatible

Command Mode

- /exec

show qos shared-policer

```
show qos shared-policer [ type qos1 ] [ <policer-name> ] [ __readonly__ { [ TABLE_policer <policer-name2>
[ <cir-spec> ] [ <bc-spec> ] [ <be-spec> ] [ <cir-rate-units> ] [ <cir> ] [ <bc-size-units> ] [ <bc> ] [
<pir-rate-units> ] [ <pir> ] [ <be-size-units> ] [ <be> ] [ <cnf-col-cmap> ] [ <exc-col-cmap> ] [ TABLE_action
<action-key> [ <cnf-act> ] [ <exc-act> ] [ <vio-act> ] [ <set-type> ] [ <enum-spec> ] [ <set-val> ] [
<tmap-from> ] [ <tmap-to> ] [ <tmap-name> ] ] ] } ]
```

Syntax Description

show	Show running system information
shared-policer	Shared policer
type	(Optional) Type of shared policer
qos1	(Optional) type qos
<i>policer-name</i>	(Optional) Shared policer name
<i>__readonly__</i>	(Optional)
TABLE_policer	(Optional) all police xml sessions
<i>policer-name2</i>	(Optional) Policer Name
TABLE_action	(Optional) all police actions xml sessions
<i>action-key</i>	(Optional) Count
<i>cir-spec</i>	(Optional) Is CIR keyword specified
<i>bc-spec</i>	(Optional) Is Committed Burst keyword specified
<i>be-spec</i>	(Optional) Is Extended Burst keyword specified
<i>cir-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps
<i>pir-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps
<i>bc-size-units</i>	(Optional) Units of size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>be-size-units</i>	(Optional) Units of size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>tmap-from</i>	(Optional)
<i>tmap-to</i>	(Optional)
<i>tmap-name</i>	(Optional) Table map name
<i>cnf-col-cmap</i>	(Optional) Conforming color class-map name
<i>exc-col-cmap</i>	(Optional) Exceeding color class-map name
<i>enum-spec</i>	(Optional) Is DSCP or PREC enum value specified

<i>cnf-act</i>	(Optional) Conform action (Police)
<i>exc-act</i>	(Optional) Exceed action (Police)
<i>vio-act</i>	(Optional) Violate action (Police)
<i>set-type</i>	(Optional) Type of set in police action
<i>set-val</i>	(Optional) Value of set type in police action

Command Mode

- /exec

show queuing1

```
show queuing1 [ interface <if_list> ] [ summary ] [ module <module> ] [ __readonly__ [
TABLE_queuing_interface <if_name_str> <dir> [ TABLE_qosgrp_cfg <qosgrp> [ <bandwidth> ] [ <priority>
] [ <shape-min> ] [ <shape-max> ] [ <shape-units> ] [ <buffer-size> ] [ <pause-threshold> ] [
<resume-threshold> ] [ <q-limit> ] [ <q-limit-type> ] ] [ TABLE_qosgrp_egress_stats <eq-qosgrp> [
TABLE_qosgrp_egress_stats_entry <eq-stat-type> <eq-stat-units> <eq-uc-stat-value> <eq-oobfc-uc-stat-value>
<eq-mc-stat-value> ] ] [ TABLE_ingress_stats_entry <ip-stat-type> <ip-stat-units> <ip-stat-value> ] [
TABLE_egress_stats_entry <ep-stat-type> <ep-stat-units> <ep-stat-value> ] [ <tx-ppp> <rx-ppp> [
TABLE_pfc_stats <cos> [ <pfc-qosgrp> ] [ <pfc-pg> ] <tx-pause-state> <tx-pause-count> <rx-pause-state>
<rx-pause-count> ] ] ] ]
```

Syntax Description

show	commands to display
queuing1	Queuing related information
interface	(Optional) Interface for displaying queuing config
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
summary	(Optional) summary
<i>__readonly__</i>	(Optional)
<i>if_name_str</i>	(Optional) interface name
<i>dir</i>	(Optional) Direction
TABLE_queuing_interface	(Optional) Queuing information of an interface
TABLE_qosgrp_cfg	(Optional) Qos-group configuration
<i>qosgrp</i>	(Optional) Qos-group value
<i>bandwidth</i>	(Optional) WRR bandwidth
<i>priority</i>	(Optional) Priority level
<i>shape-units</i>	(Optional) Shape units
<i>q-limit</i>	(Optional) Queue limit
<i>q-limit-type</i>	(Optional) Queue limit type (S-Static, D-Dynamic, U-Unlimited)
TABLE_ingress_stats_entry	(Optional) Ingress port statistics
<i>ip-stat-type</i>	(Optional) Ingress port statistics type
<i>ip-stat-units</i>	(Optional) Ingress port statistics units

TABLE_qosgrp_egress_stats	(Optional) Qos-group egress statistics
<i>eq-qosgrp</i>	(Optional) Qos-group value
TABLE_qosgrp_egress_stats_entry	(Optional) Qos-group egress statistics entry
<i>eq-stat-type</i>	(Optional) Qos-group egress statistics type
<i>eq-stat-units</i>	(Optional) Qos-group egress statistics units
TABLE_egress_stats_entry	(Optional) Egress port statistics
<i>ep-stat-type</i>	(Optional) Egress port statistics type
<i>ep-stat-units</i>	(Optional) Egress port statistics units
TABLE_pfc_stats	(Optional) Per COS PFC statistics
<i>cos</i>	(Optional) PFC COS
<i>pfc-qosgrp</i>	(Optional) Qos-group of the given COS
<i>pfc-pg</i>	(Optional) PG of the given COS/Qos-group
<i>tx-pause-state</i>	(Optional) Tx PFC state of the given COS
<i>rx-pause-state</i>	(Optional) Rx PFC state of the given COS

Command Mode

- /exec

show queuing burst-detect

```
show queuing burst-detect [ interface <if_name> [ queue <queue_num> ] ] [ module <module> ] [ detail ] [
__readonly__ [ TABLE_instance [ <if-str> ] [ <queue> ] [ <pipe> ] [ <threshold> ] [ <start-time> ] [ <peak>
] [ <peak-time> ] [ <end-depth> ] [ <end-time> ] [ <duration> ] ] ]
```

Syntax Description

show	commands to display
queuing	Queuing related information
burst-detect	Out of Band micro-burst queue statistics
interface	(Optional) Interface
<i>if_name</i>	(Optional) interface name
queue	(Optional) Queue number for displaying statistics
<i>queue_num</i>	(Optional) Queue number
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
detail	(Optional) detailed statistics
<i>if-str</i>	(Optional) Interface name
<i>__readonly__</i>	(Optional) Read Only
TABLE_instance	(Optional) Instance
<i>queue</i>	(Optional) Queue Number
<i>pipe</i>	(Optional) XPE-A or XPE-B
<i>threshold</i>	(Optional) Threshold value in bytes
<i>start-time</i>	(Optional) Start time of burst
<i>peak</i>	(Optional) Peak depth in bytes
<i>peak-time</i>	(Optional) Peak time of burst
<i>end-depth</i>	(Optional) End depth in bytes
<i>end-time</i>	(Optional) End time of burst
<i>duration</i>	(Optional) Duration of burst

Command Mode

- /exec

show queuing interface

```
show queuing interface <if_list> { [ summary ] [ module <module> ] } [ __readonly__ {
TABLE_queuing_interface <if_name_str> <dir> } { TABLE_qosgrp_cfg <qosgrp> <bandwidth> <priority>
<shape-min> <shape-max> <shape-units> <buffer-size> <pause-threshold> <resume-threshold> <q-limit>
<q-limit-type> } { TABLE_qosgrp_egress_stats <eq-qosgrp> } { TABLE_qosgrp_egress_stats_entry
<eq-stat-type> <eq-stat-units> <eq-uc-stat-value> <eq-oobfc-uc-stat-value> <eq-mc-stat-value> } {
TABLE_ingress_stats_entry <ip-stat-type> <ip-stat-units> <ip-stat-value> } { TABLE_egress_stats_entry
<ep-stat-type> <ep-stat-units> <ep-stat-value> } { <tx-ppp> <rx-ppp> } { TABLE_pfc_stats <cos>
<pfc-qosgrp> <pfc-pg> <tx-pause-state> <tx-pause-count> <rx-pause-state> <rx-pause-count> } ]
```

Syntax Description

show	commands to display
queuing	Queuing related information
interface	Interface for displaying queuing config
<i>if_list</i>	List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
summary	(Optional) summary
<i>__readonly__</i>	(Optional)
<i>if_name_str</i>	(Optional) interface name
<i>dir</i>	(Optional) Direction
TABLE_queuing_interface	(Optional) Queuing information of an interface
TABLE_qosgrp_cfg	(Optional) Qos-group configuration
<i>qosgrp</i>	(Optional) Qos-group value
<i>bandwidth</i>	(Optional) WRR bandwidth
<i>priority</i>	(Optional) Priority level
<i>shape-min</i>	(Optional) Minimum shape rate
<i>shape-max</i>	(Optional) Maximum shape rate
<i>shape-units</i>	(Optional) Shape units
<i>q-limit</i>	(Optional) Queue limit
<i>q-limit-type</i>	(Optional) Queue limit type (S-Static, D-Dynamic, U-Unlimited)
TABLE_ingress_stats_entry	(Optional) Ingress port statistics

<i>ip-stat-type</i>	(Optional) Ingress port statistics type
<i>ip-stat-units</i>	(Optional) Ingress port statistics units
TABLE_qosgrp_egress_stats	(Optional) Qos-group egress statistics
<i>eq-qosgrp</i>	(Optional) Qos-group value
TABLE_qosgrp_egress_stats_entry	(Optional) Qos-group egress statistics entry
<i>eq-stat-type</i>	(Optional) Qos-group egress statistics type
<i>eq-stat-units</i>	(Optional) Qos-group egress statistics units
TABLE_egress_stats_entry	(Optional) Egress port statistics
<i>ep-stat-type</i>	(Optional) Egress port statistics type
<i>ep-stat-units</i>	(Optional) Egress port statistics units
TABLE_pfc_stats	(Optional) Per COS PFC statistics
<i>cos</i>	(Optional) PFC COS
<i>pfc-qosgrp</i>	(Optional) Qos-group of the given COS
<i>pfc-pg</i>	(Optional) PG of the given COS/Qos-group
<i>tx-pause-state</i>	(Optional) Tx PFC state of the given COS
<i>rx-pause-state</i>	(Optional) Rx PFC state of the given COS

Command Mode

- /exec

show queuing pfc-queue

```
show queuing pfc-queue [ interface <if_list> ] [ module <module> ] [ detail ] [ __readonly__ <glb-wd-status>
<glb-wd-timer> <glb-wd-timer-thresh> <glb-auto-restore> <glb-fixed-restore> <glb-int-intf-multi> [
TABLE_queuing_interface <if_name_str> [ TABLE_qosgrp_stats <eq-qosgrp> [ TABLE_qosgrp_stats_entry
<q-stat-type> <q-shutdown> <q-restored> <q-pkt-drained> <q-pkt-dropped> <q-pkt-drained-n-dropped>
<q-aggr-pkt-dropped> <q-ing-pkt-dropped> <q-ing-aggr-pkt-dropped> ] ] [ TABLE_qosgrp_stats_summary
<qosgrp-summary> ] ] ]
```

Syntax Description

show	commands to display
queuing	Queuing related information
pfc-queue	PFC Queuing related information
interface	(Optional) Interface for displaying queuing config
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
detail	(Optional) Show detailed PFC Queuing WD information
<i>__readonly__</i>	(Optional)
<i>glb-wd-status</i>	(Optional) Global watch-dog timer status
<i>glb-wd-timer</i>	(Optional) Global watch-dog timer value in msec
<i>glb-wd-timer-thresh</i>	(Optional) Global watch-dog timer thresh value in ms
<i>glb-auto-restore</i>	(Optional) Global auto restore multiplier value
<i>glb-fixed-restore</i>	(Optional) Global fixed restore multiplier value
<i>glb-int-intf-multi</i>	(Optional) Global internal interface multiplier value
<i>if_name_str</i>	(Optional) interface name
TABLE_queuing_interface	(Optional) Queuing information of an interface
TABLE_qosgrp_stats	(Optional) Qos-group egress statistics
<i>eq-qosgrp</i>	(Optional) Qos-group value
TABLE_qosgrp_stats_entry	(Optional) Qos-group egress statistics entry
<i>q-stat-type</i>	(Optional) Queue stat
TABLE_qosgrp_stats_summary	(Optional) Qos-group egress statistics summary

<i>qosgrp-summary</i>	(Optional) Qos-group summary value
-----------------------	------------------------------------

Command Mode

- /exec

show queuing pfc-queue snmp ifIndex

```
show queuing pfc-queue snmp ifIndex <ifidx> [ __readonly__ TABLE-cpfcWatchdogIfQueueInfoTable
<ifidx_out> <queueno_out> <q-state> <q-shutdown> <q-restored> <q-pkt-dropped> <q-aggr-pkt-dropped>
<q-ing-pkt-dropped> <q-ing-aggr-pkt-dropped> ]
```

Syntax Description

show	Show running system information
queuing	Queuing related information
pfc-queue	PFC Queuing related information
snmp	Snmp information
ifIndex	Interface index
<i>ifidx</i>	Index
<i>__readonly__</i>	(Optional) Read Only
TABLE-cpfcWatchdogIfQueueInfoTable	(Optional) SNMP table
<i>ifidx_out</i>	(Optional) Interface index out
<i>queueno_out</i>	(Optional) Queue number out
<i>q-state</i>	(Optional) Queue state
<i>q-shutdown</i>	(Optional) Number of times queue is shutdown
<i>q-restored</i>	(Optional) Number of times queue is restored
<i>q-pkt-dropped</i>	(Optional) Number of packets dropped since last shutdown
<i>q-aggr-pkt-dropped</i>	(Optional) Number of aggregate packets dropped
<i>q-ing-pkt-dropped</i>	(Optional) Number of Ingress packets dropped
<i>q-ing-aggr-pkt-dropped</i>	(Optional) Number of aggregate Ingress packets dropped

Command Mode

- /exec

show queuing tabular

```
show queuing tabular [ non-zero [ drop-only ] ] [ interface <if_list> ] [ module <module> ] [ __readonly__ [
TABLE_queuing_interface<if_name_str><qos_group_name_0><qos_group_name_1><qos_group_name_2>
<qos_group_name_3><qos_group_name_4><qos_group_name_5><qos_group_name_6>
<qos_group_name_7><qos_group_name_cpu><qos_group_name_span><tx_uc_pkt_qos_0>
<tx_uc_byte_qos_0><tx_uc_drop_pkt_qos_0><tx_uc_drop_byte_qos_0><tx_oobfc_uc_pkt_qos_0>
<tx_oobfc_uc_byte_qos_0><tx_oobfc_uc_drop_pkt_qos_0><tx_oobfc_uc_drop_byte_qos_0>
<tx_fld_pkt_qos_0><tx_fld_byte_qos_0><tx_fld_drop_pkt_qos_0><tx_fld_drop_byte_qos_0>
<tx_mc_pkt_qos_0><tx_mc_byte_qos_0><tx_mc_drop_pkt_qos_0><tx_mc_drop_byte_qos_0>
<pfc_rx_qos_0><pfc_tx_qos_0><qos_grp_1><qos_grp_2><qos_grp_3><qos_grp_4><qos_grp_5>
<qos_grp_6><qos_grp_7><qos_grp_cpu><qos_grp_span><ing_drop_pkt> ] ]
```

Syntax Description

show	commands to display
queuing	Queuing related information
tabular	QoS stats in tabular form
non-zero	(Optional) Interface for non-zero stats
drop-only	(Optional) Interface for non-zero drop-only stats
interface	(Optional) Interface for displaying queuing config
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
__readonly__	(Optional)
<i>if_name_str</i>	(Optional) interface name
TABLE_queuing_interface	(Optional) Queuing information of an interface
<i>qos_group_name_0</i>	(Optional) QoS Group name
<i>qos_group_name_1</i>	(Optional) QoS Group name
<i>qos_group_name_2</i>	(Optional) QoS Group name
<i>qos_group_name_3</i>	(Optional) QoS Group name
<i>qos_group_name_4</i>	(Optional) QoS Group name
<i>qos_group_name_5</i>	(Optional) QoS Group name
<i>qos_group_name_6</i>	(Optional) QoS Group name
<i>qos_group_name_7</i>	(Optional) QoS Group name

<i>qos_group_name_cpu</i>	(Optional) QoS Group name
<i>qos_group_name_span</i>	(Optional) QoS Group name

Command Mode

- /exec

show queuing tabular



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show radius-cfs

```
show radius-cfs [ __readonly__ [ <distr_status> ] [ <session_status> ] [ <session_db> ] [ <merge_status> ] ]
```

Syntax Description

show	Show running system information
radius-cfs	Show radius cfs state
<i>__readonly__</i>	(Optional)
<i>distr_status</i>	(Optional) radius distribution status
<i>session_status</i>	(Optional) current session status
<i>session_db</i>	(Optional) status of session db
<i>merge_status</i>	(Optional) radius merge status

Command Mode

- /exec

show radius-server

```
show radius-server [ __readonly__ [ <global_secretKey> ] { <global_timeout> <retransmissionCount>
<global_deadtime> } [ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [
<global_testPassword> ] } { <server_count> [ TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ]
[ <secretKey> ] [ <timeout> ] [ <retries> ] ] [ { <host0> <auth_port> <acct_port> <shared_key>
<idle_time><test_username> <test_password> } + ] ]
```

Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>retransmissionCount</i>	(Optional) Retransmission count when there is no server response
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Radius global source interface
<i>global_idle_time</i>	(Optional) Radius global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of radius servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>auth_port</i>	(Optional) Authentication port used for this server
<i>acct_port</i>	(Optional) Accounting Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server
<i>retries</i>	(Optional) Retry count for individual servers
<i>host0</i>	(Optional) DNS name or IP address
<i>auth_port</i>	(Optional) RADIUS server's port for authentication
<i>acct_port</i>	(Optional) RADIUS server's port for accounting
<i>shared_key</i>	(Optional) RADIUS shared secret

<i>test_password</i>	(Optional) User password in test packets
----------------------	--

Command Mode

- /exec

show radius-server

```
show radius-server { <host0> } [ __readonly__ { <host1> } <auth_port> <acct_port> <shared_key>
<idle_time><test_username> <test_password> ]
```

Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
<i>host0</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>host1</i>	(Optional) DNS name or IP address
<i>auth_port</i>	(Optional) RADIUS server's port for authentication
<i>acct_port</i>	(Optional) RADIUS server's port for accounting
<i>shared_key</i>	(Optional) RADIUS shared secret
<i>test_password</i>	(Optional) User password in test packets

Command Mode

- /exec

show radius-server directed-request

```
show radius-server directed-request [ __readonly__ { <radius_directedRequest_status> } ]
```

Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
directed-request	Show directed server enable configuration
__readonly__	(Optional)
<i>radius_directedRequest_status</i>	(Optional) status of radius-server directed request

Command Mode

- /exec

show radius-server groups

```
show radius-server groups [ <s0> ] [ __readonly__ [ <num_of_groups> ] TABLE_group <group_name> [
TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ] ] [ <dead_time> ] [ <vrf_name> ] [
<source_interface> ] ]
```

Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
groups	Show RADIUS server group configuration information
<i>s0</i>	(Optional) RADIUS server group name
<i>__readonly__</i>	(Optional)
<i>num_of_groups</i>	(Optional) number of groups
TABLE_group	(Optional)
<i>group_name</i>	(Optional) name of the group
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) DNS name or IP address
<i>auth_port</i>	(Optional) radius server authentication port
<i>acct_port</i>	(Optional) radius server accounting port
<i>dead_time</i>	(Optional) Time interval for which the server is marked as dead before sending a test command
<i>vrf_name</i>	(Optional) name of the vrf
<i>source_interface</i>	(Optional) Interface Description

Command Mode

- /exec

show radius-server sorted

```
show radius-server sorted [ __readonly__ [ <global_secretKey> ] { <global_timeout> <retransmissionCount>
<global_deadtime> } [ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [
<global_testPassword> ] } { <server_count> } [ TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ]
[ <secretKey> ] [ <timeout> ] [ <retries> ] ] ]
```

Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
sorted	Show RADIUS servers sorted by name
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>retransmissionCount</i>	(Optional) Retransmission count when there is no server response
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Radius global source interface
<i>global_idle_time</i>	(Optional) Radius global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of radius servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>auth_port</i>	(Optional) Authentication port used for this server
<i>acct_port</i>	(Optional) Accounting Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server
<i>retries</i>	(Optional) Retry count for individual servers

Command Mode

- /exec

show radius-server statistics

```
show radius-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } } ]
```

Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
statistics	Show RADIUS statistics
<i>host0</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>server_state</i>	(Optional) Show state of server
<i>clock_time</i>	(Optional) Show clock time in terms of hours, minutes and seconds
<i>monitoring_statistics</i>	(Optional) Monitoring Statistics
<i>time_in_pstate</i>	(Optional) Time in previous state
<i>ndead</i>	(Optional) Number of times dead
<i>tt_in_dstate</i>	(Optional) Total time in dead state
<i>auth_statistics</i>	(Optional) Authentication Statistics
<i>acct_statistics</i>	(Optional) Accounting Statistics
<i>auth_failed_transactions</i>	(Optional) Authentication: Failed transactions
<i>auth_succ_transactions</i>	(Optional) Authentication: Successful transactions
<i>auth_req_sent</i>	(Optional) Authentication: Requests sent
<i>auth_req_timedout</i>	(Optional) Authentication: Requests timedout
<i>auth_resp_no_match</i>	(Optional) Authentication: Responses with no matching requests
<i>auth_resp_not_processed</i>	(Optional) Authentication: Responses not processed
<i>auth_resp_error</i>	(Optional) Authentication: Responses containing errors
<i>acct_failed_transactions</i>	(Optional) Accounting: Failed transactions
<i>acct_succ_transactions</i>	(Optional) Accounting: Successful transactions

<i>acct_req_sent</i>	(Optional) Accounting: Requests sent
<i>acct_req_timeout</i>	(Optional) Accounting: Requests timeout
<i>acct_resp_no_match</i>	(Optional) Accounting: Responses with no matching requests
<i>acct_resp_not_processed</i>	(Optional) Accounting: Responses not processed
<i>acct_resp_error</i>	(Optional) Accounting: Responses containing errors

Command Mode

- /exec

show radius status

```
show radius status [ __readonly__ [ <distr_status> ] [ <session_status> ] [ <session_owner> ] [ <session_db> ] [ <last_operation> ] [ <last_operation_status> ] [ <fail_code> ] ]
```

Syntax Description

show	Show running system information
radius	Show RADIUS Information
status	Show RADIUS cfs distribution status
<i>__readonly__</i>	(Optional)
<i>distr_status</i>	(Optional) radius distribution status
<i>session_status</i>	(Optional) current session status
<i>session_owner</i>	(Optional) owner of the current distribution session
<i>session_db</i>	(Optional) status of session db
<i>last_operation</i>	(Optional) last_operation
<i>last_operation_status</i>	(Optional) status of the last operation
<i>fail_code</i>	(Optional) reason for the failure of last operation

Command Mode

- /exec

show redundancy status

```
show redundancy status [ __readonly__ <rmode_admin> <rmode_opr> <this_sup> <this_sup_rd_st>
<this_sup_sup_st> <this_sup_int_st> <oth_sup> <oth_sup_rd_st> <oth_sup_sup_st> <oth_sup_int_st>
<sys_strt_time> <sys_uptm_days> <sys_uptm_hrs> <sys_uptm_mins> <sys_uptm_secs> <kern_uptm_days>
<kern_uptm_hrs> <kern_uptm_mins> <kern_uptm_secs> <asup_uptm_days> <asup_uptm_hrs>
<asup_uptm_mins> <asup_uptm_secs> ]
```

Syntax Description

show	
redundancy	Show system redundancy status
status	Current redundancy status
<i>__readonly__</i>	(Optional)
<i>rmode_admin</i>	(Optional)
<i>rmode_opr</i>	(Optional)
<i>this_sup</i>	(Optional)
<i>this_sup_rd_st</i>	(Optional)
<i>this_sup_sup_st</i>	(Optional)
<i>this_sup_int_st</i>	(Optional)
<i>oth_sup</i>	(Optional)
<i>oth_sup_rd_st</i>	(Optional)
<i>oth_sup_sup_st</i>	(Optional)
<i>oth_sup_int_st</i>	(Optional)
<i>sys_strt_time</i>	(Optional)
<i>sys_uptm_days</i>	(Optional)
<i>sys_uptm_hrs</i>	(Optional)
<i>sys_uptm_mins</i>	(Optional)
<i>sys_uptm_secs</i>	(Optional)
<i>kern_uptm_days</i>	(Optional)
<i>kern_uptm_hrs</i>	(Optional)
<i>kern_uptm_mins</i>	(Optional)
<i>kern_uptm_secs</i>	(Optional)

<i>asup_uptm_days</i>	(Optional)
<i>asup_uptm_hrs</i>	(Optional)
<i>asup_uptm_mins</i>	(Optional)
<i>asup_uptm_secs</i>	(Optional)

Command Mode

- /exec

show regexp

```
show { ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] all | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } regexp <regexp-str> [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	Display BGP information for all address families
regexp	Display routes matching the AS path regular expression
<i>regexp-str</i>	Regular expression to match the AS paths

Command Mode

- /exec

show resource

```
show resource [ <res-mgr-res-known-name> ] [ hidden-too | with-flags ] [ __readonly__ {
TABLE_vdc_resource_local <res_name> <min> <max> <used> <unused> <free> } ]
```

Syntax Description

show	Show running system information
resource	Show resource configuration for VDC
<i>res-mgr-res-known-name</i>	(Optional) Resource name
hidden-too	(Optional) Also show hidden resources
with-flags	(Optional) Also show resource flags
__readonly__	(Optional) Read Only
TABLE_vdc_resource_local	(Optional)
<i>res_name</i>	(Optional) Resource Name
<i>min</i>	(Optional) Resource min configuration
<i>max</i>	(Optional) Resource max configuration
<i>used</i>	(Optional) Resource current usage for this VDC
<i>unused</i>	(Optional) Resource reserved for this VDC but currently not used
<i>free</i>	(Optional) Resource current free for this VDC

Command Mode

- /exec

show rmon

```
show rmon { alarms | events | hcalarms | info | logs } [ __readonly__ [ TABLE_rmon_alarm { <alarm-str>
<ascii-buf-str> <samp-type-str> <ris-trshod-str> <fall-trshod-str> <start-enable-str> } ] [ TABLE_rmon_event
{ <ev-alararm-str> <ev-desc-str> <ev-fir-cause> <last-fired> } ] [ TABLE_rmon_hcala { <hc-alararm-str>
<hc-ascii-buf-str> <hc-sam-ty-str> <hc-ris-thresh-str> <hc-fal-thresh-str> <start-alm-str> <fail-attem-str> }
] [ TABLE_rmon_info { <max-32-64-ala-str> <max-conf-32-ala-str> <max-conf-64-ala-str> } ] [
TABLE_rmon_log { <event-id-str> <rmon-pch> [ <log-buff-str> ] <log-oid> } ] ]
```

Syntax Description

show	Show running system information
rmon	Display RMON statistics
alarms	Display the RMON alarm table
events	Display the RMON event table
hcalarms	Display the RMON HC(High Capacity) Alarm table
info	Display the RMON info
logs	Display the RMON event log table
__readonly__	(Optional)
TABLE_rmon_alarm	(Optional)
<i>alarm-str</i>	(Optional)
<i>ascii-buf-str</i>	(Optional)
<i>samp-type-str</i>	(Optional)
<i>ris-trshod-str</i>	(Optional)
<i>fall-trshod-str</i>	(Optional)
<i>start-enable-str</i>	(Optional)
TABLE_rmon_event	(Optional)
<i>ev-alararm-str</i>	(Optional)
<i>ev-desc-str</i>	(Optional)
<i>ev-fir-cause</i>	(Optional)
<i>last-fired</i>	(Optional)
TABLE_rmon_hcala	(Optional)
<i>hc-alararm-str</i>	(Optional)

<i>hc-ascii-buf-str</i>	(Optional)
<i>hc-sam-ty-str</i>	(Optional)
<i>hc-ris-thresh-str</i>	(Optional)
<i>hc-fal-thresh-str</i>	(Optional)
<i>start-alm-str</i>	(Optional)
<i>fail-attem-str</i>	(Optional)
TABLE_rmon_info	(Optional)
<i>max-32-64-ala-str</i>	(Optional)
<i>max-conf-32-ala-str</i>	(Optional)
<i>max-conf-64-ala-str</i>	(Optional)
TABLE_rmon_log	(Optional)
<i>event-id-str</i>	(Optional)
<i>rmon-pch</i>	(Optional)
<i>log-buff-str</i>	(Optional)
<i>log-oid</i>	(Optional)

Command Mode

- /exec

show role

```
show role [ name <arg3> ] [ __readonly__ TABLE_role <role_name> <role_description> [ <attribute_scope>
] [ <permit_vsan> ] [ <permit_vlan> ] [ <permit_interface> ] [ <permit_vrf> ] TABLE_rule <rule_num>
<rule_action> { <rule_permission> | <rule_permission_mds> } [ <rule_featuretype> ] [ <rule_entity> ] ]
```

Syntax Description

show	Show running system information
role	Show role configuration
name	(Optional) Enter the role name
<i>arg3</i>	(Optional) Enter the role name
<i>__readonly__</i>	(Optional)
TABLE_role	(Optional)
<i>role_name</i>	(Optional)
<i>role_description</i>	(Optional)
<i>attribute_scope</i>	(Optional)
<i>permit_vsan</i>	(Optional)
<i>permit_vlan</i>	(Optional)
<i>permit_interface</i>	(Optional)
<i>permit_vrf</i>	(Optional)
TABLE_rule	(Optional)
<i>rule_num</i>	(Optional)
<i>rule_action</i>	(Optional)
<i>rule_permission</i>	(Optional)
<i>rule_permission_mds</i>	(Optional)
<i>rule_featuretype</i>	(Optional)
<i>rule_entity</i>	(Optional)

Command Mode

- /exec

show role feature-group

```
show role feature-group [ name <arg4> ] [ detail ] [ __readonly__ TABLE_role_feature_group
<feature_group_name> TABLE_role_feature <feature_name> [ TABLE_role_feature_rule <feature_rule> ]
]
```

Syntax Description

show	Show running system information
role	Show role configuration
feature-group	Role feature group
name	(Optional) Enter the feature-group name
<i>arg4</i>	(Optional) Feature-group name
detail	(Optional) Detailed information including feature rules
<i>__readonly__</i>	(Optional)
TABLE_role_feature_group	(Optional)
<i>feature_group_name</i>	(Optional)
TABLE_role_feature	(Optional)
<i>feature_name</i>	(Optional)
TABLE_role_feature_rule	(Optional)
<i>feature_rule</i>	(Optional)

Command Mode

- /exec

show role feature

```
show role feature [ name <arg5> | detail ] [ __readonly__ TABLE_role_feature <feature_name> [
TABLE_role_feature_rule <feature_rule> ] ]
```

Syntax Description

show	Show running system information
role	Show role configuration
feature	Role feature
name	(Optional) Enter the feature name
<i>arg5</i>	(Optional) Feature name
detail	(Optional) Detailed information including feature rules
<i>__readonly__</i>	(Optional)
TABLE_role_feature	(Optional)
<i>feature_name</i>	(Optional)
TABLE_role_feature_rule	(Optional)
<i>feature_rule</i>	(Optional)

Command Mode

- /exec

show rollback log exec

```
show rollback log { exec | verify } [ __readonly__ [ <log_entry> + ] ]
```

Syntax Description

show	Show running system information
rollback	Show rollback
log	show rollback log
exec	show rollback execution log
verify	show rollback verify log
<i>__readonly__</i>	(Optional) Read only
<i>log_entry</i>	(Optional) log entry from rollback log

Command Mode

- /exec

show rollback status

show rollback status [*__readonly__* <last_operation> <rollback_type> <name> <start_time> <end_time> <operation_status>]

Syntax Description

show	Show running system information
rollback	show rollback
status	show status of last rollback operation
<i>__readonly__</i>	(Optional) Read only
<i>last_operation</i>	(Optional) last operation
<i>rollback_type</i>	(Optional) rollback type
<i>name</i>	(Optional) name
<i>start_time</i>	(Optional) start time
<i>end_time</i>	(Optional) end time
<i>operation_status</i>	(Optional) operation status

Command Mode

- /exec

show route-map

```
show route-map [ <route-map-name> | <route-map-cfg-name> ] [ __readonly__ TABLE_rmap <name> <seq>
<action> [ <descript> ] [ <continue> ] [ { TABLE_rmap_match <match_type> <match_stmt> } ] [ {
TABLE_rmap_set <set_type> <set_stmt> } ] ]
```

Syntax Description

show	Show running system information
route-map	Route-map information
<i>route-map-name</i>	(Optional) Route-map name
<i>route-map-cfg-name</i>	(Optional) Known route-map name
<i>__readonly__</i>	(Optional)
TABLE_rmap	(Optional)
TABLE_rmap_match	(Optional)
TABLE_rmap_set	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>descript</i>	(Optional)
<i>continue</i>	(Optional)
<i>match_type</i>	(Optional)
<i>match_stmt</i>	(Optional)
<i>set_type</i>	(Optional)
<i>set_stmt</i>	(Optional)

Command Mode

- /exec

show route-map pbr-statistics

```
show route-map { <pbr_rmap_name> | <pbr_rmap_cfg_name> } pbr-statistics [ __readonly__ <tag> <action>
<seq> <pbr_pkt_count> <dflt_rtg_pkt_count> ]
```

Syntax Description

show	Show running system information
route-map	Route-map information
<i>pbr_rmap_name</i>	Route-map name
<i>pbr_rmap_cfg_name</i>	Known route-map name
pbr-statistics	PBR statistics
<i>__readonly__</i>	(Optional)
<i>tag</i>	(Optional)
<i>action</i>	(Optional)
<i>seq</i>	(Optional)
<i>pbr_pkt_count</i>	(Optional)
<i>dflt_rtg_pkt_count</i>	(Optional)

Command Mode

- /exec

show router-guard

```
show router-guard [ vlan <vlan_id> ]
```

Syntax Description

show	Show running system information
router-guard	Shows router guard config details for all interfaces
vlan	(Optional) Only for the specified VLAN
<i>vlan_id</i>	(Optional) VLAN ID

Command Mode

- /exec

show routing-context

show routing-context

Syntax Description

show	Show running system information
routing-context	Display the current routing context

Command Mode

- /exec

show routing-privilege

show routing-privilege

Syntax Description

show	Show running system information
routing-privilege	Display the current privilege level

Command Mode

- /exec

show routing clients

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] clients [ <client> | <protocol> ] [ __readonly__ { TABLE_client <client_name>
<pib_index> <epid> [ <mts_sap> ] [ <mts_sap_str> ] <mru_cache_hits> <mru_cache_misses> <pib_stale_time>
<pss_created> [ <bad_l3vm_table_refcount> ] [ <pib_stale_timer> ] [ { TABLE_nib_node
<uribtibtype_contextname> [ <all_igp> ] [ <self> ] [ <all> ] [ <unib_notify_mask> ] <routes> <rnhs> <labels>
[ <convg_req_mask> ] [ <convg_send_mask> ] [ <utib_state> ] [ <pending_timer> ] [ <urib_state_invalid>
} ] [ { TABLE_msgs_rcvd <urib_mtype_str> <upib_rcvd> } ] [ { TABLE_msgs_sent <urib_mtype_str>
<upib_sent> } ] ] ]
```

Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
clients	Display urib client information
<i>client</i>	(Optional) Display single urib client information
<i>protocol</i>	(Optional) Display single urib client information
__readonly__	(Optional)
TABLE_client	(Optional)
<i>client_name</i>	(Optional)
<i>pib_index</i>	(Optional)
<i>epid</i>	(Optional)
<i>mts_sap</i>	(Optional)
<i>mts_sap_str</i>	(Optional)

<i>mru_cache_hits</i>	(Optional)
<i>mru_cache_misses</i>	(Optional)
<i>pib_stale_time</i>	(Optional)
<i>pss_created</i>	(Optional)
<i>bad_l3vm_table_refcount</i>	(Optional)
<i>pib_stale_timer</i>	(Optional)
TABLE_nib_node	(Optional)
<i>uribtibtype_contextname</i>	(Optional)
<i>all_igp</i>	(Optional)
<i>self</i>	(Optional)
<i>all</i>	(Optional)
<i>unib_notify_mask</i>	(Optional)
<i>routes</i>	(Optional)
<i>rnhs</i>	(Optional)
<i>labels</i>	(Optional)
<i>convg_req_mask</i>	(Optional)
<i>convg_send_mask</i>	(Optional)
<i>utib_state</i>	(Optional)
<i>pending_timer</i>	(Optional)
<i>urib_state_invalid</i>	(Optional)
TABLE_msgs_rcvd	(Optional)
<i>urib_mtype_str</i>	(Optional)
<i>upib_rcvd</i>	(Optional)
TABLE_msgs_sent	(Optional)
<i>urib_mtype_str</i>	(Optional)
<i>upib_sent</i>	(Optional)

Command Mode

- /exec

show routing event-history

```
show routing [ ip | ipv4 ] [ unicast ] [ internal ] event-history { statistics | msgs | { { add-route | cli | delete-route
| detail | dme | errors | general | ha | loop-detection | modify-route | notifications | recursive-next-hop | summary
| ufdm | ufdm-detail | ufdm-summary } [ filter [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ client
{ <client> | <protocol> } ] [ prefix-list <pfxlist-name> ] ] } }
```

Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
internal	(Optional) Commands for internal use
event-history	Show routing event log
statistics	Show routing event log Statistics
msgs	Show routing message event log
add-route	Add route
cli	CLI
delete-route	Delete route
detail	Detail
dme	DME
errors	Errors
general	General
ha	HA
loop-detection	Loop detection
modify-route	Modify route
notifications	Notification
recursive-next-hop	Recursive next hop
summary	Summary
ufdm	UFDM

<code>ufdm-detail</code>	UFDM Detail
<code>ufdm-summary</code>	UFDM Summary
<code>filter</code>	(Optional) Filter event log
<code>vrf</code>	(Optional) Filter VRF
<code>vrf-name</code>	(Optional) VRF name
<code>vrf-known-name</code>	(Optional) Known VRF name
<code>vrf-all</code>	(Optional) Filter for all VRFs
<code>client</code>	(Optional) Filter by client
<code>client</code>	(Optional) Filter by single urib client
<code>protocol</code>	(Optional) Filter by single urib client
<code>prefix-list</code>	(Optional) Filter by IPv4 prefix-list
<code>pxlist-name</code>	(Optional) IPv4 prefix list name

Command Mode

- /exec

show routing hash

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] hash <source> <dest> [ ip-proto <ip-proto> ] [ <src-port> <dest-port> ] [ in-interface
<in-interface> ] [ module <module-id> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_hashpath <mcast> <hashpath> <hash-val>
TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path <ubest> <mbest>
<ipnexthop> <ifname> <pref> <metric> <uptime> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ]
[ <hidden> ] [ <stale-label> ] ]
```

Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hash	Display load-balancing hash information
<i>source</i>	Source IPv4 address of unicast flow or group address for multicast flow
<i>dest</i>	Destination IPv4 address of unicast flow or source address for multicast flow
<i>src-port</i>	(Optional) Source-port
<i>dest-port</i>	(Optional) Destination-port
in-interface	(Optional) Incoming Interface for Packet.Option valid on Tomahawk platform only
<i>in-interface</i>	(Optional) Interface Name
ip-proto	(Optional) IP Protocol information for the packet
<i>ip-proto</i>	(Optional) IP Protocol information for the packet
module	(Optional) Module

<i>module-id</i>	(Optional) Module
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_hashpath	(Optional)
<i>mcast</i>	(Optional)
<i>hashpath</i>	(Optional)
<i>hash-val</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pref</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)
<i>type</i>	(Optional)
<i>tag</i>	(Optional)
<i>stale</i>	(Optional)
<i>unres</i>	(Optional)
<i>hidden</i>	(Optional)

<i>stale-label</i>	(Optional)
--------------------	------------

Command Mode

- /exec

show routing hidden-nh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] hidden-nh [ __readonly__ <uribtibtype_contextname> [ <utibtibtype_topologyname> ]
{ TABLE_hidden_nh <hidden_nh_uhn_prefix> <hidden_nh_uhn_mask_len> <pib> <rnh> <rnh_mask_len>
} ]
```

Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hidden-nh	Display hidden next-hop information
<i>__readonly__</i>	(Optional)
<i>uribtibtype_contextname</i>	(Optional)
<i>utibtibtype_topologyname</i>	(Optional)
TABLE_hidden_nh	(Optional)
<i>hidden_nh_uhn_prefix</i>	(Optional)
<i>hidden_nh_uhn_mask_len</i>	(Optional)
<i>pib</i>	(Optional)
<i>rnh</i>	(Optional)
<i>rnh_mask_len</i>	(Optional)

Command Mode

- /exec

show routing ipv6 clients

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ]
clients [ <client> | <ipv6-protocol> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
{ TABLE_client <client_name> <pib_index> <pib_state> <pib_id> <multicast_or_unicast_pib>
<mru_cache_hits> <mru_cache_misses> [ <mts_sap> ] [ <mts_sap_str> ] [ <bad_l3vm_table_refcount> ]
<pib_stale_time> [ { TABLE_nib_node <u6ribtype_contextname> <routes> <rnhs> [ {
TABLE_notiffee_mask [ <u6pib_name> ] [ <index> } ] [ <u6tib_state> ] [ <pending_timer> ] [
<u6rib_state_invalid> ] [ <u6nib_notifier_all> ] [ { TABLE_notify_rcd <notify_rcd_name>
<notify_rcd_handle> [ <notifier_pib_u6pib_index> } ] ] [ { TABLE_notiffee_nib <notiffee_pib_u6pib_name>
<u6nib_notify_handle> } ] ] ] [ { TABLE_ready_client_event_queue <queue_name><queue_count> [ {
TABLE_client_event <event> <use_buf> <sched> <resend> <buf> [ <state> } ] ] ] [ {
TABLE_buffer_rqst_client_event_queue <queue_name><queue_count> [ { TABLE_client_event <event>
<use_buf> <sched> <resend> <buf> [ <state> } ] ] ] <update_ack_queue_count> [ { TABLE_update_ack
<update_ack> <update_ack_data> <update_ack_type> <update_ack_xid> } ] ] [ {
TABLE_route_buffer_used_queue <queue_name> <queue_count> [ { TABLE_clt_buf
<clt_buf><clt_buf_count><clt_buf_xid> } ] ] ] [ { TABLE_rnh_buffer_used_queue <queue_name>
<queue_count> [ { TABLE_clt_buf <clt_buf><clt_buf_count><clt_buf_xid> } ] ] ] [ { TABLE_msgs_rcvd
<u6rib_mtype_str><u6pib_rcvd> } ] [ { TABLE_msgs_sent <u6rib_mtype_str><u6pib_sent> } ] ] ]
```

Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
clients	Display u6rib client information
<i>client</i>	(Optional) Display single u6rib client information
<i>ipv6-protocol</i>	(Optional) Display single u6rib client information
__readonly__	(Optional)
TABLE_client	(Optional)
<i>client_name</i>	(Optional)

<i>pib_index</i>	(Optional)
<i>pib_state</i>	(Optional)
<i>pib_id</i>	(Optional)
<i>multicast_or_unicast_pib</i>	(Optional)
<i>mru_cache_hits</i>	(Optional)
<i>mru_cache_misses</i>	(Optional)
<i>mts_sap</i>	(Optional)
<i>mts_sap_str</i>	(Optional)
<i>bad_l3vm_table_refcount</i>	(Optional)
<i>pib_stale_time</i>	(Optional)
TABLE_nib_node	(Optional)
<i>u6ribtibtype_contextname</i>	(Optional)
<i>routes</i>	(Optional)
<i>rnhs</i>	(Optional)
TABLE_notifeee_mask	(Optional)
<i>u6pib_name</i>	(Optional)
<i>index</i>	(Optional)
<i>u6tib_state</i>	(Optional)
<i>pending_timer</i>	(Optional)
<i>u6rib_state_invalid</i>	(Optional)
<i>u6nib_notifier_all</i>	(Optional)
TABLE_notify_rcd	(Optional)
<i>notify_rcd_name</i>	(Optional)
<i>notify_rcd_handle</i>	(Optional)
<i>notifier_pib_u6pib_index</i>	(Optional)
TABLE_notiffee_nib	(Optional)
<i>notiffee_pib_u6pib_name</i>	(Optional)
<i>u6nib_notify_handle</i>	(Optional)
TABLE_ready_client_event_queue	(Optional)

<i>queue_name</i>	(Optional)
<i>queue_count</i>	(Optional)
TABLE_client_event	(Optional)
<i>event</i>	(Optional)
<i>use_buf</i>	(Optional)
<i>sched</i>	(Optional)
<i>resend</i>	(Optional)
<i>buf</i>	(Optional)
<i>state</i>	(Optional)
TABLE_buffer_rqst_client_event_queue	(Optional)
<i>queue_name</i>	(Optional)
<i>queue_count</i>	(Optional)
TABLE_client_event	(Optional)
<i>event</i>	(Optional)
<i>use_buf</i>	(Optional)
<i>sched</i>	(Optional)
<i>resend</i>	(Optional)
<i>buf</i>	(Optional)
<i>state</i>	(Optional)
<i>update_ack_queue_count</i>	(Optional)
TABLE_update_ack	(Optional)
<i>update_ack</i>	(Optional)
<i>update_ack_data</i>	(Optional)
<i>update_ack_type</i>	(Optional)
<i>update_ack_xid</i>	(Optional)
TABLE_route_buffer_used_queue	(Optional)
TABLE_clt_buf	(Optional)
TABLE_rnh_buffer_used_queue	(Optional)
TABLE_clt_buf	(Optional)

TABLE_msgs_rcvd	(Optional)
TABLE_msgs_sent	(Optional)

Command Mode

- /exec

show routing ipv6 event-history

show routing ipv6 [unicast] [internal] event-history { statistics | msgs | am | cli | detail | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary }

Syntax Description

show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
internal	(Optional) Commands for internal use
event-history	Show routing event log
statistics	Show routing event log Statistics
msgs	Show routing message event log
am	AM
cli	CLI
detail	Detail
errors	Errors
general	General
ha	HA
lfe	LFE
recursive-next-hop	Recursive next hop
summary	Summary
ufdm	UFDM
ufdm-detail	UFDM Detail
ufdm-summary	UFDM Summary

Command Mode

- /exec

show routing ipv6 hash

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] hash [ mpls <ipv6-prefix> [ eos ] ] <source> <dest> [ ip-proto <ip-proto> ] [ <src-port> <dest-port> ] [ in-interface <in-interface> ] [ module <module-id> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> [ <hash-type> ] [ <mcast> ] [ <hashpath> ] TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <ifname> ] <pref> <metric> <uptime> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <hidden> ] ]
```

Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hash	Display load-balancing hash information
mpls	(Optional) MPLS path load-balancing hash information
eos	(Optional) Set End-of-Stack to 1
ip-proto	(Optional) IP Protocol information for the packet
<i>ip-proto</i>	(Optional) IP Protocol information for the packet
<i>src-port</i>	(Optional) Source-port
<i>dest-port</i>	(Optional) Destination-port
in-interface	(Optional) Incoming Interface for Packet.Option valid on Tomahawk platform only.
<i>in-interface</i>	(Optional) Interface Name
module	(Optional) Module
<i>module-id</i>	(Optional) Module
__readonly__	(Optional)

TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>hash-type</i>	(Optional)
<i>mcast</i>	(Optional)
<i>hashpath</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)
<i>type</i>	(Optional)
<i>stale</i>	(Optional)
<i>hidden</i>	(Optional)

Command Mode

- /exec

show routing ipv6 hidden-nh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] hidden-nh [ __readonly__ <uribtibtype_contextname> { TABLE_hidden_nh <nh> <nh-iod> <hidden_nh_uhn_prefix> <hidden_nh_uhn_mask_len> <pib> <rn timer> <rn timer_mask_len> } ]
```

Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hidden-nh	Display hidden next-hop information
<i>__readonly__</i>	(Optional)
<i>uribtibtype_contextname</i>	(Optional)
TABLE_hidden_nh	(Optional)
<i>nh</i>	(Optional)
<i>nh-iod</i>	(Optional)
<i>hidden_nh_uhn_prefix</i>	(Optional)
<i>hidden_nh_uhn_mask_len</i>	(Optional)
<i>pib</i>	(Optional)
<i>rn timer</i>	(Optional)
<i>rn timer_mask_len</i>	(Optional)

Command Mode

- /exec

show routing ipv6 memory estimate

```
show routing ipv6 [ unicast ] memory estimate [ routes <route-count> next-hops <nh-count> ] [ labels ] [
__readonly__ <curr-max-MB> <curr-max-routes> <curr-max-nh> <inuse-MB> <inuse-routes> <inuse-nh>
<conf-max-MB> <conf-max-routes> <conf-max-nh> [ <est-MB> <est-routes> <est-nh> ] ]
```

Syntax Description

show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
memory	Display u6rib memory information
estimate	Display u6rib memory estimate
routes	(Optional) Display u6rib memory estimate for # routes
<i>route-count</i>	(Optional) Number of routes
next-hops	(Optional) Display u6rib memory estimate for # next-hops per route
<i>nh-count</i>	(Optional) Number of next-hops per route
labels	(Optional) When the routes are associated with next hop labels
<i>__readonly__</i>	(Optional)
<i>curr-max-MB</i>	(Optional)
<i>curr-max-routes</i>	(Optional)
<i>curr-max-nh</i>	(Optional)
<i>inuse-MB</i>	(Optional)
<i>inuse-routes</i>	(Optional)
<i>inuse-nh</i>	(Optional)
<i>conf-max-MB</i>	(Optional)
<i>conf-max-routes</i>	(Optional)
<i>conf-max-nh</i>	(Optional)
<i>est-MB</i>	(Optional)
<i>est-routes</i>	(Optional)
<i>est-nh</i>	(Optional)

Command Mode

- /exec

show routing ipv6 memory statistics

```
show routing ipv6 [ unicast ] memory statistics [ __readonly__ { TABLE_shrd_mem <rbuf-alloc>
<rbuf-high-water> <rbuf-max> <rbuf-numalloc> <slbs-alloc> <slbs-high-water> <slbs-max> <slbs-numalloc>
} { TABLE_u6rib_slabs <slab-name> <alloc-count> <max-allocs> <slab-size> } { TABLE_u6rib_blks
<slab-blk-name> <block-count> <max-blocks> <slab-count> } { TABLE_u6rib_routes_rnhs <ctx-name>
<user-nodes> <total-nodes> <elem-size> } ]
```

Syntax Description

show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast routing information
memory	Display u6rib memory information
statistics	Display u6rib memory statistics
<i>__readonly__</i>	(Optional)
TABLE_shrd_mem	(Optional)
TABLE_u6rib_slabs	(Optional)
TABLE_u6rib_blks	(Optional)
TABLE_u6rib_routes_rnhs	(Optional)
<i>ctx-name</i>	(Optional)
<i>slab-name</i>	(Optional)
<i>slab-blk-name</i>	(Optional)
<i>rbuf-alloc</i>	(Optional)
<i>rbuf-high-water</i>	(Optional)
<i>rbuf-max</i>	(Optional)
<i>rbuf-numalloc</i>	(Optional)
<i>slbs-alloc</i>	(Optional)
<i>slbs-high-water</i>	(Optional)
<i>slbs-max</i>	(Optional)
<i>slbs-numalloc</i>	(Optional)
<i>user-nodes</i>	(Optional)

<i>total-nodes</i>	(Optional)
<i>elem-size</i>	(Optional)
<i>alloc-count</i>	(Optional)
<i>max-allocs</i>	(Optional)
<i>slab-size</i>	(Optional)
<i>block-count</i>	(Optional)
<i>max-blocks</i>	(Optional)
<i>slab-count</i>	(Optional)

Command Mode

- /exec

show routing ipv6 multicast

```
show routing ipv6 multicast [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ topology <topology-name> ]
[ [ bitfield ] | rp | { [ <group> ] summary [ software-forwarded ] } | { summary [ count | software-forwarded
] } | { { <source> <group> } | { <group> [ <source> ] } } [ summary [ software-forwarded ] | bitfield ] ] [
__readonly__ { TABLE_vrf <vrf-name> [ TABLE_addr <mcast-addr> <pending> <bidir> <uptime> [
TABLE_mpib <mpib-name> <stale-route> ] <if-name><rpf-nbr> <internal>
<oif-count><fabric-oif><fabric-loser> [ TABLE_oif <oif-name> <oif-uptime> [ TABLE_oif_mpib
<oif-mpib-name> <stale-oif> ] <rpf> ] [ <oif-list-bitfield> ] ] [ <total-route-count> <star-g-count>
<source-count> <star-g-prefix-count> <group-count> <avg-sources-per-group><rem> [
<reason-for-route-stats-pending> ] ] [ TABLE_group <group-addr> <group-mask-len> <source-count-per-grp>
[ TABLE_source <route-or-source> [ <name> ] <packets> <bytes> <aps> <pps> <bit-rate-in-bps> <oifs> [
<software-pkts> ] ] ] }
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
routing	Display routing information
multicast	Display multicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
summary	(Optional) Display route counts
software-forwarded	(Optional) Display software switched route counts only
rp	(Optional) Display RP routes (RP, 0::/128)
count	(Optional) Display route counts only
bitfield	(Optional) Display bitfield details
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_addr	(Optional)

<i>mcast-addr</i> s	(Optional)
<i>bidir</i>	(Optional)
<i>pending</i>	(Optional)
<i>uptime</i>	(Optional)
<i>internal</i>	(Optional)
TABLE_mpib	(Optional)
<i>mpib-name</i>	(Optional)
<i>stale-route</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>oif-uptime</i>	(Optional)
<i>rpf</i>	(Optional)
<i>oif-list-bitfield</i>	(Optional)
TABLE_oif_mpib	(Optional)
<i>oif-mpib-name</i>	(Optional)
<i>stale-oif</i>	(Optional)
<i>total-route-count</i>	(Optional)
<i>star-g-count</i>	(Optional)
<i>source-count</i>	(Optional)
<i>star-g-prefix-count</i>	(Optional)
<i>group-count</i>	(Optional)
<i>reason-for-route-stats-pending</i>	(Optional)
TABLE_group	(Optional)
<i>group-addr</i>	(Optional)
<i>group-mask-len</i>	(Optional)
<i>source-count-per-grp</i>	(Optional)
TABLE_source	(Optional)
<i>route-or-source</i>	(Optional)
<i>name</i>	(Optional)

<i>packets</i>	(Optional)
<i>bytes</i>	(Optional)
<i>aps</i>	(Optional)
<i>pps</i>	(Optional)
<i>bit-rate-in-bps</i>	(Optional)
<i>oifs</i>	(Optional)
<i>software-pkts</i>	(Optional)

Command Mode

- /exec

show routing ipv6 multicast clients

```
show routing ipv6 multicast clients [ <client-name> ] [ __readonly__ { TABLE_client <client-name> <cid>
<pid> <mts-sap> <shared-mem> <is-stale-timer-running> <wants-notification> [ TABLE_protocol
<SSM-owner> <Bidir-owner> <static-owner> <shared-only-owner> <locally-joined-owner> <external-owner>
<Fabric-owner> ] { TABLE_join_notifications <sent> <fail> <ack-rcvd> } { TABLE_prune_notifications
<sent> <fail> <ack-rcvd> } { TABLE_rpf_notifications <sent> <fail> <ack-rcvd> } {
TABLE_delete_notifications <sent> <fail> <ack-rcvd> } { TABLE_clear_mroute_notifications <sent> <fail>
} { TABLE_add_route_req <rcvd> <ack-sent> <ack-fail> } { TABLE_del_route_req <rcvd> <ack-sent>
<ack-fail> } { TABLE_upd_route_req <rcvd> <ack-sent> <ack-fail> } { TABLE_mts_route_req <rcvd>
<ack-sent> <ack-fail> } } ]
```

Syntax Description

show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
multicast	Display multicast information
clients	Display multicast routing client information
<i>client-name</i>	(Optional) Multicast routing client name
<i>__readonly__</i>	(Optional)
TABLE_client	(Optional)
<i>client-name</i>	(Optional)
<i>cid</i>	(Optional)
<i>pid</i>	(Optional)
<i>mts-sap</i>	(Optional)
<i>shared-mem</i>	(Optional)
<i>is-stale-timer-running</i>	(Optional)
<i>wants-notification</i>	(Optional)
TABLE_protocol	(Optional)
<i>SSM-owner</i>	(Optional)
<i>Bidir-owner</i>	(Optional)
<i>static-owner</i>	(Optional)
<i>shared-only-owner</i>	(Optional)
<i>locally-joined-owner</i>	(Optional)

<i>external-owner</i>	(Optional)
<i>Fabric-owner</i>	(Optional)
TABLE_join_notifications	(Optional)
<i>sent</i>	(Optional)
<i>fail</i>	(Optional)
<i>ack-rcvd</i>	(Optional)
TABLE_prune_notifications	(Optional)
<i>sent</i>	(Optional)
<i>fail</i>	(Optional)
<i>ack-rcvd</i>	(Optional)
TABLE_rpf_notifications	(Optional)
<i>sent</i>	(Optional)
<i>fail</i>	(Optional)
<i>ack-rcvd</i>	(Optional)
TABLE_delete_notifications	(Optional)
<i>sent</i>	(Optional)
<i>fail</i>	(Optional)
<i>ack-rcvd</i>	(Optional)
TABLE_clear_mroute_notifications	(Optional)
<i>sent</i>	(Optional)
<i>fail</i>	(Optional)
<i>ack-rcvd</i>	(Optional)
TABLE_add_route_req	(Optional)
<i>rcvd</i>	(Optional)
<i>ack-sent</i>	(Optional)
<i>ack-fail</i>	(Optional)
TABLE_del_route_req	(Optional)
<i>rcvd</i>	(Optional)
<i>ack-sent</i>	(Optional)
<i>ack-fail</i>	(Optional)

TABLE_upd_route_req	(Optional)
<i>rcvd</i>	(Optional)
<i>ack-sent</i>	(Optional)
<i>ack-fail</i>	(Optional)
TABLE_mts_route_req	(Optional)
<i>rcvd</i>	(Optional)
<i>ack-sent</i>	(Optional)
<i>ack-fail</i>	(Optional)

Command Mode

- /exec

show routing ipv6 multicast event-history

```
show routing ipv6 multicast [ internal ] event-history { errors | msgs | <m6rib-event-hist-buf-name> | statistics
}
```

Syntax Description

show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
multicast	Display multicast information
internal	(Optional) Commands for internal use
event-history	Show various event logs of M6RIB
errors	Show error logs of M6RIB
msgs	Show various message logs of M6RIB
<i>m6rib-event-hist-buf-name</i>	M6RIB event history buffer name
statistics	Show the state and size of the buffers

Command Mode

- /exec

show routing ipv6 multicast memory estimate

```
show routing ipv6 multicast memory estimate [ groups <group-count> sources-per-group <source-count>
oifs-per-entry <oif-count> ] [ __readonly__ { { TABLE_cur_max <current-max-mb> <groups>
<sources-per-group> <oifs-per-entry> } { TABLE_in_use <in-use_kb> <groups> <sources-per-group>
<oifs-per-entry> } { TABLE_conf_max <conf-max-mb> <groups> <sources-per-group> <oifs-per-entry> }
[ TABLE_est_max <estimate-mb> <groups> <sources-per-group> <oifs-per-entry> ] } ]
```

Syntax Description

show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
multicast	Display multicast information
memory	Display m6rib memory information
estimate	Display m6rib memory estimate
groups	(Optional) Display m6rib memory estimate for # groups
<i>group-count</i>	(Optional) Number of groups
sources-per-group	(Optional) Display mrib memory estimate for # sources per group
<i>source-count</i>	(Optional) Number of sources per route
oifs-per-entry	(Optional) Display mrib memory estimate for # oifs per (S,G) or (*,G) entry
<i>oif-count</i>	(Optional) Number of oifs per entry
<i>__readonly__</i>	(Optional)
TABLE_cur_max	(Optional)
<i>current-max-mb</i>	(Optional)
<i>groups</i>	(Optional)
<i>sources-per-group</i>	(Optional)
<i>oifs-per-entry</i>	(Optional)
TABLE_in_use	(Optional)
<i>in-use_kb</i>	(Optional)
<i>groups</i>	(Optional)
<i>sources-per-group</i>	(Optional)

<i>oifs-per-entry</i>	(Optional)
TABLE_conf_max	(Optional)
<i>conf-max-mb</i>	(Optional)
<i>groups</i>	(Optional)
<i>sources-per-group</i>	(Optional)
<i>oifs-per-entry</i>	(Optional)
TABLE_est_max	(Optional)
<i>estimate-mb</i>	(Optional)
<i>groups</i>	(Optional)
<i>sources-per-group</i>	(Optional)
<i>oifs-per-entry</i>	(Optional)

Command Mode

- /exec

show routing ipv6 nexthop info

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] nexthop info [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ]
```

Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
nexthop	Show the nh_info tree
info	Show the nh_info tree

Command Mode

- /exec

show routing ipv6 nhlfe

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] nhlfe [ stats ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ { TABLE_vrf <vrf-name-out> [ <nhlfe-owner> <nhlfe-refcount> { TABLE_nhlable <nhlable-index> <nhl-label> } <nhlfe-is-vpn> <nhlfe-owner-index> } ] <total-entries> ] ]
```

Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
nhlfe	Display NHLFE db
stats	(Optional) Display statistics
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>nhlfe-owner</i>	(Optional)
<i>nhlfe-refcount</i>	(Optional)
TABLE_nhlable	(Optional)
<i>nhlable-index</i>	(Optional)
<i>nhl-label</i>	(Optional)
<i>nhlfe-is-vpn</i>	(Optional)
<i>nhlfe-owner-index</i>	(Optional)
<i>total-entries</i>	(Optional)

Command Mode

- /exec

show routing ipv6 recursive-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] recursive-next-hop [ <ipv6-addr> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_prefix <ipprefix> <uptime> TABLE_clients <client-req> <client-pend> ]
```

Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
recursive-next-hop	Display recursive next-hop table
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(Optional)
<i>uptime</i>	(Optional)
TABLE_clients	(Optional)
<i>client-req</i>	(Optional)
<i>client-pend</i>	(Optional)

Command Mode

- /exec

show routing memory estimate

```
show routing [ ip | ipv4 ] [ unicast ] memory estimate [ routes <route-count> [ next-hops <nh-count> ] [
next-hops-v6 <nh6-count> ] ] [ labels ] [ __readonly__ <current_max_mb> <current_max_routes>
<urib_max_nh> <used_mb> <route_stats_alloc_count> <nhs> <configured_max_mb>
<configured_max_routes> <urib_routes_max_nh> [ <estimate_mb> <estimate_routes> <estimate_nhs>
<estimate_with_mvpn_mb> <estimate_with_ospf_mb> <estimate_with_eigrp_mb> ] ]
```

Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
memory	Display urib memory information
estimate	Display urib memory estimate
routes	(Optional) Display urib memory estimate for # routes
<i>route-count</i>	(Optional) Number of routes
next-hops	(Optional) Display urib memory estimate for # next-hops per route
<i>nh-count</i>	(Optional) Number of next-hops per route
next-hops-v6	(Optional) Display urib memory estimate for # V6 next-hops per route
<i>nh6-count</i>	(Optional) Number of V6 next-hops per route
labels	(Optional) When the routes are associated with next hop labels
<i>__readonly__</i>	(Optional)
<i>current_max_mb</i>	(Optional)
<i>current_max_routes</i>	(Optional)
<i>urib_max_nh</i>	(Optional)
<i>used_mb</i>	(Optional)
<i>route_stats_alloc_count</i>	(Optional)
<i>nhs</i>	(Optional)
<i>configured_max_mb</i>	(Optional)
<i>configured_max_routes</i>	(Optional)

<i>urib_routes_max_nh</i>	(Optional)
<i>estimate_mb</i>	(Optional)
<i>estimate_routes</i>	(Optional)
<i>estimate_nhs</i>	(Optional)
<i>estimate_with_mvpn_mb</i>	(Optional)
<i>estimate_with_ospf_mb</i>	(Optional)
<i>estimate_with_eigrp_mb</i>	(Optional)

Command Mode

- /exec

show routing memory statistics

```
show routing [ ip | ipv4 ] [ unicast ] memory statistics [ __readonly__ { TABLE_shrd_mem <ubuf-alloc>
<ubuf-high-water> <ubuf-max> <ubuf-numalloc> <rbuf-alloc> <rbuf-high-water> <rbuf-max> <rbuf-numalloc>
<slbs-alloc> <slbs-high-water> <slbs-max> <slbs-numalloc> } { TABLE_urib_slabs <slab-name>
<slab-alloc-count> <slab-max-allocs> <slab-size> } { TABLE_urib_blks <block-name> <block-count>
<max-blocks> <blks-count> } { TABLE_urib_routes_rnhs <ctx-name> <user-node> <total-node> <elem-size>
} ]
```

Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
memory	Display urib memory information
statistics	Display urib memory statistics
<i>__readonly__</i>	(Optional)
TABLE_shrd_mem	(Optional)
<i>ubuf-alloc</i>	(Optional)
<i>ubuf-high-water</i>	(Optional)
<i>ubuf-max</i>	(Optional)
<i>ubuf-numalloc</i>	(Optional)
<i>rbuf-alloc</i>	(Optional)
<i>rbuf-high-water</i>	(Optional)
<i>rbuf-max</i>	(Optional)
<i>rbuf-numalloc</i>	(Optional)
<i>slbs-alloc</i>	(Optional)
<i>slbs-high-water</i>	(Optional)
<i>slbs-max</i>	(Optional)
<i>slbs-numalloc</i>	(Optional)
TABLE_urib_slabs	(Optional)

<i>slab-name</i>	(Optional)
<i>slab-alloc-count</i>	(Optional)
<i>slab-max-allocs</i>	(Optional)
<i>slab-size</i>	(Optional)
TABLE_urib_blks	(Optional)
<i>block-name</i>	(Optional)
<i>block-count</i>	(Optional)
<i>max-blocks</i>	(Optional)
<i>blks-count</i>	(Optional)
TABLE_urib_routes_rnhs	(Optional)
<i>ctx-name</i>	(Optional)
<i>user-node</i>	(Optional)
<i>total-node</i>	(Optional)
<i>elem-size</i>	(Optional)

Command Mode

- /exec

show routing multicast

```
show routing [ ip | ipv4 ] multicast { { [ bitfield ] [ detail ] } | rp | { [ <group> ] summary [ software-forwarded
| rpf-failed ] } | { summary [ count | software-forwarded | rpf-failed ] } | { { <source> <group> } | { <group>
[ <source> ] | <group> shared-tree | <group> source-tree } | shared-tree | source-tree } { [ flags ] | [ detail ] |
[ summary [ software-forwarded | rpf-failed ] | bitfield ] } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
[ __readonly__ TABLE_vrf <vrf-name> [ <expiry_timer> ] [ <route_count> ] [ <star_g_cnt> ] [ <sg_cnt> ]
[ <star_g_prfx_cnt> ] [ TABLE_route_summary [ <total-num-routes> ] [ <star-g-route> ] [ <sg-route> ] [
<star-g-prfx> ] [ <group-count> ] [ <avg> ] [ <rem> ] [ <stats-pndg> ] ] [ TABLE_summary_source [
<group_addr> ] [ <group_mask_len> ] [ <source_count> ] [ TABLE_one_sg [ <source_addr> ] [ <packets>
] [ <bytes> ] [ <aps> ] [ <pps> ] [ <rate_buf> ] [ <oifs> ] [ <software_fwd> ] [ <rpf-failed-pkts> ] [
<rpf-failed-bytes> ] ] ] [ TABLE_one_route <mcast-addr> <pending> <bidir> <uptime> <mofrr> [
TABLE_mpib [ <mpib-name> ] [ <oif-count> ] [ <stale-route> ] ] [ <mdt-encap-index> ] [ <stats-pkts> ] [
<stats-bytes> ] [ <stats-rate-buf> ] [ <lisp-src-rloc> ] [ <route-iif> ] [ <rpf-nbr> ] [ <mofrr-iif> ] [ <mofrr-nbr>
] <internal> [ <oif-count> ] <fabric-oif> <fabric-loser> [ <num-vpc-svi-oifs> ] [ TABLE_oif [ <oif-name> ]
[ <oif-uptime> ] [ TABLE_oif_mpib [ <oif-mpib-name> ] [ <stale-oif> ] [ <omd-vpc-svi> ] ] <rpf> ] [
<route-mdt-iod> ] [ <oif-list-bitfield> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	(Optional) Display IP information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
routing	Display routing information
ipv4	(Optional) Display IP information
multicast	Display multicast information
summary	Display route counts
shared-tree	Display route for *,G entries
source-tree	Display route for S,G entries
software-forwarded	(Optional) Display software switched route counts only
rpf-failed	(Optional) Display RPF failure statistics
rp	Display RP routes (RP, 0.0.0.0/32)
<i>group</i>	(Optional) Display multicast group/source address for route
<i>source</i>	Display multicast group/source address for route

count	(Optional) Display route counts only
bitfield	(Optional) Display bitfield details
detail	(Optional) Display detailed route attributes
flags	(Optional) Display detailed route attributes
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>expy_timer</i>	(Optional)
<i>route_count</i>	(Optional)
<i>star_g_cnt</i>	(Optional)
<i>sg_cnt</i>	(Optional)
<i>star_g_prfx_cnt</i>	(Optional)
TABLE_summary_source	(Optional)
<i>group_addr</i>	(Optional)
<i>group_mask_len</i>	(Optional)
<i>source_count</i>	(Optional)
TABLE_one_sg	(Optional)
<i>source_addr</i>	(Optional)
<i>packets</i>	(Optional)
<i>bytes</i>	(Optional)
<i>aps</i>	(Optional)
<i>pps</i>	(Optional)
<i>rate_buf</i>	(Optional)
<i>oifs</i>	(Optional)
<i>software_fwd</i>	(Optional)
<i>rpf-failed-pkts</i>	(Optional)
<i>rpf-failed-bytes</i>	(Optional)
TABLE_one_route	(Optional)
<i>mcast-addrs</i>	(Optional)

<i>bidir</i>	(Optional)
<i>pending</i>	(Optional)
<i>mofrr</i>	(Optional)
<i>uptime</i>	(Optional)
TABLE_mpib	(Optional)
<i>mpib-name</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>stale-route</i>	(Optional)
<i>mdt-encap-index</i>	(Optional)
<i>stats-pkts</i>	(Optional)
<i>stats-bytes</i>	(Optional)
<i>stats-rate-buf</i>	(Optional)
<i>lisp-src-rloc</i>	(Optional)
<i>route-iif</i>	(Optional)
<i>rpf-nbr</i>	(Optional)
<i>mofrr-iif</i>	(Optional)
<i>mofrr-nbr</i>	(Optional)
<i>internal</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>fabric-oif</i>	(Optional)
<i>fabric-loser</i>	(Optional)
<i>num-vpc-svi-oifs</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>oif-uptime</i>	(Optional)
TABLE_oif_mpib	(Optional)
<i>oif-mpib-name</i>	(Optional)
<i>stale-oif</i>	(Optional)
<i>omd-vpc-svi</i>	(Optional)

<i>rpf</i>	(Optional)
<i>route-mdt-iod</i>	(Optional)
<i>oif-list-bitfield</i>	(Optional)
TABLE_route_summary	(Optional)
<i>total-num-routes</i>	(Optional)
<i>star-g-route</i>	(Optional)
<i>sg-route</i>	(Optional)
<i>star-g-prfx</i>	(Optional)
<i>group-count</i>	(Optional)
<i>avg</i>	(Optional)
<i>rem</i>	(Optional)
<i>stats-pndg</i>	(Optional)

Command Mode

- /exec

show routing multicast clients

```
show routing [ ip | ipv4 ] multicast clients [ <client-name> ] [ detail ] [ __readonly__ { TABLE_mpib
<mpib_name> <mpib_index> <mpib_pid> <mpib_mts_sap> <mpib_shm> <stale_timer> <join_notify>
<prune_notify> <rpf_notify> <delete_notify> <repopulate_notify> <zero-oif-notify> <non-zero-oif-notify>
<attach_notify> <non-attach_notify> <static_notify> <non-static_notify> <external_notify> <non-external_notify>
<otv-decap_notify> <no-otv-decap_notify> <vxlan-decap_notify> <no-vxlan-decap_notify> <mdt-encap_notify>
<no-mdt-encap_notify> <mdt-decap_notify> <no-mdt-decap_notify> <vpc-svi_notify> <notification_pending>
[ <ssm_owner> <bidir_owner> <static_owner> <shared_only_owner> <locally_joined_owner>
<external_owner> <mdt_owner> <fabric_owner> <sticky_iif_owner> <data_created_owner> <internal_owner>
<prune_owner> <attached_owner> <otv_decap_owner> <vxlan_decap_owner> <secondary_owner>
<encap_index_owner> <force_punt_owner> <multi_route_owner> <register_stop_owner> ] <notify_sent>
<notify_fail> <notify_ack_rcvd> <add_route_req_rcvd> <add_route_ack_sent> <add_route_ack_fail>
<delete_route_req_rcvd> <delete_route_ack_sent> <delete_route_ack_fail> <update_route_req_rcvd>
<update_route_ack_sent> <update_route_ack_fail> <update_mdt_info_req_rcvd> <update_mdt_info_ack_sent>
<update_mdt_info_ack_fail> <mts_update_route_req_rcvd> <mts_update_route_ack_sent>
<mts_update_route_ack_fail> <force_update_rcvd> <notify_member_count> <pending_mpib> <uptime> }
]
```

Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display multicast information
clients	Display multicast routing client information
<i>client-name</i>	(Optional) Multicast routing client name
detail	(Optional) Display detailed route attributes
__readonly__	(Optional)
TABLE_mpib	(Optional)
<i>mpib_name</i>	(Optional)
<i>mpib_index</i>	(Optional)
<i>mpib_pid</i>	(Optional)
<i>mpib_mts_sap</i>	(Optional)
<i>mpib_shm</i>	(Optional)
<i>stale_timer</i>	(Optional)
<i>join_notify</i>	(Optional)

<i>prune_notify</i>	(Optional)
<i>rpf_notify</i>	(Optional)
<i>delete_notify</i>	(Optional)
<i>repopulate_notify</i>	(Optional)
<i>zero-oif-notify</i>	(Optional)
<i>non-zero-oif-notify</i>	(Optional)
<i>attach-notify</i>	(Optional)
<i>non-attach-notify</i>	(Optional)
<i>static-notify</i>	(Optional)
<i>non-static-notify</i>	(Optional)
<i>external-notify</i>	(Optional)
<i>non-external-notify</i>	(Optional)
<i>otv-decap-notify</i>	(Optional)
<i>no-otv-decap-notify</i>	(Optional)
<i>vxlan-decap-notify</i>	(Optional)
<i>no-vxlan-decap-notify</i>	(Optional)
<i>mdt-encap-notify</i>	(Optional)
<i>no-mdt-encap-notify</i>	(Optional)
<i>mdt-decap-notify</i>	(Optional)
<i>no-mdt-decap-notify</i>	(Optional)
<i>vpc-svi-notify</i>	(Optional)
<i>notification_pending</i>	(Optional)
<i>ssm_owner</i>	(Optional)
<i>bidir_owner</i>	(Optional)
<i>static_owner</i>	(Optional)
<i>shared_only_owner</i>	(Optional)
<i>locally_joined_owner</i>	(Optional)
<i>external_owner</i>	(Optional)
<i>mdt_owner</i>	(Optional)

<i>fabric_owner</i>	(Optional)
<i>sticky_iif_owner</i>	(Optional)
<i>data_created_owner</i>	(Optional)
<i>internal_owner</i>	(Optional)
<i>prune_owner</i>	(Optional)
<i>attached_owner</i>	(Optional)
<i>otv_decap_owner</i>	(Optional)
<i>vxlan_decap_owner</i>	(Optional)
<i>secondary_owner</i>	(Optional)
<i>encap_index_owner</i>	(Optional)
<i>force_punt_owner</i>	(Optional)
<i>multi_route_owner</i>	(Optional)
<i>register_stop_owner</i>	(Optional)
<i>notify_sent</i>	(Optional)
<i>notify_fail</i>	(Optional)
<i>notify_ack_rcvd</i>	(Optional)
<i>add_route_req_rcvd</i>	(Optional)
<i>add_route_ack_sent</i>	(Optional)
<i>add_route_ack_fail</i>	(Optional)
<i>delete_route_req_rcvd</i>	(Optional)
<i>delete_route_ack_sent</i>	(Optional)
<i>delete_route_ack_fail</i>	(Optional)
<i>update_route_req_rcvd</i>	(Optional)
<i>update_route_ack_sent</i>	(Optional)
<i>update_route_ack_fail</i>	(Optional)
<i>update_mdt_info_req_rcvd</i>	(Optional)
<i>update_mdt_info_ack_sent</i>	(Optional)
<i>update_mdt_info_ack_fail</i>	(Optional)
<i>mts_update_route_req_rcvd</i>	(Optional)

<i>mts_update_route_ack_sent</i>	(Optional)
<i>mts_update_route_ack_fail</i>	(Optional)
<i>force_update_rcvd</i>	(Optional)
<i>notify_member_count</i>	(Optional)
<i>pending_mpib</i>	(Optional)
<i>uptime</i>	(Optional)

Command Mode

- /exec

show routing multicast event-history

```
show routing [ ip | ipv4 ] multicast [ internal ] event-history { errors | msgs | <mrib-event-hist-buf-name> |
statistics }
```

Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display multicast information
internal	(Optional) Commands for internal use
event-history	Show various event logs of MRIB
errors	Show error logs of MRIB
msgs	Show various message logs of MRIB
<i>mrib-event-hist-buf-name</i>	Event history buffer name
statistics	State and size of buffer

Command Mode

- /exec

show routing multicast lisp encap

```
{ show routing [ ip | ipv4 ] multicast lisp encap } [ __readonly__ { TABLE_mrrib_list_encap <encap-index>
<source-rloc> <dest-rloc> <ref-count> } ]
```

Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display multicast information
lisp	LISP related information
encap	All the encap indices
__readonly__	(Optional)
TABLE_mrrib_list_encap	(Optional)
<i>encap-index</i>	(Optional)
<i>source-rloc</i>	(Optional)
<i>dest-rloc</i>	(Optional)
<i>ref-count</i>	(Optional)

Command Mode

- /exec

show routing multicast mdt encapsulation

```
show routing [ ip | ipv4 ] multicast mdt encapsulation [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all
} ] [ __readonly__ { TABLE_vrf <vrf-name> { TABLE_mdt <index> <group> <source> <count>
<delete-pending> } } ]
```

Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display multicast information
mdt	Multicast Distribution Tree
encapsulation	Encapsulation Information
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_mdt	(Optional)
<i>index</i>	(Optional)
<i>group</i>	(Optional)
<i>source</i>	(Optional)
<i>count</i>	(Optional)
<i>delete-pending</i>	(Optional)

Command Mode

- /exec

show routing multicast memory estimate

```
show routing [ ip | ipv4 ] multicast memory estimate [ groups <group-count> sources-per-group <source-count>
oifs-per-entry <oif-count> [ mdt-encap-entries <encap-entry-count> ] [ __readonly__ { TABLE_currentmax
<max-mb> <max-groups> <sources-per-group> <oifs-per-entry> } { TABLE_inuse <used-kb> <alloc-count>
<sources-per-group> <oifs-per-entry> [ <mdt-encap-entry> ] } { TABLE_configuredmax <max-mb>
<max-groups> <sources-per-group> <oifs-per-entry> } [ TABLE_estimate <estimate-mb> <groups>
<sources-per-group> <oifs-per-entry> <mdt-encap-entry> ] ]
```

Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display multicast information
memory	Display mrib memory information
estimate	Display mrib memory estimate
groups	(Optional) Display mrib memory estimate for # groups
<i>group-count</i>	(Optional) Number of groups
sources-per-group	(Optional) Display mrib memory estimate for # sources per group
<i>source-count</i>	(Optional) Number of sources per route
oifs-per-entry	(Optional) Display mrib memory estimate for # oifs per (S,G) or (*,G) entry
<i>oif-count</i>	(Optional) Number of oifs per entry
mdt-encap-entries	(Optional) Display mrib memory estimate for # mdt encap entries
<i>encap-entry-count</i>	(Optional) Number of mdt encap entries
<i>__readonly__</i>	(Optional)
TABLE_currentmax	(Optional)
<i>max-mb</i>	(Optional)
<i>max-groups</i>	(Optional)
<i>sources-per-group</i>	(Optional)
<i>oifs-per-entry</i>	(Optional)
TABLE_inuse	(Optional)

<i>used-kb</i>	(Optional)
<i>alloc-count</i>	(Optional)
<i>sources-per-group</i>	(Optional)
<i>oifs-per-entry</i>	(Optional)
<i>mdt-encap-entry</i>	(Optional)
TABLE_configuredmax	(Optional)
<i>max-mb</i>	(Optional)
<i>max-groups</i>	(Optional)
<i>sources-per-group</i>	(Optional)
<i>oifs-per-entry</i>	(Optional)
TABLE_estimate	(Optional)
<i>estimate-mb</i>	(Optional)
<i>groups</i>	(Optional)
<i>sources-per-group</i>	(Optional)
<i>oifs-per-entry</i>	(Optional)
<i>mdt-encap-entry</i>	(Optional)

Command Mode

- /exec

show routing multicast sr

```
show routing [ ip | ipv4 ] multicast sr [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display multicast information
sr	Service Reflect Rules
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show routing nhlfe

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] nhlfe [ stats ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
TABLE_vrf <vrf-name-out> [ <nhlfe-owner> <nhlfe-refcount> { TABLE_nhlabel <nlabel-index> <nh-label>
} <nhlfe-is-vpn> <nhlfe-owner-index> ] <total-entries> ]
```

Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
nhlfe	Display URIB NHLFE db
stats	(Optional) Display statistics
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>nhlfe-owner</i>	(Optional)
<i>nhlfe-refcount</i>	(Optional)
TABLE_nhlabel	(Optional)
<i>nlabel-index</i>	(Optional)
<i>nh-label</i>	(Optional)
<i>nhlfe-is-vpn</i>	(Optional)
<i>nhlfe-owner-index</i>	(Optional)

<i>total-entries</i>	(Optional)
----------------------	------------

Command Mode

- /exec

show routing recursive-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] recursive-next-hop [ <ip-addr> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ]
[ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_prefix <ipprefix> <uptime>
TABLE_clients <clientname> ]
```

Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
recursive-next-hop	Display recursive next-hop table
<i>topology-name</i>	(Optional) topology name
<i>ip-addr</i>	(Optional) Display single recursive virtual next-hop
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>uptime</i>	(Optional)
TABLE_clients	(Optional)
<i>clientname</i>	(Optional)

Command Mode

- /exec

show routing unresolved-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] unresolved-next-hop { [ <ip-addr> [ detail ] ] | [ summary ] } [ vrf { <vrf-name> |
<vrf-known-name> | <vrf-all> } ]
```

Syntax Description

show	Show running system information
routing	Display routing information
unresolved-next-hop	Display unresolved next-hop list
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
<i>ip-addr</i>	(Optional) Display single unresolved next-hop
detail	(Optional) Display prefixes for unresolved next-hop
summary	(Optional) Show summary of resolve buffers

Command Mode

- /exec

show routing vxlan-hash peer-ip

show routing vxlan-hash peer-ip <peer-ip> <inner-src-mac> <inner-dst-mac> [<inner-src-ip> <inner-dst-ip>] [ip-proto <ip-proto>] [<inner-src-port> <inner-dst-port>] [module <module-id>]

Syntax Description

show	Show running system information
routing	Display routing information
vxlan-hash	Display load-balancing information for vxlan
peer-ip	Peer IP address
<i>peer-ip</i>	Peer IP
<i>inner-src-mac</i>	Inner Source MAC Address
<i>inner-dst-mac</i>	Inner Destination MAC Address
<i>inner-src-ip</i>	(Optional) Inner Source IP
<i>inner-dst-ip</i>	(Optional) Inner Destination IP
ip-proto	(Optional) IP Protocol information for the packet
<i>ip-proto</i>	(Optional) IP Protocol information for the packet
<i>inner-src-port</i>	(Optional) Inner Source-port
<i>inner-dst-port</i>	(Optional) Inner Destination-port
module	(Optional) Module
<i>module-id</i>	(Optional) Module

Command Mode

- /exec

show running-config

show running-config

Syntax Description

show	Show running system information
running-config	Current operating configuration

Command Mode

- /exec

show running-config aaa

show running-config aaa [all]

Syntax Description

show	show running-cfg
running-config	show running system information
aaa	Display aaa configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config acllog

show running-config acllog [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
acllog	show running config for acllog
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config aclmgr

show running-config aclmgr [all | inactive-if-config]

Syntax Description

show	Show running system information
running-config	Current operating configuration
aclmgr	show running config for aclmgr
all	(Optional) show running config with defaults
inactive-if-config	(Optional) show running config for inactive-policies

Command Mode

- /exec

show running-config aclmgr active

show running-config aclmgr { active-if-config | all-if-config }

Syntax Description

show	Show running system information
running-config	Current operating configuration
aclmgr	show running config for aclmgr
active-if-config	show running config for active-policies
all-if-config	show running config for all-policies

Command Mode

- /exec

show running-config adjmgr

show running-config adjmgr [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
adjmgr	Display adjmgr information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config all

show running-config all

Syntax Description

show	Show running system information
running-config	Current operating configuration
all	Current operating configuration with defaults

Command Mode

- /exec

show running-config amt

show running-config amt [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
amt	Display amt information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config arp

show running-config arp [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
arp	Display arp information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config bfd

show running-config bfd [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
bfd	show running config for bfd
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config bgp

show running-config bgp [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
bgp	Display bgp information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config bloggerd

show running-config bloggerd [all]

Syntax Description

show	show running-cfg
running-config	show running system information
bloggerd	Display bloggerd configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config callhome

show running-config callhome [all]

Syntax Description

show	show running-cfg
running-config	show running system information
callhome	Display callhome configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config cdp

show running-config cdp [all]

Syntax Description

show	show running-cfg
running-config	show running system information
cdp	Display cdp configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config cert-enroll

show running-config cert-enroll [all]

Syntax Description

show	show running-cfg
running-config	show running system information
cert-enroll	Display certificates configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config cfs

show running-config cfs [all]

Syntax Description

show	Show running system information
running-config	Current operation configuration
cfs	Display cfs configurations
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config clock_manager

show running-config clock_manager [all]

Syntax Description

running-config	Current operating configuration
clock_manager	show running config for clock manager
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config config-profile

show running-config config-profile [<all_conf_profile_name>]

Syntax Description

show	Show running-cfg
running-config	show running configuration
config-profile	Display port-profile configuration
<i>all_conf_profile_name</i>	(Optional) Enter the name of the profile

Command Mode

- /exec

show running-config controller

show running-config controller

Syntax Description

show	Show running system information
running-config	Current operating configuration
controller	controller

Command Mode

- /exec

show running-config copp

show running-config copp [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
copp	Control-Plane Policing
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config dhcp

show running-config dhcp [all]

Syntax Description

show	Show running system information
running-config	Current operation configuration
dhcp	Display dhcp snoop configurations
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config diagnostic

show running-config diagnostic [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
diagnostic	Display diagnostic information
all	(Optional) Display running config with defaults

Command Mode

- /exec

show running-config diff

show running-config diff

Syntax Description

show	Show running system information
running-config	Current operating configuration
diff	Show the difference between running and startup configuration

Command Mode

- /exec

show running-config dot1x

show running-config dot1x [all]

Syntax Description

show	show running-cfg
running-config	show running system information
dot1x	Display dot1x configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config eem

show running-config eem

Syntax Description

show	Show running system information
running-config	Show the system running configuration
eem	Show the event manager running configuration

Command Mode

- /exec

show running-config eigrp

show running-config eigrp [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
eigrp	Display eigrp information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config eltm

show running-config eltm

Syntax Description

show	Show running system information
running-config	Current operation configuration
eltm	Display eltm configurations

Command Mode

- /exec

show running-config evb

show running-config evb [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
evb	EVB (Edge Virtual Bridge)
all	(Optional) Display running config with defaults

Command Mode

- /exec

show running-config exclude

show running-config exclude <feature-list> +

Syntax Description

show	Show running system information
running-config	Current operating configuration
exclude	Exclude running configuration of specified features
<i>feature-list</i>	Exclude features

Command Mode

- /exec

show running-config exclude fabricpath

show running-config exclude fabricpath

Syntax Description

show	Show running system information
running-config	Current operating configuration
exclude	Exclude configurations
fabricpath	fabricpath information

Command Mode

- /exec

show running-config exclude fex

show running-config exclude fex [all]

Syntax Description

running-config	Current operating configuration
exclude	Exclude lines that match
fex	show running config of fex
all	(Optional) Show running config with defaults

Command Mode

- /exec

show running-config expand-port-profile

show running-config expand-port-profile

Syntax Description

show	Show running system information
running-config	Current operating configuration
expand-port-profile	Expand port profile

Command Mode

- /exec

show running-config explicit

show running-config explicit

Syntax Description

show	Show running system information
running-config	Current operating configuration
explicit	show explicitly configured running configuration for all interfaces

Command Mode

- /exec

show running-config fabric forwarding

show running-config fabric forwarding [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config fabricpath

show running-config fabricpath [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
fabricpath	fabricpath information
all	(Optional) Show running config with defaults

Command Mode

- /exec

show running-config fabricpath domain default

show running-config fabricpath domain default [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
fabricpath	fabricpath information
domain	Enter fabricpath IS-IS domain configuration mode
default	default fabricpath domain
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config fabricpath switch-id

show running-config fabricpath switch-id [all]

Syntax Description

running-config	Current operating configuration
fabricpath	fabricpath information
switch-id	fabricpath switch-id configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config fabricpath topology

show running-config fabricpath topology [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
fabricpath	fabricpath Module Information
topology	Fabricpath topology Information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config fex

show running-config fex [all]

Syntax Description

running-config	Current operating configuration
fex	show running config of fex
all	(Optional) Show running config with defaults

Command Mode

- /exec

show running-config glbp

show running-config glbp [all]

Syntax Description

show	Show running system information
running-config	Show the system running information
glbp	Show GLBP running configuration
all	(Optional) Show GLBP running configuration defaults

Command Mode

- /exec

show running-config hsrp

show running-config hsrp [all]

Syntax Description

show	Show system information
running-config	System running configuration
hsrp	HSRP running configuration
all	(Optional) Show HSRP running configuration defaults

Command Mode

- /exec

show running-config icmpv6

show running-config icmpv6 [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
icmpv6	Display icmpv6 information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config igmp

show running-config igmp [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
igmp	Display igmp information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config interface

show running-config interface [<if0>] [all] [expand-port-profile]

Syntax Description

show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
<i>if0</i>	(Optional) interface type and number in module/slot format
all	(Optional) show running config with defaults
expand-port-profile	(Optional) Expand port profile

Command Mode

- /exec

show running-config interface

show running-config interface <if0> [membership] [expand-port-profile]

Syntax Description

show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
<i>if0</i>	interface type and number in module/slot format
membership	(Optional) Show membership information
expand-port-profile	(Optional) Expand port profile

Command Mode

- /exec

show running-config interface defaults

show running-config interface <if0> defaults

Syntax Description

show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
<i>if0</i>	interface type and number in module/slot format
defaults	show default running config

Command Mode

- /exec

show running-config interface explicit

show running-config interface <if0> explicit

Syntax Description

show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
<i>if0</i>	interface type and number in module/slot format
explicit	show default running config

Command Mode

- /exec

show running-config ip

show running-config ip [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
ip	Display ip information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config ipqos

show running-config ipqos [all | inactive-if-config]

Syntax Description

show	Show running system information
running-config	Current operating configuration
all	(Optional) show running config with defaults
inactive-if-config	(Optional) show running config for inactive-policies

Command Mode

- /exec

show running-config ipqos active

show running-config ipqos { active-if-config | all-if-config }

Syntax Description

show	Show running system information
running-config	Current operating configuration
active-if-config	show running config for active-policies
all-if-config	show running config for all-policies

Command Mode

- /exec

show running-config ipv6

show running-config ipv6 [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
ipv6	Display ipv6 information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config isis

show running-config isis [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
isis	Display isis information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config l3vm

show running-config l3vm [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
l3vm	Display l3vm information
all	(Optional) Display running config with defaults

Command Mode

- /exec

show running-config ldap

show running-config ldap [all]

Syntax Description

show	show running-cfg
running-config	show running system information
ldap	Display ldap configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config license

show running-config license [all]

Syntax Description

show	show
running-config	show running system information
license	Display licensing configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config lisp

show running-config lisp [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
lisp	Display lisp information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config lldp

show running-config lldp [all]

Syntax Description

show	show running-cfg
running-config	show running system information
lldp	Display lldp configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config macsec

show running-config macsec

Syntax Description

show	Show running system information
running-config	Current operating configuration
macsec	Show CTS information

Command Mode

- /exec

show running-config mmode

show running-config mmode [all]

Syntax Description

show	Show running system information
running-config	Show running configuration
mmode	Display maintenance mode running configuration
all	(Optional) Show running config with defaults

Command Mode

- /exec

show running-config monitor

show running-config monitor [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
monitor	Configure Ethernet SPAN sessions
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config mpls ldp

show running-config mpls ldp [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
all	(Optional) Display running-config with defaults

Command Mode

- /exec

show running-config mpls static

show running-config mpls static [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
mpls	Display MPLS status and configuration
static	Static Label Bindings
all	(Optional) Display running-config with defaults

Command Mode

- /exec

show running-config mpls strip

show running-config mpls strip [all]

Syntax Description

show	Show running system information
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
running-config	System running configuration
all	(Optional) Show running configuration for STRIPCL with defaults

Command Mode

- /exec

show running-config mpls traffic-eng

show running-config mpls traffic-eng [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
mpls	show running config for mpls features
traffic-eng	show running-config for Traffic Engineering
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config msdp

show running-config msdp [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
msdp	Display msdp information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config nat

show running-config nat [all]

Syntax Description

show	show running-cfg
running-config	show running system information
nat	Display NAT configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config nbm

show running-config nbm

Syntax Description

show	Show running system information
running-config	Current operating configuration
nbm	show running config for Non Blocking Multicast

Command Mode

- /exec

show running-config netflow

show running-config { netflow | nfm } [all]

Syntax Description

show	Show running system information
running-config	Show running system information
netflow	Show NetFlow configuration
nfm	Show NFM configuration
all	(Optional) Show config with defaults

Command Mode

- /exec

show running-config ngoam

show running-config ngoam [all]

Syntax Description

show	Show running system information
running-config	Show running system information
ngoam	ngoam configuration
all	(Optional) Show running config with defaults

Command Mode

- /exec

show running-config ntp

show running-config ntp [all]

Syntax Description

show	Show information
running-config	Show running system configuration
ntp	Show NTP information
all	(Optional) Show all NTP running configuration

Command Mode

- /exec

show running-config nv overlay

show running-config nv overlay [all]

Syntax Description

show	Show system information
running-config	System running configuration
nv	NVE running configuration
overlay	NVE running configuration
all	(Optional) Show NVE running configuration defaults

Command Mode

- /exec

show running-config nxsdk

show running-config nxsdk [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
nxsdk	NXOS SDK
all	(Optional) Display running config with defaults

Command Mode

- /exec

show running-config ospf

show running-config ospf [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
ospf	Display ospf information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config ospfv3

show running-config ospfv3 [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
ospfv3	Display ospfv3 information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config otv-isis

show running-config otv-isis [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
otv-isis	Display otv-isis information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config otv

show running-config otv [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
otv	Display otv information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config param-list

show running-config param-list [<plistname>]

Syntax Description

show	Show running-cfg
running-config	show running configuration
param-list	Display param-list configuration
<i>plistname</i>	(Optional) Enter the name of the param list

Command Mode

- /exec

show running-config pim

show running-config pim [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
pim	Display pim information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config pim6

show running-config pim6 [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
pim6	Display pim6 information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config port-profile

show running-config port-profile [<all_profile_name>]

Syntax Description

show	Show running-cfg
running-config	show running configuration
port-profile	Display port-profile configuration
<i>all_profile_name</i>	(Optional) Enter the name of the profile

Command Mode

- /exec

show running-config port-security

show running-config port-security [all]

Syntax Description

show	show running-cfg
running-config	show running system information
port-security	Display port-security configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config ptp

show running-config ptp [all]

Syntax Description

running-config	Current operating configuration
ptp	show running config for ptp
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config radius

show running-config radius [all]

Syntax Description

show	show running-cfg
running-config	show running system information
radius	Display radius configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config res_mgr

show running-config res_mgr

Syntax Description

show	Show running system information
running-config	Current operating configuration
res_mgr	Show resource configuration for VDC

Command Mode

- /exec

show running-config rip

show running-config rip [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
rip	Display rip information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config routing ip multicast

show running-config routing { ip | ipv4 } multicast [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
routing	Display routing information
ip	Display IP information
ipv4	Display IP information
multicast	Display multicast information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config routing ipv6 multicast

show running-config routing ipv6 multicast [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
routing	Display routing information
ipv6	Display IPv6 information
multicast	Display m6rib information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config rpm

show running-config rpm [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
rpm	Display Route Policy Manager (RPM) information
all	(Optional) Display running config with defaults

Command Mode

- /exec

show running-config rsvp

show running-config rsvp

Syntax Description

show	Show running system information
running-config	Current operating configuration
rsvp	Display RSVP status

Command Mode

- /exec

show running-config section

show running-config section <section>

Syntax Description

show	Show running system information
running-config	Current operating configuration
section	show only a particular section of running-config (in format needed for 'merge config' command)
<i>section</i>	the section to show, a regular expression, (use a dot for a space)

Command Mode

- /exec

show running-config security

show running-config security [all]

Syntax Description

show	show running-cfg
running-config	show running system information
security	Display security configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config services

show running-config services

Syntax Description

show	show running-cfg
running-config	show running system information
services	services

Command Mode

- /exec

show running-config services

show running-config services

Syntax Description

show	show running-cfg
running-config	show running system information
services	services

Command Mode

- /exec

show running-config sflow

show running-config sflow [all]

Syntax Description

running-config	Current operating configuration
sflow	show running config for sflow
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config sla responder

show running-config sla responder

Syntax Description

show	show running-cfg
running-config	show running system information
sla	Service Level Agreement (SLA)
responder	Show information about sla-responder

Command Mode

- /exec

show running-config sla sender

show running-config sla sender

Syntax Description

show	show running-cfg
running-config	show running system information
sla	Service Level Agreement (SLA)
sender	Show information about sla-sender

Command Mode

- /exec

show running-config snmp

show running-config snmp [all]

Syntax Description

show	show running-cfg
running-config	show running system information
snmp	Display snmp configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config spanning-tree

show running-config spanning-tree [<all> | interface <interface_range>]

Syntax Description

show	Show running system information
running-config	Current operating configuration
spanning-tree	Show spanning tree information
<i>all</i>	(Optional)
interface	(Optional) Specify an interface as a target for the command
<i>interface_range</i>	(Optional)

Command Mode

- /exec

show running-config switch

show running-config { switch-profile | include-switch-profile }

Syntax Description

show	Show running system information
running-config	Current operating configuration
switch-profile	Show switch-profile information
include-switch-profile	Show running and switch-profile configuration

Command Mode

- /exec

show running-config tacacs

show running-config tacacs + [all]

Syntax Description

show	show running-cfg
running-config	show running system information
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config telemetry

show running-config telemetry [all]

Syntax Description

show	show running system configuration
running-config	Current operating configuration
telemetry	Display telemetry configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config track

show running-config track [all]

Syntax Description

show	Show running system information
running-config	Show the system running information
track	Show track running configuration
all	(Optional) Show track running configuration defaults

Command Mode

- /exec

show running-config udd

show running-config udd [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
udd	Show udd configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config vdc-all

show running-config vdc-all [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
vdc-all	Display config from all VDC
all	(Optional) Display config from all VDC including defaults

Command Mode

- /exec

show running-config vdc

show running-config vdc [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
vdc	Show Virtual Device Contexts
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config virtual-service

show running-config virtual-service

Syntax Description

show	Show running system information
running-config	Current operating configuration
virtual-service	Show running config for virtualization services

Command Mode

- /exec

show running-config vlan

show running-config vlan <vlan-id> [expand-port-profile]

Syntax Description

show	Show running system information
running-config	Current operating configuration
vlan	Vlan commands
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
expand-port-profile	(Optional) Expand port profile

Command Mode

- /exec

show running-config vlan

show running-config vlan <vlan-id> [expand-port-profile]

Syntax Description

show	Show running system information
running-config	Current operating configuration
vlan	Vlan commands
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
expand-port-profile	(Optional) Expand port profile

Command Mode

- /exec

show running-config vlan

show running-config vlan

Syntax Description

show	Show running system information
running-config	Current operating configuration
vlan	Vlan commands

Command Mode

- /exec

show running-config vlan_mgr

show running-config vlan_mgr

Syntax Description

show	Show running system information
running-config	Current operating configuration
vlan_mgr	Show vlan manager information

Command Mode

- /exec

show running-config vmtracker

show running-config vmtracker [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
vmtracker	show running config for vmtracker
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config vpc

show running-config vpc [all]

Syntax Description

running-config	Current operating configuration
vpc	show running config for vPC
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config vrf

show running-config vrf <vrf-cfg-name> [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
vrf	Display VRF information
<i>vrf-cfg-name</i>	Configurable VRF name
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config vrf default

show running-config vrf default [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
vrf	Display VRF information
default	Known VRF name
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config vrrp

show running-config vrrp [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
vrrp	Display VRRP running configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config vrrpv3

show running-config vrrpv3 [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
vrrpv3	Show running config for VRRPv3
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config vshd

show running-config vshd

Syntax Description

show	Show running system information
running-config	Current operating configuration
vshd	Show running config for vshd

Command Mode

- /exec

show running-config vtp

show running-config vtp [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
vtp	Show running configuration for VTP
all	(Optional) Show running configuration for VTP with defaults

Command Mode

- /exec

■ `show running-config vtp`



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show sampler

```
show sampler [ name ] [ <samplername> ] [ __readonly__ <sampler> <desc> <use_count> <sample_M>
<sample_N> <sample_P> ]
```

Syntax Description

show	Show running system information
sampler	Show Sampler Configuration
name	(Optional) Show a specific Sampler
<i>samplername</i>	(Optional) Specify a sampler
<i>__readonly__</i>	(Optional)
<i>sampler</i>	(Optional)
<i>desc</i>	(Optional)
<i>use_count</i>	(Optional)
<i>sample_M</i>	(Optional)
<i>sample_N</i>	(Optional)
<i>sample_P</i>	(Optional)

Command Mode

- /exec

show scheduler config

```
show scheduler config [ __readonly__ [ <terminal> ] [ <feature> ] [ <logfilesize> ] [ <emailfrom> ] [
<emailreplyto> ] [ <smtpserver> ] [ <port> ] [ <usevrf> ] [ { TABLE_userconfig <username> [ <password>
] } ] [ { TABLE_jobconfig <jobdata> } ] [ { TABLE_scheduleconfig <schedulename> [ <scheduletype> ] [
{ TABLE_jobs <status> } ] [ <email> ] } ] ] ]
```

Syntax Description

show	Show running system information
scheduler	Show scheduler config or data
config	Display scheduler config
__readonly__	(Optional)
<i>terminal</i>	(Optional) logfile terminal
<i>feature</i>	(Optional) name service
<i>logfilesize</i>	(Optional) logfilesize
<i>emailfrom</i>	(Optional) emailfrom
<i>emailreplyto</i>	(Optional) emailreplyto
<i>smtpserver</i>	(Optional) smtpserver
<i>port</i>	(Optional) port
<i>usevrf</i>	(Optional) usevrf
TABLE_userconfig	(Optional) userconfig
<i>username</i>	(Optional) username
<i>password</i>	(Optional) password
TABLE_jobconfig	(Optional) job configs
<i>jobdata</i>	(Optional) jobdata
TABLE_scheduleconfig	(Optional) schedule configs
<i>schedulename</i>	(Optional) schedulename
<i>scheduletype</i>	(Optional) scheduletype
TABLE_jobs	(Optional) jobs
<i>status</i>	(Optional) status
<i>email</i>	(Optional) email

Command Mode

- /exec

show scheduler job

```
show scheduler job [ name <s0> ] [ __readonly__ [ { TABLE_schedulerjobs <jobname> [ <jobdata> ] } ] ]
```

Syntax Description

show	Show running system information
scheduler	Show scheduler config or data
job	Display job information
name	(Optional) Specify the name of job
<i>s0</i>	(Optional) Specify the job name
__readonly__	(Optional)
TABLE_schedulerjobs	(Optional) schedulerjobs
<i>jobname</i>	(Optional) job name
<i>jobdata</i>	(Optional) job data

Command Mode

- /exec

show scheduler logfile

```
show scheduler logfile [ __readonly__ [ { TABLE_joblog <jobname> [ <jobstatus> ] [ <schedulename> ] [ <scheduleusername> ] [ <completiontime> ] [ <joboutput> } ] ] ]
```

Syntax Description

show	Show running system information
scheduler	Show scheduler config or data
logfile	Display scheduler job output log
__readonly__	(Optional)
TABLE_joblog	(Optional) jobs log
<i>jobname</i>	(Optional) job name
<i>jobstatus</i>	(Optional) job status
<i>schedulename</i>	(Optional) schedulename
<i>scheduleusername</i>	(Optional) scheduleusername
<i>completiontime</i>	(Optional) completiontime
<i>joboutput</i>	(Optional) joboutput

Command Mode

- /exec

show scheduler schedule

```
show scheduler schedule [ name <s0> ] [ __readonly__ [ { TABLE_schedules <schedulename> [
<scheduleusername> ] [ <schedulertype> ] [ <starttime> ] [ <lastexecetime> ] [ <lastcompletiontime> ] [
<execcount> ] [ <jobcount> ] [ { TABLE_jobs <jobname> [ <execstatus> ] } } ] ] ]
```

Syntax Description

show	Show running system information
scheduler	Show scheduler config or data
schedule	Display schedule information
name	(Optional) Specify the name of schedule
s0	(Optional) Specify the schedule name
__readonly__	(Optional)
TABLE_schedules	(Optional) schedules
schedulename	(Optional) Schedule name
scheduleusername	(Optional) schedule username
schedulertype	(Optional) schedulertype
starttime	(Optional) starttime
lastexecetime	(Optional) last exec time
lastcompletiontime	(Optional) lastcompletiontime
execcount	(Optional) execcount
jobcount	(Optional) jobcount
TABLE_jobs	(Optional) jobs
jobname	(Optional) jobname
execstatus	(Optional) execstatus

Command Mode

- /exec

show sflow

show sflow

Syntax Description

show	Show running system information
sflow	Display sFlow global configuration

Command Mode

- /exec

show sflow statistics

show sflow statistics [*__readonly__* <total-packets> <total-samples> <processed-samples> <dropped-samples> <dropped-sflow-samples> <sent-datagrams> <dropped-datagrams>]

Syntax Description

show	Show running system information
sflow	Display sFlow global configuration
statistics	Display sFlow statistics
<i>__readonly__</i>	(Optional) Read only
<i>total-packets</i>	(Optional) Total Packets
<i>total-samples</i>	(Optional) Total Samples
<i>processed-samples</i>	(Optional) Processed Samples
<i>dropped-samples</i>	(Optional) Dropped Samples
<i>dropped-sflow-samples</i>	(Optional) Dropped sflow Samples
<i>sent-datagrams</i>	(Optional) Sent Datagrams
<i>dropped-datagrams</i>	(Optional) Dropped Datagrams

Command Mode

- /exec

show snapshots

show snapshots [*__readonly__* *TABLE_snapshot* <snap_name> <snap_ctime> <description>]

Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
<i>__readonly__</i>	(Optional)
<i>TABLE_snapshot</i>	(Optional)
<i>snap_name</i>	(Optional) snapshot name
<i>snap_ctime</i>	(Optional) snapshot create time
<i>description</i>	(Optional) snapshot description

Command Mode

- /exec

show snapshots compare

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> [ __readonly__ TABLE_feature
<feat_name> [ <feat_state1> <feat_state2> ] [ TABLE_element <elemkey1> <elemval1> [ <elemkey2>
<elemval2> ] [ <elemkey3> <elemval3> ] [ <elemkey4> <elemval4> ] [ <elemstate1> <elemstate2> ] [
TABLE_subrow <subrowkey> <subrowval> [ <substate1> <substate2> ] ] [ TABLE_value <tag> <val1>
<val2> ] ] ]
```

Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
compare	Compare two snapshots
<i>snapshot-name-T1</i>	Name of a snapshot taken at interval T1
<i>snapshot-name-T2</i>	Name of a snapshot taken at interval T2
<u>__readonly__</u>	(Optional)
TABLE_feature	(Optional)
<i>feat_name</i>	(Optional) feature name
<i>feat_state1</i>	(Optional) feature state in snapshot1
<i>feat_state2</i>	(Optional) feature state in snapshot2
TABLE_element	(Optional)
<i>elemkey1</i>	(Optional) element key1
<i>elemval1</i>	(Optional) element value1
<i>elemkey2</i>	(Optional) element key2
<i>elemval2</i>	(Optional) element value2
<i>elemkey3</i>	(Optional) element key3
<i>elemval3</i>	(Optional) element value3
<i>elemkey4</i>	(Optional) element key4
<i>elemval4</i>	(Optional) element value4
<i>elemstate1</i>	(Optional) element state in snapshot 1
<i>elemstate2</i>	(Optional) element state in snapshot 2
TABLE_subrow	(Optional)
<i>subrowkey</i>	(Optional) subrow key

<i>subrowval</i>	(Optional) subrow value
<i>substate1</i>	(Optional) subrow state in snapshot 1
<i>substate2</i>	(Optional) subrow state in snapshot 2
TABLE_value	(Optional)
<i>tag</i>	(Optional) element tag
<i>val1</i>	(Optional) element value for tag in snapshot1
<i>val2</i>	(Optional) element value for tag in snapshot2

Command Mode

- /exec

show snapshots compare ipv4routes

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv4routes [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ] [ TABLE_prefix <prefix>
<missing_snapshot> ] ]
```

Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
compare	Compare two snapshots
<i>snapshot-name-T1</i>	Name of a snapshot taken at interval T1
<i>snapshot-name-T2</i>	Name of a snapshot taken at interval T2
ipv4routes	Compare ipv4 route information
<i>__readonly__</i>	(Optional)
TABLE_summary	(Optional)
<i>item_desc</i>	(Optional) item description
<i>summary_val1</i>	(Optional) summary value in snapshot1
<i>summary_val2</i>	(Optional) summary value in snapshot2
<i>changed</i>	(Optional) changed flag
TABLE_prefix	(Optional)
<i>prefix</i>	(Optional) route prefix
<i>missing_snapshot</i>	(Optional) missing in snapshot name

Command Mode

- /exec

show snapshots compare ipv6routes

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv6routes [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ][ TABLE_prefix <prefix>
<missing_snapshot> ] ]
```

Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
compare	Compare two snapshots
<i>snapshot-name-T1</i>	Name of a snapshot taken at interval T1
<i>snapshot-name-T2</i>	Name of a snapshot taken at interval T2
ipv6routes	Compare ipv6 route information
<i>__readonly__</i>	(Optional)
TABLE_summary	(Optional)
<i>item_desc</i>	(Optional) item description
<i>summary_val1</i>	(Optional) summary value in snapshot1
<i>summary_val2</i>	(Optional) summary value in snapshot2
<i>changed</i>	(Optional) changed flag
TABLE_prefix	(Optional)
<i>prefix</i>	(Optional) route prefix
<i>missing_snapshot</i>	(Optional) missing in snapshot name

Command Mode

- /exec

show snapshots compare summary

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> summary [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ] ]
```

Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
compare	Compare two snapshots
<i>snapshot-name-T1</i>	Name of a snapshot taken at interval T1
<i>snapshot-name-T2</i>	Name of a snapshot taken at interval T2
summary	Compare summary information
<i>__readonly__</i>	(Optional)
<i>TABLE_summary</i>	(Optional)
<i>item_desc</i>	(Optional) item description
<i>summary_val1</i>	(Optional) summary value in snapshot1
<i>summary_val2</i>	(Optional) summary value in snapshot2
<i>changed</i>	(Optional) changed flag

Command Mode

- /exec

show snapshots dump

show snapshots dump <snapshot-name> [__readonly__ TABLE_snapshot <file_name> <snap_name>]

Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
dump	Dump contents of snapshot
<i>snapshot-name</i>	Name of a snapshot
__readonly__	(Optional)
TABLE_snapshot	(Optional)
<i>file_name</i>	(Optional) snapshot XML file name
<i>snap_name</i>	(Optional) snapshot name

Command Mode

- /exec

show snapshots dump

```
show snapshots dump <snapshot-name> <section-name> [ __readonly__ TABLE_snapshot <file_name>
<snap_name> ]
```

Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
dump	Dump contents of snapshot
<i>snapshot-name</i>	Name of a snapshot
<i>section-name</i>	Name of snapshot section
<code>__readonly__</code>	(Optional)
TABLE_snapshot	(Optional)
<i>file_name</i>	(Optional) snapshot XML file name
<i>snap_name</i>	(Optional) snapshot name

Command Mode

- /exec

show snapshots sections

show snapshots sections [*__readonly__* *TABLE_snapsection* <sectname> <sectcmd> <sectrow> <sectkey1> <sectkey2>]

Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
sections	User-specified snapshot sections
<i>__readonly__</i>	(Optional)
<i>TABLE_snapsection</i>	(Optional)
<i>sectname</i>	(Optional) snapshot section name
<i>sectcmd</i>	(Optional) snapshot section show command
<i>sectrow</i>	(Optional) snapshot section row id
<i>sectkey1</i>	(Optional) snapshot section key 1
<i>sectkey2</i>	(Optional) snapshot section key 2

Command Mode

- /exec

show snmp-dhcp-relay drop statistics

```
show snmp-dhcp-relay drop statistics [ interface <intf> | ifindex <intf-in> ] [ __readonly__ {
TABLE-cdrDropStatsTable <intf-out> <relay_disable> <invalid_msg_type> <intf_err> <tx_sock_err>
<tx_fail_client_intf> <unknown_op_intf> <l3_unknown_op_intf> <max_hops> <opt82_fail> <malformed>
<untrusted_relay_intf> <mct_drop> } ]
```

Syntax Description

show	Show running system information
snmp-dhcp-relay	DHCP Relay
drop	Statistics related to DHCP drop statistics
statistics	Statistics related to DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) interface index value
<i>__readonly__</i>	(Optional) Read only
TABLE-cdrDropStatsTable	(Optional)
<i>intf-in</i>	(Optional) Interface Index
<i>intf-out</i>	(Optional) Table index
<i>relay_disable</i>	(Optional) relay was disabled
<i>invalid_msg_type</i>	(Optional) invalid message type
<i>intf_err</i>	(Optional) interface error
<i>tx_sock_err</i>	(Optional) failed to send at server
<i>tx_fail_client_intf</i>	(Optional) failed to send to client
<i>unknown_op_intf</i>	(Optional) unknown output interface
<i>l3_unknown_op_intf</i>	(Optional) unknown vrf or interface
<i>max_hops</i>	(Optional) max hops exceeded
<i>opt82_fail</i>	(Optional) Option82 validation failed
<i>malformed</i>	(Optional) malformed pkts
<i>untrusted_relay_intf</i>	(Optional) untrusted interface
<i>mct_drop</i>	(Optional) dropped on MCT

Command Mode

- /exec

show snmp-dhcp-relay statistics pkt

```
show snmp-dhcp-relay statistics { [ interface <intf> | ifindex <intf-in> ] pkt-type <type-in> } [ __readonly__
{ TABLE-cdrStatsTable <intf-out> <type-out> <rx_pkts> <tx_pkts> <drops> } ]
```

Syntax Description

show	Show running system information
snmp-dhcp-relay	DHCP Relay
statistics	Statistics related to DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) Interface Index Value
pkt-type	DHCP Packet type
__readonly__	(Optional) Read only
TABLE-cdrStatsTable	(Optional)
<i>intf-in</i>	(Optional) table index - ifindex
<i>intf-out</i>	(Optional) table index
<i>type-in</i>	table index - packet type
<i>type-out</i>	(Optional) table index
<i>rx_pkts</i>	(Optional) received pkt count
<i>tx_pkts</i>	(Optional) transmitted pkt count
<i>drops</i>	(Optional) dropped pkt count

Command Mode

- /exec

show snmp-ipv6-dhcp-relay drop statistics

```
show snmp-ipv6-dhcp-relay drop statistics [ interface <intf> | ifindex <intf-in> ] [ __readonly__ {
TABLE-cdrIpv6DropStatsTable <intf-out> <relay_disabled> <max_hops> <invalid_pkt> <unknown_op_intf>
<invalid_vrf> <opt_insert_failed> <dir_reply_frm_server> <ipv6_not_configured> <intf_err>
<vpn_option_disabled> <ipv6_ext_hdr_present> <mct_drop> } ]
```

Syntax Description

show	Show running system information
snmp-ipv6-dhcp-relay	IPv6 DHCP Relay
drop	Statistics related to IPv6 DHCP drop statistics
statistics	Statistics related to IPv6 DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) interface index value
<i>__readonly__</i>	(Optional) Read only
TABLE-cdrIpv6DropStatsTable	(Optional)
<i>intf-in</i>	(Optional) Interface Index
<i>intf-out</i>	(Optional) Table index
<i>relay_disabled</i>	(Optional) DHCPv6 Relay is disabled
<i>max_hops</i>	(Optional) Max hops exceeded
<i>invalid_pkt</i>	(Optional) Packet validation failed
<i>unknown_op_intf</i>	(Optional) Unknown output interface
<i>invalid_vrf</i>	(Optional) Invalid VRF
<i>opt_insert_failed</i>	(Optional) Option Insertion Failed
<i>dir_reply_frm_server</i>	(Optional) Direct Replies (Recnfg/Adv/Reply) from server
<i>ipv6_not_configured</i>	(Optional) IPv6 addr not configured
<i>intf_err</i>	(Optional) Interface error
<i>vpn_option_disabled</i>	(Optional) VPN Option Disabled
<i>ipv6_ext_hdr_present</i>	(Optional) IPv6 extn headers present
<i>mct_drop</i>	(Optional) DHCP request dropped on MCT

Command Mode

- /exec

show snmp-ipv6-dhcp-relay statistics pkt

```
show snmp-ipv6-dhcp-relay statistics { [ interface <intf> | ifindex <intf-in> ] pkt-type <type-in> } [
__readonly__ { TABLE-cdrIpv6StatsTable <intf-out> <type-out> <rx_pkts> <tx_pkts> <drops> } ]
```

Syntax Description

show	Show running system information
snmp-ipv6-dhcp-relay	IPv6 DHCP Relay
statistics	Statistics related to IPv6 DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) Interface Index Value
pkt-type	DHCP Packet type
<i>__readonly__</i>	(Optional) Read only
TABLE-cdrIpv6StatsTable	(Optional)
<i>intf-in</i>	(Optional) table index - ifindex
<i>intf-out</i>	(Optional) table index
<i>type-in</i>	table index - packet type
<i>type-out</i>	(Optional) table index
<i>rx_pkts</i>	(Optional) received pkt count
<i>tx_pkts</i>	(Optional) transmitted pkt count
<i>drops</i>	(Optional) dropped pkt count

Command Mode

- /exec

show snmp

```
show snmp [ __readonly__ <sys_contact> <sys_location> <snmp_input_packets> <bad_snmp_version>
<unknown_community_name> <illegal_community_name> <encoding_Err> <req_var_nums> <alt_var_nums>
<get_req_in> <getnext_req_in> <set_req_in> <noname_pdu_in> <badval_pdu_in> <ro_pdu_in>
<genral_err_in> <get_resp_in> <unknown_ctx> <snmp_output_packets> <trap_pdu> <toobig_err>
<noname_pdu_out> <badval_pdu_out> <genral_err_out> <get_req_out> <getnext_req_out> <set_req_out>
<get_resp_out> <silent_drops> [ <max_pkt_size> ] [ { TABLE_snmp_community <community_name>
<grouporaccess> <context> <aclfilter> } ] [ { TABLE_snmp_users <user> <auth> <priv> [ { TABLE_groups
<group> } ] [ <acl_filter> ] [ <engineID> ] } ] <tcp_auth_status> [ <port_mon_status> [ <policy_name>
<pol_admin_status> <plo_oper_status> <pol_port_type> [ TABLE_policies <counter> <threshold> <interval>
<rising_threshold> <rising_event> <falling_threshold> <falling_event> <pmon_config> ] ] [ <protocol_status>
] [ { TABLE_snmp_contexts <context_name> <proto_instanceid> <vrf> <topology> [ <vlan> | <MST> ] }
] ]
```

Syntax Description

show	Show running system information
snmp	show snmp information
__readonly__	(Optional) Read Only
TABLE_snmp_community	(Optional) Table that displays the community information
TABLE_snmp_users	(Optional) Table that displays the user information
TABLE_groups	(Optional) Table that displays the group information
TABLE_policies	(Optional) Table that displays the policy information
TABLE_snmp_contexts	(Optional) Table that displays the context information
<i>sys_contact</i>	(Optional) System Contact
<i>sys_location</i>	(Optional) System Location
<i>snmp_input_packets</i>	(Optional) SNMP input packets
<i>bad_snmp_version</i>	(Optional) bad snmp version in Input SNMP packets
<i>unknown_community_name</i>	(Optional) unknown community name in Input SNMP packets
<i>illegal_community_name</i>	(Optional) Illegal community name in Input SNMP packets
<i>encoding_Err</i>	(Optional) Encoding Errors in Input SNMP packets
<i>req_var_nums</i>	(Optional) number of requested variables
<i>alt_var_nums</i>	(Optional) number of altered variable
<i>get_req_in</i>	(Optional) GET request in Input SNMP packets
<i>getnext_req_in</i>	(Optional) GET-NEXT request in Input SNMP packets

<i>set_req_in</i>	(Optional) SET request in Input SNMP packets
<i>noname_pdu_in</i>	(Optional) NONAME PDU in Input SNMP packets
<i>badval_pdu_in</i>	(Optional) Bad value PDU in Input SNMP packets
<i>ro_pdu_in</i>	(Optional) Read only PDU in Input SNMP packets
<i>genral_err_in</i>	(Optional) Genral Error in Input SNMP packets
<i>get_resp_in</i>	(Optional) Get Response PDU in Input SNMP packets
<i>unknown_ctx</i>	(Optional) Unknown context Name in Input SNMP packets
<i>snmp_output_packets</i>	(Optional) SNMP Output Packets
<i>trap_pdu</i>	(Optional) Trap PDU in Output SNMP Packets
<i>toobig_err</i>	(Optional) Too Big errors in Output SNMP Packets
<i>noname_pdu_out</i>	(Optional)
<i>badval_pdu_out</i>	(Optional) NoName PDU in Output SNMP Packets
<i>genral_err_out</i>	(Optional) Genral Error in Output SNMP Packets
<i>get_req_out</i>	(Optional) GET request in Output SNMP Packets
<i>getnext_req_out</i>	(Optional) GET-NEXTrequest in Output SNMP Packets
<i>set_req_out</i>	(Optional) SET request in Output SNMP packets
<i>get_resp_out</i>	(Optional) Get Response PDU in Output SNMP Packets
<i>silent_drops</i>	(Optional) Silent Drop packets
<i>max_pkt_size</i>	(Optional) Maximum packet size
<i>community_name</i>	(Optional) community name
<i>grouporaccess</i>	(Optional) Group name
<i>context</i>	(Optional) context Name
<i>aclfilter</i>	(Optional) Acl filter name
<i>user</i>	(Optional) User name
<i>auth</i>	(Optional) Auth type
<i>priv</i>	(Optional) Priv Type
<i>group</i>	(Optional) Group name
<i>acl_filter</i>	(Optional) acl filter
<i>engineID</i>	(Optional) engine id for the user

<i>tcp_auth_status</i>	(Optional) TCP authentication status
<i>port_mon_status</i>	(Optional) Port monitor status
<i>policy_name</i>	(Optional) policy name
<i>pol_admin_status</i>	(Optional) Policy Admin status
<i>pol_oper_status</i>	(Optional) Police oper status
<i>pol_port_type</i>	(Optional) policy port type
<i>counter</i>	(Optional) counters
<i>threshold</i>	(Optional) Threshold
<i>interval</i>	(Optional) Interval
<i>rising_threshold</i>	(Optional) Rising threshold
<i>rising_event</i>	(Optional) Rising Event
<i>falling_threshold</i>	(Optional) Falling threshold
<i>falling_event</i>	(Optional) Falling Event
<i>pmon_config</i>	(Optional) PMON configured
<i>protocol_status</i>	(Optional) Protocol Enable status
<i>context_name</i>	(Optional) context name
<i>proto_instanceid</i>	(Optional) Protocol instance ID
<i>vrf</i>	(Optional) VRF Name
<i>topology</i>	(Optional) Topology
<i>vlan</i>	(Optional) VLAN name
<i>MST</i>	(Optional) MST name

Command Mode

- /exec

show snmp community

```
show snmp community [ __readonly__ { TABLE_snmp_community <community_name> <grouporaccess>
<context> <aclfilter> } ]
```

Syntax Description

<i>show</i>	Show running system information
<i>snmp</i>	show snmp information
<i>community</i>	show snmp community strings
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_snmp_community</i>	(Optional) contains all snmp community names
<i>community_name</i>	(Optional) community name
<i>grouporaccess</i>	(Optional) group or access name
<i>context</i>	(Optional) context name
<i>aclfilter</i>	(Optional) acl filter name

Command Mode

- /exec

show snmp context

```
show snmp context [ __readonly__ { TABLE_snmp_contexts <context_name> <proto_instanceid> <vrf>
<topology> [ <vlan> | <MST> ] } ]
```

Syntax Description

show	Show running system information
snmp	show snmp information
context	show snmp context mapping entries
<i>__readonly__</i>	(Optional)
<i>TABLE_snmp_contexts</i>	(Optional) All SNMP Contexts Entries
<i>context_name</i>	(Optional) SNMP context Name
<i>proto_instanceid</i>	(Optional) Name of the protocol instance
<i>vrf</i>	(Optional) VRF name
<i>topology</i>	(Optional) Name of the Topology
<i>vlan</i>	(Optional) VLAN Name
<i>MST</i>	(Optional)

Command Mode

- /exec

show snmp engineID

show snmp engineID [__readonly__ <engineIDHex> <engineIDDec>]

Syntax Description

show	Show running system information
snmp	show snmp information
engineID	show snmp engineID
__readonly__	(Optional)
<i>engineIDHex</i>	(Optional) SNMP engineID in HEX
<i>engineIDDec</i>	(Optional) SNMP engineID in Decimal

Command Mode

- /exec

show snmp group

```
show snmp group [ __readonly__ TABLE_role <role_name> <role_description> [ <attribute_scope> ] [
<permit_vsan> ] [ <permit_vlan> ] [ <permit_interface> ] [ <permit_vrf> ] [ TABLE_rule <rule_num>
<rule_action> { <rule_permission> | <rule_permission_mds> } [ <rule_featuretype> ] [ <rule_entity> ] ] ]
```

Syntax Description

show	Show running system information
snmp	show snmp information
group	show snmp group
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_role</i>	(Optional) Table displays role
<i>role_name</i>	(Optional) Role Name
<i>role_description</i>	(Optional) Role Description
<i>attribute_scope</i>	(Optional) Role scope
<i>permit_vsan</i>	(Optional) permitted vsan
<i>permit_vlan</i>	(Optional)
<i>permit_interface</i>	(Optional)
<i>permit_vrf</i>	(Optional)
<i>TABLE_rule</i>	(Optional)
<i>rule_num</i>	(Optional)
<i>rule_action</i>	(Optional)
<i>rule_permission</i>	(Optional)
<i>rule_permission_mds</i>	(Optional)
<i>rule_featuretype</i>	(Optional)
<i>rule_entity</i>	(Optional)

Command Mode

- /exec

show snmp host

```
show snmp host [ __readonly__ { TABLE_host <host><port><version><level><type><secname> [ [ <vrf>
] [ TABLE_vrf_filters <vrf_filter> ] [ <src_intf> ] ] } ]
```

Syntax Description

show	Show running system information
snmp	show snmp information
host	show snmp hosts
__readonly__	(Optional) Read Only
TABLE_host	(Optional) displays the list of hosts configured for snmp requests
TABLE_vrf_filters	(Optional) displays the host vrf filters
<i>vrf</i>	(Optional) VRF Name
<i>vrf_filter</i>	(Optional) vrf filters
<i>src_intf</i>	(Optional) source interface

Command Mode

- /exec

show snmp mib igmpCacheTable

```
show snmp mib igmpCacheTable [ <igmpCacheAddress-in> ] [ <igmpCacheIfIndex-in> ] [ __readonly__
TABLE_igmpCacheTable <igmpCacheAddress-out> <igmpCacheIfIndex-out> <igmpCacheSelf>
<igmpCacheLastReporter> <igmpCacheUpTime> <igmpCacheExpiryTime> <igmpCacheStatus>
<igmpCacheVersion|HostTimer> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
igmpCacheTable	show mib table igmpCacheTable
<i>igmpCacheAddress-in</i>	(Optional) igmpCacheAddress
<i>igmpCacheIfIndex-in</i>	(Optional) igmpCacheIfIndex
<i>__readonly__</i>	(Optional)
TABLE_igmpCacheTable	(Optional)
<i>igmpCacheAddress-out</i>	(Optional) mib table index igmpCacheAddress
<i>igmpCacheIfIndex-out</i>	(Optional) mib table index igmpCacheIfIndex
<i>igmpCacheSelf</i>	(Optional) mib object igmpCacheSelf
<i>igmpCacheLastReporter</i>	(Optional) mib object igmpCacheLastReporter
<i>igmpCacheUpTime</i>	(Optional) mib object igmpCacheUpTime
<i>igmpCacheExpiryTime</i>	(Optional) mib object igmpCacheExpiryTime
<i>igmpCacheStatus</i>	(Optional) mib object igmpCacheStatus
<i>igmpCacheVersion HostTimer</i>	(Optional) mib object igmpCacheVersion HostTimer

Command Mode

- /exec

show snmp mib igmpInterfaceTable

```
show snmp mib igmpInterfaceTable [ <igmpInterfaceIfIndex-in> ] [ __readonly__ TABLE_igmpInterfaceTable
<igmpInterfaceIfIndex-out> <igmpInterfaceQueryInterval> <igmpInterfaceStatus> <igmpInterfaceVersion>
<igmpInterfaceQuerier> <igmpInterfaceQueryMaxResponseTime> <igmpInterfaceQuerierUpTime>
<igmpInterfaceQuerierExpiryTime> <igmpInterfaceVersion1QuerierTimer>
<igmpInterfaceWrongVersionQueries> <igmpInterfaceJoins> <igmpInterfaceProxyIfIndex>
<igmpInterfaceGroups> <igmpInterfaceRobustness> <igmpInterfaceLastMembQueryIntvl> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
igmpInterfaceTable	show mib table igmpInterfaceTable
<i>igmpInterfaceIfIndex-in</i>	(Optional) igmpInterfaceIndex
<i>__readonly__</i>	(Optional)
<i>TABLE_igmpInterfaceTable</i>	(Optional)
<i>igmpInterfaceIfIndex-out</i>	(Optional) mib table index igmpInterfaceIfIndex
<i>igmpInterfaceQueryInterval</i>	(Optional) mib object igmpInterfaceQueryInterval
<i>igmpInterfaceStatus</i>	(Optional) mib object igmpInterfaceStatus
<i>igmpInterfaceVersion</i>	(Optional) mib object igmpInterfaceVersion
<i>igmpInterfaceQuerier</i>	(Optional) mib object igmpInterfaceQuerier
<i>igmpInterfaceQueryMaxResponseTime</i>	(Optional) mib object igmpInterfaceQueryMaxResponseTime
<i>igmpInterfaceQuerierUpTime</i>	(Optional) mib object igmpInterfaceQuerierUpTime
<i>igmpInterfaceQuerierExpiryTime</i>	(Optional) mib object igmpInterfaceQuerierExpiryTime
<i>igmpInterfaceVersion1QuerierTimer</i>	(Optional) mib object igmpInterfaceVersion1QuerierTimer
<i>igmpInterfaceWrongVersionQueries</i>	(Optional) mib object igmpInterfaceWrongVersionQueries
<i>igmpInterfaceJoins</i>	(Optional) mib object igmpInterfaceJoins
<i>igmpInterfaceProxyIfIndex</i>	(Optional) mib object igmpInterfaceProxyIfIndex
<i>igmpInterfaceGroups</i>	(Optional) mib object igmpInterfaceGroups
<i>igmpInterfaceRobustness</i>	(Optional) mib object igmpInterfaceRobustness
<i>igmpInterfaceLastMembQueryIntvl</i>	(Optional) mib object igmpInterfaceLastMembQueryIntvl

Command Mode

- /exec

show snmp mib pimCandidateRPTable

```
show snmp mib pimCandidateRPTable [ <pimCandidateRPGroupAddress-in> ] [
<pimCandidateRPGroupMask-in> ] [ __readonly__ TABLE_pimCandidateRPTable
<pimCandidateRPGroupAddress-out> <pimCandidateRPGroupMask-out> <pimCandidateRPAAddress>
<pimCandidateRPRowStatus> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimCandidateRPTable	show mib table pimCandidateRPTable
<i>pimCandidateRPGroupAddress-in</i>	(Optional) pimCandidateRPGroupAddress
<i>pimCandidateRPGroupMask-in</i>	(Optional) pimCandidateRPGroupMask
<i>__readonly__</i>	(Optional)
TABLE_pimCandidateRPTable	(Optional)
<i>pimCandidateRPGroupAddress-out</i>	(Optional) mib table index pimCandidateRPGroupAddress
<i>pimCandidateRPGroupMask-out</i>	(Optional) mib table index pimCandidateRPGroupMask
<i>pimCandidateRPAAddress</i>	(Optional) mib object pimCandidateRPAAddress
<i>pimCandidateRPRowStatus</i>	(Optional) mib object pimCandidateRPRowStatus

Command Mode

- /exec

show snmp mib pimComponentTable

```
show snmp mib pimComponentTable [ <pimComponentIndex-in> ] [ __readonly__
TABLE_pimComponentTable <pimComponentIndex-out> <pimComponentBSRAddress>
<pimComponentBSRExpiryTime> <pimComponentCRPHoldTime> <pimComponentStatus> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimComponentTable	show mib table pimComponentTable
<i>pimComponentIndex-in</i>	(Optional) pimComponentIndex
<i>__readonly__</i>	(Optional)
<i>TABLE_pimComponentTable</i>	(Optional)
<i>pimComponentIndex-out</i>	(Optional) mib table index pimComponentIndex
<i>pimComponentBSRAddress</i>	(Optional) mib object pimComponentBSRAddress
<i>pimComponentBSRExpiryTime</i>	(Optional) mib object pimComponentBSRExpiryTime
<i>pimComponentCRPHoldTime</i>	(Optional) mib object pimComponentCRPHoldTime
<i>pimComponentStatus</i>	(Optional) mib object pimComponentStatus

Command Mode

- /exec

show snmp mib pimInterfaceTable

```
show snmp mib pimInterfaceTable [ <pimInterfaceIfIndex-in> ] [ __readonly__ TABLE_pimInterfaceTable
<pimInterfaceIfIndex-out> <pimInterfaceAddress> <pimInterfaceNetMask> <pimInterfaceMode>
<pimInterfaceDR> <pimInterfaceHelloInterval> <pimInterfaceStatus> <pimInterfaceJoinPruneInterval>
<pimInterfaceCBSRPreference> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimInterfaceTable	show mib table pimInterfaceTable
<i>pimInterfaceIfIndex-in</i>	(Optional) pimInterfaceIndex
<i>__readonly__</i>	(Optional)
<i>TABLE_pimInterfaceTable</i>	(Optional)
<i>pimInterfaceIfIndex-out</i>	(Optional) mib table index pimInterfaceIfIndex
<i>pimInterfaceAddress</i>	(Optional) mib object pimInterfaceAddress
<i>pimInterfaceNetMask</i>	(Optional) mib object pimInterfaceNetMask
<i>pimInterfaceMode</i>	(Optional) mib object pimInterfaceMode
<i>pimInterfaceDR</i>	(Optional) mib object pimInterfaceDR
<i>pimInterfaceHelloInterval</i>	(Optional) mib object pimInterfaceHelloInterval
<i>pimInterfaceStatus</i>	(Optional) mib object pimInterfaceStatus
<i>pimInterfaceJoinPruneInterval</i>	(Optional) mib object pimInterfaceJoinPruneInterval
<i>pimInterfaceCBSRPreference</i>	(Optional) mib object pimInterfaceCBSRPreference

Command Mode

- /exec

show snmp mib pimIpMRouteNextHopTable

```
show snmp mib pimIpMRouteNextHopTable [ <ipMRouteNextHopGroup-in> <ipMRouteNextHopSource-in>
<ipMRouteNextHopSourceMask-in> <ipMRouteNextHopIfIndex-in> <ipMRouteNextHopAddress-in> ] [
__readonly__ TABLE _pimIpMRouteNextHopTable <ipMRouteNextHopGroup-out>
<ipMRouteNextHopSource-out> <ipMRouteNextHopSourceMask-out> <ipMRouteNextHopIfIndex-out>
<ipMRouteNextHopAddress-out> <pimIpMRouteNextHopPruneReason> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimIpMRouteNextHopTable	show mib table pimIpMRouteNextHopTable
<i>ipMRouteNextHopGroup-in</i>	(Optional) ipMRouteNextHopGroup
<i>ipMRouteNextHopSource-in</i>	(Optional) ipMRouteNextHopSource
<i>ipMRouteNextHopSourceMask-in</i>	(Optional) ipMRouteNextHopSourceMask
<i>ipMRouteNextHopIfIndex-in</i>	(Optional) ipMRouteNextHopIfIndex
<i>ipMRouteNextHopAddress-in</i>	(Optional) ipMRouteNextHopAddress
<i>__readonly__</i>	(Optional)
TABLE <i>_pimIpMRouteNextHopTable</i>	(Optional)
<i>ipMRouteNextHopGroup-out</i>	(Optional) mib table index ipMRouteNextHopGroup
<i>ipMRouteNextHopSource-out</i>	(Optional) mib table index pimComponentBSRAddress
<i>ipMRouteNextHopSourceMask-out</i>	(Optional) mib table index pimComponentBSRExpiryTime
<i>ipMRouteNextHopIfIndex-out</i>	(Optional) mib table index pimComponentCRPHoldTime
<i>ipMRouteNextHopAddress-out</i>	(Optional) mib table index pimComponentStatus
<i>pimIpMRouteNextHopPruneReason</i>	(Optional) mib object pimIpMRouteNextHopPruneReason

Command Mode

- /exec

show snmp mib pimIpMRouteTable

```
show snmp mib pimIpMRouteTable [ <ipMRouteGroup-in> ] [ <ipMRouteSource-in> ] [
<ipMRouteSourceMask-in> ] [ __readonly__ TABLE_pimIpMRouteTable <ipMRouteGroup-out>
<ipMRouteSource-out> <ipMRouteSourceMask-out> <pimIpMRouteUpstreamAssertTimer>
<pimIpMRouteAssertMetric> <pimIpMRouteAssertMetricPref> <pimIpMRouteAssertRPTBit>
<pimIpMRouteFlags> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimIpMRouteTable	show mib table pimIpMRouteTable
<i>ipMRouteGroup-in</i>	(Optional) ipMRouteGroup
<i>ipMRouteSource-in</i>	(Optional) ipMRouteSource
<i>ipMRouteSourceMask-in</i>	(Optional) ipMRouteSourceMask
<i>__readonly__</i>	(Optional)
TABLE_pimIpMRouteTable	(Optional)
<i>ipMRouteGroup-out</i>	(Optional) mib table index ipMRouteGroup-out
<i>ipMRouteSource-out</i>	(Optional) mib table index ipMRouteSource-out
<i>ipMRouteSourceMask-out</i>	(Optional) mib table index ipMRouteSourceMask-out
<i>pimIpMRouteUpstreamAssertTimer</i>	(Optional) mib object pimIpMRouteUpstreamAssertTimer
<i>pimIpMRouteAssertMetric</i>	(Optional) mib object pimIpMRouteAssertMetric
<i>pimIpMRouteAssertMetricPref</i>	(Optional) mib object pimIpMRouteAssertMetricPref
<i>pimIpMRouteAssertRPTBit</i>	(Optional) mib object pimIpMRouteAssertRPTBit
<i>pimIpMRouteFlags</i>	(Optional) mib object pimIpMRouteFlags

Command Mode

- /exec

show snmp mib pimJoinPruneInterval

show snmp mib pimJoinPruneInterval [__readonly__ <pimJoinPruneInterval>]

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimJoinPruneInterval	show mib scalar pimJoinPruneInterval
__readonly__	(Optional) Read Only
<i>pimJoinPruneInterval</i>	(Optional) mib object pimJoinPruneInterval

Command Mode

- /exec

show snmp mib pimNeighborTable

```
show snmp mib pimNeighborTable [ <pimNeighborAddress-in> ] [ __readonly__ TABLE_pimNeighborTable
<pimNeighborAddress-out> <pimNeighborIfIndex> <pimNeighborUpTime> <pimNeighborExpiryTime> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimNeighborTable	show mib table pimNeighborTable
<i>pimNeighborAddress-in</i>	(Optional) pimNeighborAddress
<i>__readonly__</i>	(Optional)
<i>TABLE_pimNeighborTable</i>	(Optional)
<i>pimNeighborAddress-out</i>	(Optional) mib table index pimNeighborAddress
<i>pimNeighborIfIndex</i>	(Optional) mib object pimNeighborIfIndex
<i>pimNeighborUpTime</i>	(Optional) mib object pimNeighborUpTime
<i>pimNeighborExpiryTime</i>	(Optional) mib object pimNeighborExpiryTime

Command Mode

- /exec

show snmp mib pimRPSetTable

```
show snmp mib pimRPSetTable [ <pimRPSetComponent-in> ] [ <pimRPSetGroupAddress-in> ] [
<pimRPSetGroupMask-in> ] [ <pimRPSetAddress-in> ] [ __readonly__ TABLE_pimRPSetTable
<pimRPSetGroupAddress-out> <pimRPSetGroupMask-out> <pimRPSetAddress-out> <pimRPSetHoldTime>
<pimRPSetExpiryTime> <pimRPSetComponent-out> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimRPSetTable	show mib table pimRPSetTable
<i>pimRPSetComponent-in</i>	(Optional) pimRPSetComponent
<i>pimRPSetGroupAddress-in</i>	(Optional) pimRPSetGroupAddress
<i>pimRPSetGroupMask-in</i>	(Optional) pimRPSetGroupMask
<i>pimRPSetAddress-in</i>	(Optional) pimRPSetAddress
<i>__readonly__</i>	(Optional)
TABLE_pimRPSetTable	(Optional)
<i>pimRPSetGroupAddress-out</i>	(Optional) mib table index pimRPSetGroupAddress
<i>pimRPSetGroupMask-out</i>	(Optional) mib table index pimRPSetGroupMask
<i>pimRPSetAddress-out</i>	(Optional) mib table index pimRPSetAddress
<i>pimRPSetHoldTime</i>	(Optional) mib object pimRPSetHoldTime
<i>pimRPSetExpiryTime</i>	(Optional) mib object pimRPSetExpiryTime
<i>pimRPSetComponent-out</i>	(Optional) mib table index pimRPSetComponent

Command Mode

- /exec

show snmp pss

show snmp pss

Syntax Description

show	Show running system information
snmp	show snmp information
pss	show SNMP pss

Command Mode

- /exec

show snmp roleddebug

show snmp roleddebug

Syntax Description

show	Show running system information
snmp	show snmp information
roleddebug	show SNMP roleddebug

Command Mode

- /exec

show snmp sessions

show snmp sessions [__readonly__ { TABLE_session <dest> }]

Syntax Description

show	Show running system information
snmp	show snmp information
sessions	show snmp sessions
__readonly__	(Optional) Read Only
TABLE_session	(Optional) table displays destination
<i>dest</i>	(Optional) destination

Command Mode

- /exec

show snmp snmpv3stats

show snmp snmpv3stats

Syntax Description

show	Show running system information
snmp	show snmp information
snmpv3stats	show SNMP snmpdebug

Command Mode

- /exec

show snmp source-interface

```
show snmp source-interface [ __readonly__ { <trap_srcintf> <informs_srcintf> } ]
```

Syntax Description

show	Show running system information
snmp	show snmp information
source-interface	show source-interface through which notifications are sent
__readonly__	(Optional) Read Only
<i>trap_srcintf</i>	(Optional) Displays the source interface for traps
<i>informs_srcintf</i>	(Optional) Displays the source interface for informs

Command Mode

- /exec

show snmp trap

```
show snmp trap [ __readonly__ { TABLE_snmp_trap <trap_type><description><isEnabled> } ]
```

Syntax Description

show	Show running system information
snmp	show snmp information
trap	show snmp traps
__readonly__	(Optional) Read Only
TABLE_snmp_trap	(Optional) All snmp traps configured

Command Mode

- /exec

show snmp user

```
show snmp user [ <s0> [ engineID <s1> ] ][ __readonly__ [ { TABLE_snmp_users <user> <auth> <priv> [
{ TABLE_groups <group> } ] [ <acl_filter> ] [ <engineID> } } ] ]
```

Syntax Description

show	Show running system information
snmp	show snmp information
user	show SNMPv3 users
<i>s0</i>	(Optional) Name of the user
engineID	(Optional) engineID
<i>s1</i>	(Optional) Target's SNMP engineID(colon separated) for SNMPv3 inform
__readonly__	(Optional) Read Only
TABLE_snmp_users	(Optional) table displays the snmp users
TABLE_groups	(Optional) table displays the groups for specific user
<i>user</i>	(Optional) user name
<i>auth</i>	(Optional) auth type
<i>priv</i>	(Optional) priv type
<i>group</i>	(Optional) group belongs to
<i>acl_filter</i>	(Optional) acl filter
<i>engineID</i>	(Optional) engineID for specific user

Command Mode

- /exec

show sockets buffers

```
show sockets buffers [ { [ all <count> ] [ free <count> ] } ]
```

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
buffers	Display detailed buffer statistics
all	(Optional) Dump buffers from ALL list
free	(Optional) Dump buffers from FREE list
<i>count</i>	(Optional) Number of buffers to dump

Command Mode

- /exec

show sockets client

```

show sockets client { [ pid <pid> ] [ tcp | udp | raw ] [ detail ] [ kstack-ns-all ] } [ __readonly__ [
TABLE_total_clients [ <socket-type> <total-clients> ] [ <no-total-clients> ] [ TABLE_cl_sk { <prefix>
<client-name> <pid> <No-of-clients> } [ <fast-tcp-mts-ctrl-q> ] [ { <cancel-requests> <cancel-unblocks>
<cancel-misses> <select-drops> <select-wakes> } ] [ TABLE_det [ { <fd> <client-id> [ <mts-sap> } ] ] [
TABLE_st [ <soc-calls> ] [ <bind-calls> ] [ <listen-calls> ] [ <accept-calls> ] [ <acc-dispat-err> ] [
<connect-calls> ] [ <connec-dispatch> ] [ <recvmsg-dispatch> ] [ <recv-dis-nblock> ] [ <recvmsg-call> ] [
<brecv-dispatch> ] [ <fsendmsg-calls> ] [ <sendmsg-dispatch> ] [ <sendmsg-calls> ] [ <msendmsg-calls> ]
[ <select-calls> ] [ <select-dispatch> ] [ <select-need-work> ] [ <sh-calls> ] [ <close-calls> ] [ <fcntl-calls>
] [ <iocctl-calls> ] [ <setsock-calls> ] [ <getsock-calls> ] [ <getsockname-calls> ] [ <getpeer-calls> ] [
<fork-calls> ] [ <execve-calls> ] [ <dup-calls> ] [ <can-calls> ] [ <can-miss> ] [ <can-unblk-sele> ] [
<soc-ha-calls> ] [ <pfork-client> ] [ <read-fd> ] [ <write-fd> ] [ <read-fd-set> ] [ <write-fd-set> ] [
<fast-tcp-send-req> ] [ <fast-tcp-send-suc> ] [ <fast-tcp-ack> ] ] [ TABLE_sterr [ <sock-err> ] [
<sock-nodev-err> ] [ <bind-err> ] [ <lis-err> ] [ <accept-err> ] [ <connect-err> ] [ <recvmsg-err> ] [
<brecvmsg-err> ] [ <fsendmsg-err> ] [ <sendmsg-err> ] [ <msndmsg-err> ] [ <select-err> ] [ <sel-nomem-err>
] [ <shut-err> ] [ <close-err> ] [ <fcntl-err> ] [ <iocctl-err> ] [ <setsoc-err> ] [ <getsoc-err> ] [ <getsocname-err>
] [ <getpeername-err> ] [ <fork-err> ] [ <execve-err> ] [ <dup-err> ] [ <psoc-vrf-err> ] [ <psoc-nosoc-err> ]
[ <psoc-sock-null-err> ] [ <psoc-socre-err> ] [ <pbind-nsock-err> ] [ <pbd-getsocaddr> ] [ <pbind-sobind-err>
] [ <plisten-nsoc-err> ] [ <plis-solis-err> ] [ <pacc-nsoc-err> ] [ <pacc-no-nsoc-err> ] [ <pacc-soc-null-err>
] [ <pacc-copy-err> ] [ <pacc-no-acc-err> ] [ <pacc-woublo-err> ] [ <pacc-connabo-err> ] [
<pacc-cond-wait-err> ] [ <pacc-so-err-err> ] [ <pacc-err-err> ] [ <pcon-no-soc-err> ] [ <pcon-ealready-err>
] [ <pconn-getsock> ] [ <pconn-socon-err> ] [ <pconn-einpro-err> ] [ <pconn-con-wait-err> ] [
<pseud-no-soc-err> ] [ <pseud-inval-iiov> ] [ <pseud-getsoc-err> ] [ <pseud-msg-ctrl-err> ] [
<pseud-sockarg-err> ] [ <pseud-pru-sosend> ] [ <precv-nosock-err> ] [ <precv-inval-iioflen> ] [
<precv-pru-sorecv> ] [ <precv-cp-msg-err> ] [ <precv-cp-msg-nlen> ] [ <precv-cp-data-err> ] [
<pbreceive-rcvmsg-err> ] [ <pshut-no-soc-err> ] [ <psetsoc-val-err> ] [ <psetsoc-inv-val> ] [ <psetsoc-no-soc-err>
] [ <psetsoc-sosetopt> ] [ <pgetsoc-no-socerr> ] [ <pgetsoc-cp-err> ] [ <pgetsoc-val-err> ] [ <pgetsoc-sogt-err>
] [ <pgetsoc-no-soc-err> ] [ <pgetsoc-cp-err> ] [ <pgetsoc-pru-soc-err> ] [ <pgetsoc-cpout-err> ] [
<pgtprne-no-soc-err> ] [ <pgtprne-enot-err> ] [ <pgtprne-cp-err> ] [ <pgtprne-pru-pradd> ] [
<pgtprne-cpout-err> ] [ <pclose-no-soc-err> ] [ <pclose-socnull-err> ] [ <pclose-p-cls2-err> ] [
<pfcntl-no-soc-err> ] [ <pfcntl-soc-null> ] [ <pfcntl-enotsup> ] [ <pfcntl-einval-err> ] [ <pioctl-no-soc-err>
] [ <pioctl-enotsup> ] [ <pioctl-pru-cntl> ] [ <pfork-enomem-err> ] [ <pdup-no-soc-err> ] [ <pudp-soc-null-err>
] [ <ha-nomem-err> ] [ <ha-tlv-err> ] [ <ha-soc-arg-err> ] [ <ha-cli-tlv-err> ] [ <ha-pss-upd-err> ] [
<ha-no-soc-err> ] [ <ha-soc-tlv-err> ] [ <ha-soc-pss-upd> ] [ <ha-inpcb-tlv> ] [ <ha-inpcb-pssky> ] [
<ha-ip-mopt-tlv> ] [ <ha-ip-mopt-pss> ] [ <ha-ip6-mopt-tlv> ] [ <ha-ip6-mopt-pss> ] [ <ha-tcpb-tlv> ] [
<ha-tcpb-pss> ] [ <ft-tcp-wblock> ] [ <ft-send-p-sndmsg> ] [ <ft-ack-rcv-no-soc> ] [ <!xc-tgid-err> ] ] [
TABLE_sp_cl [ <can-requests> <can-unblocks> <can-misses> <sel-drops> <sel-wakes> ] ] ] ]

```

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
client	Display sockets client information
pid	(Optional) Display specific client process information
<i>pid</i>	(Optional) Display client process <pid>

tcp	(Optional) Display TCP clients
udp	(Optional) Display UDP clients
raw	(Optional) Display RAW clients
detail	(Optional) Display socket details
kstack-ns-all	(Optional) Show kernel clients for all namespaces
__readonly__	(Optional)
TABLE_total_clients	(Optional) Total no of client sockets
socket-type	(Optional) Sockets type
total-clients	(Optional)
no-total-clients	(Optional)
TABLE_cl_sk	(Optional) Display Client sockets
prefix	(Optional) Prefix to the sockets
client-name	(Optional) Display socket client info
pid	(Optional) Display client process <pid>
No-of-clients	(Optional) Number of socket clients
fast-tcp-mts-ctrl-q	(Optional)
cancel-requests	(Optional)
cancel-unblocks	(Optional)
cancel-misses	(Optional)
select-drops	(Optional)
select-wakes	(Optional)
TABLE_det	(Optional) Display Socket client Details
fd	(Optional) Client socket fd
client-id	(Optional) Client socket id
mts-sap	(Optional) socket mts addr sap
TABLE_st	(Optional) Sock detail Ctrl statistics
soc-calls	(Optional)
bind-calls	(Optional)
listen-calls	(Optional)

<i>accept-calls</i>	(Optional)
<i>acc-dispat-err</i>	(Optional)
<i>connect-calls</i>	(Optional)
<i>connec-dispatch</i>	(Optional)
<i>recvmsg-dispatch</i>	(Optional)
<i>recv-dis-nblock</i>	(Optional)
<i>recvmsg-call</i>	(Optional)
<i>brecv-dispatch</i>	(Optional)
<i>fsendmsg-calls</i>	(Optional)
<i>sendmsg-dispatch</i>	(Optional)
<i>sendmsg-calls</i>	(Optional)
<i>msendmsg-calls</i>	(Optional)
<i>select-calls</i>	(Optional)
<i>select-dispatch</i>	(Optional)
<i>select-need-work</i>	(Optional)
<i>sh-calls</i>	(Optional)
<i>close-calls</i>	(Optional)
<i>fcntl-calls</i>	(Optional)
<i>ioctl-calls</i>	(Optional)
<i>setsock-calls</i>	(Optional)
<i>getsock-calls</i>	(Optional)
<i>getsockname-calls</i>	(Optional)
<i>getpeer-calls</i>	(Optional)
<i>fork-calls</i>	(Optional)
<i>execve-calls</i>	(Optional)
<i>dup-calls</i>	(Optional)
<i>can-calls</i>	(Optional)
<i>can-miss</i>	(Optional)
<i>can-unblk-sele</i>	(Optional)

<i>soc-ha-calls</i>	(Optional)
<i>pfork-client</i>	(Optional)
<i>read-fd</i>	(Optional)
<i>write-fd</i>	(Optional)
<i>read-fd-set</i>	(Optional)
<i>write-fd-set</i>	(Optional)
<i>fast-tcp-send-req</i>	(Optional)
<i>fast-tcp-send-suc</i>	(Optional)
<i>fast-tcp-ack</i>	(Optional)
TABLE_sterr	(Optional) Client Socket Error Statistics
<i>sock-err</i>	(Optional)
<i>sock-nodev-err</i>	(Optional)
<i>bind-err</i>	(Optional)
<i>lis-err</i>	(Optional)
<i>accept-err</i>	(Optional)
<i>connect-err</i>	(Optional)
<i>recvmsg-err</i>	(Optional)
<i>brcvmsg-err</i>	(Optional)
<i>fsendmsg-err</i>	(Optional)
<i>sendmsg-err</i>	(Optional)
<i>msndmsg-err</i>	(Optional)
<i>select-err</i>	(Optional)
<i>sel-nomem-err</i>	(Optional)
<i>shut-err</i>	(Optional)
<i>close-err</i>	(Optional)
<i>fcntl-err</i>	(Optional)
<i>ioctl-err</i>	(Optional)
<i>setsoc-err</i>	(Optional)
<i>getsoc-err</i>	(Optional)

<i>getsocname-err</i>	(Optional)
<i>getpeername-err</i>	(Optional)
<i>fork-err</i>	(Optional)
<i>execve-err</i>	(Optional)
<i>dup-err</i>	(Optional)
<i>psoc-vrf-err</i>	(Optional)
<i>psoc-nosoc-err</i>	(Optional)
<i>psoc-sock-null-err</i>	(Optional)
<i>psoc-socre-err</i>	(Optional)
<i>pbind-nsock-err</i>	(Optional)
<i>pbid-getsocaddr</i>	(Optional)
<i>pbind-sobind-err</i>	(Optional)
<i>plisten-nsoc-err</i>	(Optional)
<i>plis-solis-err</i>	(Optional)
<i>pacc-nsoc-err</i>	(Optional)
<i>pacc-no-nsoc-err</i>	(Optional)
<i>pacc-soc-null-err</i>	(Optional)
<i>pacc-copy-err</i>	(Optional)
<i>pacc-no-acc-err</i>	(Optional)
<i>pacc-woublo-err</i>	(Optional)
<i>pacc-connabo-err</i>	(Optional)
<i>pacc-cond-wait-err</i>	(Optional)
<i>pacc-so-err-err</i>	(Optional)
<i>pacc-err-err</i>	(Optional)
<i>pcon-no-soc-err</i>	(Optional)
<i>pcon-ealready-err</i>	(Optional)
<i>pconn-getsock</i>	(Optional)
<i>pconn-socon-err</i>	(Optional)
<i>pconn-einpro-err</i>	(Optional)

<i>pconn-con-wait-err</i>	(Optional)
<i>psend-no-soc-err</i>	(Optional)
<i>psend-inval-iov</i>	(Optional)
<i>psend-getsoc-err</i>	(Optional)
<i>psend-msg-ctrl-err</i>	(Optional)
<i>psend-sockarg-err</i>	(Optional)
<i>psend-pru-sosend</i>	(Optional)
<i>precv-nosock-err</i>	(Optional)
<i>precv-inval-iovlen</i>	(Optional)
<i>precv-pru-sorecv</i>	(Optional)
<i>precv-cp-msg-err</i>	(Optional)
<i>precv-cp-msg-nlen</i>	(Optional)
<i>precv-cp-data-err</i>	(Optional)
<i>pbrecv-rcvmsg-err</i>	(Optional)
<i>pshut-no-soc-err</i>	(Optional)
<i>psetsoc-val-err</i>	(Optional)
<i>psetsoc-inv-val</i>	(Optional)
<i>psetsoc-no-soc-err</i>	(Optional)
<i>psetsoc-sosetopt</i>	(Optional)
<i>pgetsoc-no-socerr</i>	(Optional)
<i>pgetsoc-cp-err</i>	(Optional)
<i>pgetsoc-val-err</i>	(Optional)
<i>pgetsoc-sogt-err</i>	(Optional)
<i>pgtsoc-no-soc-err</i>	(Optional)
<i>pgtsoc-cp-err</i>	(Optional)
<i>pgtsoc-pru-soc-err</i>	(Optional)
<i>pgtsoc-cpout-err</i>	(Optional)
<i>pgtprne-no-soc-err</i>	(Optional)
<i>pgtprne-enot-err</i>	(Optional)

<i>pgtprne-cp-err</i>	(Optional)
<i>pgtprne-pru-pradd</i>	(Optional)
<i>pgtprne-cpout-err</i>	(Optional)
<i>pclose-no-soc-err</i>	(Optional)
<i>pclose-socnull-err</i>	(Optional)
<i>pclose-p-cls2-err</i>	(Optional)
<i>pfcntl-no-soc-err</i>	(Optional)
<i>pfcntl-soc-null</i>	(Optional)
<i>pfcntl-enotsup</i>	(Optional)
<i>pfcntl-einval-err</i>	(Optional)
<i>pioctl-no-soc-err</i>	(Optional)
<i>pioctl-enotsup</i>	(Optional)
<i>pioctl-pru-ctl</i>	(Optional)
<i>pfork-enomem-err</i>	(Optional)
<i>pdup-no-soc-err</i>	(Optional)
<i>pudp-soc-null-err</i>	(Optional)
<i>ha-nomem-err</i>	(Optional)
<i>ha-tlv-err</i>	(Optional)
<i>ha-soc-arg-err</i>	(Optional)
<i>ha-cli-tlv-err</i>	(Optional)
<i>ha-pss-upd-err</i>	(Optional)
<i>ha-no-soc-err</i>	(Optional)
<i>ha-soc-tlv-err</i>	(Optional)
<i>ha-soc-pss-upd</i>	(Optional)
<i>ha-inpcb-tlv</i>	(Optional)
<i>ha-inpcb-pssky</i>	(Optional)
<i>ha-ip-mopt-tlv</i>	(Optional)
<i>ha-ip-mopt-pss</i>	(Optional)
<i>ha-ip6-mopt-tlv</i>	(Optional)

<i>ha-ip6-mopt-pss</i>	(Optional)
<i>ha-tcpcb-tlv</i>	(Optional)
<i>ha-tcpcb-pss</i>	(Optional)
<i>ft-tcp-wblock</i>	(Optional)
<i>ft-send-p-sndmsg</i>	(Optional)
<i>ft-ack-rcv-no-soc</i>	(Optional)
<i>lxc-tgid-err</i>	(Optional) Containers tgid err
TABLE_sp_cl	(Optional) Sock specific Ctrl statistics
<i>can-requests</i>	(Optional)
<i>can-unblocks</i>	(Optional)
<i>can-misses</i>	(Optional)
<i>sel-drops</i>	(Optional)
<i>sel-wakes</i>	(Optional)

Command Mode

- /exec

show sockets connection

```
show sockets connection [ pid <pid> | tcp | udp | raw ] [ local { <srcIP> | <srcIP6> } ] [ foreign { <dstIP> | <dstIP6> } ] [ detail ] [ keydetails ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_conn <prot> <tcp-state> <rcv-count> <laddr> <lport> <faddr> <fport> <intf> <rcv-count> <snd-count> <type> <ttl> <tos> <options> <state> <iss> <snd-una> <snd-nxt> <snd_wnd> <irs> <rcv-nxt> <rcv-wnd> <snd-cwnd> <srtt> <rtt> <rttvar> <krtt> <rttmin> <mss> <dur> <flags> <md5-cnt> <md5-host> <md5-err> <rcv-hiwat> <rcv-lowat> <rcv-flags> <snd-hiwat> <snd-lowat> <snd-flags> <tcp-count> <udp-count> <raw-count> ]
```

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
connection	Display connection information
pid	(Optional) Display specific client process connection status
<i>pid</i>	(Optional) Display client process connection status <pid>
tcp	(Optional) Display all TCP connections
udp	(Optional) Display all UDP connections
raw	(Optional) Display all raw connections
local	(Optional) Display all TCP connections with specified local address
<i>srcIP</i>	(Optional) Display all TCP connections with specified local address
foreign	(Optional) Display all TCP connections with specified foreign address
<i>dstIP</i>	(Optional) Display all TCP connections with specified foreign address
detail	(Optional) Display detailed connection information
keydetails	(Optional) Display md5 key specific details
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_conn	(Optional)
<i>prot</i>	(Optional)
<i>tcp-state</i>	(Optional)

<i>rcv-count</i>	(Optional)
<i>laddr</i>	(Optional)
<i>lport</i>	(Optional)
<i>faddr</i>	(Optional)
<i>fport</i>	(Optional)
<i>intf</i>	(Optional)
<i>snd-count</i>	(Optional)
<i>type</i>	(Optional)
<i>ttl</i>	(Optional)
<i>tos</i>	(Optional)
<i>options</i>	(Optional)
<i>state</i>	(Optional)
<i>iss</i>	(Optional)
<i>snd-una</i>	(Optional)
<i>snd-nxt</i>	(Optional)
<i>snd_wnd</i>	(Optional)
<i>irs</i>	(Optional)
<i>rcv-nxt</i>	(Optional)
<i>rcv-wnd</i>	(Optional)
<i>snd-cwnd</i>	(Optional)
<i>srtt</i>	(Optional)
<i>rtt</i>	(Optional)
<i>rttvar</i>	(Optional)
<i>krtt</i>	(Optional)
<i>rttmin</i>	(Optional)
<i>mss</i>	(Optional)
<i>dur</i>	(Optional)
<i>flags</i>	(Optional)
<i>md5-cnt</i>	(Optional)

<i>md5-host</i>	(Optional)
<i>md5-err</i>	(Optional)
<i>rcv-hiwat</i>	(Optional)
<i>rcv-lowat</i>	(Optional)
<i>rcv-flags</i>	(Optional)
<i>snd-hiwat</i>	(Optional)
<i>snd-lowat</i>	(Optional)
<i>snd-flags</i>	(Optional)
<i>tcp-count</i>	(Optional)
<i>udp-count</i>	(Optional)
<i>raw-count</i>	(Optional)

Command Mode

- /exec

show sockets keychain-dump

show sockets keychain-dump

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
keychain-dump	Dump the pss information for keychains

Command Mode

- /exec

show sockets local-port-range

```
show sockets local-port-range [ __readonly__ <kstack_local_port_range_start> <kstack_local_port_range_end>
<netstack_local_port_range_start> <netstack_local_port_range_end> ]
```

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
local-port-range	Display local port range
<i>__readonly__</i>	(Optional)
<i>kstack_local_port_range_start</i>	(Optional) Kstack local port range start
<i>kstack_local_port_range_end</i>	(Optional) Kstack local port range end
<i>netstack_local_port_range_start</i>	(Optional) Netstack local port range start
<i>netstack_local_port_range_end</i>	(Optional) Netstack local port range end

Command Mode

- /exec

show sockets performance

show sockets performance [clear]

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
performance	Display detailed perf statistics
clear	(Optional) Clear perf statistics

Command Mode

- /exec

show sockets secure-lxc

show sockets secure-lxc

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
secure-lxc	Display secure-container sockets information

Command Mode

- /exec

show sockets statistics

```
show sockets statistics [ all | tcp | tcp6 | tcpsum | udp | udp6 | udpsum | raw | raw6 | rawsum ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_stat <version> <rx-total> <rx-bad-csum>
<rx-bad-offset> <rx-too-short> <rx-bad-md5> <rx-inseq-pack> <rx-inseq-bytes> <rx-dup-pack> <rx-dup-bytes>
<rx-partdup-pack> <rx-partdup-bytes> <rx-oo-pack> <rx-oo-bytes> <rx-afterwin-pack> <rx-afterwin-bytes>
<rx-afterclose-pack> <rx-winprobe-pack> <rx-winupdate-pack> <rx-dupack-pack> <rx-dupack-unsent-pack>
<rx-ack-pack> <rx-ack-bytes> <tx-total> <tx-urg> <tx-ctrl> <tx-data-pack> <tx-data-bytes> <tx-reasm-pack>
<tx-reasm-bytes> <tx-ackonly-pack> <tx-winprobe-pack> <tx-winupdate-bytes> <tx-conn-init>
<tx-conn-accepted> <tx-conn-estd> <tx-rxmt-timeout> <tx-rxmt-timeout-dropped> <tx-ka-timeout>
<tx-ka-probe> <tx-ka-drop> <closed> <dropped> <emb-dropped> <udp-rx-total> <udp-rx-bad-csum>
<udp-rx-no-csum> <udp-rx-too-short> <udp-rx-bad-len> <udp-rx-no-port> <udp-rx-no-port-bcast>
<udp-rx-no-port-mcast> <udp-rx-full-socket-drop> <udp-tx-total> <raw-rx-rcvd> <raw-rx-no-port>
<raw-rx-full-socket-drop> <raw-tx-sent> ]
```

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
statistics	Display sockets statistics
all	(Optional) Display TCP/UDP/RAW v4/v6 protocols statistics
tcp	(Optional) Display TCP v4 protocol statistics
tcp6	(Optional) Display TCP v6 protocol statistics
tcpsum	(Optional) Display sum of TCP v4 and TCP v6 protocols statistics
udp	(Optional) Display UDP v4 protocol statistics
udp6	(Optional) Display UDP v6 protocol statistics
udpsum	(Optional) Display sum of UDP v4 and UDP v6 protocols statistics
raw	(Optional) Display RAW v4 protocol statistics
raw6	(Optional) Display RAW v6 protocol statistics
rawsum	(Optional) Display sum of RAW v4 and RAW v6 protocols statistics
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_stat	(Optional)

<i>rx-total</i>	(Optional)
<i>rx-bad-csum</i>	(Optional)
<i>rx-bad-offset</i>	(Optional)
<i>rx-too-short</i>	(Optional)
<i>rx-bad-md5</i>	(Optional)
<i>rx-inseq-pack</i>	(Optional)
<i>rx-inseq-bytes</i>	(Optional)
<i>rx-dup-pack</i>	(Optional)
<i>rx-dup-bytes</i>	(Optional)
<i>rx-partdup-pack</i>	(Optional)
<i>rx-partdup-bytes</i>	(Optional)
<i>rx-oo-pack</i>	(Optional)
<i>rx-oo-bytes</i>	(Optional)
<i>rx-afterwin-pack</i>	(Optional)
<i>rx-afterwin-bytes</i>	(Optional)
<i>rx-afterclose-pack</i>	(Optional)
<i>rx-winprobe-pack</i>	(Optional)
<i>rx-winupdate-pack</i>	(Optional)
<i>rx-dupack-pack</i>	(Optional)
<i>rx-dupack-unsent-pack</i>	(Optional)
<i>rx-ack-pack</i>	(Optional)
<i>rx-ack-bytes</i>	(Optional)
<i>tx-total</i>	(Optional)
<i>tx-urg</i>	(Optional)
<i>tx-ctrl</i>	(Optional)
<i>tx-data-pack</i>	(Optional)
<i>tx-data-bytes</i>	(Optional)
<i>tx-reasm-pack</i>	(Optional)
<i>tx-reasm-bytes</i>	(Optional)

<i>tx-ackonly-pack</i>	(Optional)
<i>tx-winprobe-pack</i>	(Optional)
<i>tx-winupdate-bytes</i>	(Optional)
<i>tx-conn-init</i>	(Optional)
<i>tx-conn-accepted</i>	(Optional)
<i>tx-conn-estd</i>	(Optional)
<i>tx-rxmt-timeout</i>	(Optional)
<i>tx-rxmt-timeout-dropped</i>	(Optional)
<i>tx-ka-timeout</i>	(Optional)
<i>tx-ka-probe</i>	(Optional)
<i>tx-ka-drop</i>	(Optional)
<i>closed</i>	(Optional)
<i>dropped</i>	(Optional)
<i>emb-dropped</i>	(Optional)
<i>udp-rx-total</i>	(Optional)
<i>udp-rx-bad-csum</i>	(Optional)
<i>udp-rx-no-csum</i>	(Optional)
<i>udp-rx-too-short</i>	(Optional)
<i>udp-rx-bad-len</i>	(Optional)
<i>udp-rx-no-port</i>	(Optional)
<i>udp-rx-no-port-bcast</i>	(Optional)
<i>udp-rx-no-port-mcast</i>	(Optional)
<i>udp-rx-full-socket-drop</i>	(Optional)
<i>udp-tx-total</i>	(Optional)
<i>raw-rx-rcvd</i>	(Optional)
<i>raw-rx-no-port</i>	(Optional)
<i>raw-rx-full-socket-drop</i>	(Optional)
<i>raw-tx-sent</i>	(Optional)
<i>version</i>	(Optional)

Command Mode

- /exec

show sockets tcp keychain binding

```
show sockets tcp keychain binding [ __readonly__ { TABLE_keychain <keychain> <handle> <ref_count>
} ]
```

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
tcp	TCP information
keychain	Keychain information
binding	Binding information regarding RPM
<i>__readonly__</i>	(Optional)
<i>TABLE_keychain</i>	(Optional) all sockets tcp keychains
<i>keychain</i>	(Optional) xml keychain information
<i>handle</i>	(Optional) xml handle information
<i>ref_count</i>	(Optional) xml refcount information

Command Mode

- /exec

show spanning-tree

```
show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] [ __readonly__ TABLE_tree <tree_id>
<tree_tree_type> <tree_protocol> <port_count> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> <stp_active> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> TABLE_port <if_index> <vpc> <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestid> ] ]
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
<i>__readonly__</i>	(Optional) Read Only
TABLE_tree	(Optional)
<i>tree_id</i>	(Optional) Tree Id
<i>tree_tree_type</i>	(Optional) Tree Type
<i>tree_protocol</i>	(Optional) Tree Protocol
<i>port_count</i>	(Optional) Number of Ports in Tree
<i>bridge_mac</i>	(Optional) Bridge Mac
<i>bridge_priority</i>	(Optional) Bridge Priority
<i>tree_designated_root</i>	(Optional) Designated Root Mac
<i>tree_designated_root_priority</i>	(Optional) Designated Root Priority
<i>stp_active</i>	(Optional) Spanning Tree State

<i>root_path_cost</i>	(Optional) Root Path Cost
<i>root_port_if_index</i>	(Optional) Root Port
<i>root_port_priority</i>	(Optional) Root Port Priority
<i>root_port_number</i>	(Optional) Root Port Number
<i>topology_change</i>	(Optional) Topology Change flag is set ?
<i>topology_change_detected</i>	(Optional) Topology Change detected flag is set ?
<i>topology_change_count</i>	(Optional) Topology Change Count
<i>topology_change_time_since_last</i>	(Optional) Time since last TC
<i>tc_initiator_if_index</i>	(Optional) Topology Change initiator port
<i>max_age</i>	(Optional) Max Age
<i>hello_time</i>	(Optional) Hello Time
<i>forward_delay</i>	(Optional) Forward delay
<i>bridge_max_age</i>	(Optional) Configured Bridge Max Age
<i>bridge_hello_time</i>	(Optional) Configured Hello Time
<i>bridge_forward_delay</i>	(Optional) Configured Forward Delay
<i>hold_time</i>	(Optional) Configured Hold Time
<i>hello_timer</i>	(Optional) Hello Timer Value
<i>topology_change_timer</i>	(Optional) Topology Change Timer Value
<i>tcn_timer</i>	(Optional) TCN Timer Value
<i>aging_timer</i>	(Optional) Ageing Timer Value
<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>vpc</i>	(Optional) STP Port memebr of MCT/VPC PO

<i>state</i>	(Optional) STP Port State
<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>port_tree_type</i>	(Optional) Tree Type
<i>port_protocol</i>	(Optional) Tree Protocol
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority
<i>designated_cost</i>	(Optional) Designated cost
<i>designated_bridge</i>	(Optional) Designated bridge mac
<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id
<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>bpdu_in</i>	(Optional) BPDUs received on this stp port
<i>bpdu_out</i>	(Optional) BPDUs send on this stp port
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>link_type</i>	(Optional) Link type configured on this port
<i>port_guard</i>	(Optional) Port Guard mode of port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_portfast</i>	(Optional) Is portfast enabled ?
<i>oper_p2p</i>	(Optional) Is port P2P ?
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>oper_bpduguard</i>	(Optional) Is bpduguard enabled ?

<i>oper_bpdufilter</i>	(Optional) Is bpdufilter enabled ?
<i>int_bpdufilter</i>	(Optional) Is internal bpdufilter enabled ?
<i>forward_delay_timer</i>	(Optional) Forward Delay timer
<i>hold_timer</i>	(Optional) Hold Timer
<i>message_age</i>	(Optional) Message age timer
<i>peer</i>	(Optional) STP protocol of the peer
<i>dispute</i>	(Optional) Is port Disputed ?
<i>pvstsim_inc_timer</i>	(Optional) PVST Simulation Inconsistency Hold Timer
<i>boundary</i>	(Optional) Is port boundary ?
<i>prestd</i>	(Optional) Is port Pre STD MST ?
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>oper_networkport</i>	(Optional) Is network port enabled ?
<i>simulate_pvst_cfg</i>	(Optional) PVST Simulation configured on port

Command Mode

- /exec

show spanning-tree

show spanning-tree [vlan <vlan-id> | bridge-domain <bd-id>] { <verbosity> | active } +

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
<i>verbosity</i>	verbosity
active	Report on active interfaces only

Command Mode

- /exec

show spanning-tree blockedports

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] blockedports }
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
blockedports	Show blocked ports

Command Mode

- /exec

show spanning-tree bridge

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ priority [ system-id ] ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ { detail | brief } ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ { address | forward-time | hello-time | id | max-age | protocol } ] }
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
bridge	Status and configuration of this bridge
address	(Optional) Mac address of this bridge
forward-time	(Optional) Forward delay interval
hello-time	(Optional) Hello time
id	(Optional) Spanning tree bridge identifier
max-age	(Optional) Max age
protocol	(Optional) Spanning tree protocol
brief	(Optional) Brief summary of the status and configuration output
detail	(Optional) Detailed of the status and configuration
priority	(Optional) Bridge priority of this bridge
system-id	(Optional) Spanning tree priority with system id extension

Command Mode

- /exec

show spanning-tree inconsistentports

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] inconsistentports }
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
inconsistentports	Show inconsistent ports

Command Mode

- /exec

show spanning-tree interface

```
show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> [ __readonly__
TABLE_port <if_index> <port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol>
<port_tree_type> <path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost>
<designated_bridge> <designated_bridge_priority> <designated_port> <tc_acknowledge>
<forward_transition_count> <self_looped> <inconsistency> <bpdu_in> <bpdu_out> <port_fast> <link_type>
<port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard>
<oper_bpdufilter> <int_bpdufilter> <forward_delay_timer> <hold_timer> <message_age> <peer> <dispute>
<pvstsim_inc_timer> <prestd> <boundary> <simulate_pvst> <oper_networkport> <simulate_pvst_cfg> ]
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
interface	Spanning Tree interface status and configuration
<i>interface-id</i>	
<i>__readonly__</i>	(Optional) Read Only
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>state</i>	(Optional) STP Port State
<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number
<i>port_tree_type</i>	(Optional) Tree Type
<i>port_protocol</i>	(Optional) Tree Protocol
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority

<i>designated_cost</i>	(Optional) Designated cost
<i>designated_bridge</i>	(Optional) Designated bridge mac
<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id
<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>bpdu_in</i>	(Optional) BPDUs received on this stp port
<i>bpdu_out</i>	(Optional) BPDUs send on this stp port
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>link_type</i>	(Optional) Link type configured on this port
<i>port_guard</i>	(Optional) Port Guard mode of port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_portfast</i>	(Optional) Is portfast enabled ?
<i>oper_p2p</i>	(Optional) Is port P2P ?
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>oper_bpduguard</i>	(Optional) Is bpduguard enabled ?
<i>oper_bpdufilter</i>	(Optional) Is bpdufilter enabled ?
<i>int_bpdufilter</i>	(Optional) Is internal bpdufilter enabled ?
<i>forward_delay_timer</i>	(Optional) Forward Delay timer
<i>hold_timer</i>	(Optional) Hold Timer
<i>message_age</i>	(Optional) Message age timer
<i>peer</i>	(Optional) STP protocol of the peer
<i>dispute</i>	(Optional) Is port Disputed ?
<i>pvstsim_inc_timer</i>	(Optional) PVST Simulation Inconsistency Hold Timer
<i>boundary</i>	(Optional) Is port boundary ?
<i>prestd</i>	(Optional) Is port Pre STD MST ?

<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>oper_networkport</i>	(Optional) Is network port enabled ?
<i>simulate_pvst_cfg</i>	(Optional) PVST Simulation configured on port

Command Mode

- /exec

show spanning-tree interface

```
show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> { <verbosity> | active } +
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
interface	Spanning Tree interface status and configuration
<i>interface-id</i>	
<i>verbosity</i>	verbosity
active	Report on active instances only

Command Mode

- /exec

show spanning-tree interface

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> { cost | inconsistency
| edge | priority | rootcost | state } }
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
interface	Spanning Tree interface status and configuration
<i>interface-id</i>	
cost	Port path cost
inconsistency	Port inconsistency state
edge	Edge Port configuration
priority	Port priority
rootcost	Path cost to root
state	Port spanning tree state

Command Mode

- /exec

show spanning-tree issu-impact

show spanning-tree issu-impact

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
issu-impact	Show whether STP meets ISSU criteria

Command Mode

- /exec

show spanning-tree mst

```
show spanning-tree mst [ <mst-id> ] [ __readonly__ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol>
<port_count> <bridge_mac> <bridge_priority> <tree_designated_root> <tree_designated_root_priority>
<stp_active> <root_path_cost> <root_port_if_index> <root_port_priority> <root_port_number>
<topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> <ist-master-id-mac> <ist-master-prio> <ist-path-cost> <remaining-hops> <max-hops>
<txholdcount> <tree-vlan-map> TABLE_port <if_index> <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> <boundary>
<simulate_pvst> <prestd> [ <designated_ist_master> ] [ <designated_ist_master_priority> ] [
<designated_ist_cost> ] [ <vlan-map> ] ]
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
<i>mst-id</i>	(Optional) MST instance range, example: 0-3,5,7-9
<i>__readonly__</i>	(Optional) Read Only
TABLE_tree	(Optional)
<i>tree_id</i>	(Optional) Tree Id
<i>tree_tree_type</i>	(Optional) Tree Type
<i>tree_protocol</i>	(Optional) Tree Protocol
<i>port_count</i>	(Optional) Number of Ports in Tree
<i>bridge_mac</i>	(Optional) Bridge Mac
<i>bridge_priority</i>	(Optional) Bridge Priority
<i>tree_designated_root</i>	(Optional) Designated Root Mac
<i>tree_designated_root_priority</i>	(Optional) Designated Root Priority
<i>stp_active</i>	(Optional) Spanning Tree State
<i>root_path_cost</i>	(Optional) Root Path Cost

<i>root_port_if_index</i>	(Optional) Root Port
<i>root_port_priority</i>	(Optional) Root Port Priority
<i>root_port_number</i>	(Optional) Root Port Number
<i>topology_change</i>	(Optional) Topology Change flag is set ?
<i>topology_change_detected</i>	(Optional) Topology Change detected flag is set ?
<i>topology_change_count</i>	(Optional) Topology Change Count
<i>topology_change_time_since_last</i>	(Optional) Time since last TC
<i>tc_initiator_if_index</i>	(Optional) Topology Change initiator port
<i>max_age</i>	(Optional) Max Age
<i>hello_time</i>	(Optional) Hello Time
<i>forward_delay</i>	(Optional) Forward delay
<i>bridge_max_age</i>	(Optional) Configured Bridge Max Age
<i>bridge_hello_time</i>	(Optional) Configured Hello Time
<i>bridge_forward_delay</i>	(Optional) Configured Forward Delay
<i>hold_time</i>	(Optional) Configured Hold Time
<i>hello_timer</i>	(Optional) Hello Timer Value
<i>topology_change_timer</i>	(Optional) Topology Change Timer Value
<i>tcn_timer</i>	(Optional) TCN Timer Value
<i>aging_timer</i>	(Optional) Ageing Timer Value
<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
<i>ist-master-id-mac</i>	(Optional) IST Master ID MAC address
<i>ist-master-prio</i>	(Optional) IST Master ID priority
<i>ist-path-cost</i>	(Optional) IST path cost
<i>remaining-hops</i>	(Optional) Remaining hops

<i>max-hops</i>	(Optional) Max Hops
<i>txholdcount</i>	(Optional) TX Hold count
<i>tree-vlan-map</i>	(Optional) Bitmap of vlans mapped to tree
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>state</i>	(Optional) STP Port State
<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>port_tree_type</i>	(Optional) Tree Type
<i>port_protocol</i>	(Optional) Tree Protocol
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority
<i>designated_cost</i>	(Optional) Designated cost
<i>designated_bridge</i>	(Optional) Designated bridge mac
<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id
<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>bpdu_in</i>	(Optional) BPDUs received on this stp port
<i>bpdu_out</i>	(Optional) BPDUs send on this stp port
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>link_type</i>	(Optional) Link type configured on this port
<i>port_guard</i>	(Optional) Port Guard mode of port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured

<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_portfast</i>	(Optional) Is portfast enabled ?
<i>oper_p2p</i>	(Optional) Is port P2P ?
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>oper_bpduguard</i>	(Optional) Is bpduguard enabled ?
<i>oper_bpdufilter</i>	(Optional) Is bpdufilter enabled ?
<i>int_bpdufilter</i>	(Optional) Is internal bpdufilter enabled ?
<i>forward_delay_timer</i>	(Optional) Forward Delay timer
<i>hold_timer</i>	(Optional) Hold Timer
<i>message_age</i>	(Optional) Message age timer
<i>peer</i>	(Optional) STP protocol of the peer
<i>boundary</i>	(Optional) Is port boundary ?
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>dispute</i>	(Optional) Is port Disputed ?
<i>pvstsim_inc_timer</i>	(Optional) PVST Simulation Inconsistency Hold Timer
<i>prestd</i>	(Optional) Is port Pre STD MST ?
<i>designated_ist_master</i>	(Optional) Ist master mac
<i>designated_ist_master_priority</i>	(Optional) Ist master priority
<i>designated_ist_cost</i>	(Optional) Ist master path cost
<i>vlan-map</i>	(Optional) Bitmap of vlans mapped to port
<i>oper_networkport</i>	(Optional) Is network port enabled ?

Command Mode

- /exec

show spanning-tree mst configuration

```
{ show spanning-tree mst configuration [ __readonly__ <stp-mode> <name> <rev-id> { Instance_to_vlan_map
<mst_id> <vlan_bit_map> } [ <pvlan-sync> ] ] }
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
configuration	MST current region configuration
__readonly__	(Optional) Read Only
<i>stp-mode</i>	(Optional) Spanning Tree operating mode
<i>name</i>	(Optional) Configuration name
<i>rev-id</i>	(Optional) Configuration revision number
Instance_to_vlan_map	(Optional) Instance to vlan mapping Info
<i>mst_id</i>	(Optional) MST Instance ID
<i>vlan_bit_map</i>	(Optional) VLAN Bitmap
<i>pvlan-sync</i>	(Optional) pvlan synchronization

Command Mode

- /exec

show spanning-tree mst configuration digest

```
{ show spanning-tree mst configuration digest [ __readonly__ <stp-mode> <name> <rev-id> <digest>
<prestd-digest> [ <pvlan-sync> ] ] }
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
configuration	MST current region configuration
digest	Display MST configuration digest
<i>__readonly__</i>	(Optional) Read Only
<i>stp-mode</i>	(Optional) Spanning Tree operating mode
<i>name</i>	(Optional) Configuration name
<i>rev-id</i>	(Optional) Configuration revision number
<i>digest</i>	(Optional) MST region configuration digest
<i>prestd-digest</i>	(Optional) MST region configuration pre-std digest
<i>pvlan-sync</i>	(Optional) pvlan synchronization

Command Mode

- /exec

show spanning-tree mst detail

show spanning-tree mst [<mst-id>] detail

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
<i>mst-id</i>	(Optional) MST instance range, example: 0-3,5,7-9
detail	Detailed information

Command Mode

- /exec

show spanning-tree mst interface

```
show spanning-tree mst [ <mst-id> ] interface <interface-id> [ __readonly__ TABLE_port <if_index>
<port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol> <port_tree_type>
<path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost> <designated_bridge>
<designated_bridge_priority> <designated_port> <tc_acknowledge> <forward_transition_count> <self_looped>
<inconsistency> <bpdus_in> <bpdus_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter>
<oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter>
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <prestd> <boundary> <simulate_pvst>
[ <designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] [
<oper_networkport> ] [ <pvstsim_inc_timer> ] ]
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
<i>mst-id</i>	(Optional) MST instance range, example: 0-3,5,7-9
interface	Spanning Tree interface status and configuration
<i>interface-id</i>	Specify an interface as a target for the command
<i>__readonly__</i>	(Optional) Read Only
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>state</i>	(Optional) STP Port State
<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number
<i>port_tree_type</i>	(Optional) Tree Type
<i>port_protocol</i>	(Optional) Tree Protocol
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority
<i>designated_cost</i>	(Optional) Designated cost
<i>designated_bridge</i>	(Optional) Designated bridge mac

<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id
<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>bpdu_in</i>	(Optional) BPDUs received on this stp port
<i>bpdu_out</i>	(Optional) BPDUs send on this stp port
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>link_type</i>	(Optional) Link type configured on this port
<i>port_guard</i>	(Optional) Port Guard mode of port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_portfast</i>	(Optional) Is portfast enabled ?
<i>oper_p2p</i>	(Optional) Is port P2P ?
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>oper_bpduguard</i>	(Optional) Is bpduguard enabled ?
<i>oper_bpdufilter</i>	(Optional) Is bpdufilter enabled ?
<i>int_bpdufilter</i>	(Optional) Is internal bpdufilter enabled ?
<i>forward_delay_timer</i>	(Optional) Forward Delay timer
<i>hold_timer</i>	(Optional) Hold Timer
<i>message_age</i>	(Optional) Message age timer
<i>peer</i>	(Optional) STP protocol of the peer
<i>boundary</i>	(Optional) Is port boundary ?
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>dispute</i>	(Optional) Is port Disputed ?
<i>prestd</i>	(Optional) Is port Pre STD MST ?
<i>designated_ist_master</i>	(Optional) Ist master mac
<i>designated_ist_master_priority</i>	(Optional) Ist master priority

<i>designated_ist_cost</i>	(Optional) Ist master path cost
<i>vlan-map</i>	(Optional) Bitmap of vlans mapped to port
<i>oper_networkport</i>	(Optional) Is network port enabled ?
<i>pvstsim_inc_timer</i>	(Optional) PVST Simulation Inconsistency Hold Timer

Command Mode

- /exec

show spanning-tree mst interface detail

show spanning-tree mst [<mst-id>] interface <interface-id> detail

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
<i>mst-id</i>	(Optional) MST instance range, example: 0-3,5,7-9
detail	Detailed information
interface	Spanning Tree interface status and configuration
<i>interface-id</i>	Specify an interface as a target for the command

Command Mode

- /exec

show spanning-tree pathcost method

```
{ show spanning-tree pathcost method }
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
pathcost	Show Spanning pathcost options
method	Default pathcost calculation method

Command Mode

- /exec

show spanning-tree root

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ priority [ system-id ] ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ { address | cost | forward-time | hello-time | id | max-age | port } ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ { detail | brief } ] }
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
root	Status and configuration of the root bridge
address	(Optional) Mac address of this bridge
cost	(Optional) Path cost from this bridge to the root
forward-time	(Optional) Forward delay interval
hello-time	(Optional) Hello time
id	(Optional) Spanning tree bridge identifier
max-age	(Optional) Max age
port	(Optional) Root port
brief	(Optional) Brief summary of interface information
detail	(Optional) Detailed information
priority	(Optional) Bridge priority of this bridge
system-id	(Optional) Spanning tree priority with system id extension

Command Mode

- /exec

show spanning-tree summary

```
show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] summary [ __readonly__ <stp-mode>
<stp_tree_root_info> <tree_type> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> <stp_root_bmp_info> <stp_root_tree_type> <tree_root_bmp>
<stp_l2gstp_bmp_info> <stp_l2gstp_tree_type> <stp_l2gstp_bmp> <stp_global_info> <pcost_method>
<oper_pcost_method> <port_fast> <bpdu_guard> <bpdu_filter> <oper_loopguard> <bridge_assurance>
<networkport_default> <simulate_pvst> <max-hops> <peer_switch_cfg> <oper_peer_switch>
<stp_l2gstp_domain_id> <stp_lite> { TABLE tree <stp_tree_summary> <summary_tree_type> <disabled>
<blocking> <listening> <learning> <forwarding> <invalid> <port_count> } <stp_summary_totals>
<total_tree_type> <disabled> <blocking> <listening> <learning> <forwarding> <invalid> <port_count> ]
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
summary	Summary of port states
<i>__readonly__</i>	(Optional) Read Only
<i>stp-mode</i>	(Optional) Spanning Tree operating mode
<i>stp_tree_root_info</i>	(Optional) STP Tree Root info marker
<i>tree_type</i>	(Optional) Tree Type
<i>bridge_mac</i>	(Optional) Bridge Mac
<i>bridge_priority</i>	(Optional) Bridge Priority
<i>tree_designated_root</i>	(Optional) Designated Root Mac
<i>tree_designated_root_priority</i>	(Optional) Designated Root Priority
<i>stp_root_bmp_info</i>	(Optional) STP root bitmap info marker
<i>stp_root_tree_type</i>	(Optional) Tree Type
<i>tree_root_bmp</i>	(Optional) STP tree root bmp
<i>stp_l2gstp_bmp_info</i>	(Optional) L2 Gateway STP bitmap marker
<i>stp_l2gstp_tree_type</i>	(Optional) Tree Type
<i>stp_l2gstp_bmp</i>	(Optional) L2 Gateway STP bitmap

<i>stp_global_info</i>	(Optional) STP global info marker
<i>pcost_method</i>	(Optional) STP pathcost method
<i>oper_pcost_method</i>	(Optional) STP oper pathcost method
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>bridge_assurance</i>	(Optional) Bridge Assurance
<i>networkport_default</i>	(Optional) Network Port default
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>max-hops</i>	(Optional) Max Hops
<i>peer_switch_cfg</i>	(Optional) peer switch configuration status
<i>oper_peer_switch</i>	(Optional) peer switch operational status
<i>stp_l2gstp_domain_id</i>	(Optional) L2 Gateway STP Domain ID
<i>stp_lite</i>	(Optional) STP-Lite
TABLE_tree	(Optional)
<i>stp_tree_summary</i>	(Optional) STP Tree Summary
<i>summary_tree_type</i>	(Optional) Tree Type
<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
<i>port_count</i>	(Optional) Number of Ports in Tree
<i>stp_summary_totals</i>	(Optional) Total num STP trees
<i>total_tree_type</i>	(Optional) Tree Type
<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking

<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
<i>port_count</i>	(Optional) Number of Ports in Tree

Command Mode

- /exec

show spanning-tree summary totals

```
show spanning-tree summary totals [ __readonly__ <stp-mode> <stp_tree_root_info> <tree_type>
<bridge_mac> <bridge_priority> <tree_designated_root> <tree_designated_root_priority> <stp_root_bmp_info>
<stp_root_tree_type> <tree_root_bmp> <stp_l2gstp_bmp_info> <stp_l2gstp_tree_type> <stp_l2gstp_bmp>
<stp_global_info> <pcost_method> <oper_pcost_method> <port_fast> <bpdu_guard> <bpdu_filter>
<oper_loopguard> <bridge_assurance> <networkport_default> <simulate_pvst> <max-hops>
<peer_switch_cfg> <oper_peer_switch> <stp_l2gstp_domain_id> <stp_lite> <stp_summary_totals>
<total_tree_type> <disabled> <blocking> <listening> <learning> <forwarding> <invalid> <port_count> ]
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
summary	Summary of port states
totals	Only show totals
<i>__readonly__</i>	(Optional) Read Only
<i>stp-mode</i>	(Optional) Spanning Tree operating mode
<i>stp_tree_root_info</i>	(Optional) STP Tree Root info marker
<i>tree_type</i>	(Optional) Tree Type
<i>bridge_mac</i>	(Optional) Bridge Mac
<i>bridge_priority</i>	(Optional) Bridge Priority
<i>tree_designated_root</i>	(Optional) Designated Root Mac
<i>tree_designated_root_priority</i>	(Optional) Designated Root Priority
<i>stp_root_bmp_info</i>	(Optional) STP root bitmap info marker
<i>stp_root_tree_type</i>	(Optional) Tree Type
<i>tree_root_bmp</i>	(Optional) STP tree root bmp
<i>stp_l2gstp_bmp_info</i>	(Optional) L2 Gateway STP bitmap marker
<i>stp_l2gstp_tree_type</i>	(Optional) Tree Type
<i>stp_l2gstp_bmp</i>	(Optional) L2 Gateway STP bitmap
<i>stp_global_info</i>	(Optional) STP global info marker
<i>pcost_method</i>	(Optional) STP pathcost method
<i>oper_pcost_method</i>	(Optional) STP oper pathcost method
<i>port_fast</i>	(Optional) Port Fast configured on port

<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>bridge_assurance</i>	(Optional) Bridge Assurance
<i>networkport_default</i>	(Optional) Network Port default
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>max-hops</i>	(Optional) Max Hops
<i>peer_switch_cfg</i>	(Optional) peer switch configuration status
<i>oper_peer_switch</i>	(Optional) peer switch operational status
<i>stp_l2gstp_domain_id</i>	(Optional) L2 Gateway STP Domain ID
<i>stp_lite</i>	(Optional) STP-Lite
<i>stp_summary_totals</i>	(Optional) Total num STP trees
<i>total_tree_type</i>	(Optional) Tree Type
<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
<i>port_count</i>	(Optional) Number of Ports in Tree

Command Mode

- /exec

show sprom

```
show sprom { backplane <i0> | module <module> <i1> | xbar <santa-cruz-range> <i2> | powersupply <i3>
| fan <i4> | sup | stby-sup | all | all2 | backplane2 | module2 <module2> | powersupply2 <i5> | sup2 } [
__readonly__ { cmn_block { <blk_sig_cb> <blk_ver_cb> <blk_length_cb> <blk_checksum_cb>
<eeprom_size> <blk_count> <fru_major_type> <fru_minor_type> <oem_string> <prd_num> <serial_num>
<part_num> <part_rev> <mfg_dev> <hw_rev> <mfg_bits> <eng_use> <snmp_oid> <power_consump>
<rma_code> <clei_code> <vid> } } { sup_specific_block { <blk_sig_ssb> <blk_ver_ssb> <blk_length_ssb>
<blk_checksum_ssb> <feature_bits> <hw_changes_bits> <card_index> <mac_addresses> <no_of_macs>
<no_of_epld> { TABLE_epld <epld_name> <epld_ver> } <port_type_num> <max_connector_power>
<cooling_req> <amb_temp> { TABLE_sensor_ssb <sensor_num_ssb> <maj_thres_ssb> <min_thres_ssb>
} } } { lc_specific_block { <blk_sig_lc> <blk_ver_lc> <blk_length_lc> <blk_checksum_lc> <feature_bits>
<hw_changes_bits> <card_index> <mac_addresses> <no_of_macs> <no_of_epld> { TABLE_epld
<epld_name> <epld_ver> } <port_type_num> <max_connector_power> <cooling_req> <amb_temp> {
TABLE_sensor_lc <sensor_num_lc> <maj_thres_lc> <min_thres_lc> } } } { ps_specific_block {
<blk_sig_psb> <blk_ver_psb> <blk_length_psb> <blk_checksum_psb> <feature_bits> <current_110v>
<current_220v> <stackmib_oid> } } { fan_specific_block { <blk_sig_fsb> <blk_ver_fsb> <blk_length_fsb>
<blk_checksum_fsb> <feature_bits> <hw_change_bits> <stackmib_oid> <cooling_capacity> <amb_temp>
} } { ch_specific_block { <blk_sig_csb> <blk_ver_csb> <blk_length_csb> <blk_checksum_csb> <feature_bits>
<hw_changes_bits> <stackmib_oid> <mac_addresses> <no_of_macs> <oem_enterprise> <oem_mib_offset>
<max_connector_power> } } { temp_sensor_block { <blk_sig_tsb> <blk_ver_tsb> <blk_length_tsb>
<blk_checksum_tsb> <no_of_sensors> { TABLE_sensor_tsb <sensor_num_tsb> <maj_thres_tsb>
<min_thres_tsb> } } } { wwn_specific_block { <blk_sig_wwnb> <blk_ver_wwnb> <blk_length_wwnb>
<blk_checksum_wwnb> <wwn_usage_bits> } } { lic_specific_block { <blk_sig_licb> <blk_ver_licb>
<blk_length_licb> <blk_checksum_licb> <lic_usage_bits> } } { second_serial_block { <blk_sig_sn2b>
<blk_ver_sn2b> <blk_length_sn2b> <blk_checksum_sn2b> <serial_num_sn2b> } } { psu_common_block
{ <format_version> <internal_info_offset> <chassis_info_offset> <board_info_offset> <product_info_offset>
<multirecord_info_offset> <checksum> } } { psu_board_info_block { <format_version> <length>
<language_code> <mfg_date> <mfg_type> <mfg_info> <name_type> <product_name> <snum_type> <snum>
<part_type> <partnum> <fruid_type> <fruid> <bom_hw_pid_info> <partnum_rev> <fab_revision> <vid>
<clei_len> <clei> <eof_marker> <csum> } } { psu_product_info_block { <format_version> <length>
<language_code> <mfg_type> <mfg_info> <name_type> <product_name> <part_type> <partnum>
<product_ver_type> <sw_certification> <snum_type> <snum> <asset_type> <asset_string> <fruid_type>
<fruid> <custom_pinfo> <partnumrev> <vid> <eof_marker> <csum> } } { psu_record_info_block {
<record_type> <record_info> <record_len> <record_csum> <header_csum> <record_identifier> <format_ver>
<standby_pwr_budget> <psu_class> <psu_watts> } } ]
```

Syntax Description

show	Show running system information
sprom	show SPROM contents
backplane	show backplane clock module sprom contents
<i>i0</i>	please enter instance of backplane sprom
module	show linecard module sprom contents
<i>module</i>	please enter module number
<i>i1</i>	please enter instance of module sprom

xbar	show xbar fabric sprom contents
<i>santa-cruz-range</i>	please enter the xbar number
<i>i2</i>	please enter sprom instance number
powersupply	show powersupply sprom contents
<i>i3</i>	please enter powersupply number
fan	show fan module sprom contents
<i>i4</i>	please enter fan number
sup	show supervisor sprom contents
stby-sup	show standby supervisor sprom contents
all	show all sproms contents
all2	All sprom contents
backplane2	Backplane sprom contents
module2	Linecard sprom contents
<i>module2</i>	Linecard module number
powersupply2	Powersupply sprom contents
<i>i5</i>	Powersupply module number
sup2	Supervisor sprom contents
<i>__readonly__</i>	(Optional)
<i>cmn_block</i>	(Optional)
<i>blk_sig_cb</i>	(Optional)
<i>blk_ver_cb</i>	(Optional)
<i>blk_length_cb</i>	(Optional)
<i>blk_checksum_cb</i>	(Optional)
<i>eprom_size</i>	(Optional)
<i>blk_count</i>	(Optional)
<i>fru_major_type</i>	(Optional)
<i>fru_minor_type</i>	(Optional)
<i>oem_string</i>	(Optional)
<i>prd_num</i>	(Optional)

<i>serial_num</i>	(Optional)
<i>part_num</i>	(Optional)
<i>part_rev</i>	(Optional)
<i>mfg_dev</i>	(Optional)
<i>hw_rev</i>	(Optional)
<i>mfg_bits</i>	(Optional)
<i>eng_use</i>	(Optional)
<i>snmp_oid</i>	(Optional)
<i>power_consump</i>	(Optional)
<i>rma_code</i>	(Optional)
<i>clei_code</i>	(Optional)
<i>vid</i>	(Optional)
<i>ch_specific_block</i>	(Optional)
<i>blk_sig_csb</i>	(Optional)
<i>blk_ver_csb</i>	(Optional)
<i>blk_length_csb</i>	(Optional)
<i>blk_checksum_csb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_changes_bits</i>	(Optional)
<i>stackmib_oid</i>	(Optional)
<i>mac_addresses</i>	(Optional)
<i>no_of_macs</i>	(Optional)
<i>oem_enterprise</i>	(Optional)
<i>oem_mib_offset</i>	(Optional)
<i>max_connector_power</i>	(Optional)
<i>sup_specific_block</i>	(Optional)
<i>blk_sig_ssb</i>	(Optional)
<i>blk_ver_ssb</i>	(Optional)
<i>blk_length_ssb</i>	(Optional)

<i>blk_checksum_ssb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_changes_bits</i>	(Optional)
<i>card_index</i>	(Optional)
<i>mac_addresses</i>	(Optional)
<i>no_of_macs</i>	(Optional)
<i>no_of_epld</i>	(Optional)
TABLE_epld	(Optional)
<i>epld_name</i>	(Optional)
<i>epld_ver</i>	(Optional)
<i>port_type_num</i>	(Optional)
<i>max_connector_power</i>	(Optional)
<i>cooling_reqt</i>	(Optional)
<i>amb_temp</i>	(Optional)
TABLE_sensor_ssb	(Optional)
<i>sensor_num_ssb</i>	(Optional)
<i>maj_thres_ssb</i>	(Optional)
<i>min_thres_ssb</i>	(Optional)
lc_specific_block	(Optional)
<i>blk_sig_lc</i>	(Optional)
<i>blk_ver_lc</i>	(Optional)
<i>blk_length_lc</i>	(Optional)
<i>blk_checksum_lc</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_changes_bits</i>	(Optional)
<i>card_index</i>	(Optional)
<i>mac_addresses</i>	(Optional)
<i>no_of_macs</i>	(Optional)
<i>no_of_epld</i>	(Optional)

TABLE_epld	(Optional)
<i>epld_name</i>	(Optional)
<i>epld_ver</i>	(Optional)
<i>port_type_num</i>	(Optional)
<i>max_connector_power</i>	(Optional)
<i>cooling_reqt</i>	(Optional)
<i>amb_temp</i>	(Optional)
TABLE_sensor_lc	(Optional)
<i>sensor_num_lc</i>	(Optional)
<i>maj_thres_lc</i>	(Optional)
<i>min_thres_lc</i>	(Optional)
ps_specific_block	(Optional)
<i>blk_sig_psb</i>	(Optional)
<i>blk_ver_psb</i>	(Optional)
<i>blk_length_psb</i>	(Optional)
<i>blk_checksum_psb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>current_110v</i>	(Optional)
<i>current_220v</i>	(Optional)
<i>stackmib_oid</i>	(Optional)
fan_specific_block	(Optional)
<i>blk_sig_fsb</i>	(Optional)
<i>blk_ver_fsb</i>	(Optional)
<i>blk_length_fsb</i>	(Optional)
<i>blk_checksum_fsb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_change_bits</i>	(Optional)
<i>stackmib_oid</i>	(Optional)
<i>cooling_capacity</i>	(Optional)

<i>amb_temp</i>	(Optional)
temp_sensor_block	(Optional)
<i>blk_sig_tsb</i>	(Optional)
<i>blk_ver_tsb</i>	(Optional)
<i>blk_length_tsb</i>	(Optional)
<i>blk_checksum_tsb</i>	(Optional)
<i>no_of_sensors</i>	(Optional)
TABLE_sensor_tsb	(Optional)
<i>sensor_num_tsb</i>	(Optional)
<i>maj_thres_tsb</i>	(Optional)
<i>min_thres_tsb</i>	(Optional)
wwn_specific_block	(Optional)
<i>blk_sig_wwnb</i>	(Optional)
<i>blk_ver_wwnb</i>	(Optional)
<i>blk_length_wwnb</i>	(Optional)
<i>blk_checksum_wwnb</i>	(Optional)
<i>wwn_usage_bits</i>	(Optional)
lic_specific_block	(Optional)
<i>blk_sig_licb</i>	(Optional)
<i>blk_ver_licb</i>	(Optional)
<i>blk_length_licb</i>	(Optional)
<i>blk_checksum_licb</i>	(Optional)
<i>lic_usage_bits</i>	(Optional)
second_serial_block	(Optional)
<i>blk_sig_sn2b</i>	(Optional)
<i>blk_ver_sn2b</i>	(Optional)
<i>blk_length_sn2b</i>	(Optional)
<i>blk_checksum_sn2b</i>	(Optional)
<i>serial_num_sn2b</i>	(Optional)

<i>psu_common_block</i>	(Optional)
<i>format_version</i>	(Optional)
<i>internal_info_offset</i>	(Optional)
<i>chassis_info_offset</i>	(Optional)
<i>board_info_offset</i>	(Optional)
<i>product_info_offset</i>	(Optional)
<i>multirecord_info_offset</i>	(Optional)
<i>checksum</i>	(Optional)
<i>psu_board_info_block</i>	(Optional)
<i>format_version</i>	(Optional)
<i>length</i>	(Optional)
<i>language_code</i>	(Optional)
<i>mfg_date</i>	(Optional)
<i>mfg_type</i>	(Optional)
<i>mfg_info</i>	(Optional)
<i>name_type</i>	(Optional)
<i>product_name</i>	(Optional)
<i>snum_type</i>	(Optional)
<i>snum</i>	(Optional)
<i>part_type</i>	(Optional)
<i>partnum</i>	(Optional)
<i>fruid_type</i>	(Optional)
<i>fruid</i>	(Optional)
<i>bom_hw_pid_info</i>	(Optional)
<i>partnum_rev</i>	(Optional)
<i>fab_revision</i>	(Optional)
<i>vid</i>	(Optional)
<i>clei_len</i>	(Optional)
<i>clei</i>	(Optional)

<i>eof_marker</i>	(Optional)
<i>csum</i>	(Optional)
<i>psu_product_info_block</i>	(Optional)
<i>format_version</i>	(Optional)
<i>length</i>	(Optional)
<i>language_code</i>	(Optional)
<i>mfg_type</i>	(Optional)
<i>mfg_info</i>	(Optional)
<i>name_type</i>	(Optional)
<i>product_name</i>	(Optional)
<i>part_type</i>	(Optional)
<i>partnum</i>	(Optional)
<i>product_ver_type</i>	(Optional)
<i>sw_certification</i>	(Optional)
<i>snum_type</i>	(Optional)
<i>snum</i>	(Optional)
<i>asset_type</i>	(Optional)
<i>asset_string</i>	(Optional)
<i>fruid_type</i>	(Optional)
<i>fruid</i>	(Optional)
<i>custom_pinfo</i>	(Optional)
<i>partnumrev</i>	(Optional)
<i>vid</i>	(Optional)
<i>eof_marker</i>	(Optional)
<i>csum</i>	(Optional)
<i>psu_record_info_block</i>	(Optional)
<i>record_type</i>	(Optional)
<i>record_info</i>	(Optional)
<i>record_len</i>	(Optional)

<i>record_csum</i>	(Optional)
<i>header_csum</i>	(Optional)
<i>record_identifier</i>	(Optional)
<i>format_ver</i>	(Optional)
<i>standby_pwr_budget</i>	(Optional)
<i>psu_class</i>	(Optional)
<i>psu_watts</i>	(Optional)

Command Mode

- /exec

show sprom fex

show sprom fex <i> { all | backplane | powersupply <i1> }

Syntax Description

show	Show running system information
sproM	SPROM Contents
fex	Fex
<i>i</i>	Enter FEX identifier
all	Show all SPROM content on this specific FEX only
backplane	Show backplane SPROM content on this fex
powersupply	Show powersupply SPROM content on this fex only
<i>i1</i>	powersupply module number

Command Mode

- /exec

show sprom fex all

show sprom fex all

Syntax Description

show	Show running system information
sprom	SPROM Contents
fex	Fex
all	Show all SPROM content all FEX

Command Mode

- /exec

show ssh key

```
show ssh key [ { dsa [ md5 ] | rsa [ md5 ] | [ md5 ] } ] [ __readonly__ { TABLE_sessions <key_type>
<key_time> <key_data> <key_bitcount> <key_fingerprint> } ]
```

Syntax Description

show	Show running system information
ssh	Show SSH information
key	Show ssh keys
dsa	(Optional) Show dsa ssh keys
rsa	(Optional) Show rsa ssh keys
md5	(Optional) Show Fingerprint in MD5 Format
__readonly__	(Optional)
TABLE_sessions	(Optional) ssh key
<i>key_type</i>	(Optional) keys type
<i>key_time</i>	(Optional) timestamp
<i>key_data</i>	(Optional) ssh key data
<i>key_bitcount</i>	(Optional) bitcount
<i>key_fingerprint</i>	(Optional) fingerprint

Command Mode

- /exec

show ssh server

```
show ssh server [ __readonly__ { operation_status <o_status> } ]
```

Syntax Description

show	Show running system information
ssh	Show SSH information
server	Show whether ssh server is enabled or not
<i>__readonly__</i>	(Optional)
<i>operation_status</i>	(Optional) run-time information about ssh
<i>o_status</i>	(Optional) operational status of ssh server

Command Mode

- /exec

show startup-config

show startup-config

Syntax Description

show	Show running system information
startup-config	Current startup configuration

Command Mode

- /exec

show startup-config aaa

show startup-config aaa

Syntax Description

show	show startup-cfg
startup-config	show startup system information
aaa	Display aaa configuration

Command Mode

- /exec

show startup-config acllog

show startup-config acllog [all]

Syntax Description

show	Show running system information
startup-config	Displaying the startup configuration
acllog	show startup config for acllog
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config aclmgr

```
show startup-config aclmgr [ all ]
```

Syntax Description

show	Show running system information
startup-config	Display the startup configuration
aclmgr	show startup config for aclmgr
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config adjmgr

show startup-config adjmgr [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
adjmgr	Display adjmgr information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config amt

show startup-config amt [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
amt	Display amt information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config arp

show startup-config arp [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
arp	Display arp information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config bfd

show startup-config bfd [all]

Syntax Description

show	Show system information
startup-config	Display the startup configuration
bfd	show startup config for bfd
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config bgp

show startup-config bgp [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
bgp	Display bgp information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config bloggerd

show startup-config bloggerd [all]

Syntax Description

show	show startup-cfg
startup-config	show system startup configuration information
bloggerd	Display bloggerd configuration
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config callhome

show startup-config callhome

Syntax Description

show	show startup-cfg
startup-config	show startup system information
callhome	Display callhome configuration

Command Mode

- /exec

show startup-config cdp

show startup-config cdp [all]

Syntax Description

show	show startup-cfg
startup-config	show system startup configuration information
cdp	Display cdp configuration
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config cert-enroll

show startup-config cert-enroll

Syntax Description

show	show startup-cfg
startup-config	show startup system information
cert-enroll	Display certificates configuration

Command Mode

- /exec

show startup-config cfs

show startup-config cfs [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
cfs	Display cfs configurations
all	(Optional) show running config with defaults

Command Mode

- /exec

show startup-config config-profile

show startup-config config-profile [<all_conf_profile_name>]

Syntax Description

show	Show startup-config
startup-config	Current startup configuration
config-profile	Display port-profile configuration
<i>all_conf_profile_name</i>	(Optional) Enter the name of the profile

Command Mode

- /exec

show startup-config copp

show startup-config copp [all]

Syntax Description

show	Show running system information
startup-config	System startup-config commands
copp	Control-Plane Policing
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config dhcp

show startup-config dhcp [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
dhcp	Display dhcp snoop configurations
all	(Optional) show running config with defaults

Command Mode

- /exec

show startup-config diagnostic

show startup-config diagnostic [all]

Syntax Description

show	Show running system information
startup-config	Contents of startup configuration
diagnostic	Diagnostic configuration
all	(Optional) Display running config with defaults

Command Mode

- /exec

show startup-config dot1x

show startup-config dot1x

Syntax Description

show	show startup-cfg
startup-config	show startup system information
dot1x	Display dot1x configuration

Command Mode

- /exec

show startup-config eem

show startup-config eem

Syntax Description

show	Show running system information
startup-config	Show the system startup configuration
eem	Show the event manager startup configuration

Command Mode

- /exec

show startup-config eigrp

show startup-config eigrp [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
eigrp	Display eigrp information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config eltm

show startup-config eltm

Syntax Description

show	Show running system information
startup-config	Current startup configuration
eltm	Display eltm configurations

Command Mode

- /exec

show startup-config evb

show startup-config evb [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
evb	EVB (Edge Virtual Bridge)
all	(Optional) Display startup config with defaults

Command Mode

- /exec

show startup-config exclude

show startup-config exclude <feature-list> +

Syntax Description

show	Show running system information
startup-config	Current startup configuration
exclude	Exclude startup configuration of specified features
<i>feature-list</i>	Exclude features

Command Mode

- /exec

show startup-config expand-port-profile

show startup-config expand-port-profile

Syntax Description

show	Show running system information
startup-config	System startup-config commands
expand-port-profile	Expand port profile

Command Mode

- /exec

show startup-config fabric forwarding

show startup-config fabric forwarding [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config fabricpath

show startup-config fabricpath

Syntax Description

show	Show running system information
startup-config	System startup-config commands
fabricpath	fabricpath information

Command Mode

- /exec

show startup-config fabricpath domain default

show startup-config fabricpath domain default [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
fabricpath	fabricpath information
domain	Enter fabricpath IS-IS domain configuration mode
default	default fabricpath domain
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config fabricpath switch-id

show startup-config fabricpath switch-id

Syntax Description

startup-config	Current startup configuration
fabricpath	fabricpath information
switch-id	fabricpath switch-id configuration

Command Mode

- /exec

show startup-config fabricpath topology

show startup-config fabricpath topology [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
fabricpath	fabricpath Module Information
topology	Fabricpath topology Information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config fex

show startup-config fex [all]

Syntax Description

startup-config	Display the startup configuration
fex	show startup config of fex
all	(Optional) Show startup config with defaults

Command Mode

- /exec

show startup-config glbp

show startup-config glbp

Syntax Description

show	Show system information
startup-config	System startup configuration
glbp	GLBP startup configuration

Command Mode

- /exec

show startup-config hsrp

show startup-config hsrp

Syntax Description

show	Show system information
startup-config	System startup configuration
hsrp	HSRP startup configuration

Command Mode

- /exec

show startup-config icmpv6

show startup-config icmpv6 [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
icmpv6	Display icmpv6 information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config igmp

show startup-config igmp [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
igmp	Display igmp information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config interface

show startup-config interface [<if0>] [expand-port-profile]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
interface	Interface configuration
<i>if0</i>	(Optional) interface type and number in module/slot format
expand-port-profile	(Optional) Expand port profile

Command Mode

- /exec

show startup-config interface

show startup-config interface <if0> [membership] [expand-port-profile]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
interface	Interface configuration
<i>if0</i>	interface type and number in module/slot format
membership	(Optional) Show membership information
expand-port-profile	(Optional) Expand port profile

Command Mode

- /exec

show startup-config ip

show startup-config ip [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
ip	Display ip information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config ipqos

show startup-config ipqos [all]

Syntax Description

show	Show running system information
startup-config	Display the startup configuration
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config ipv6

show startup-config ipv6 [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
ipv6	Display ipv6 information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config isis

show startup-config isis [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
isis	Display isis information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config l3vm

show startup-config l3vm [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
l3vm	Display l3vm information
all	(Optional) Display running config with defaults

Command Mode

- /exec

show startup-config ldap

show startup-config ldap

Syntax Description

show	show startup-cfg
startup-config	show startup system information
ldap	Display ldap configuration

Command Mode

- /exec

show startup-config license

show startup-config license [all]

Syntax Description

show	show startup-cfg
startup-config	show startup system information
license	Display licensing configuration
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config lisp

show startup-config lisp [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
lisp	Display lisp information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config lldp

```
show startup-config lldp [ all ]
```

Syntax Description

show	show startup-cfg
startup-config	show system startup configuration information
lldp	Display lldp configuration
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config log

```
show startup-config { log | mdp-log } [ bootstrap ]
```

Syntax Description

show	Show running system information
startup-config	Current startup configuration
mdp-log	Displays execution log of last used mdp ascii startup configuration
log	Displays execution log of last used ascii startup configuration
bootstrap	(Optional) Bootstrap config replay execution log

Command Mode

- /exec

show startup-config macsec

show startup-config macsec

Syntax Description

show	Show running system information
startup-config	show startup system information
macsec	Show CTS information

Command Mode

- /exec

show startup-config mmode

show startup-config mmode [all]

Syntax Description

show	Show running system information
startup-config	Show startup configuration
mmode	Display maintenance mode startup configuration
all	(Optional) Show startup config with defaults

Command Mode

- /exec

show startup-config monitor

show startup-config monitor

Syntax Description

show	Show running system information
startup-config	Current startup configuration
monitor	Configure Ethernet SPAN sessions

Command Mode

- /exec

show startup-config mpls ldp

show startup-config mpls ldp [all]

Syntax Description

show	Show running system information
startup-config	Current operating configuration
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
all	(Optional) Display running-config with defaults

Command Mode

- /exec

show startup-config mpls static

show startup-config mpls static [all]

Syntax Description

show	Show running system information
startup-config	Current operating configuration
mpls	Display MPLS status and configuration
static	Static Label Bindings
all	(Optional) Display running-config with defaults

Command Mode

- /exec

show startup-config mpls strip

show startup-config mpls strip [all]

Syntax Description

show	Show running system information
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
startup-config	System startup configuration
all	(Optional) Show startup configuration for STRIPCL with defaults

Command Mode

- /exec

show startup-config mpls traffic-eng

show startup-config mpls traffic-eng [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
mpls	show startup config for mpls features
traffic-eng	show startup-config for Traffic Engineering
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config msdp

show startup-config msdp [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
msdp	Display msdp information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config nbm

show startup-config nbm

Syntax Description

show	Show running system information
startup-config	Current startup configuration
nbm	show running config for Non Blocking Multicast

Command Mode

- /exec

show startup-config ngoam

show startup-config ngoam

Syntax Description

show	Show running system information
startup-config	Show startup system information
ngoam	ngoam configuration

Command Mode

- /exec

show startup-config ntp

show startup-config ntp [all]

Syntax Description

show	Show information
startup-config	Show startup system configuration
ntp	Show NTP information
all	(Optional) Show all NTP startup configuration

Command Mode

- /exec

show startup-config nv overlay

show startup-config nv overlay [all]

Syntax Description

show	Show system information
startup-config	System startup configuration
nv	NVE startup configuration
overlay	NVE startup configuration
all	(Optional) Show NVE config with defaults

Command Mode

- /exec

show startup-config nxsdk

show startup-config nxsdk [all]

Syntax Description

show	Show running system information
startup-config	Display the startup configuration
nxsdk	NXOS SDK
all	(Optional) Display running config with defaults

Command Mode

- /exec

show startup-config ospf

show startup-config ospf [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
ospf	Display ospf information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config ospfv3

show startup-config ospfv3 [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
ospfv3	Display ospfv3 information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config otv-isis

show startup-config otv-isis [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
otv-isis	Display otv-isis information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config otv

show startup-config otv [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
otv	Display otv information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config param-list

show startup-config param-list [<plistname>]

Syntax Description

show	Show startup-cfg
startup-config	show startup configuration
param-list	Display param-list configuration
<i>plistname</i>	(Optional) Enter the name of the param list

Command Mode

- /exec

show startup-config pim

show startup-config pim [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
pim	Display pim information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config pim6

show startup-config pim6 [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
pim6	Display pim6 information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config port-profile

show startup-config port-profile [<all_profile_name>]

Syntax Description

show	Show startup-config
startup-config	Current startup configuration
port-profile	Display port-profile configuration
<i>all_profile_name</i>	(Optional) Enter the name of the profile

Command Mode

- /exec

show startup-config port-security

show startup-config port-security [all]

Syntax Description

show	show startup-cfg
startup-config	show startup system information
port-security	Display port-security configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show startup-config ptp

show startup-config ptp [all]

Syntax Description

startup-config	Current startup configuration
ptp	show startup config for ptp
all	(Optional) show running config with defaults

Command Mode

- /exec

show startup-config radius

show startup-config radius

Syntax Description

show	show startup-cfg
startup-config	show startup system information
radius	Display radius configuration

Command Mode

- /exec

show startup-config rip

show startup-config rip [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
rip	Display rip information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config routing ip multicast

show startup-config routing { ip | ipv4 } multicast [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
routing	Display routing information
ip	Display IP information
ipv4	Display IP information
multicast	Display multicast information
all	(Optional) Display startup config with defaults clis

Command Mode

- /exec

show startup-config routing ipv6 multicast

show startup-config routing ipv6 multicast [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
routing	Display routing information
ipv6	Display IPv6 information
multicast	Display multicast information
all	(Optional) Display startup config with defaults clis

Command Mode

- /exec

show startup-config rpm

show startup-config rpm [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
rpm	Display Route Policy Manager (RPM) information
all	(Optional) Display startup config with defaults

Command Mode

- /exec

show startup-config rsvp

show startup-config rsvp

Syntax Description

show	Show running system information
startup-config	Current startup configuration
rsvp	Display RSVP status

Command Mode

- /exec

show startup-config security

show startup-config security

Syntax Description

show	show startup-cfg
startup-config	show startup system information
security	Display security configuration

Command Mode

- /exec

show startup-config services

show startup-config services

Syntax Description

show	show startup-cfg
startup-config	show startup system information
services	services

Command Mode

- /exec

show startup-config sflow

show startup-config sflow [all]

Syntax Description

startup-config	Current startup configuration
sflow	show startup config for sflow
all	(Optional) show running config with defaults

Command Mode

- /exec

show startup-config snmp

show startup-config snmp [all]

Syntax Description

show	show startup-cfg
startup-config	show startup system information
snmp	Display snmp configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show startup-config switch

show startup-config { switch-profile | include-switch-profile }

Syntax Description

show	Show running system information
startup-config	System startup configuration
switch-profile	Show switch-profile information
include-switch-profile	Show startup and switch-profile configuration

Command Mode

- /exec

show startup-config tacacs

show startup-config tacacs +

Syntax Description

show	show startup-cfg
startup-config	show startup system information

Command Mode

- /exec

show startup-config telemetry

show startup-config telemetry [all]

Syntax Description

show	show startup system configuration
startup-config	show startup system information
telemetry	Display telemetry configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show startup-config track

show startup-config track

Syntax Description

show	Show running system information
startup-config	Show the system startup configuration
track	Show the track startup configuration

Command Mode

- /exec

show startup-config udd

show startup-config udd

Syntax Description

show	Show running system information
startup-config	Current startup configuration
udd	Show udd configuration

Command Mode

- /exec

show startup-config vdc-all

show startup-config vdc-all

Syntax Description

show	Show running system information
startup-config	Current startup configuration
vdc-all	Display config from all VDC

Command Mode

- /exec

show startup-config vdc

show startup-config vdc [all]

Syntax Description

show	Show running system information
startup-config	Current saved configuration
vdc	Show Virtual Device Contexts
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config virtual-service

show startup-config virtual-service

Syntax Description

show	Show running system information
startup-config	System startup-config commands
virtual-service	Show startup config for virtualization services

Command Mode

- /exec

show startup-config vlan

show startup-config vlan <vlan-id>

Syntax Description

show	Show running system information
startup-config	System startup-config commands
vlan	Vlan commands
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

Command Mode

- /exec

show startup-config vlan

show startup-config vlan

Syntax Description

show	Show running system information
startup-config	System startup-config commands
vlan	Vlan commands

Command Mode

- /exec

show startup-config vmtracker

show startup-config vmtracker [all]

Syntax Description

show	Show system information
startup-config	System startup configuration
vmtracker	Show VMTracker configuration
all	(Optional) Show VMTracker config with defaults

Command Mode

- /exec

show startup-config vpc

show startup-config vpc [all]

Syntax Description

startup-config	Current startup configuration
vpc	show startup config for vPC
all	(Optional) show running config with defaults

Command Mode

- /exec

show startup-config vrf

show startup-config vrf <vrf-cfg-name> [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
vrf	Display VRF information
<i>vrf-cfg-name</i>	Configurable VRF name
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config vrf default

show startup-config vrf default [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
vrf	Display VRF information
default	Known VRF name
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show startup-config vrrp

show startup-config vrrp

Syntax Description

show	Show system information
startup-config	System startup configuration
vrrp	VRRP startup configuration

Command Mode

- /exec

show startup-config vrrpv3

show startup-config vrrpv3 [all]

Syntax Description

show	Show system information
startup-config	System startup configuration
vrrpv3	VRRPv3 startup configuration
all	(Optional) show startup config of VRRPv3 with defaults

Command Mode

- /exec

show startup-config vshd

show startup-config vshd

Syntax Description

show	Show startup system information
startup-config	Current startup configuration
vshd	Show startup config for vshd

Command Mode

- /exec

show startup-config vtp

show startup-config vtp [all]

Syntax Description

show	Show running system information
startup-config	System startup-config commands
vtp	Show startup configuration for VTP
all	(Optional) Show startup configuration for VTP with defaults

Command Mode

- /exec

show summary

```
show { ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] all | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 [ { unicast | multicast } ] ] } summary [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
summary	Display summarized information of BGP state
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	Display BGP information for all address families

Command Mode

- /exec

show switch-profile

show switch-profile [*__readonly__* <profile_name> <cfg_rev>]

Syntax Description

show	Show running system information
switch-profile	Show switch-profiles
<i>__readonly__</i>	(Optional)
<i>profile_name</i>	(Optional)
<i>cfg_rev</i>	(Optional)

Command Mode

- /exec

show switch-profile

```
show switch-profile [ <profile-name> ] { session-history | status commit } [ __readonly__ <prof-name>
TABLE_session <session_index> <start_usec> <start_time> <end_usec> <end_time> <revision_number>
<session_type> <session_subtype> <peer_triggered> <profile_status> <local_status> <local_error>
<peer_address> <peer_sync_status> <merge_flags> <remote_status> <remote_error> ]
```

Syntax Description

show	Show running system information
switch-profile	Show switch-profile
session-history	Switch-profile session-history
<i>profile-name</i>	(Optional) switch-profile name
status	Switch-profile sync status
commit	Switch-profile last commit status
<i>__readonly__</i>	(Optional)
<i>prof-name</i>	(Optional)
TABLE_session	(Optional)
<i>session_index</i>	(Optional)
<i>start_usec</i>	(Optional)
<i>start_time</i>	(Optional)
<i>end_usec</i>	(Optional)
<i>end_time</i>	(Optional)
<i>revision_number</i>	(Optional)
<i>session_type</i>	(Optional)
<i>session_subtype</i>	(Optional)
<i>peer_triggered</i>	(Optional)
<i>profile_status</i>	(Optional)
<i>local_status</i>	(Optional)
<i>local_error</i>	(Optional)
<i>peer_address</i>	(Optional)
<i>peer_sync_status</i>	(Optional)

<i>merge_flags</i>	(Optional)
<i>remote_status</i>	(Optional)
<i>remote_error</i>	(Optional)

Command Mode

- /exec

show switch-profile buffer

show switch-profile [<profile-name>] buffer [__readonly__ <prof-name> <seq_no> <cmd>]

Syntax Description

show	Show running system information
switch-profile	Show switch-profile
buffer	buffered commands
<i>profile-name</i>	(Optional) switch-profile name
__readonly__	(Optional)
<i>prof-name</i>	(Optional)
<i>seq_no</i>	(Optional)
<i>cmd</i>	(Optional)

Command Mode

- /exec

show switch-profile peer

```
show switch-profile [ <profile-name> ] peer [ <dest-ip> ] [ details ] [ __readonly__ <prof-name> <rev>
<peer_address> <peer_sync_status> <merge_flags> <remote_status> <remote_error> <cmd> ]
```

Syntax Description

show	Show running system information
switch-profile	Show switch-profile
<i>profile-name</i>	(Optional) switch-profile name
peer	peer info
<i>dest-ip</i>	(Optional) IPv4 address (A.B.C.D) of destination
details	(Optional) information in detail
<i>__readonly__</i>	(Optional)
<i>prof-name</i>	(Optional)
<i>rev</i>	(Optional)
<i>peer_address</i>	(Optional)
<i>peer_sync_status</i>	(Optional)
<i>merge_flags</i>	(Optional)
<i>remote_status</i>	(Optional)
<i>remote_error</i>	(Optional)
<i>cmd</i>	(Optional)

Command Mode

- /exec

show switch-profile status

```
show switch-profile [ <profile-name> ] status [ __readonly__ <prof-name> <start_usec> <start_time>
<end_usec> <end_time> <revision_number> <session_type> <session_subtype> <peer_triggered>
<profile_status> <local_status> <local_error> <peer_address> <peer_sync_status> <merge_flags>
<remote_status> <remote_error> ]
```

Syntax Description

show	Show running system information
switch-profile	Show switch-profile
status	Switch-profile sync status
<i>profile-name</i>	(Optional) switch-profile name
<i>__readonly__</i>	(Optional)
<i>prof-name</i>	(Optional)
<i>start_usec</i>	(Optional)
<i>start_time</i>	(Optional)
<i>end_usec</i>	(Optional)
<i>end_time</i>	(Optional)
<i>revision_number</i>	(Optional)
<i>session_type</i>	(Optional)
<i>session_subtype</i>	(Optional)
<i>peer_triggered</i>	(Optional)
<i>profile_status</i>	(Optional)
<i>local_status</i>	(Optional)
<i>local_error</i>	(Optional)
<i>peer_address</i>	(Optional)
<i>peer_sync_status</i>	(Optional)
<i>merge_flags</i>	(Optional)
<i>remote_status</i>	(Optional)
<i>remote_error</i>	(Optional)

Command Mode

- /exec

show switch-scope controller

show switch-scope controller

Syntax Description

show	Show running system information
switch-scope	switch-scope
controller	Controller command

Command Mode

- /exec

show switching-mode

show switching-mode [__readonly__ TABLE_switching_mode <switching-mode-desc>]

Syntax Description

show	Show running system information
switching-mode	Show the operating switching mode
__readonly__	(Optional)
TABLE_switching_mode	(Optional) the xml switching_mode configuration
<i>switching-mode-desc</i>	(Optional) switching mode description

Command Mode

- /exec

show switching-mode fabric-speed

show switching-mode fabric-speed [*__readonly__* *TABLE_switching_mode* <switching-mode-desc>]

Syntax Description

show	Show running system information
switching-mode	Show the operating switching mode
<i>__readonly__</i>	(Optional)
<i>TABLE_switching_mode</i>	(Optional) the xml switching_mode configuration
<i>switching-mode-desc</i>	(Optional) switching mode description
fabric-speed	Show the fabric speed

Command Mode

- /exec

show system auto-collect tech-support

show system auto-collect tech-support

Syntax Description

show	Show running system information
system	System management commands
auto-collect	Auto collection of information
tech-support	Collect tech-support in case of service causing supervisor reset

Command Mode

- /exec

show system boottime

```
show system boottime [ __readonly__ { TABLE_uptimeinf <slot> <starttime> <daysup> <hoursup>
<minutesup> <secondsup> } ]
```

Syntax Description

show	Show running system information
system	System-related show commands
boottime	Show platform boot time of each module
__readonly__	(Optional)
TABLE_uptimeinf	(Optional) Show uptime info
slot	(Optional) Slot
starttime	(Optional) Start Time
daysup	(Optional) Days Up
hoursup	(Optional) Hours Up
minutesup	(Optional) Minutes Up
secondsup	(Optional) Seconds Up

Command Mode

- /exec

show system clis event-history

show system [internal] clis event-history { nvdb | client | errors | parser | ha | cli | objstr | objstr-errors }

Syntax Description

show	Display output
system	System-related show commands
internal	(Optional) Commands for internal use
clis	cli server
event-history	Event history logs for clis
nvdb	Log of NVDB and PSS events
client	Log of client interaction events
errors	Log of errors
parser	Log of parser events
ha	Log of ha events
cli	Log of command events
objstr	Log of Object Store events
objstr-errors	Log of Object Store error events

Command Mode

- /exec

show system cores

show system cores [__readonly__ { <content> }]

Syntax Description

show	Show running system information
system	System-related show commands
cores	Displays core transfer option
__readonly__	(Optional)
<i>content</i>	(Optional) Core transfer option

Command Mode

- /exec

show system dme status

show system dme status

Syntax Description

show	Show running system information
system	System-related show commands
dme	Display dme information
status	Display dme enable/disable status information

Command Mode

- /exec

show system error-id

show system error-id { list | <i0> } [__readonly__ <errorid> <facility> <desc>]

Syntax Description

show	Show running system information
system	System-related show commands
error-id	Show description about errors
list	Show description about all error IDs
<i>i0</i>	Show description about specific error
<i>__readonly__</i>	(Optional)
<i>errorid</i>	(Optional)
<i>facility</i>	(Optional)
<i>desc</i>	(Optional)

Command Mode

- /exec

show system exception-info

show system exception-info

Syntax Description

show	Show running system information
system	System-related show commands
exception-info	Show last exception log information

Command Mode

- /exec

show system fabric-mode

show system fabric-mode [*__readonly__* *TABLE_system_fabric_mode* <*system-fabric-mode-desc*>]

Syntax Description

show	Show running system information
system	Show system information
fabric-mode	Show the fabric operation mode information
<i>__readonly__</i>	(Optional)
<i>TABLE_system_fabric_mode</i>	(Optional) the xml <i>system_fabric_mode</i> configuration
<i>system-fabric-mode-desc</i>	(Optional) system fabric mode description

Command Mode

- /exec

show system fast-reload stabilization-timer

show system fast-reload stabilization-timer

Syntax Description

show	Show running system information
system	System management commands
fast-reload	fast-reload software
stabilization-timer	Network stabilization time in seconds before fast-reload can be executed after the previous reload

Command Mode

- /exec

show system inband queuing statistics

```
show system inband queuing statistics [ __readonly__ { TABLE_sys_inband_queue_stats <inbandpktunmap>
<inbandpktbpdqueue> <inbandpktmapq0> <inbandpktmapq1> <klmpktmapbpdu> <klmpktmaparp>
<klmpktmapq0> <klmpktmapq1> <klmpktmapveobc> <queuname> [ TABLE_bpdu_stats { <pmrcvpkts>
<pmdropkts> <pmcongested> <rcvbuf> <sndbuf> <pmnodrop> } ] [ TABLE_q_stats { <indexstat>
<ipmrcvpkts> <ipmdropkts> <ipmcongested> <ircvbuf> <isndbuf> <ipmnodrop> } } ]
```

Syntax Description

show	Show running system information
system	System-related show commands
inband	Inband Commands
queuing	Inband Queuing commands
statistics	Inband statistics
<i>__readonly__</i>	(Optional)
TABLE_sys_inband_queue_stats	(Optional) System Inband Statistics
<i>inbandpktunmap</i>	(Optional) Inband packets unmapped
<i>inbandpktbpdqueue</i>	(Optional) Inband packets mapped to bpdu
<i>inbandpktmapq0</i>	(Optional) Inband packets mapped to q0
<i>inbandpktmapq1</i>	(Optional) Inband packets mapped to q1
<i>klmpktmapbpdu</i>	(Optional) In KLM packets mapped to bpdu
<i>klmpktmaparp</i>	(Optional) In KLM packets mapped to arp
<i>klmpktmapq0</i>	(Optional) In KLM packets mapped to q0
<i>klmpktmapq1</i>	(Optional) In KLM packets mapped to q1
<i>klmpktmapveobc</i>	(Optional) In KLM packets mapped to veobc
<i>queuname</i>	(Optional) Inband queue name
TABLE_bpdu_stats	(Optional) BPDU Statistics
<i>pmrcvpkts</i>	(Optional) BPDU Receive Packets
<i>pmdropkts</i>	(Optional) BPDU Drop Packets
<i>pmcongested</i>	(Optional) BPDU Congested
<i>rcvbuf</i>	(Optional) BPDU Receive Buffer
<i>sndbuf</i>	(Optional) BPDU Send Buffer

<i>pmnopro</i>	(Optional) BPDU No drop
TABLE_q_stats	(Optional) Queue Statistics
<i>indexstat</i>	(Optional) Queue Index
<i>ipmrecvpkts</i>	(Optional) Queue receive packets
<i>ipmdroppkts</i>	(Optional) Queue drop packets
<i>ipmcongested</i>	(Optional) Queue Congested
<i>ircvbuf</i>	(Optional) Queue receive buffer
<i>isndbuf</i>	(Optional) Queue send buffer
<i>ipmnoopro</i>	(Optional) Queue no drop

Command Mode

- /exec

show system inband queuing status

```
show system inband queuing status [ __readonly__ [ { TABLE_sys_inband_queue_status <pminbandweigh0>
<pminbandweigh1> <pminbandweigh2> } ] ]
```

Syntax Description

show	Show running system information
system	System-related show commands
inband	Inband Commands
queuing	Inband Queuing commands
status	Selective Packet Discard Information
<i>__readonly__</i>	(Optional)
<i>TABLE_sys_inband_queue_status</i>	(Optional) System Inband Status
<i>pminbandweigh0</i>	(Optional) BPDU Weight
<i>pminbandweigh1</i>	(Optional) Q0 Weight
<i>pminbandweigh2</i>	(Optional) Q1 Weight

Command Mode

- /exec

show system kgdb

show system kgdb

Syntax Description

show	Show running system information
system	System-related show commands
kgdb	Displays state of kgdb_enable flag

Command Mode

- /exec

show system login

```
show system login [ __readonly__ [ <acc_list> <attempts> ] [ <within> <block_for> <time> ] [ <fail_count> ] ]
```

Syntax Description

show	Show running system information
system	System-related show commands
login	Display Secure Login Configurations and State
<i>__readonly__</i>	(Optional)
<i>acc_list</i>	(Optional) Appiled ACL's
<i>attempts</i>	(Optional) Number of login failures
<i>within</i>	(Optional) Number of login failures within time
<i>block_for</i>	(Optional) Login disabled for time
<i>time</i>	(Optional) Time remaining to re-enable login
<i>fail_count</i>	(Optional) Login failure count

Command Mode

- /exec

show system login failures

```
show system login failures [ __readonly__ [ { TABLE_loginStats <username> <port> <remote_addr>
<app_name> <time> } ] ]
```

Syntax Description

show	Show running system information
system	System-related show commands
login	Secure Login
failures	Display Login failures in the current watch period
<i>__readonly__</i>	(Optional)
<i>TABLE_loginStats</i>	(Optional)
<i>username</i>	(Optional) User name
<i>port</i>	(Optional) Login port number
<i>remote_addr</i>	(Optional) Remote address
<i>app_name</i>	(Optional) Application name
<i>time</i>	(Optional) Login time

Command Mode

- /exec

show system memory-thresholds

```
show system memory-thresholds [ __readonly__ <critical_mem_threshold> <severe_mem_threshold>
<minor_mem_threshold> ]
```

Syntax Description

show	Show running system information
<i>__readonly__</i>	(Optional)
<i>critical_mem_threshold</i>	(Optional) Critical System Memory Threshold
<i>severe_mem_threshold</i>	(Optional) Severe System Memory Threshold
<i>minor_mem_threshold</i>	(Optional) Minor System Memory Threshold
system	System management commands
memory-thresholds	Set memory thresholds on the card

Command Mode

- /exec

show system mode

```
show system mode [ __readonly__ <system_mode> [ <timer_state> ] ]
```

Syntax Description

show	Show running system information
system	System configuration commands
mode	Show system mode
<i>__readonly__</i>	(Optional)
<i>system_mode</i>	(Optional) system mode
<i>timer_state</i>	(Optional) timer state

Command Mode

- /exec

show system nve infra-vlans

show system nve infra-vlans [__readonly__ <output>]

Syntax Description

show	Show running system information
system	System-related show commands
nve	Show NVE information
infra-vlans	Show NVE infra-vlans related information
__readonly__	(Optional)
<i>output</i>	(Optional)

Command Mode

- /exec

show system pss shrink status

```
show system pss shrink status [ details ] [ __readonly__ { [ <summary> ] [ TABLE_per_vdc <vdc_id> [
TABLE_detail_events <service> <vdc> <event> ] ] [ TABLE_events <service> <vdc> <event> ] } ]
```

Syntax Description

show	Show running system information
system	System-related show commands
pss	Displays last pss shrink status
shrink	Displays last pss shrink status
status	Displays last pss shrink status
details	(Optional) Displays last pss shrink status details
<i>__readonly__</i>	(Optional)
<i>summary</i>	(Optional) PSS shrink summary
TABLE_per_vdc	(Optional)
<i>vdc_id</i>	(Optional) VDC id
TABLE_detail_events	(Optional) PSS shrink events
<i>service</i>	(Optional) Service name
<i>vdc</i>	(Optional) VDC number
<i>event</i>	(Optional) PSS evnets
TABLE_events	(Optional) PSS shrink events
<i>service</i>	(Optional) Service name
<i>vdc</i>	(Optional) VDC number
<i>event</i>	(Optional) PSS evnets

Command Mode

- /exec

show system redundancy ha status

```
show system redundancy ha status [ __readonly__ { [ TABLE_ha_status <vdc_id> <this_sup_internal_state>
<other_sup_internal_state> ] } ]
```

Syntax Description

show	Show running system information
system	System-related show commands
redundancy	redundancy status
ha	vdc redundancy status
status	all vdc redundancy status
<i>__readonly__</i>	(Optional)
<i>TABLE_ha_status</i>	(Optional) HA status for all vdc's
<i>vdc_id</i>	(Optional) vdc id
<i>this_sup_internal_state</i>	(Optional) This Supervisor State
<i>other_sup_internal_state</i>	(Optional) Remote Supervisor State

Command Mode

- /exec

show system redundancy status

```
show system redundancy status [ __readonly__ { <rdn_mode_admin> <rdn_mode_oper> <this_sup>
<this_sup_rdn_state> <this_sup_sup_state> <this_sup_internal_state> [ <other_sup> ] [ <other_sup_rdn_state>
] [ <other_sup_sup_state> ] [ <other_sup_internal_state> ] } ]
```

Syntax Description

show	Show running system information
system	System-related show commands
redundancy	redundancy status
status	Current redundancy status
<i>__readonly__</i>	(Optional) readonly
<i>rdn_mode_admin</i>	(Optional) Redundancy Mode Admin
<i>rdn_mode_oper</i>	(Optional) Redundancy Mode Operational
<i>this_sup</i>	(Optional) This Supervisor
<i>this_sup_rdn_state</i>	(Optional) Redundancy State
<i>this_sup_sup_state</i>	(Optional) Supervisor State
<i>this_sup_internal_state</i>	(Optional) Supervisor State
<i>other_sup</i>	(Optional) Other Supervisor
<i>other_sup_sup_state</i>	(Optional) Supervisor State
<i>other_sup_rdn_state</i>	(Optional) Redundancy tate
<i>other_sup_internal_state</i>	(Optional) Supervisor State

Command Mode

- /exec

show system reset-reason

```
show system reset-reason [ __readonly__ { TABLE_reason <slot> { TABLE_rr <time> <reason> <service>
<version> } } ]
```

Syntax Description

show	Show running system information
system	System-related show commands
reset-reason	Show last reset reason
__readonly__	(Optional)
TABLE_reason	(Optional) Reset reason info
slot	(Optional) slot
TABLE_rr	(Optional) reset reason
time	(Optional) time
reason	(Optional) reset reason
service	(Optional) service name
version	(Optional) version

Command Mode

- /exec

show system reset-reason

```
show system reset-reason <s0> <santa-cruz-range> [ __readonly__ { TABLE_xbarreason <slot> { TABLE_rr
<time> <reason> <service> <version> } } ]
```

Syntax Description

show	Show running system information
system	System-related show commands
reset-reason	Show last reset reason
<i>s0</i>	Show xbar module reset reason
<i>santa-cruz-range</i>	please enter the xbar module number
<i>__readonly__</i>	(Optional)
TABLE_xbarreason	(Optional) Reset reason info
<i>slot</i>	(Optional) slot
TABLE_rr	(Optional) reset reason
<i>time</i>	(Optional) time
<i>reason</i>	(Optional) reset reason
<i>service</i>	(Optional) service name
<i>version</i>	(Optional) version

Command Mode

- /exec

show system reset-reason fex

show system reset-reason fex <i>

Syntax Description

show	Show running system information
system	System-related show commands
reset-reason	Show last reset reason
fex	Show fex last reset reason
<i>i</i>	Enter FEX identifier

Command Mode

- /exec

show system reset-reason module

```
show system reset-reason module <module> [ __readonly__ { TABLE_reason <slot> { TABLE_rr <time>
<reason> <service> <version> } } ]
```

Syntax Description

show	Show running system information
system	System-related show commands
reset-reason	Show last reset reason
module	Show per module reset-reason code
<i>module</i>	please enter module number
<i>__readonly__</i>	(Optional)
TABLE_reason	(Optional) Reset reason info
<i>slot</i>	(Optional) slot
TABLE_rr	(Optional) reset reason
<i>time</i>	(Optional) time
<i>reason</i>	(Optional) reset reason
<i>service</i>	(Optional) service name
<i>version</i>	(Optional) version

Command Mode

- /exec

show system resources

```
show system resources [ __readonly__ { [ <load_avg_1min> ] [ <load_avg_5min> ] [ <load_avg_15min> ]
[ <processes_total> ] [ <processes_running> ] [ <cpu_state_user> ] [ <cpu_state_kernel> ] [ <cpu_state_idle>
] [ TABLE_cpu_usage <cpuid> <user> <kernel> <idle> ] [ <memory_usage_total> ] [ <memory_usage_used>
] [ <memory_usage_free> ] [ <current_memory_status> ] }
```

Syntax Description

<i>show</i>	Show running system information
<i>system</i>	System-related show commands
<i>resources</i>	Show system resources
<i>__readonly__</i>	(Optional)
<i>TABLE_cpu_usage</i>	(Optional) All Cpu Usage Information
<i>load_avg_1min</i>	(Optional) Load Average 1 Min
<i>load_avg_5min</i>	(Optional) Load Average 5 Min
<i>load_avg_15min</i>	(Optional) Load Average 15 Min
<i>processes_total</i>	(Optional) Total processes
<i>processes_running</i>	(Optional) Running Processes
<i>cpu_state_user</i>	(Optional) CPU State User
<i>cpu_state_kernel</i>	(Optional) CPU State Kernel
<i>cpu_state_idle</i>	(Optional) CPU State Idle
<i>cpuid</i>	(Optional) CPU id
<i>user</i>	(Optional) user time
<i>kernel</i>	(Optional) kernel time
<i>idle</i>	(Optional) idle time
<i>memory_usage_total</i>	(Optional) Memory Usage Total
<i>memory_usage_used</i>	(Optional) Memory Usage Used
<i>memory_usage_free</i>	(Optional) Memory Usage Free
<i>current_memory_status</i>	(Optional) Current Memory Status

Command Mode

- /exec

show system resources

show system resources <i0>

Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
<i>i0</i>	time interval in seconds

Command Mode

- /exec

show system resources module

show system resources [*<i0>*] module *<module>*

Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
<i>i0</i>	(Optional) time interval in seconds
module	Show system resources for specified module
<i>module</i>	module number

Command Mode

- /exec

show system resources module all

show system resources [*<i0>*] module all

Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
<i>i0</i>	(Optional) time interval in seconds
module	Show system resources for specified module
all	Show system resources for all modules

Command Mode

- /exec

show system routing mode

show system routing mode [*__readonly__* *TABLE_system_routing_mode* <*system-routing-mode-desc*>]

Syntax Description

show	Show running system information
system	Show system information
routing	Show routing related information
mode	Show mode related information
<i>__readonly__</i>	(Optional)
<i>TABLE_system_routing_mode</i>	(Optional) the xml <i>system_routing_mode</i> configuration
<i>system-routing-mode-desc</i>	(Optional) system routing mode description

Command Mode

- /exec

show system srg

show system srg

Syntax Description

show	Show running system information
system	System-related show commands
srg	Displays the system SRG

Command Mode

- /exec

show system standby manual-boot

show system standby manual-boot [__readonly__ { <content> }]

Syntax Description

show	Show running system information
system	System-related show commands
standby	Displays system standby manual boot option
manual-boot	Displays system standby manual boot option
__readonly__	(Optional)
<i>content</i>	(Optional) Displays system standby manual boot option

Command Mode

- /exec

show system switch-mode

show system switch-mode [*__readonly__* <*op_mode*>]

Syntax Description

show	Show running system information
system	System-related show commands
switch-mode	Show current operational mode of the switch
<i>__readonly__</i>	(Optional)
<i>op_mode</i>	(Optional) Operational Mode

Command Mode

- /exec

show system switchover impact

show system switchover impact [<uri0> [<uri1>]]

Syntax Description

show	Show running system information
system	System-related show commands
switchover	Show the software switchover impact between two images
impact	impact {standby_system_uri} {active_system_uri}
<i>uri0</i>	(Optional) Enter standby URI
<i>uri1</i>	(Optional) Enter active URI

Command Mode

- /exec

show system uptime

```
show system uptime [ __readonly__ { <sys_st_time> <sys_up_days> <sys_up_hrs> <sys_up_mins>
<sys_up_secs> <kn_up_days> <kn_up_hrs> <kn_up_mins> <kn_up_secs> [ <as_up_days> ] [ <as_up_hrs>
] [ <as_up_mins> ] [ <as_up_secs> ] } ]
```

Syntax Description

show	Show running system information
system	System-related show commands
uptime	Show how long the system has been up and running
<i>__readonly__</i>	(Optional) readonly
<i>sys_st_time</i>	(Optional) System Start Time
<i>sys_up_days</i>	(Optional) System Uptime Days
<i>sys_up_hrs</i>	(Optional) System Uptime Hours
<i>sys_up_mins</i>	(Optional) System Uptime Minutes
<i>sys_up_secs</i>	(Optional) System Uptime Seconds
<i>kn_up_days</i>	(Optional) Kernel Uptime Days
<i>kn_up_hrs</i>	(Optional) Kernel Uptime Hours
<i>kn_up_mins</i>	(Optional) Kernel Uptime Minutes
<i>kn_up_secs</i>	(Optional) Kernel Uptime Seconds
<i>as_up_days</i>	(Optional) Active Sup Uptime Days
<i>as_up_hrs</i>	(Optional) Active Sup Uptime Hours
<i>as_up_mins</i>	(Optional) Active Sup Uptime Minutes
<i>as_up_secs</i>	(Optional) Active Sup Uptime Seconds

Command Mode

- /exec

show system verify bios flash

```
show system verify bios { flash <i0> [ module <module> ] | protection <i1> [ module <module1> ] }
```

Syntax Description

show	Show running system information
system	System-related show commands
verify	Verify commands
bios	Verify bios
flash	verify bios flash or protection status
<i>i0</i>	Select primary or alternate flash
module	(Optional) Module number
<i>module</i>	(Optional) Enter module number
protection	verify bios flash or protection status
<i>i1</i>	Select primary or alternate flash
module	(Optional) Module number
<i>module1</i>	(Optional) Enter module number

Command Mode

- /exec

show system vlan reserved

```
show system vlan reserved [ __readonly__ { TABLE_vlan <current_reserved_vlan_start>
<current_reserved_vlan_end> <future_reserved_vlan_start> <future_reserved_vlan_end> } ]
```

Syntax Description

show	Show running system information
system	system wide configuration
vlan	VLAN status
reserved	Show system VLAN allocation
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_vlan</i>	(Optional)
<i>current_reserved_vlan_start</i>	(Optional) System current running reserved vlan start
<i>current_reserved_vlan_end</i>	(Optional) System current running reserved vlan end
<i>future_reserved_vlan_start</i>	(Optional) System future running reserved vlan start
<i>future_reserved_vlan_end</i>	(Optional) System future running reserved vlan end

Command Mode

- /exec

show system vlan reserved



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show table-map

```
show table-map [ <tmap-name> | <default-tmap-enum-name> ] [ __readonly__ { [ TABLE_tmap <tmap-name>
[ <desc> ] [ <def-value> ] [ <def-copy> ] [ <def-ignore> ] [ TABLE_list <frm-list> <to-val> ] ] } ]
```

Syntax Description

show	Show running system information
table-map	Table maps
TABLE_tmap	(Optional) all tmap xml sessions
<i>tmap-name</i>	(Optional) Show a particular table map
<i>default-tmap-enum-name</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>desc</i>	(Optional) Description string
<i>def-value</i>	(Optional) Unspecified entries will default to this value
<i>def-copy</i>	(Optional) Map unspecified values to equivalent output value
<i>def-ignore</i>	(Optional) Ignore unspecified values
TABLE_list	(Optional) table map lists
<i>frm-list</i>	(Optional) Original list of values which are to be mapped
<i>to-val</i>	(Optional) To value

Command Mode

- /exec

show tacacs-server

```
show tacacs-server [ __readonly__ [ <global_secretKey> ] { <global_timeout> <global_deadtime> } [
<global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [ <global_testPassword> ] } {
<server_count> } [ TABLE_server <server_ip> <port> [ <secretKey> ] [ <timeout> ] ] [ { <host0>
<tacacs_port> <shared_key> <idle_time><test_username> <test_password> } + ] ]
```

Syntax Description

show	Show running system information
tacacs-server	Show TACACS+ configuration information
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Tacacs global source interface
<i>global_idle_time</i>	(Optional) Tacacs global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of tacacs servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>port</i>	(Optional) Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server
<i>host0</i>	(Optional) DNS name or IP address
<i>tacacs_port</i>	(Optional) TACACS+ server port
<i>shared_key</i>	(Optional) TACACS+ shared secret
<i>test_password</i>	(Optional) User password in test packets

Command Mode

- /exec

show tacacs-server

```
show tacacs-server { <host0> } [ __readonly__ { <host1> } <tacacs_port> <shared_key>
<idle_time><test_username> <test_password> ]
```

Syntax Description

<code>show</code>	Show running system information
<code>tacacs-server</code>	Show TACACS+ configuration information
<i>host0</i>	DNS name or IP address
<code>__readonly__</code>	(Optional)
<i>host1</i>	(Optional) DNS name or IP address
<i>tacacs_port</i>	(Optional) TACACS+ server port
<i>shared_key</i>	(Optional) TACACS+ shared secret
<i>test_password</i>	(Optional) User password in test packets

Command Mode

- /exec

show tacacs-server directed-request

```
show tacacs-server directed-request [ __readonly__ { <tacacs_directedRequest_status> } ]
```

Syntax Description

show	Show running system information
tacacs-server	Show TACACS+ configuration information
directed-request	Show directed server enable configuration
__readonly__	(Optional)
<i>tacacs_directedRequest_status</i>	(Optional) status of tacacs-server directed request

Command Mode

- /exec

show tacacs-server groups

```
show tacacs-server groups [ <s0> ] [ __readonly__ [ <num_of_groups> ] [ TABLE_group <group_name> [
TABLE_server <server_ip> [ <port> ] ] [ <dead_time> ] [ <vrf_name> ] [ <source_interface> ] ] ]
```

Syntax Description

show	Show running system information
tacacs-server	Show TACACS+ configuration information
groups	Show TACACS+ server group configuration information
<i>s0</i>	(Optional) TACACS+ server group name
<i>__readonly__</i>	(Optional)
<i>num_of_groups</i>	(Optional) number of groups
TABLE_group	(Optional)
<i>group_name</i>	(Optional) name of the group
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) DNS name or IP address
<i>port</i>	(Optional) TACACS+ server port
<i>dead_time</i>	(Optional) Time interval for which the server is marked as dead before sending a test command
<i>vrf_name</i>	(Optional) name of the vrf
<i>source_interface</i>	(Optional) Interface Description

Command Mode

- /exec

show tacacs-server sorted

```
show tacacs-server sorted [ __readonly__ [ <global_secretKey> ] { <global_timeout> <global_deadtime> }
[ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [ <global_testPassword> ] } {
<server_count> } [ TABLE_server <server_ip> <port> [ <secretKey> ] [ <timeout> ] ] ]
```

Syntax Description

show	Show running system information
tacacs-server	Show TACACS+ configuration information
sorted	Show TACACS+ servers sorted by server name
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Tacacs global source interface
<i>global_idle_time</i>	(Optional) Tacacs global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of tacacs servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>port</i>	(Optional) Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server

Command Mode

- /exec

show tacacs-server statistics

```
show tacacs-server statistics { <host0> } [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { autho_statistics <autho_failed_transactions>
<autho_succ_transactions> <autho_req_sent> <autho_req_timedout> <autho_resp_no_match>
<autho_resp_not_processed> <autho_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } ]
```

Syntax Description

show	Show running system information
tacacs-server	Show TACACS+ configuration information
statistics	Show TACACS statistics
<i>host0</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>server_state</i>	(Optional) Show state of server
<i>clock_time</i>	(Optional) Show clock time in terms of hours, minutes and seconds
<i>monitoring_statistics</i>	(Optional) Monitoring Statistics
<i>time_in_pstate</i>	(Optional) Time in previous state
<i>ndead</i>	(Optional) Number of times dead
<i>tt_in_dstate</i>	(Optional) Total time in dead state
<i>auth_statistics</i>	(Optional) Authentication Statistics
<i>autho_statistics</i>	(Optional) Authorization Statistics
<i>acct_statistics</i>	(Optional) Accounting Statistics
<i>auth_failed_transactions</i>	(Optional) Authentication: Failed transactions
<i>auth_succ_transactions</i>	(Optional) Authentication: Successful transactions
<i>auth_req_sent</i>	(Optional) Authentication: Requests sent
<i>auth_req_timedout</i>	(Optional) Authentication: Requests timedout
<i>auth_resp_no_match</i>	(Optional) Authentication: Responses with no matching requests
<i>auth_resp_not_processed</i>	(Optional) Authentication: Responses not processed
<i>auth_resp_error</i>	(Optional) Authentication: Responses containing errors

<i>autho_failed_transactions</i>	(Optional) Authorization: Failed transactions
<i>autho_succ_transactions</i>	(Optional) Authorization: Successful transactions
<i>autho_req_sent</i>	(Optional) Authorization: Requests sent
<i>autho_req_timedout</i>	(Optional) Authorization: Requests timedout
<i>autho_resp_no_match</i>	(Optional) Authorization: Responses with no matching requests
<i>autho_resp_not_processed</i>	(Optional) Authorization: Responses not processed
<i>autho_resp_error</i>	(Optional) Authorization: Responses containing errors
<i>acct_failed_transactions</i>	(Optional) Accounting: Failed transactions
<i>acct_succ_transactions</i>	(Optional) Accounting: Successful transactions
<i>acct_req_sent</i>	(Optional) Accounting: Requests sent
<i>acct_req_timedout</i>	(Optional) Accounting: Requests timedout
<i>acct_resp_no_match</i>	(Optional) Accounting: Responses with no matching requests
<i>acct_resp_not_processed</i>	(Optional) Accounting: Responses not processed
<i>acct_resp_error</i>	(Optional) Accounting: Responses containing errors

Command Mode

- /exec

show tech-support

show tech-support [time-optimized] [forced]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
time-optimized	(Optional) Gather tech-support faster, requires more memory and disk space
forced	(Optional) Do not check for standby being present

Command Mode

- /exec

show tech-support aaa

show tech-support aaa

Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting
aaa	Display aaa information

Command Mode

- /exec

show tech-support aclmgr

show tech-support aclmgr [detail]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
aclmgr	ACL commands
detail	(Optional) Detailed Tech Support

Command Mode

- /exec

show tech-support aclmgr compressed

show tech-support aclmgr compressed <uri0> [detail]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
aclmgr	ACL commands
compressed	Save compressed aclqos technical support
<i>uri0</i>	Enter filename to store
detail	(Optional) Detailed Tech Support

Command Mode

- /exec

show tech-support aclqos

show tech-support aclqos

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
aclqos	Show information for aclqos technical support

Command Mode

- /exec

show tech-support aclqos compressed

show tech-support aclqos compressed <uri0>

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
aclqos	Show information for aclqos technical support
compressed	Save compressed aclqos technical support
<i>uri0</i>	Enter filename to store

Command Mode

- /exec

show tech-support adjmgr

show tech-support adjmgr [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
adjmgr	Display Adjmgr information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support all-binary

show tech-support all-binary

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
all-binary	Dump tech support for all applications in binary

Command Mode

- /exec

show tech-support all

show tech-support all

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
all	Gather detailed information for troubleshooting

Command Mode

- /exec

show tech-support all binary

show tech-support all binary <uri0>

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
all	Gather detailed information for troubleshooting
binary	Gather tech support for all applications in binary format
<i>uri0</i>	Select destination filesystem to save the binary output (NOTE: The output file name will be automatically generated and cannot be chosen)

Command Mode

- /exec

show tech-support analytics

show tech-support analytics [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
analytics	Show Analytics tech-support information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support arp

show tech-support arp [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
arp	Display ARP information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support ascii-cfg

show tech-support ascii-cfg

Syntax Description

show	Show running system information
tech-support	Show information for technical support personnel
ascii-cfg	Show ascii-cfg information for technical support personnel

Command Mode

- /exec

show tech-support bcm

show tech-support bcm

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
bcm	bcm hardware info

Command Mode

- /exec

show tech-support bfd

show tech-support bfd

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
bfd	BFD commands

Command Mode

- /exec

show tech-support bgp

show tech-support bgp [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
bgp	Display BGP status and configuration
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support biosd

show tech-support biosd

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
biosd	Gather bios install log for trouble shooting

Command Mode

- /exec

show tech-support bloggerd-all

show tech-support bloggerd-all

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
bloggerd-all	Gather detailed information for bloggerd troubleshooting from ALL modules

Command Mode

- /exec

show tech-support bloggerd

show tech-support bloggerd

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
bloggerd	Gather detailed information for bloggerd troubleshooting

Command Mode

- /exec

show tech-support bootvar

show tech-support bootvar

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
bootvar	Gather detailed information for bootvar troubleshooting

Command Mode

- /exec

show tech-support brief

show tech-support brief

Syntax Description

show	Show running system summary information
tech-support	Gather information for troubleshooting
brief	Gather summary information for troubleshooting

Command Mode

- /exec

show tech-support callhome

show tech-support callhome

Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting
callhome	callhome troubleshooting information

Command Mode

- /exec

show tech-support cdp

show tech-support cdp

Syntax Description

show	show running system information
tech-support	Gather information for troubleshooting
cdp	Gather information for CDP trouble shooting

Command Mode

- /exec

show tech-support cert-enroll

show tech-support cert-enroll

Syntax Description

show	show commands
tech-support	Gather information for troubleshooting
cert-enroll	Display certificates information

Command Mode

- /exec

show tech-support cfs

```
show tech-support cfs [ { commands | name <cfs-dyn-app-name> [ commands1 ] } ]
```

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
cfs	Gather detailed information for cfs troubleshooting
commands	(Optional) CFS show tech commands
name	(Optional) Gather detailed information of cfs for a specified application
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
commands1	(Optional) CFS application show tech commands

Command Mode

- /exec

show tech-support cli

show tech-support cli

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
cli	Gather information for parser troubleshooting

Command Mode

- /exec

show tech-support clis

show tech-support clis [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
clis	Gather information for CLI Server troubleshooting
brief	(Optional) Detailed information

Command Mode

- /exec

show tech-support clock_manager

show tech-support clock_manager

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
clock_manager	Gather detailed information for clock manager troubleshooting

Command Mode

- /exec

show tech-support commands

show tech-support commands

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
commands	Show commands executed as part of show tech-support commands

Command Mode

- /exec

show tech-support controller

show tech-support controller

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
controller	Gather information for Controller troubleshooting

Command Mode

- /exec

show tech-support copp

show tech-support copp

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
copp	Gather information for copp trouble shooting

Command Mode

- /exec

show tech-support dcbx

show tech-support dcbx

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
dcbx	Gather detailed information for DCBX component

Command Mode

- /exec

show tech-support details

show tech-support details [space-optimized]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
details	Gather detailed information for troubleshooting
space-optimized	(Optional) Gather tech-support info. using less memory and disk space

Command Mode

- /exec

show tech-support dhclient

show tech-support dhclient

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
dhclient	Gather information for dhclient trouble shooting

Command Mode

- /exec

show tech-support dhcp

show tech-support dhcp

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
dhcp	Gather detailed information for dhcp troubleshooting

Command Mode

- /exec

show tech-support dme

show tech-support dme

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
dme	Gather detailed information for dme troubleshooting

Command Mode

- /exec

show tech-support dot1x

show tech-support dot1x

Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting
dot1x	Display dot1x information

Command Mode

- /exec

show tech-support eem

show tech-support eem

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
eem	Show EEM tech-support information

Command Mode

- /exec

show tech-support eigrp

show tech-support eigrp [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
eigrp	Display EIGRP status and configuration
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support eltm

show tech-support eltm [detail]

Syntax Description

show	show tech-support
tech-support	Gather information for trouble-shooting
eltm	eltm debug info
detail	(Optional) Detailed information

Command Mode

- /exec

show tech-support ethpm

show tech-support ethpm

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ethpm	Gather detailed information for ETHPM troubleshooting

Command Mode

- /exec

show tech-support evb

show tech-support evb

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
evb	EVB (Edge Virtual Bridge)

Command Mode

- /exec

show tech-support fabric forwarding

show tech-support fabric forwarding

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)

Command Mode

- /exec

show tech-support fabricpath isis

show tech-support fabricpath isis [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
fabricpath	fabricpath information
isis	Fabricpath IS-IS information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support fabricpath topology

show tech-support fabricpath topology [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fabricpath	Gather detailed information for Fabricpath troubleshooting
topology	Gather detailed information for Topology troubleshooting
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support fast-reload

show tech-support fast-reload

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fast-reload	Gather information for troubleshooting fast-reload timings

Command Mode

- /exec

show tech-support fex

show tech-support fex { <fexid> | all }

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fex	Gather detailed information for FEX troubleshooting
<i>fexid</i>	Enter fex number
all	Gather detailed information for all FEX

Command Mode

- /exec

show tech-support fips

show tech-support fips

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fips	show tech support information for security

Command Mode

- /exec

show tech-support forwarding l2 multicast

show tech-support forwarding l2 multicast

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l2	layer 2 debug information
multicast	multicast

Command Mode

- /exec

show tech-support forwarding l2 multicast vdc-all

show tech-support forwarding l2 multicast vdc-all

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l2	layer 2 debug information
multicast	multicast
vdc-all	vdc-all

Command Mode

- /exec

show tech-support forwarding l2 unicast

show tech-support forwarding l2 unicast [module <module>]

Syntax Description

show	show tech-support
tech-support	Gather information for trouble-shooting
forwarding	Forwarding debug info
l2	layer 2 debug info
unicast	unicast
module	(Optional) Slot number
<i>module</i>	(Optional) Module Number

Command Mode

- /exec

show tech-support forwarding l3 multicast

show tech-support forwarding l3 multicast

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
multicast	multicast

Command Mode

- /exec

show tech-support forwarding l3 multicast detail

show tech-support forwarding l3 multicast detail

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
multicast	multicast
detail	detail

Command Mode

- /exec

show tech-support forwarding l3 multicast detail vdc-all

show tech-support forwarding l3 multicast detail vdc-all

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
multicast	multicast
detail	detail
vdc-all	vdc-all

Command Mode

- /exec

show tech-support forwarding l3 multicast vdc-all

show tech-support forwarding l3 multicast vdc-all

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
multicast	multicast
vdc-all	vdc-all

Command Mode

- /exec

show tech-support forwarding l3 unicast

show tech-support forwarding l3 unicast [module <module>]

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
unicast	unicast
module	(Optional) module
<i>module</i>	(Optional) module number

Command Mode

- /exec

show tech-support forwarding l3 unicast detail

show tech-support forwarding l3 unicast detail [module <module>]

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
unicast	unicast
detail	detailed show tech including platform commands
module	(Optional) module
<i>module</i>	(Optional) module number

Command Mode

- /exec

show tech-support forwarding l3 unicast detail vdc-all

show tech-support forwarding l3 unicast detail vdc-all [module <module>]

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
unicast	unicast
detail	detailed show tech including platform commands
vdc-all	vdc-all
module	(Optional) module
<i>module</i>	(Optional) module number

Command Mode

- /exec

show tech-support forwarding l3 unicast vdc-all

show tech-support forwarding l3 unicast vdc-all [module <module>]

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
l3	layer 3 debug information
unicast	unicast
vdc-all	vdc-all
module	(Optional) module
<i>module</i>	(Optional) module number

Command Mode

- /exec

show tech-support forwarding mpls

show tech-support forwarding mpls [module <module>]

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
mpls	mpls related information
module	(Optional) module
<i>module</i>	(Optional) module number

Command Mode

- /exec

show tech-support forwarding multicast

show tech-support forwarding multicast [module <module>]

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
multicast	multicast
module	(Optional) module
<i>module</i>	(Optional) module number

Command Mode

- /exec

show tech-support forwarding otv multicast vdc-all

show tech-support forwarding otv multicast vdc-all

Syntax Description

show	
tech-support	tech-support information
forwarding	forwarding debug information
otv	OTV debug information
multicast	multicast
vdc-all	vdc-all

Command Mode

- /exec

show tech-support gold

show tech-support gold

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
gold	Show gold tech-support information

Command Mode

- /exec

show tech-support gpixm

show tech-support gpixm

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
gpixm	Gather detailed information for GLOBAL-PIXM troubleshooting

Command Mode

- /exec

show tech-support ha

show tech-support ha [commands]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ha	Gather detailed information for HA troubleshooting
commands	(Optional) Show commands executed as part of show tech-support ha commands

Command Mode

- /exec

show tech-support ha module

show tech-support ha module <module>

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ha	Gather detailed information for HA troubleshooting
module	Gather info related to a module
<i>module</i>	Enter module number

Command Mode

- /exec

show tech-support ha standby

show tech-support ha standby [commands]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ha	Gather detailed information for HA troubleshooting
standby	Gather detailed information for HA troubleshooting from standby supervisor
commands	(Optional) Show commands executed as part of show tech-support ha commands

Command Mode

- /exec

show tech-support hsrp

show tech-support hsrp

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
hsrp	Show hsrp tech-support information

Command Mode

- /exec

show tech-support hsrp brief

show tech-support hsrp brief

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
hsrp	Show hsrp tech-support information
brief	Show tech-support information in brief

Command Mode

- /exec

show tech-support icmpv6

show tech-support icmpv6 [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
icmpv6	Display Icmpv6 information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support im

show tech-support im

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
im	Gather detailed information for IM troubleshooting

Command Mode

- /exec

show tech-support inband counters

show tech-support inband counters

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
inband	Gather all information about inband data path
counters	Gather all counters in inband data path

Command Mode

- /exec

show tech-support include-time

show tech-support include-time

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
include-time	Gather tech-support and capture time taken to execute each command

Command Mode

- /exec

show tech-support install

show tech-support install

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
install	Gather detailed information for rpm/package install operation

Command Mode

- /exec

show tech-support interface-vlan

show tech-support interface-vlan

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
interface-vlan	Gather detailed information for interface-vlan troubleshooting

Command Mode

- /exec

show tech-support ip

show tech-support ip [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Display IP information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support ip igmp

show tech-support ip igmp [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Display IP information
igmp	Display IGMP status and configuration
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support ip igmp snooping

show tech-support ip igmp snooping [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support ip msdp

show tech-support ip msdp [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Display IP information
msdp	Display MSDP status and configuration
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support ip pim

show tech-support ip pim [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Display IP information
pim	PIM global configuration commands
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support ip rsvp

show tech-support ip rsvp [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Configure IP features
rsvp	RSVP configuration commands
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support ipqos

```
show tech-support ipqos [ server-only ] [ all ] [ snmp ]
```

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
server-only	(Optional) Dump the tech-support information only from IP QoS Manager server only
all	(Optional) Dump the tech-support information IP QoS Manager plus brief summary of system
snmp	(Optional) Dump the tech-support information only from IP QoS Manager server only (SNMP only)

Command Mode

- /exec

show tech-support ipv6

show tech-support ipv6 [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ipv6	Display IPV6 information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support ipv6 multicast

show tech-support ipv6 multicast

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ipv6	Display IPv6 information
multicast	Display V6 Multicast information

Command Mode

- /exec

show tech-support ipv6 pim

show tech-support ipv6 pim [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ipv6	Display IPv6 information
pim	PIM6 global configuration commands
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support isis

show tech-support isis [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
isis	IS-IS events
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support issu

show tech-support issu [commands]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
issu	Gather detailed information for issu troubleshooting
commands	(Optional) Show commands executed as part of show tech-support issu command

Command Mode

- /exec

show tech-support kstack

show tech-support kstack

Syntax Description

show	
tech-support	tech-support information
kstack	kstack information

Command Mode

- /exec

show tech-support l2

show tech-support l2

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
l2	Gather detailed information for layer 2 troubleshooting

Command Mode

- /exec

show tech-support l2fm

show tech-support l2fm

Syntax Description

show	show tech-support
tech-support	Gather information for trouble-shooting
l2fm	l2fm debug info

Command Mode

- /exec

show tech-support l2fm clients

show tech-support l2fm clients [module <module>]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
l2fm	l2fm debug info
clients	debug info of l2fm clients only running on linecard(mtm)
module	(Optional) Slot number
<i>module</i>	(Optional) Module Number

Command Mode

- /exec

show tech-support l2fm detail

show tech-support l2fm detail [module <module>]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
l2fm	l2fm debug info
detail	All info related to l2fm
module	(Optional) Slot number
<i>module</i>	(Optional) Module Number

Command Mode

- /exec

show tech-support l2fm l2dbg

show tech-support l2fm l2dbg [module <module>]

Syntax Description

show	show tech-support
tech-support	Gather information for trouble-shooting
l2fm	l2fm debug info
l2dbg	tech support capturing additional debug info for l2fm(l2dbg)
module	(Optional) Slot number
<i>module</i>	(Optional) Module Number

Command Mode

- /exec

show tech-support l2fm l2dbg

show tech-support l2fm l2dbg [module <module>]

Syntax Description

show	show tech-support
tech-support	Gather information for trouble-shooting
l2fm	l2fm debug info
l2dbg	tech support capturing additional debug info for l2fm(l2dbg)
module	(Optional) Slot number
<i>module</i>	(Optional) Module Number

Command Mode

- /exec

show tech-support l2rib

show tech-support l2rib

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
l2rib	Display L2RIB information

Command Mode

- /exec

show tech-support l3vm

show tech-support l3vm [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
l3vm	Display VRF information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support l3vpn

show tech-support l3vpn [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
l3vpn	BGP l3vpn information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support lacp

show tech-support lacp [all]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
lacp	Gather detailed information for LACP component
all	(Optional) Gather detailed information of LACP and related components

Command Mode

- /exec

show tech-support ldap

show tech-support ldap

Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting
ldap	Display ldap information

Command Mode

- /exec

show tech-support license

show tech-support license

Syntax Description

show	show commands
tech-support	Gather information for troubleshooting
license	Display licensing information

Command Mode

- /exec

show tech-support lim

show tech-support lim

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
lim	Gather detailed information for LIM troubleshooting

Command Mode

- /exec

show tech-support lisp

show tech-support lisp [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
lisp	LISP show commands
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support lldp

show tech-support lldp

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
lldp	Gather detailed information for LLDP troubleshooting

Command Mode

- /exec

show tech-support logging

show tech-support logging

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
logging	Show information on logging for technical support staff

Command Mode

- /exec

show tech-support m2rib

show tech-support m2rib

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
m2rib	Gather detailed information for M2RIB troubleshooting

Command Mode

- /exec

show tech-support macsec

show tech-support macsec

Syntax Description

tech-support	Gather information for troubleshooting
macsec	Gather information for macsec troubleshooting

Command Mode

- /exec

show tech-support mfwd

show tech-support mfwd [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mfwd	Display MCASTFWD status and configuration
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support mmode

show tech-support mmode

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mmode	Gather information for troubleshooting mmode

Command Mode

- /exec

show tech-support module

show tech-support module <module>

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
module	Gather info related to a module
<i>module</i>	Enter module number

Command Mode

- /exec

show tech-support module all

show tech-support module all

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
module	Gather info related to a module
all	Gather info related to all modules in the system

Command Mode

- /exec

show tech-support monitor

show tech-support monitor

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
monitor	Gather detailed information for monitor troubleshooting

Command Mode

- /exec

show tech-support monitor erspan

show tech-support monitor erspan

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
monitor	Gather detailed information for monitor troubleshooting
erspan	Gather detailed information for erspan session troubleshooting

Command Mode

- /exec

show tech-support monitorc-all

show tech-support monitorc-all

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
monitorc-all	Gather detailed information for LC MONITORC troubleshooting

Command Mode

- /exec

show tech-support mpls ldp

show tech-support mpls ldp [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mpls	Display MPLS status and configuration
ldp	Display LDP configuration and status for troubleshooting
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support mpls manager

{ show tech-support mpls manager }

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mpls	MPLS
manager	MPLS-Mgr

Command Mode

- /exec

show tech-support mpls static

show tech-support mpls static [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mpls	Display MPLS status and configuration
static	Display STATIC configuration and status for troubleshooting
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support mpls strip

show tech-support mpls strip

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
mpls	MPLS
strip	Gather MPLS label strip troubleshooting info

Command Mode

- /exec

show tech-support mpls switching

show tech-support mpls switching

Syntax Description

show	Show running system information
tech-support	Gather MPLS switching information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database

Command Mode

- /exec

show tech-support mpls traffic-eng

show tech-support mpls traffic-eng [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support mpls fwd

show tech-support mpls fwd [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mplsfwd	Display MPLS forwarding information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support multicast-vxlan-evpn

show tech-support multicast-vxlan-evpn

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
multicast-vxlan-evpn	Multicast VxLAN EVPN feature

Command Mode

- /exec

show tech-support multicast

show tech-support [ip | ipv4] multicast

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display V4 Multicast information

Command Mode

- /exec

show tech-support mvpn

show tech-support mvpn [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mvpn	Display Multicast VPN information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support nat

show tech-support nat

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
nat	Gather information for troubleshooting NAT

Command Mode

- /exec

show tech-support nbm

show tech-support nbm [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble-shooting
nbm	Non Blocking Multicast
brief	(Optional) Minimal information

Command Mode

- /exec

show tech-support netflow

show tech-support netflow [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
netflow	Show NetFlow tech-support information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support netstack

show tech-support netstack

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
netstack	Gather information for NETSTACK troubleshooting

Command Mode

- /exec

show tech-support netstack detail

show tech-support netstack detail

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
netstack	Gather information for NETSTACK troubleshooting
detail	Gather detailed information for NETSTACK troubleshooting

Command Mode

- /exec

show tech-support ngoam

show tech-support ngoam

Syntax Description

show	Show running system information
tech-support	Gather information for trouble-shooting
ngoam	ngoam

Command Mode

- /exec

show tech-support npacl

show tech-support npacl [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
npacl	Display npacl information
brief	(Optional) Brief npacl information

Command Mode

- /exec

show tech-support ns

show tech-support ns

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ns	Gather detailed information for northstar asic

Command Mode

- /exec

show tech-support ntp

show tech-support ntp

Syntax Description

show	show running system information
tech-support	Gather information for trouble shooting
ntp	Gather information for NTP trouble shooting

Command Mode

- /exec

show tech-support nve

show tech-support nve

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
nve	Display NVE information

Command Mode

- /exec

show tech-support nxsdk

show tech-support nxsdk

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
nxsdk	NXOS SDK

Command Mode

- /exec

show tech-support object-store user

show tech-support object-store user <username>

Syntax Description

show	Show Object Store
tech-support	Gather information for troubleshooting
object-store	Gather information from object store for Controller troubleshooting
user	nxapi username
<i>username</i>	nxapi username

Command Mode

- /exec

show tech-support onep

show tech-support onep

Syntax Description

show	Show running system information
tech-support	Diagnostic information for technical support
onep	One Platform

Command Mode

- /exec

show tech-support ospf

show tech-support ospf [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ospf	Display OSPF status and configuration
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support ospfv3

show tech-support ospfv3 [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ospfv3	Display OSPFv3 status and configuration
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support otv

show tech-support otv [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
otv	Display OTV information
brief	(Optional) Brief OTV information

Command Mode

- /exec

show tech-support otv isis

show tech-support otv isis [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
otv	IS-IS events
isis	IS-IS events
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support page

show tech-support page [time-optimized] [forced]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
page	Page through the output
time-optimized	(Optional) Gather tech-support faster, requires more memory and disk space
forced	(Optional) Do not check for standby being present

Command Mode

- /exec

show tech-support patch

show tech-support patch

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
patch	Gather detailed information for patch troubleshooting

Command Mode

- /exec

show tech-support pbr

{ show tech-support pbr }

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pbr	Display Policy Based Routing (PBR) information

Command Mode

- /exec

show tech-support pfstat

show tech-support pfstat

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pfstat	Gather detailed information for pfstat troubleshooting

Command Mode

- /exec

show tech-support pixm-all

show tech-support pixm-all

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pixm-all	Gather detailed information for PIXM troubleshooting

Command Mode

- /exec

show tech-support pixm

show tech-support pixm

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pixm	Gather detailed information for vdc-local-PIXM troubleshooting

Command Mode

- /exec

show tech-support pixmc-all

show tech-support pixmc-all

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pixmc-all	Gather detailed information for LC PIXMC troubleshooting

Command Mode

- /exec

show tech-support pktmgr

show tech-support pktmgr [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pktmgr	Display Packet Manager information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support platform-sdk

show tech-support platform-sdk

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
platform-sdk	Gather detailed information for platform-sdk troubleshooting

Command Mode

- /exec

show tech-support platform

show tech-support platform

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
platform	Get platform related information

Command Mode

- /exec

show tech-support plcmgr

show tech-support plcmgr [detail]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
plcmgr	Policy Manager
detail	(Optional) Print more details (e.g. messages,etc)

Command Mode

- /exec

show tech-support pltfm-config

show tech-support pltfm-config

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pltfm-config	Gather detailed information for pltfm-config troubleshooting

Command Mode

- /exec

show tech-support port-channel

show tech-support port-channel

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
port-channel	Gather detailed information for port channel troubleshooting

Command Mode

- /exec

show tech-support port-client-all

show tech-support port-client-all

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
port-client-all	Gather detailed information for LC port client troubleshooting

Command Mode

- /exec

show tech-support port-profile

show tech-support port-profile

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
port-profile	Gather information for troubleshooting port-profiles

Command Mode

- /exec

show tech-support port-security

show tech-support port-security

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
port-security	Port security related command

Command Mode

- /exec

show tech-support port

show tech-support port

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
port	Gather detailed information for port manager troubleshooting

Command Mode

- /exec

show tech-support private-vlan

show tech-support private-vlan

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
private-vlan	Gather detailed information for private-vlan troubleshooting

Command Mode

- /exec

show tech-support ptp

show tech-support ptp

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ptp	Gather detailed information for PTP troubleshooting

Command Mode

- /exec

show tech-support radius

show tech-support radius

Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting
radius	Display radius information

Command Mode

- /exec

show tech-support rip

show tech-support rip [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
rip	Display RIP routing protocol status
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support routing

show tech-support routing [ip | ipv4] [unicast] [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast routing information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support routing ipv6

show tech-support routing ipv6 [unicast] [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast routing information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support routing ipv6 multicast

show tech-support routing ipv6 multicast [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
routing	Display routing information
ipv6	Display IPv6 information
multicast	Display V6 Multicast information
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support routing multicast

show tech-support routing [ip | ipv4] multicast [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
multicast	Display V4 Multicast information
brief	(Optional) Display brief information

Command Mode

- /exec

show tech-support rpm

```
{ show tech-support rpm }
```

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
rpm	Display Route Policy Manager (RPM) information

Command Mode

- /exec

show tech-support sal

show tech-support sal

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
sal	Show SAL tech-support information

Command Mode

- /exec

show tech-support satmgr

show tech-support satmgr

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
satmgr	Gather detailed information for satmgr troubleshooting

Command Mode

- /exec

show tech-support security

show tech-support security

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
security	show tech support information for security

Command Mode

- /exec

show tech-support services

show tech-support services [detail]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
services	Services
detail	(Optional) Show more details

Command Mode

- /exec

show tech-support services

show tech-support services [detail]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
services	Services
detail	(Optional) Show more details

Command Mode

- /exec

show tech-support session-mgr

show tech-support session-mgr

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
session-mgr	Gather information for troubleshooting session manager

Command Mode

- /exec

show tech-support sflow

show tech-support sflow

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
sflow	Gather detailed information for sflow feature

Command Mode

- /exec

show tech-support single-jericho

show tech-support single-jericho

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
single-jericho	Gather detailed information for single-jericho troubleshooting

Command Mode

- /exec

show tech-support sksd

show tech-support sksd

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
sksd	show tech support information for sksd

Command Mode

- /exec

show tech-support sla responder

show tech-support sla responder [brief | detail]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
sla	Service Level Agreement (SLA)
responder	Configure sla-responder tech support
brief	(Optional) Show less details
detail	(Optional) Show more details

Command Mode

- /exec

show tech-support sla sender

show tech-support sla sender [brief | detail]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
sla	Service Level Agreement (SLA)
sender	Configure sla-sender tech support
brief	(Optional) Show less details
detail	(Optional) Show more details

Command Mode

- /exec

show tech-support smm

show tech-support smm

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
smm	Shared memory

Command Mode

- /exec

show tech-support snmp

show tech-support snmp

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
snmp	Gather info related to snmp

Command Mode

- /exec

show tech-support sockets

show tech-support sockets [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
sockets	Display sockets status and configuration
brief	(Optional) Brief information

Command Mode

- /exec

show tech-support spm

show tech-support spm [<application>] [detail]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
spm	Service Policy Manager
<i>application</i>	(Optional) Specify an application
detail	(Optional) Print more details (e.g. messages,etc)

Command Mode

- /exec

show tech-support statsclient

show tech-support statsclient [module <module>]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
statsclient	Gather statsclient tech-support
module	(Optional) Gather info related to one module
<i>module</i>	(Optional) Enter module number

Command Mode

- /exec

show tech-support stp

show tech-support stp

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
stp	Gather detailed information for STP troubleshooting

Command Mode

- /exec

show tech-support sup-filesys

show tech-support sup-filesys

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
sup-filesys	File-sys related issue

Command Mode

- /exec

show tech-support sysmgr

show tech-support sysmgr [commands]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
sysmgr	Gather detailed information for sysmgr troubleshooting
commands	(Optional) Show commands executed as part of show tech-support sysmgr

Command Mode

- /exec

show tech-support tacacs

show tech-support tacacs +

Syntax Description

show	show tech-support
tech-support	Gather information for troubleshooting

Command Mode

- /exec

show tech-support telemetry

show tech-support telemetry

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
telemetry	Gather information for telemetry troubleshooting

Command Mode

- /exec

show tech-support track

show tech-support track

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
track	Show track tech-support information

Command Mode

- /exec

show tech-support tunnel

```
show tech-support tunnel [ { commands | detail [ commands1 ] } ]
```

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
tunnel	Gather detailed information for tunnel troubleshooting
commands	(Optional) Lists commands under 'show tunnel tech-support' command
detail	(Optional) Gather detailed information for tunnel troubleshooting
commands1	(Optional) Lists commands under 'Show tech-support tunnel detail' commands

Command Mode

- /exec

show tech-support udd

show tech-support udd

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
udd	Gather detailed information for udd troubleshooting

Command Mode

- /exec

show tech-support usd-all

show tech-support usd-all

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
usd-all	Gather detailed information for LC USD troubleshooting

Command Mode

- /exec

show tech-support vdc

show tech-support vdc

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vdc	Gather detailed information for VDC troubleshooting

Command Mode

- /exec

show tech-support virtual-service

show tech-support virtual-service

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
virtual-service	Gather information for virtualization services trouble shooting

Command Mode

- /exec

show tech-support vlan

show tech-support vlan

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vlan	Gather detailed information for VLAN troubleshooting

Command Mode

- /exec

show tech-support vmtracker

show tech-support vmtracker

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vmtracker	VMTRACKER commands

Command Mode

- /exec

show tech-support vntag

show tech-support vntag

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vntag	Gather detailed information for VNTAG troubleshooting

Command Mode

- /exec

show tech-support vpc

show tech-support vpc

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vpc	Gather detailed information for VPC troubleshooting

Command Mode

- /exec

show tech-support vpc app-only

show tech-support vpc app-only

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vpc	Gather detailed information for VPC troubleshooting
app-only	VPC specific commands only

Command Mode

- /exec

show tech-support vpc vxlan

show tech-support vpc vxlan

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vpc	Gather detailed information for VPC troubleshooting
vxlan	Also include vxlan related components (NVE, VNSEG)

Command Mode

- /exec

show tech-support vrrp

show tech-support vrrp

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vrrp	Show information for vrrp technical support

Command Mode

- /exec

show tech-support vrrp brief

show tech-support vrrp brief

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vrrp	Show information for vrrp technical support
brief	Show information for vrrp technical support in brief

Command Mode

- /exec

show tech-support vrrpv3

show tech-support vrrpv3 [detail]

Syntax Description

vrrpv3	VRRPv3 configuration commands
show	Show running system information
tech-support	Gather information for trouble shooting
detail	(Optional) Detailed output

Command Mode

- /exec

show tech-support vshd

show tech-support vshd

Syntax Description

show	Show running system information
tech-support	Show information for technical support
vshd	Show vshd information for technical support

Command Mode

- /exec

show tech-support vtp

show tech-support vtp

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vtp	Gather detailed information for vtp troubleshooting

Command Mode

- /exec

show tech-support vxlan-evpn

show tech-support vxlan-evpn

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
vxlan-evpn	VxLAN evpn feature

Command Mode

- /exec

show tech-support vxlan

show tech-support vxlan

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
vxlan	VxLAN feature

Command Mode

- /exec

show tech-support vxlan platform

show tech-support vxlan platform

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vxlan	VxLAN components
platform	VxLAN platform components

Command Mode

- /exec

show tech-support xbar

show tech-support xbar

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
xbar	Show xbar tech-support information

Command Mode

- /exec

show tech-support xml

show tech-support xml

Syntax Description

show	show running system information
tech-support	Gather information for trouble shooting
xml	Gather information for xml trouble shooting

Command Mode

- /exec

show telemetry control database

```
show telemetry control { database [ subscriptions | destination-groups | destinations | sensor-paths | sensor-groups ] | stats }
```

Syntax Description

show	Show running system information
telemetry	Show telemetry info
control	Show telemetry control
database	Show database
subscriptions	(Optional) Show subscriptions
destination-groups	(Optional) Show destination-groups
destinations	(Optional) Show destinations
sensor-paths	(Optional) Show sensor-paths
sensor-groups	(Optional) Show sensor-groups
stats	Show stats

Command Mode

- /exec

show telemetry data collector brief

show telemetry data collector { brief | details }

Syntax Description

show	Show running system information
telemetry	Show telemetry info
data	Show telemetry data info
collector	Show telemetry data collector info
brief	Show component level data collection stats
details	Show path level data collection stats

Command Mode

- /exec

show telemetry event collector stats

show telemetry event collector { stats | errors }

Syntax Description

show	Show running system information
telemetry	Show telemetry info
event	Show telemetry event info
collector	Show telemetry event collector info
stats	Show all tm stat info
errors	Show all tm error info

Command Mode

- /exec

show telemetry pipeline stats

show telemetry pipeline stats

Syntax Description

show	Show running system information
telemetry	Show telemetry info
pipeline	Show telemetry pipeline info
stats	Show all telemetry pipeline stats

Command Mode

- /exec

show telemetry transport

```
show telemetry transport [ <session_id> [ { stats | errors } ] ]
```

Syntax Description

show	Show running system information
telemetry	Show telemetry info
transport	Show telemetry event info
<i>session_id</i>	(Optional) Session id
stats	(Optional) Show all tm stat info
errors	(Optional) Show all tm error info

Command Mode

- /exec

show telnet server

```
show telnet server [ __readonly__ { operation_status <o_status> } ]
```

Syntax Description

show	Show running system information
telnet	Show telnet server configuration
server	Show telnet server configuration
__readonly__	(Optional)
operation_status	(Optional) run-time information about telnet
<i>o_status</i>	(Optional) operational status of telnet server

Command Mode

- /exec

show terminal

show terminal

Syntax Description

show	Show running system information
terminal	Display terminal configuration parameters

Command Mode

- /exec

show terminal output xml version

show terminal output xml version

Syntax Description

show	Show running system information
terminal	Display
output	Display
xml	Display
version	Display

Command Mode

- /exec

show time-range

```
show time-range [ <name> ] [ __readonly__ TABLE_timerange <timerange_name> <active> [ TABLE_seqno
<seqno> { { absolute [ <start_abs_h> <start_abs_m> <start_abs_s> <start_abs_d> <start_abs_mon>
<start_abs_y> ] [ <end_abs_h> <end_abs_m> <end_abs_s> <end_abs_d> <end_abs_mon> <end_abs_y> ]
} | { periodic { Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday | daily | weekdays |
weekend } + <start_per_h> <start_per_m> <start_per_s> [ <eday> ] <end_per_h> <end_per_m> <end_per_s>
} | { <remark> } } ] ] ]
```

Syntax Description

show	Show running system information
time-range	Define time range entries
<i>name</i>	(Optional) Time range name
<i>__readonly__</i>	(Optional)
TABLE_timerange	(Optional)
<i>timerange_name</i>	(Optional)
<i>active</i>	(Optional) active
TABLE_seqno	(Optional)
<i>seqno</i>	(Optional) Sequence number
absolute	(Optional)
periodic	(Optional)
<i>remark</i>	(Optional)
<i>start_abs_h</i>	(Optional)
<i>start_abs_m</i>	(Optional)
<i>start_abs_s</i>	(Optional)
<i>start_abs_d</i>	(Optional)
<i>start_abs_mon</i>	(Optional)
<i>start_abs_y</i>	(Optional)
<i>end_abs_h</i>	(Optional)
<i>end_abs_m</i>	(Optional)
<i>end_abs_s</i>	(Optional)
<i>end_abs_d</i>	(Optional)

<i>end_abs_mon</i>	(Optional)
<i>end_abs_y</i>	(Optional)
Monday	(Optional) Monday
Tuesday	(Optional) Tuesday
Wednesday	(Optional) Wednesday
Thursday	(Optional) Thursday
Friday	(Optional) Friday
Saturday	(Optional) Saturday
Sunday	(Optional) Sunday
daily	(Optional) Every day of the week
weekdays	(Optional) Monday thru Friday
weekend	(Optional) Saturday and Sunday
<i>start_per_h</i>	(Optional)
<i>start_per_m</i>	(Optional)
<i>start_per_s</i>	(Optional)
<i>eday</i>	(Optional) Day of the week
<i>end_per_h</i>	(Optional)
<i>end_per_m</i>	(Optional)
<i>end_per_s</i>	(Optional)

Command Mode

- /exec

show track

```
show track { [ <object-id> | interface | ip { route | sla } | ipv6 routev6 | list boolean and | list boolean or | list
threshold weight | list threshold percentage ] } [ __readonly__ <show_track_start> { TABLE_track_detail
<st_obj_id> <st_obj_type> <st_obj_instance> <st_obj_param> <st_obj_state> <st_obj_chg_cnt>
<st_last_chg_time> <st_threshold_info> <st_track_list_obj> <st_obj_up_delay> <st_obj_down_delay>
<st_obj_timer_value> <st_vrf> <st_ipsla_rcode> <st_ipsla_rt> <show_track_clnt_hdr>
<show_track_clnt_start> { TABLE_track_clnt_info <st_client_name> <st_client_iface> <st_client_group_id>
<st_client_detail> } <show_track_clnt_end> <st_track_list_info> } <show_track_end> ]
```

Syntax Description

show	Negate a command or set its defaults
track	Tracking information
<i>object-id</i>	(Optional) Tracked object
interface	(Optional) Interface objects
ip	(Optional) IPv4 Protocol objects
route	(Optional) route (ipv4) objects
sla	(Optional) Service Level Agreement objects
ipv6	(Optional) IPv6 Protocol objects
routev6	(Optional) route (ipv6) objects
list	(Optional) Tracklist objects
boolean	(Optional) Boolean Traclist
and	(Optional) AND boolean objects
or	(Optional) OR boolean objects
threshold	(Optional) Threshold parameters
weight	(Optional) Threshold weight
percentage	(Optional) Threshold percentage
__readonly__	(Optional) Read only
<i>show_track_start</i>	(Optional) Show track start
TABLE_track_detail	(Optional) Track table detail
<i>st_obj_id</i>	(Optional) Object id
<i>st_obj_type</i>	(Optional) Object Type
<i>st_obj_instance</i>	(Optional) Object instance

<i>st_obj_param</i>	(Optional) Object parameter
<i>st_obj_state</i>	(Optional) Object status
<i>st_obj_chg_cnt</i>	(Optional) Count of Object state changes
<i>st_last_chg_time</i>	(Optional) Timestamp of last change
<i>st_threshold_info</i>	(Optional) Threshold Parameters
<i>st_track_list_obj</i>	(Optional) Objects part of this list
<i>show_track_clnt_hdr</i>	(Optional) Tracked by:
<i>show_track_clnt_start</i>	(Optional) Show track client start
TABLE_track_clnt_info	(Optional) Track client info
<i>st_client_name</i>	(Optional) Tracking client name
<i>st_client_iface</i>	(Optional) Tracking client interface
<i>st_client_group_id</i>	(Optional) Client group id
<i>st_client_detail</i>	(Optional) Tracking client detail
<i>show_track_clnt_end</i>	(Optional) End of track client
<i>st_track_list_info</i>	(Optional) Track list info
<i>st_obj_up_delay</i>	(Optional) Delay up notification
<i>st_obj_down_delay</i>	(Optional) Delay down notification
<i>st_obj_timer_value</i>	(Optional) Current value of timer
<i>st_vrf</i>	(Optional) VRF
<i>st_ipsla_rcode</i>	(Optional) IP SLA Return Code
<i>st_ipsla_rtt</i>	(Optional) IP SLA RTT
<i>show_track_end</i>	(Optional) End of Track

Command Mode

- /exec

show track brief

```
show track { [ <object-id> | interface | ip { route | sla } | ipv6 routev6 | list boolean and | list boolean or | list
threshold weight | list threshold percentage ] } brief [ __readonly__ { <show_track_brf_start>
<show_track_brf_all_begin> { TABLE_track_brief<st_brf_obj_id><st_brf_obj_type><st_brf_obj_instance>
<st_brf_obj_param><st_brf_obj_state><st_brf_last_chg_time> } <show_track_brf_end> } ]
```

Syntax Description

show	Negate a command or set its defaults
track	Tracking information
<i>object-id</i>	(Optional) Tracked object
interface	(Optional) Interface objects
ip	(Optional) IPv4 Protocol objects
route	(Optional) route (ipv4) objects
sla	(Optional) Service Level Agreement objects
ipv6	(Optional) IPv6 Protocol objects
routev6	(Optional) route (ipv6) objects
list	(Optional) Tracklist objects
boolean	(Optional) Boolean Traclist
and	(Optional) AND boolean objects
or	(Optional) OR boolean objects
threshold	(Optional) Threshold parameters
weight	(Optional) Threshold weight
percentage	(Optional) Threshold percentage
brief	Brief output
<i>__readonly__</i>	(Optional) Read only
<i>show_track_brf_start</i>	(Optional) Show track brief start
<i>show_track_brf_all_begin</i>	(Optional) Start of all brief
TABLE_track_brief	(Optional) Track table brief
<i>st_brf_obj_id</i>	(Optional) Object id
<i>st_brf_obj_type</i>	(Optional) Object Type

<i>st_brf_obj_instance</i>	(Optional) Object instance
<i>st_brf_obj_param</i>	(Optional) Object parameter
<i>st_brf_obj_state</i>	(Optional) Object status
<i>st_brf_last_chg_time</i>	(Optional) Timestamp of last change
<i>show_track_brf_end</i>	(Optional) End of Group

Command Mode

- /exec

show ttag brief

```
show ttag brief [ __readonly__ { TABLE_ttag <ttag-ifindex> <state> } <ttag-end> ]
```

Syntax Description

<code>ttag</code>	enable ingress packet with ttag on this interface
<code>brief</code>	ttag port in brief list
<code>__readonly__</code>	(Optional) Read Only
<code>TABLE_ttag</code>	(Optional) ttag table
<code>ttag-ifindex</code>	(Optional) ttag ifindex
<code>ttag-end</code>	(Optional) End of table
<code>state</code>	(Optional) BMC state

Command Mode

- /exec

show tunnel iftable

```
show tunnel iftable [ <ifindex-in> ] [ __readonly__ TABLE-tunnelIfTable <ifindex-out>
<tunnelIfEncapsMethod> <tunnelIfHopLimit> <tunnelIfSecurity> <tunnelIfTOS> <tunnelIfFlowLabel>
<tunnelIfAddressType> <tunnelIfLocalInetAddress> <tunnelIfRemoteInetAddress> <tunnelIfEncapsLimit>
]
```

Syntax Description

show	Show running system information
tunnel	Show information about Tunnel
iftable	Show tunnel interface table
<i>ifindex-in</i>	(Optional) Tunnel ifindex
<i>__readonly__</i>	(Optional)
TABLE-tunnelIfTable	(Optional) Tunnel interface table
<i>ifindex-out</i>	(Optional) Tunnel ifindex
<i>tunnelIfEncapsMethod</i>	(Optional) Encapsulation Method
<i>tunnelIfHopLimit</i>	(Optional) Hop Limit
<i>tunnelIfSecurity</i>	(Optional) Security
<i>tunnelIfTOS</i>	(Optional) TOS
<i>tunnelIfFlowLabel</i>	(Optional) Flow Label
<i>tunnelIfAddressType</i>	(Optional) Address Type
<i>tunnelIfLocalInetAddress</i>	(Optional) Local IP Address
<i>tunnelIfRemoteInetAddress</i>	(Optional) Remote IP Address
<i>tunnelIfEncapsLimit</i>	(Optional) Encaps Limit

Command Mode

- /exec

show tunnel inetconfigtable

```
show tunnel inetconfigtable [ <tunnelInetConfigAddressType-in> [ [ <tunnelInetConfigLocalAddress-in> [
<tunnelInetConfigRemoteAddress-in> [ <tunnelInetConfigEncapsMethod-in> [ <tunnelInetConfigID-in> ]
] ] ] ] [ __readonly__ TABLE-tunnelInetConfigTable <tunnelInetConfigAddressType-out>
<tunnelInetConfigLocalAddress-out> <tunnelInetConfigRemoteAddress-out>
<tunnelInetConfigEncapsMethod-out> <tunnelInetConfigID-out> <tunnelInetConfigIfIndex>
<tunnelInetConfigStatus> <tunnelInetConfigStorageType> ]
```

Syntax Description

show	Show running system information
tunnel	Show information about Tunnel
inetconfigtable	Show inet config table
<i>tunnelInetConfigAddressType-in</i>	(Optional) Address Type
<i>tunnelInetConfigLocalAddress-in</i>	(Optional) Local IP Address
<i>tunnelInetConfigRemoteAddress-in</i>	(Optional) Remote IP Address
<i>tunnelInetConfigEncapsMethod-in</i>	(Optional) Encapsulation Method
<i>tunnelInetConfigID-in</i>	(Optional) Configuration ID
<i>__readonly__</i>	(Optional)
TABLE-tunnelInetConfigTable	(Optional) Tunnel Inet Config Table
<i>tunnelInetConfigAddressType-out</i>	(Optional) Address Type
<i>tunnelInetConfigLocalAddress-out</i>	(Optional) Local IP Address
<i>tunnelInetConfigRemoteAddress-out</i>	(Optional) Remote IP Address
<i>tunnelInetConfigEncapsMethod-out</i>	(Optional) Encapsulation Method
<i>tunnelInetConfigID-out</i>	(Optional) Configuration ID
<i>tunnelInetConfigIfIndex</i>	(Optional) If Index
<i>tunnelInetConfigStatus</i>	(Optional) Row Status
<i>tunnelInetConfigStorageType</i>	(Optional) Storage Type

Command Mode

- /exec



U Commands

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- [show ulib process](#), on page 2998
- [show user-account](#), on page 2999
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- [show userpassphrase](#), on page 3001
- [show users](#), on page 3002

show udd

```
show udd [ <if0> ] [ __readonly__ TABLE_interface <interface> <mib-port-status> <mib-oper-status>
<mib-aggressive-mode> <admin-port-mode> <operational-port-mode> <current-bidirectional-state>
<current-operational-state> <message-interval> <timeout-interval> <no-multiple-neighbor-detected>
TABLE_entry <entry-number> <expiration-time> <device-id> <neighbor-state> <device-name> <port-id>
<neighbor-echo-device-number> <neighbor-echo-device-name> <neighbor-echo-port-number>
<neighbor-echo-port-id> <neighbor-message-interval> <neighbor-timeout-interval> <cdp-device-name>
<pkt-xmt-rec-time> <pc-index> ]
```

Syntax Description

show	Show running system information
udd	UDLD status and configuration on one or all interfaces
<i>if0</i>	(Optional) Enter an interface name if only one single interface status is desired
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional)
<i>interface</i>	(Optional) Interface ID
<i>mib-port-status</i>	(Optional) Port MIB enable status
<i>mib-oper-status</i>	(Optional) Port MIB Operational status
<i>mib-aggressive-mode</i>	(Optional) Port MIB aggressive mode
<i>admin-port-mode</i>	(Optional) Port enable administration configuration setting
<i>operational-port-mode</i>	(Optional) Port enable operational state
<i>current-bidirectional-state</i>	(Optional) Current bidirectional state
<i>current-operational-state</i>	(Optional) Current operational state
<i>message-interval</i>	(Optional) UDLD probe message interval
<i>timeout-interval</i>	(Optional) UDLD detection timeout interval
<i>no-multiple-neighbor-detected</i>	(Optional) No multiple neighbor detected
TABLE_entry	(Optional) Neighbor entry info
<i>entry-number</i>	(Optional) Neighbor entry number
<i>expiration-time</i>	(Optional) Expiration time
<i>device-id</i>	(Optional) Device ID
<i>neighbor-state</i>	(Optional) Current neighbor state

<i>device-name</i>	(Optional) Device name
<i>port-id</i>	(Optional) Port ID
<i>neighbor-echo-device-number</i>	(Optional) Echo device number
<i>neighbor-echo-device-name</i>	(Optional) Echo device name
<i>neighbor-echo-port-number</i>	(Optional) Echo port number
<i>neighbor-echo-port-id</i>	(Optional) Echo port ID
<i>neighbor-message-interval</i>	(Optional) UDLD probe message interval
<i>neighbor-timeout-interval</i>	(Optional) UDLD detection timeout interval
<i>cdp-device-name</i>	(Optional) CDP Device name
<i>pkt-xmt-rec-time</i>	(Optional) Last UDLD packet send/rcv time
<i>pc-index</i>	(Optional) Port channel index

Command Mode

- /exec

show udd global

show udd global [__readonly__ <udd-global-mode> <message-interval>]

Syntax Description

show	Show running system information
udd	UDLD protocol
global	UDLD global status and configuration on all interfaces
__readonly__	(Optional)
<i>udd-global-mode</i>	(Optional) UDLD global configuration setting
<i>message-interval</i>	(Optional) UDLD probe message interval

Command Mode

- /exec

show udd neighbors

show udd neighbors [*__readonly__* *TABLE_entry* <local-port-id> <neighbor-echo-device-name> <device-id> <neighbor-echo-port-id> <neighbor-state>]

Syntax Description

show	Show running system information
udd	UDLD protocol
neighbors	UDLD neighbor interfaces
<i>__readonly__</i>	(Optional)
<i>TABLE_entry</i>	(Optional)
<i>local-port-id</i>	(Optional) Local port ID
<i>neighbor-echo-device-name</i>	(Optional) Echo device name
<i>device-id</i>	(Optional) Device ID
<i>neighbor-echo-port-id</i>	(Optional) Echo port ID
<i>neighbor-state</i>	(Optional) Current neighbor state

Command Mode

- /exec

show ulib process

show ulib process

Syntax Description

show	Show running system information
ulib	Display ULIB status and configuration
process	ULIB Process information

Command Mode

- /exec

show user-account

```
show user-account [ <s0> ] [ __readonly__ TABLE_template <usr_name> <expire_date> { TABLE_role
<role> } [ <remote_login> ] [ <sshkey_info> ] { TABLE_keys <ssh_keys> } ]
```

Syntax Description

show	Show running system information
TABLE_template	(Optional)
TABLE_role	(Optional)
TABLE_keys	(Optional)
__readonly__	(Optional)
<i>usr_name</i>	(Optional) Name of the user
<i>expire_date</i>	(Optional) Expiry date for this user account(in YYYY-MM-DD format)
<i>role</i>	(Optional) role/s which the user is to be assigned to
<i>remote_login</i>	(Optional) Remote account information for a remote user
<i>sshkey_info</i>	(Optional) SSH key information of user
<i>ssh_keys</i>	(Optional) SSH key pairs of the user
user-account	Show user information
<i>s0</i>	(Optional) User name

Command Mode

- /exec

show username keypair

```
show username <s0> keypair [ __readonly__ { TABLE_sessions <t_type> <t_time> <t_keys> <t_bitcount>
<t_fingerprint> } ]
```

Syntax Description

show	Show running system information
username	Show user information.
keypair	Show SSH keypairs
<i>s0</i>	user name
<i>__readonly__</i>	(Optional)
TABLE_sessions	(Optional) username keypair
<i>t_type</i>	(Optional) keys type
<i>t_time</i>	(Optional) timestamp
<i>t_keys</i>	(Optional) ssh key
<i>t_bitcount</i>	(Optional) bitcount
<i>t_fingerprint</i>	(Optional) fingerprint

Command Mode

- /exec

show userpassphrase

```
show userpassphrase { min-length | max-length | length } [ __readonly__ [ Minimum_length <min_length>
] [ Maximum_length <max_length> ] ]
```

Syntax Description

show	Show running system information
userpassphrase	user passphrase
min-length	passphrase minimum length
max-length	passphrase maximum length
length	passphrase min and max length
__readonly__	(Optional)
Minimum_length	(Optional) minimum length of the passphrase
<i>min_length</i>	(Optional) Absolute value of the Minimum length
Maximum_length	(Optional) Maximum length of the passphrase
<i>max_length</i>	(Optional) Absolute value of max length

Command Mode

- /exec

show users

```
show users [ __readonly__ { TABLE_sessions <u_name> <t_terminal> <t_time> <t_idle> <p_pid>
<c_comment> } ]
```

Syntax Description

show	Show running system information
users	Show the current users logged in the system
__readonly__	(Optional)
TABLE_sessions	(Optional) users table
<i>u_name</i>	(Optional) user name
<i>t_terminal</i>	(Optional) terminal
<i>t_time</i>	(Optional) time
<i>t_idle</i>	(Optional) idle
<i>p_pid</i>	(Optional) pid
<i>c_comment</i>	(Optional) comment

Command Mode

- /exec



V Commands

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show vdc

```
{ show vdc [ <e-vdc2> ] [ feature-set | detail | membership [ all | status | module <module> ] | shared membership
] [ __readonly__ [ detail2 ] [ <swmode> ] { TABLE_vdc <vdc_id> <vdc_name> <state> <mac> <hap> <sw>
<boot_order> [ <prio> <prio_per> ] [ <create_time> ] [ <reload_count> ] [ <restart_count> ] [ <restart_time>
] [ <restart_reason> ] <vtype> <lc-support> [ TABLE_fs <fs_id> <fs_name> ] [ TABLE_port <port-list> ]
} ] }
```

Syntax Description

show	Show Virtual Device Contexts
vdc	Show Virtual Device Contexts
<i>e-vdc2</i>	(Optional) Enter Virtual Device Context <vdc-id>
detail	(Optional) Show detailed vdc information
membership	(Optional) Show vdc interface membership information
shared	(Optional) Show the shared interfaces in a vdc
membership	(Optional) Show the shared interfaces in a vdc
module	(Optional) Show vdc interface membership information for a specific module only
<i>module</i>	(Optional) Show vdc interface membership information for a specific module only
status	(Optional) Show vdc related port-status
feature-set	(Optional) Show vdc feature-set information
all	(Optional) Show offline modules as well
<u>__readonly__</u>	(Optional) Read Only
detail2	(Optional)
<i>swmode</i>	(Optional)
TABLE_vdc	(Optional)
<i>vdc_id</i>	(Optional) vdc-id
TABLE_port	(Optional)
<i>port-list</i>	(Optional) port membership for VDC
<i>vdc_name</i>	(Optional) vdc-name
<i>state</i>	(Optional) state
<i>mac</i>	(Optional) mac address for VDC

<i>hap</i>	(Optional) hap policy
<i>sw</i>	(Optional) sw policy
<i>vtype</i>	(Optional)
<i>lc-support</i>	(Optional)
<i>create_time</i>	(Optional)
<i>reload_count</i>	(Optional)
<i>restart_count</i>	(Optional)
<i>restart_time</i>	(Optional)
<i>restart_reason</i>	(Optional)
TABLE_fs	(Optional)
<i>fs_id</i>	(Optional) fs id
<i>fs_name</i>	(Optional)
<i>boot_order</i>	(Optional)
<i>prio</i>	(Optional)
<i>prio_per</i>	(Optional)

Command Mode

- /exec

show vdc current-vdc

```
show vdc current-vdc [ __readonly__ <mode> <name> ]
```

Syntax Description

show	Show Virtual Device Contexts
vdc	Show Virtual Device Contexts
current-vdc	Show which vdc you are currently in
__readonly__	(Optional) Read Only
<i>mode</i>	(Optional) cli mode
<i>name</i>	(Optional) vdc name

Command Mode

- /exec

show vdc fcoe-vlan-range

show vdc fcoe-vlan-range [*__readonly__* <fcoe-vdc> [<fcoe-vlans>] [<sharing-vdcs>]]

Syntax Description

show	Show Virtual Device Contexts
vdc	Show Virtual Device Contexts
fcoe-vlan-range	vlans reserved for FCoE
<i>__readonly__</i>	(Optional) Read Only
<i>fcoe-vdc</i>	(Optional)
<i>sharing-vdcs</i>	(Optional)
<i>fcoe-vlans</i>	(Optional)

Command Mode

- /exec

show vdc resource

```
show vdc resource [ <res-mgr-res-known-name> ] [ detail | hidden-too | with-flags ] + [ __readonly__ {
TABLE_resource <resource_name> <total_used> <total_unused> <total_free> <total_avail> <total> [
TABLE_vdc_resource_across_vdcs <vdc_name> <min> <max> <used> <unused> <free> } ] }
```

Syntax Description

show	Show running system information
vdc	Show Virtual Device Contexts
resource	Show resource configuration across VDCs
<i>res-mgr-res-known-name</i>	(Optional) Resource name
detail	(Optional) Show detail resource configuration
hidden-too	(Optional) Also show hidden resources
with-flags	(Optional) Also show resource flags
<i>__readonly__</i>	(Optional) Read Only
TABLE_resource	(Optional)
<i>resource_name</i>	(Optional) Resource Name
<i>total_used</i>	(Optional) Resource current usage for all VDC
<i>total_unused</i>	(Optional) Resources currently reserved but not used across all VDC
<i>total_free</i>	(Optional) Resource current free for all VDC
<i>total_avail</i>	(Optional) Resource current available across all VDC
<i>total</i>	(Optional) Resources grand total
TABLE_vdc_resource_across_vdcs	(Optional)
<i>vdc_name</i>	(Optional) VDC name
<i>min</i>	(Optional) Resource min configuration
<i>max</i>	(Optional) Resource max configuration
<i>used</i>	(Optional) Resource current usage for this VDC
<i>unused</i>	(Optional) Resource reserved for this VDC but currently not used
<i>free</i>	(Optional) Resource current free for this VDC

Command Mode

- /exec

show vdc resource

```
show vdc <id> resource [ <res-mgr-res-known-name> ] [ __readonly__ { TABLE_vdc_resource_single_vdc
<res_name> <min> <max> <used> <unused> <free> } ]
```

Syntax Description

show	Show running system information
vdc	Show Virtual Device Contexts
<i>id</i>	Enter Virtual Device Context <vdc-id>
resource	Show resource configuration for VDC
<i>res-mgr-res-known-name</i>	(Optional) Resource name
<i>__readonly__</i>	(Optional) Read Only
<i>res_name</i>	(Optional) Resource Name
<i>min</i>	(Optional) Resource min configuration
<i>max</i>	(Optional) Resource max configuration
<i>used</i>	(Optional) Resource current usage for this VDC
<i>unused</i>	(Optional) Resource reserved for this VDC but currently not used
<i>free</i>	(Optional) Resource current free for this VDC
TABLE_vdc_resource_single_vdc	(Optional)

Command Mode

- /exec

show vdc resource template

```
show vdc resource template [ <res-mgr-template-known-name-all> ] [ __readonly__ TABLE_template
<template_name> { TABLE_resource <resource_name> <min> <max> } ]
```

Syntax Description

show	Show running system information
vdc	Show Virtual Device Contexts
resource	Show resource configuration for VDC
template	Resource template configuration
<i>res-mgr-template-known-name-all</i>	(Optional) Resource template name
<i>__readonly__</i>	(Optional) Read Only
TABLE_template	(Optional)
<i>template_name</i>	(Optional) Resource Template Name
TABLE_resource	(Optional)
<i>resource_name</i>	(Optional) Resource Name
<i>min</i>	(Optional) Resource min configuration
<i>max</i>	(Optional) Resource max configuration

Command Mode

- /exec

show version

```
show version [ __readonly__ <header_str> <bios_ver_str> [ <loader_ver_str> ] <kickstart_ver_str> [
<sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <kick_cmpl_time> <kick_tmstmp> [ <isan_file_name>
] [ <isan_cmpl_time> ] [ <isan_tmstmp> ] [ <boot_lxc_mode> ] <chassis_id> <module_id> <cpu_name>
<memory> <mem_type> <proc_board_id> <host_name> <bootflash_size> [ <slot0_size> ] <kern_uptm_days>
<kern_uptm_hrs> <kern_uptm_mins> <kern_uptm_secs> [ <rr_usecs> ] [ <rr_ctime> ] <rr_reason>
<rr_sys_ver> <rr_service> [ TABLE_smu_list <install_smu_id> + ] [ TABLE_package_list <package_id> ]
<manufacturer> ]
```

Syntax Description

show	
version	Show the software version
<i>__readonly__</i>	(Optional)
<i>header_str</i>	(Optional)
<i>bios_ver_str</i>	(Optional)
<i>loader_ver_str</i>	(Optional)
<i>kickstart_ver_str</i>	(Optional)
<i>sys_ver_str</i>	(Optional)
<i>bios_cmpl_time</i>	(Optional)
<i>kick_file_name</i>	(Optional)
<i>kick_cmpl_time</i>	(Optional)
<i>kick_tmstmp</i>	(Optional)
<i>isan_file_name</i>	(Optional)
<i>isan_cmpl_time</i>	(Optional)
<i>isan_tmstmp</i>	(Optional)
<i>boot_lxc_mode</i>	(Optional)
<i>chassis_id</i>	(Optional)
<i>module_id</i>	(Optional)
<i>cpu_name</i>	(Optional)
<i>memory</i>	(Optional)
<i>mem_type</i>	(Optional)
<i>proc_board_id</i>	(Optional)

<i>host_name</i>	(Optional)
<i>bootflash_size</i>	(Optional)
<i>slot0_size</i>	(Optional)
<i>kern_uptm_days</i>	(Optional)
<i>kern_uptm_hrs</i>	(Optional)
<i>kern_uptm_mins</i>	(Optional)
<i>kern_uptm_secs</i>	(Optional)
<i>rr_usecs</i>	(Optional)
<i>rr_ctime</i>	(Optional)
<i>rr_reason</i>	(Optional)
<i>rr_sys_ver</i>	(Optional)
<i>rr_service</i>	(Optional)
TABLE_smu_list	(Optional)
<i>install_smu_id</i>	(Optional)
TABLE_package_list	(Optional)
<i>package_id</i>	(Optional) Package name
<i>manufacturer</i>	(Optional)

Command Mode

- /exec

show version compatibility

show version compatibility <uri0>

Syntax Description

show	Show running system information
version	Show the software version
compatibility	Show the software compatibility matrix with given image
<i>uri0</i>	Enter URI

Command Mode

- /exec

show version fex

show version fex <i>

Syntax Description

show	Show running system information
version	Show the software version
fex	Show fex software version
<i>i</i>	Enter FEX identifier

Command Mode

- /exec

show version image

show version image <uri0>

Syntax Description

show	Show running system information
version	Show the software version
image	Show the software version of a given image
<i>uri0</i>	Enter URI

Command Mode

- /exec

show version module

```
show version module <module> [ __readonly__ { TABLE_version <slot> <type> <sw> <interim> <bios> } ]
```

Syntax Description

<code>show</code>	Show running system information
<code>version</code>	Show the software version
<code>module</code>	Show the software version of a Module
<i>module</i>	Enter module number
<code>__readonly__</code>	(Optional)
<code>TABLE_version</code>	(Optional) Show version info
<i>slot</i>	(Optional) Slot
<i>type</i>	(Optional) image type
<i>sw</i>	(Optional) SW version
<i>interim</i>	(Optional) SW interim version
<i>bios</i>	(Optional) BIOS version

Command Mode

- /exec

show version module epld

show version module <module> epld

Syntax Description

show	Show running system information
version	Show the software version
module	Show the software version of a Module
<i>module</i>	Enter module number
epld	Show a module's current EPLD versions

Command Mode

- /exec

show virtual-service

```
show virtual-service [ { list } | { global } | { detail [ name <virt_serv_name> ] } | { core [ name
<virt_serv_name_core> ] } ] [ __readonly__ [ <infrastructure_major_version> <infrastructure_minor_version>
<total_virtual_services_installed> <total_virtual_services_activated> <maximum_vcpus_per_virtual_service>
<machine_types_supported> <machine_types_disabled> TABLE_resource_limits <media_name> <quota>
<committed> <available> ] [ TABLE_list <name> <status> <package_name> ] [ TABLE_detail <name>
<package_name> <application_name> <application_version> <application_description> <key_type>
<signing_method> <licensing_name> <licensing_version> <ova_path> <state> <disk_reservation>
<memory_reservation> <cpu_reservation> TABLE_attached_devices <type> <name> <alias> ] [ TABLE_core
<name> <name_core> ] ]
```

Syntax Description

show	Show running system information
virtual-service	Display virtualization service information
global	(Optional) Virtual service global information
list	(Optional) List virtual services
detail	(Optional) Detailed information
core	(Optional) Core information
name	(Optional) Information for a specific virtual service
<i>virt_serv_name</i>	(Optional) Name of a virtual service
<i>virt_serv_name_core</i>	(Optional) Name of a virtual service
<i>__readonly__</i>	(Optional) Read Only
<i>infrastructure_major_version</i>	(Optional) Infrastructure major version
<i>infrastructure_minor_version</i>	(Optional) Infrastructure minor version
<i>total_virtual_services_installed</i>	(Optional) Total virtual services installed
<i>total_virtual_services_activated</i>	(Optional) Total virtual services activated
<i>maximum_vcpus_per_virtual_service</i>	(Optional) Maximum VCPUs per virtual service
<i>machine_types_supported</i>	(Optional) Machine types supported
<i>machine_types_disabled</i>	(Optional) Machine types disabled
TABLE_resource_limits	(Optional) Virtual service global resource limits
<i>media_name</i>	(Optional) Resource name
<i>quota</i>	(Optional) Resource Virtualization quota
<i>committed</i>	(Optional) Resource Virtualization committed

<i>available</i>	(Optional) Resource Virtualization available
TABLE_list	(Optional) Virtual service list table
<i>name</i>	(Optional) Virtual service name
<i>status</i>	(Optional) Virtual service status
<i>package_name</i>	(Optional) Virtual service package name
TABLE_detail	(Optional) Virtual service detail table
<i>name</i>	(Optional) Virtual service name
<i>package_name</i>	(Optional) Virtual service package name
<i>application_name</i>	(Optional) Name of the application
<i>application_version</i>	(Optional) Version of the application
<i>application_description</i>	(Optional) Description of the application
<i>key_type</i>	(Optional) Virtual service key type
<i>signing_method</i>	(Optional) Method used to sign the package
<i>licensing_name</i>	(Optional) Name of the license
<i>licensing_version</i>	(Optional) Version of the license
<i>ova_path</i>	(Optional) Virtual service OVA path
<i>state</i>	(Optional) Virtual service state
<i>disk_reservation</i>	(Optional) Virtual service disk reservation
<i>memory_reservation</i>	(Optional) Virtual service memory reservation
<i>cpu_reservation</i>	(Optional) Virtual service CPU reservation
TABLE_attached_devices	(Optional) Attached devices table
<i>type</i>	(Optional) Type of the attached device
<i>name</i>	(Optional) Name of the attached device
<i>alias</i>	(Optional) Alias for the attached device
TABLE_core	(Optional) Virtual service core table
<i>name</i>	(Optional) Virtual service name
<i>name_core</i>	(Optional) Name of core

Command Mode

- /exec

show virtual-service storage pool list

```
show virtual-service storage pool list [ __readonly__ [ TABLE_storage <pool_name> <pool_type> <pool_path> ] ]
```

Syntax Description

show	Show running system information
virtual-service	Display virtualization service storage pool information
storage	Storage information about virtual service
pool	Storage pool information about virtual service
list	List storage pool for virtual service
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_storage</i>	(Optional) Virtual service storage pool list table
<i>pool_name</i>	(Optional) Virtual service storage pool name
<i>pool_type</i>	(Optional) Virtual service storage pool type
<i>pool_path</i>	(Optional) Virtual service storage pool path

Command Mode

- /exec

show virtual-service tech-support

show virtual-service tech-support

Syntax Description

show	Show running system information
virtual-service	Gather information for virtualization services trouble shooting
tech-support	Gather information for trouble shooting

Command Mode

- /exec

show virtual-service utilization name

```
show virtual-service utilization name <virt_serv_name> [ __readonly__ [ TABLE_storage <name> <alias>
<rd_bytes> <wr_bytes> <rd_requests> <wr_requests> <errors> <capacity> <used> <available> <usage> ] [
TABLE_network <name> <alias> <rx_packets> <tx_packets> <rx_bytes> <tx_bytes> <rx_drops> <tx_drops>
<rx_errors> <tx_errors> ] [ TABLE_memory <allocation> <used> ] [ TABLE_cpu <request> <actual> <state>
] ]
```

Syntax Description

show	Show running system information
virtual-service	Display virtualization service utilization information
utilization	Utilization information about virtual service
name	Utilization of a virtual service
<i>virt_serv_name</i>	Name of a virtual service
<i>__readonly__</i>	(Optional) Read Only
TABLE_storage	(Optional) Virtual service storage utilization
<i>name</i>	(Optional) storage device name
<i>alias</i>	(Optional) storage device alias
<i>rd_bytes</i>	(Optional) Read Bytes
<i>wr_bytes</i>	(Optional) Write Bytes
<i>rd_requests</i>	(Optional) Read requests
<i>wr_requests</i>	(Optional) Write requests
<i>errors</i>	(Optional) errors
<i>capacity</i>	(Optional) Capacity 1k blocks
<i>used</i>	(Optional) Used 1k blocks
<i>available</i>	(Optional) Available 1k blocks
<i>usage</i>	(Optional) Usage
TABLE_network	(Optional) Virtual service network utilization
<i>name</i>	(Optional) network device name
<i>alias</i>	(Optional) network device alias
<i>rx_packets</i>	(Optional) Received packets
<i>tx_packets</i>	(Optional) Transmitted packets

<i>rx_bytes</i>	(Optional) Received bytes
<i>tx_bytes</i>	(Optional) Transmitted bytes
<i>rx_drops</i>	(Optional) Received drops
<i>tx_drops</i>	(Optional) Transmitted drops
<i>rx_errors</i>	(Optional) Received errors
<i>tx_errors</i>	(Optional) Trnasmitted errors
TABLE_memory	(Optional) Virtual service memory utilization
<i>allocation</i>	(Optional) Memory allocation
<i>used</i>	(Optional) Memory used
TABLE_cpu	(Optional) Virtual service cpu utilization
<i>request</i>	(Optional) Requested Application Utilization
<i>actual</i>	(Optional) Actual Application Utilization
<i>state</i>	(Optional) CPU state

Command Mode

- /exec

show virtual-service version

```
show virtual-service version { { installed } | { name <virt_serv_name> installed } } [ __readonly__
<virt_service_name> <application_name> <application_version> ]
```

Syntax Description

show	Show running system information
virtual-service	Display virtualization service version information
version	Version information about virtual service
installed	Installed version
name	Version of a virtual service
<i>virt_serv_name</i>	Name of a virtual service
<i>__readonly__</i>	(Optional) Read Only
<i>virt_service_name</i>	(Optional) Virtual service name
<i>application_name</i>	(Optional) Application name
<i>application_version</i>	(Optional) Application version

Command Mode

- /exec

show vlan-mgr errors

show vlan-mgr errors

Syntax Description

show	Show running system information
vlan-mgr	Show vlan manager event history
errors	Show vlan manager errors

Command Mode

- /exec

show vlan-mgr event-history

show vlan-mgr event-history

Syntax Description

show	Show running system information
vlan-mgr	Show vlan manager event history
event-history	Show vlan manager event history

Command Mode

- /exec

show vlan

```
show vlan [ controller ] [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbrief <vlanshowbr-vlanid>
<vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate> <vlanshowbr-shutstate> [
<vlanshowplist-ifidx> ] } <vlanshowinfo-mtu-hdr> { TABLE_mtuinfo <vlanshowinfo-vlanid>
<vlanshowinfo-media-type> <vlanshowinfo-vlanmode> } [ <vlanshowrspan-hdr1> ] [
<vlanshowrspan-vlantype> ] [ <vlanshowrspan-hdr2> ] [ <vlanshowrspan-vlanbitmap> ] [ <pvlan-hdr> ] [
<pvlan-section> ] [ <pvlan-stby> ] <show-end> [ <true-end> ] ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
controller	(Optional) Controller VLAN status
__readonly__	(Optional) Read Only
TABLE_vlanbrief	(Optional) VLAN brief table format
TABLE_mtuinfo	(Optional) MTU information table format
<i>vlanshowbr-hdr</i>	(Optional) VLAN brief header
<i>vlanshowbr-vlanid</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanid-utf</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanname</i>	(Optional) VLAN brief VLAN name
<i>vlanshowbr-vlanstate</i>	(Optional) VLAN brief VLAN state
<i>vlanshowbr-shutstate</i>	(Optional) VLAN brief shutdown state
<i>vlanshowplist-ifidx</i>	(Optional) Port list ifindex
<i>vlanshowinfo-mtu-hdr</i>	(Optional) Vlan info mtu header
<i>vlanshowinfo-vlanid</i>	(Optional) Vlan info VLAN ID
<i>vlanshowinfo-media-type</i>	(Optional) Select media type
<i>vlanshowinfo-vlanmode</i>	(Optional) VLAN brief VLAN mode
<i>vlanshowrspan-hdr1</i>	(Optional) RSPAN VLAN header for one VLAN
<i>vlanshowrspan-hdr2</i>	(Optional) RSPAN VLAN header for multiple VLANs
<i>vlanshowrspan-vlantype</i>	(Optional) RSPAN VLAN one VLAN rspan or non-rspan
<i>vlanshowrspan-vlanbitmap</i>	(Optional) RSPAN VLAN multiple VLANs
<i>show-end</i>	(Optional) Show vlan end marker

<i>true-end</i>	(Optional) Show vlan end marker
<i>pvlan-hdr</i>	(Optional) private vlan section
<i>pvlan-section</i>	(Optional) private vlan section
<i>pvlan-stby</i>	(Optional) private vlan section on standby

Command Mode

- /exec

show vlan access-list

```
show vlan access-list <name> [ <inp_seqno> ] [ __readonly__ TABLE_vacl <vacl_name> [ <vacl_seqno> ]
[ TABLE_list <ip_ipv6_mac> <acl_name> [ TABLE_seqno <seqno> { <permitdeny> [ <proto_str> | <proto>
| <ip> | <ipv6> } { <src_any> | <src_ip_prefix> | <src_ip_addr> <src_ip_mask> | <src_ipv6_prefix> |
<src_ipv6_addr> <src_ipv6_mask> | <mac_src> <mac_src_wild> | <src_addrgrp> } [ <src_port_op> [
<src_port1_str> ] { <src_port1_num> } [ <src_port2_str> | <src_port2_num> ] | <src_portgrp> ] { <dest_any>
| <dest_ip_prefix> | <dest_ip_addr> <dest_ip_mask> | <dest_ipv6_prefix> | <dest_ipv6_addr>
<dest_ipv6_mask> | <mac_dest> <mac_dest_wild> | <dest_addrgrp> } [ <dest_port_op> [ <dest_port1_str>
] { <dest_port1_num> } [ <dest_port2_str> | <dest_port2_num> ] | <dest_portgrp> ] [ { <icmp_type> [
<icmp_code> ] | <icmp_str> } | { <icmpv6_type> [ <icmpv6_code> ] | <icmpv6_str> } ] [ <igmp_type> |
<igmp_type_str> ] [ [ <precedence> | <precedence_str> ] [ <tos> | <tos_str> ] ] [ <dscp> | <dscp_str> ] [ [
<ttl> ] ] [ <log> ] [ <udfs> ] [ <capture_session> ] [ <fragments> ] [ <plen_op> <plen1> [ <plen2> ] ] [ <urg>
] [ <ack> ] [ <psh> ] [ <rst> ] [ <syn> ] [ <fin> ] [ <established> ] [ <http-method> | <http_opt_str> ] [
<tcp-option-length> ] [ <tcp-flags-mask> ] [ <flow_label> ] [ <timerange> ] [ <eth_proto> | <eth_proto_str>
] [ <vlan> ] [ <cos> ] [ <match_count> ] [ <nve_vni> ] | <remark> } ] [ <action> <actionid> ] ] ]
```

Syntax Description

show	Show running system information
vlan	Vlan commands
access-list	Vlan access list
<i>name</i>	List name
<i>inp_seqno</i>	(Optional) Sequence number
<i>vacl_name</i>	(Optional) List name
<i>__readonly__</i>	(Optional)
<i>vacl_seqno</i>	(Optional) Sequence number
TABLE_vacl	(Optional)
TABLE_list	(Optional)
<i>ip_ipv6_mac</i>	(Optional) IP/iPV6/MAC
<i>acl_name</i>	(Optional) Access list name
<i>seqno</i>	(Optional) Sequence number
<i>permitdeny</i>	(Optional) Permit/deny
<i>proto</i>	(Optional) A protocol number
TABLE_seqno	(Optional)
<i>proto_str</i>	(Optional) Protocol name
<i>ip</i>	(Optional) IP

<i>ipv6</i>	(Optional) IPV6
<i>src_any</i>	(Optional) SRCAny
<i>dest_any</i>	(Optional) DESTAny
<i>src_ip_prefix</i>	(Optional) Source IP prefix
<i>src_ip_addr</i>	(Optional) Source IP address
<i>src_ip_mask</i>	(Optional) Source IP mask
<i>mac_src</i>	(Optional) Source MAC address
<i>mac_src_wild</i>	(Optional) Source MAC mask
<i>dest_ip_prefix</i>	(Optional) Destination IP prefix
<i>dest_ip_addr</i>	(Optional) Destination IP address
<i>dest_ip_mask</i>	(Optional) Destination IP mask
<i>mac_dest</i>	(Optional) Destination MAC address
<i>mac_dest_wild</i>	(Optional) Destination MAC mask
<i>src_port_op</i>	(Optional) Source Port operator
<i>dest_port_op</i>	(Optional) Destination Port operator
<i>src_port1_str</i>	(Optional) Source port name
<i>src_port1_num</i>	(Optional) Source port number
<i>src_port2_str</i>	(Optional) Source port name
<i>src_port2_num</i>	(Optional) Source port number
<i>dest_port1_str</i>	(Optional) Destination port name
<i>dest_port1_num</i>	(Optional) Destination port number
<i>dest_port2_str</i>	(Optional) Destination port name
<i>dest_port2_num</i>	(Optional) Destination port number
<i>icmp_type</i>	(Optional) ICMP type
<i>icmp_code</i>	(Optional) ICMP code
<i>icmp_str</i>	(Optional) ICMP message
<i>icmpv6_type</i>	(Optional) ICMP type
<i>icmpv6_code</i>	(Optional) ICMP code
<i>icmpv6_str</i>	(Optional) ICMP message

<i>igmp_type</i>	(Optional) IGMP type
<i>igmp_type_str</i>	(Optional) IGMP type String
<i>precedence</i>	(Optional) precedence
<i>precedence_str</i>	(Optional) precedence string
<i>tos</i>	(Optional) tos
<i>tos_str</i>	(Optional) tos string
<i>dscp</i>	(Optional) dscp
<i>dscp_str</i>	(Optional) dscp string
<i>udfs</i>	(Optional) udfs string
<i>ttl</i>	(Optional) ttl
<i>capture_session</i>	(Optional) capture session
<i>log</i>	(Optional) Log
<i>fragments</i>	(Optional) Fragments
<i>urg</i>	(Optional) URG
<i>ack</i>	(Optional) ACK
<i>psh</i>	(Optional) PSH
<i>rst</i>	(Optional) RST
<i>syn</i>	(Optional) SYN
<i>fin</i>	(Optional) FIN
<i>established</i>	(Optional) ESTABLISHED
<i>http-method</i>	(Optional) http-method
<i>http_opt_str</i>	(Optional) http_option string
<i>tcp-option-length</i>	(Optional) TCP Option size
<i>tcp-flags-mask</i>	(Optional) TCP Flags mask
<i>flow_label</i>	(Optional) IPv6 flow label
<i>timerange</i>	(Optional) Time-range
<i>eth_proto</i>	(Optional) MAC protocol number
<i>eth_proto_str</i>	(Optional) MAC protocol name
<i>vlan</i>	(Optional) VLAN number

<i>cos</i>	(Optional) CoS value
<i>match_count</i>	(Optional) Number of packets matching the ACL
<i>nve_vni</i>	(Optional) nve vni
<i>remark</i>	(Optional) Remark String
<i>src_addrgrp</i>	(Optional) Source address group
<i>dest_addrgrp</i>	(Optional) Destination address group
<i>src_portgrp</i>	(Optional) Source port group
<i>dest_portgrp</i>	(Optional) Destination port group
<i>plen_op</i>	(Optional) Source Port operator
<i>plen1</i>	(Optional) Packet length minimum
<i>plen2</i>	(Optional) packet length maximum
<i>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-PROTO: <1-65535>

Command Mode

- /exec

show vlan access-map

```
show vlan access-map [ <name> ] [ __readonly__ [ TABLE_vacl <vacl_name> [ TABLE_seqno [ <seqno>
] [ <ip_ipv6_mac> { <match_name> } + [ <action_drop> ] [ <action_log> ] [ <action_fwd> ] [ <action_capture>
] [ <action_redirect> <intf> ] ] [ <statistics> ] ] ] ]
```

Syntax Description

show	Show running system information
vlan	Vlan commands
access-map	List VLAN access maps
<i>name</i>	(Optional) List name
<i>vacl_name</i>	(Optional) List name
<i>__readonly__</i>	(Optional)
<i>seqno</i>	(Optional) Sequence number
TABLE_vacl	(Optional)
TABLE_seqno	(Optional)
<i>ip_ipv6_mac</i>	(Optional) IP/iIPv6/MAC
<i>match_name</i>	(Optional) Access list name
<i>action_drop</i>	(Optional) DROP
<i>action_log</i>	(Optional) LOG
<i>action_fwd</i>	(Optional) FWD
<i>action_capture</i>	(Optional) CAPTURE
<i>action_redirect</i>	(Optional) REDIRECT
<i>intf</i>	(Optional) Interface traffic is redirected to
<i>statistics</i>	(Optional) STATISTICS

Command Mode

- /exec

show vlan all-ports

```
show vlan all-ports [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbriefallports <vlanshowbr-vlanid>
<vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate> <vlanshowbr-shutstate> [
<vlanshowplist-ifidx> ] } <show-end> [ <true-end> ] ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
all-ports	Show all ports on VLAN
__readonly__	(Optional) Read Only
TABLE_vlanbriefallports	(Optional) VLAN brief table format
<i>vlanshowbr-hdr</i>	(Optional) VLAN brief header
<i>vlanshowbr-vlanid</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanid-utf</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanname</i>	(Optional) VLAN brief VLAN name
<i>vlanshowbr-vlanstate</i>	(Optional) VLAN brief VLAN state
<i>vlanshowbr-shutstate</i>	(Optional) VLAN brief shutdown state
<i>vlanshowplist-ifidx</i>	(Optional) Port list ifindex
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

Command Mode

- /exec

show vlan counters

```
show vlan counters [ __readonly__ { TABLE_vlancounters <vlanshowbr-vlanid> [ <l2_ing_ucast_b> ] [
<l2_ing_ucast_p> ] [ <l2_ing_mcast_b> ] [ <l2_ing_mcast_p> ] [ <l2_ing_bcast_b> ] [ <l2_ing_bcast_p> ]
[ <l2_egr_ucast_b> ] [ <l2_egr_ucast_p> ] [ <l3_ucast_rcv_b> ] [ <l3_ucast_rcv_p> ] [ <total_rcv_b> ] [
<total_rcv_p> ] [ <total_sent_b> ] [ <total_sent_p> ] } ]
```

Syntax Description

show	Show running system information
vlan	Vlan commands
counters	display counters
__readonly__	(Optional) Read Only
TABLE_vlancounters	(Optional) vlan counters table format
vlanshowbr-vlanid	(Optional) VLAN brief VLAN ID
l2_ing_ucast_b	(Optional) L2 Ingress unicast octets
l2_ing_ucast_p	(Optional) L2 Ingress unicast packets
l2_ing_mcast_b	(Optional) L2 Ingress multicast octets
l2_ing_mcast_p	(Optional) L2 Ingress multicast packets
l2_ing_bcast_b	(Optional) L2 Ingress broadcast octets
l2_ing_bcast_p	(Optional) L2 Ingress broadcast packets
l2_egr_ucast_b	(Optional) L2 Egress unicast octets
l2_egr_ucast_p	(Optional) L2 Egress unicast packets
l3_ucast_rcv_b	(Optional) L3 unicast octets in
l3_ucast_rcv_p	(Optional) L3 unicast packets in
total_rcv_b	(Optional) Total octets in
total_rcv_p	(Optional) Total packets in
total_sent_b	(Optional) Total octets out
total_sent_p	(Optional) Total packets out

Command Mode

- /exec

show vlan dot1Q tag native

show vlan dot1Q tag native [__readonly__ <tag_native_mode>]

Syntax Description

show	Show running system information
vlan	VTP VLAN status
dot1Q	Display dot1q parameters
tag	Display tag parameters
native	Display native vlan tagging
<i>__readonly__</i>	(Optional) Read Only
<i>tag_native_mode</i>	(Optional) Native vlan tagging mode

Command Mode

- /exec

show vlan filter

```
show vlan filter [ access-map <name> | vlan <vlan> ] [ __readonly__ TABLE_vlan_filter <name>
<configured_vlans> ]
```

Syntax Description

show	Show running system information
vlan	Vlan commands
filter	Information about VLAN filters
access-map	(Optional) Show the VLANs where an access-map is applied
<i>name</i>	(Optional) List name
vlan	(Optional) Show the access-map applied to a VLAN
<i>vlan</i>	(Optional) VLAN number
<i>__readonly__</i>	(Optional)
TABLE_vlan_filter	(Optional)
<i>configured_vlans</i>	(Optional) VLAN numbers

Command Mode

- /exec

show vlan id

```
show vlan id <vlan-id> [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbriefid <vlanshowbr-vlanid>
<vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate> <vlanshowbr-shutstate> [
<vlanshowplist-ifidx> ] } <vlanshowinfo-mtu-hdr> { TABLE_mtuinfoid <vlanshowinfo-vlanid>
<vlanshowinfo-media-type> <vlanshowinfo-vlanmode> } [ <vlanshow-vlanerrbitmap> ] [
<vlanshowrspan-hdr1> ] [ <vlanshowrspan-vlantype> ] [ <vlanshowrspan-hdr2> ] [
<vlanshowrspan-vlanbitmap> ] [ <pvlan-hdr> ] [ <pvlan-id-section> ] [ <pvlan-stby> ] [ <is-vtp-manageable>
] [ <is-internal> ] [ <is-reserved> ] [ <is-rspan> ] [ <is-dynamic-gvrp> ] <show-end> [ <true-end> ] ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
id	VLAN status by VLAN id
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>	(Optional) Read Only
TABLE_vlanbriefid	(Optional) VLAN brief table format
TABLE_mtuinfoid	(Optional) MTU information table format
<i>vlanshowbr-hdr</i>	(Optional) VLAN brief header
<i>vlanshowbr-vlanid</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanid-utf</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanname</i>	(Optional) VLAN brief VLAN name
<i>vlanshowbr-vlanstate</i>	(Optional) VLAN brief VLAN state
<i>vlanshowbr-shutstate</i>	(Optional) VLAN brief shutdown state
<i>vlanshowplist-ifidx</i>	(Optional) Port list ifindex
<i>vlanshowinfo-mtu-hdr</i>	(Optional) Vlan info mtu header
<i>vlanshowinfo-vlanid</i>	(Optional) Vlan info VLAN ID
<i>vlanshowinfo-media-type</i>	(Optional) Select media type
<i>vlanshowinfo-vlanmode</i>	(Optional) VLAN brief VLAN mode
<i>vlanshow-vlanerrbitmap</i>	(Optional) VLAN error bitmap
<i>vlanshowrspan-hdr1</i>	(Optional) RSPAN VLAN header for one VLAN
<i>vlanshowrspan-hdr2</i>	(Optional) RSPAN VLAN header for multiple VLANs
<i>vlanshowrspan-vlantype</i>	(Optional) RSPAN VLAN one VLAN rspan or non-rspan

<i>vlanshowrspan-vlanbitmap</i>	(Optional) RSPAN VLAN multiple VLANs
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker
<i>pvlan-hdr</i>	(Optional) private vlan section
<i>pvlan-id-section</i>	(Optional) private id vlan section
<i>pvlan-stby</i>	(Optional) private vlan section on standby
<i>is-vtp-manageable</i>	(Optional) VTP Manageable VLAN flag
<i>is-internal</i>	(Optional) Internal VLAN flag
<i>is-reserved</i>	(Optional) Reserved VLAN flag
<i>is-rspan</i>	(Optional) RSPAN VLAN flag
<i>is-dynamic-gvrp</i>	(Optional) Dynamic GVRP VLAN flag

Command Mode

- /exec

show vlan id counters

```
show vlan id <vlan-id> counters [ __readonly__ { TABLE_vlancounters <vlanshowbr-vlanid> [
<l2_ing_ucast_b> ] [ <l2_ing_ucast_p> ] [ <l2_ing_mcast_b> ] [ <l2_ing_mcast_p> ] [ <l2_ing_bcast_b> ]
[ <l2_ing_bcast_p> ] [ <l2_egr_ucast_b> ] [ <l2_egr_ucast_p> ] [ <total_rcv_b> ] [ <total_rcv_p> ] [
<total_sent_b> ] [ <total_sent_p> ] } ]
```

Syntax Description

show	Show running system information
vlan	Vlan commands
id	VLAN status by VLAN id
counters	display counters
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<u>__readonly__</u>	(Optional) Read Only
TABLE_vlancounters	(Optional) vlan counters table format
<i>vlanshowbr-vlanid</i>	(Optional) VLAN brief VLAN ID
<i>l2_ing_ucast_b</i>	(Optional) L2 Ingress unicast octets
<i>l2_ing_ucast_p</i>	(Optional) L2 Ingress unicast packets
<i>l2_ing_mcast_b</i>	(Optional) L2 Ingress multicast octets
<i>l2_ing_mcast_p</i>	(Optional) L2 Ingress multicast packets
<i>l2_ing_bcast_b</i>	(Optional) L2 Ingress broadcast octets
<i>l2_ing_bcast_p</i>	(Optional) L2 Ingress broadcast packets
<i>l2_egr_ucast_b</i>	(Optional) L2 Egress unicast octets
<i>l2_egr_ucast_p</i>	(Optional) L2 Egress unicast packets
<i>total_rcv_b</i>	(Optional) Total octets in
<i>total_rcv_p</i>	(Optional) Total packets in
<i>total_sent_b</i>	(Optional) Total octets out
<i>total_sent_p</i>	(Optional) Total packets out

Command Mode

- /exec

show vlan id vn-segment

```
show vlan id <vlan-id> vn-segment [ __readonly__ <vlanshowinfo-segid-hdr> { TABLE_seginfoid
<vlanshowinfo-seg-vlanid> <vlanshowinfo-segment-id> } <show-end> [ <true-end> ] ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
id	VLAN status by VLAN id
vn-segment	Show vn-segment mapping
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_seginfoid</i>	(Optional) Segment id information table format
<i>vlanshowinfo-segid-hdr</i>	(Optional) Vlan info segment id header
<i>vlanshowinfo-seg-vlanid</i>	(Optional) Vlan info VLAN ID
<i>vlanshowinfo-segment-id</i>	(Optional) Vlan info SEGMENT ID
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

Command Mode

- /exec

show vlan mib private-vlan type

show vlan [id <vlan-id>] mib private-vlan type [__readonly__ <start> <vlan> <pvlan-type> <primary>]

Syntax Description

show	Show running system information
vlan	VLAN status
id	(Optional) VLAN status by VLAN id
<i>vlan-id</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
private-vlan	Private VLAN information
type	Private VLAN type information
mib	mib
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>vlan</i>	(Optional) vlan
<i>pvlan-type</i>	(Optional) PVLAN Type
<i>primary</i>	(Optional) associated to primary

Command Mode

- /exec

show vlan name

```
show vlan name <vname> [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbriefname <vlanshowbr-vlanid>
<vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate> <vlanshowbr-shutstate> [
<vlanshowplist-ifidx> ] } <vlanshowinfo-mtu-hdr> { TABLE_mtuinfofname <vlanshowinfo-vlanid>
<vlanshowinfo-media-type> <vlanshowinfo-vlanmode> } [ <vlanshowrspan-hdr1> ] [
<vlanshowrspan-vlantype> ] [ <vlanshowrspan-hdr2> ] [ <vlanshowrspan-vlanbitmap> ] <show-end> [
<true-end> ] ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
name	VLAN status by VLAN name
vname	A vlan name with size 32 (128 if long vlan name enabled)
__readonly__	(Optional) Read Only
TABLE_vlanbriefname	(Optional) VLAN brief table format
TABLE_mtuinfofname	(Optional) MTU information table format
vlanshowbr-hdr	(Optional) VLAN brief header
vlanshowbr-vlanid	(Optional) VLAN brief VLAN ID
vlanshowbr-vlanid-utf	(Optional) VLAN brief VLAN ID
vlanshowbr-vlanname	(Optional) VLAN brief VLAN name
vlanshowbr-vlanstate	(Optional) VLAN brief VLAN state
vlanshowbr-shutstate	(Optional) VLAN brief shutdown state
vlanshowplist-ifidx	(Optional) Port list ifindex
vlanshowinfo-mtu-hdr	(Optional) Vlan info mtu header
vlanshowinfo-vlanid	(Optional) Vlan info VLAN ID
vlanshowinfo-media-type	(Optional) Select media type
vlanshowinfo-vlanmode	(Optional) VLAN brief VLAN mode
vlanshowrspan-hdr1	(Optional) RSPAN VLAN header for one VLAN
vlanshowrspan-hdr2	(Optional) RSPAN VLAN header for multiple VLANs
vlanshowrspan-vlantype	(Optional) RSPAN VLAN one VLAN rspan or non-rspan
vlanshowrspan-vlanbitmap	(Optional) RSPAN VLAN multiple VLANs

<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

Command Mode

- /exec

show vlan private-vlan

```
show vlan [ id <vlan-id> ] private-vlan [ __readonly__ [ { TABLE_pvlan_primary <vlan-key> [ <primary>
] [ <secondary> ] <pvlan-type> [ <ports> + ] } ] ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
id	(Optional) VLAN status by VLAN id
<i>vlan-id</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
private-vlan	Private VLAN information
<i>__readonly__</i>	(Optional) Read Only
TABLE_pvlan_primary	(Optional) Pvlan primary vlan table
<i>vlan-key</i>	(Optional) Vlan key
<i>primary</i>	(Optional) Primary VLAN
<i>secondary</i>	(Optional) Secondary VLAN
<i>pvlan-type</i>	(Optional) PVLAN Type
<i>ports</i>	(Optional) Port list

Command Mode

- /exec

show vlan private-vlan interface host

```
show vlan private-vlan interface [ <if> ] host [ next <data> ] [ __readonly__ <start> <interface-id>
<secondary-vlan> ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
<i>if</i>	(Optional) Interface id
host	private-vlan host
next	(Optional) next-entry
<i>data</i>	(Optional) ignore junk value
__readonly__	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>interface-id</i>	(Optional) Interface
<i>secondary-vlan</i>	(Optional) Secondary Vlan

Command Mode

- /exec

show vlan private-vlan interface mapping

```
show vlan private-vlan interface [ <if> ] mapping [ __readonly__ <start> <interface-id> <multi-primary>
<secondary-vlan> <two-way> ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
<i>if</i>	(Optional) Interface id
mapping	private-vlan mapping
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>interface-id</i>	(Optional) Interface
<i>multi-primary</i>	(Optional) multiple primay capable
<i>secondary-vlan</i>	(Optional) seconadry vlans bitmap
<i>two-way</i>	(Optional) multiple primay capable

Command Mode

- /exec

show vlan private-vlan interface mode

```
show vlan private-vlan interface [ <if> ] mode [ next <data> ] [ __readonly__ <start> <interface-id>
<port-mode> ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
<i>if</i>	(Optional) Interface id
mode	private-vlan port mode
next	(Optional) next-entry
<i>data</i>	(Optional) ignore junk value
__readonly__	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>interface-id</i>	(Optional) Interface
<i>port-mode</i>	(Optional) Port mode

Command Mode

- /exec

show vlan private-vlan interface trunk

```
show vlan private-vlan interface [ <if> ] trunk [ __readonly__ <start> <interface-id> <dynamic-state>
<encap-type> <native-vlan> <secondary-vlans> <normal-vlans> <dynamic-status> <encap-oper-type> ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
<i>if</i>	(Optional) Interface id
trunk	pvlan trunk
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>interface-id</i>	(Optional) Interface
<i>dynamic-state</i>	(Optional) dynamic state
<i>encap-type</i>	(Optional) encapsulation type
<i>native-vlan</i>	(Optional) native vlan
<i>secondary-vlans</i>	(Optional) secondary vlans
<i>normal-vlans</i>	(Optional) normal vlans
<i>dynamic-status</i>	(Optional) dynamic status
<i>encap-oper-type</i>	(Optional) encap oper type

Command Mode

- /exec

show vlan private-vlan mapping

```
show vlan [ id <vlan-id> ] private-vlan mapping [ next <data> ] [ __readonly__ <start> <vlan-id> <primary> ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
id	(Optional) VLAN status by VLAN id
<i>vlan-id</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
private-vlan	Private VLAN information
mapping	private-vlan mapping
next	(Optional) next-entry
<i>data</i>	(Optional) ignore junk value
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>vlan-id</i>	(Optional) secondary
<i>primary</i>	(Optional) primary-vlan

Command Mode

- /exec

show vlan private-vlan type

```
show vlan [ id <vlan-id> ] private-vlan type [ __readonly__ [ { TABLE_pvlan-type <vlan-num> <pvlan-type>
} ] ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
id	(Optional) VLAN status by VLAN id
<i>vlan-id</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
private-vlan	Private VLAN information
type	Private VLAN type information
<i>__readonly__</i>	(Optional) Read Only
TABLE_pvlan-type	(Optional) Pvlan type table
<i>vlan-num</i>	(Optional) vlan
<i>pvlan-type</i>	(Optional) PVLAN Type

Command Mode

- /exec

show vlan reserved

```
show vlan reserved [ __readonly__ { TABLE_reserved <ivusage-vlanid> <ivusage-desc> } <show-end> [
<true-end> ] ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
reserved	Internal reserved VLANs
__readonly__	(Optional) Read Only
TABLE_reserved	(Optional) Internal reserved VLAN table format
<i>ivusage-vlanid</i>	(Optional) internal vlan usage VLAN id
<i>ivusage-desc</i>	(Optional) internal reserved vlan usage description
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

Command Mode

- /exec

show vlan xbrief

```
show vlan xbrief [ controller | cli ] [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbriefxbrief
<vlanshowbr-vlanid> <vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate>
<vlanshowbr-shutstate> [ <vlanshowplist-ifidx> ] } <show-end> [ <true-end> ] ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
xbrief	All VLAN status in brief
controller	(Optional) Controller VLAN status
cli	(Optional) CLI VLAN status
__readonly__	(Optional) Read Only
TABLE_vlanbriefxbrief	(Optional) VLAN brief table format
<i>vlanshowbr-hdr</i>	(Optional) VLAN brief header
<i>vlanshowbr-vlanid</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanid-utf</i>	(Optional) VLAN brief VLAN ID
<i>vlanshowbr-vlanname</i>	(Optional) VLAN brief VLAN name
<i>vlanshowbr-vlanstate</i>	(Optional) VLAN brief VLAN state
<i>vlanshowbr-shutstate</i>	(Optional) VLAN brief shutdown state
<i>vlanshowplist-ifidx</i>	(Optional) Port list ifindex
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

Command Mode

- /exec

show vlan xsummary

```
show vlan xsummary [ __readonly__ <vlansum-vtp-vlan> <vlansum-ext-vlan> <vlansum-all-vlan>
<vlansum-max-supported-vlan> <vlansum-carved-vlan> <show-end> [ <true-end> ] ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
xsummary	VLAN summary information
<i>__readonly__</i>	(Optional) Read Only
<i>vlansum-vtp-vlan</i>	(Optional) Show vlan summary Number of normal vlans
<i>vlansum-ext-vlan</i>	(Optional) Show vlan summary Number of extended vlans
<i>vlansum-all-vlan</i>	(Optional) Show vlan summary Total
<i>vlansum-max-supported-vlan</i>	(Optional) Show vlan summary Max supported vlans
<i>vlansum-carved-vlan</i>	(Optional) Show vlan summary Number of carved sdn vlans
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

Command Mode

- /exec

show vmtracker

```
show vmtracker [ connection <conn_name> ] { { info { { [ interface <intf_id> ] { summary | detail | host |
vm | port-group } } | { vxlan-segment | vxlan-vms } } } | event-history }
```

Syntax Description

show	Show running system information
vmtracker	Show vmtracker info
connection	(Optional) Show vmtracker configured connections
<i>conn_name</i>	(Optional) Show vmtracker Connection name
info	Display vmtracker information
interface	(Optional) Display vmtracker interface information
<i>intf_id</i>	(Optional) Interface name to display
summary	Display a summary of vmtracker information
detail	Display vmtracker information details
host	Display vmtracker host information
vm	Display vmtracker related Virtual Machine information
port-group	Display vmtracker related port-group information
vxlan-segment	Print all segment info
vxlan-vms	Print all vm info
event-history	Display vmtracker related event-history

Command Mode

- /exec

show vmtracker certificate

show vmtracker certificate

Syntax Description

show	Show running system information
vmtracker	VMTRACKER commands
certificate	Show the default certificate used

Command Mode

- /exec

show vmtracker fabric auto-config

```
show vmtracker fabric auto-config [ interface <intf_id> ] [ vlan <vlan_id> ] [ status { success | pending | failure | skipped } ]
```

Syntax Description

show	Show running system information
vmtracker	VMTRACKER commands
fabric	VM Tracker Fabric paramters
auto-config	VM Tracker Fabric AutoConfiguration
interface	(Optional) Display vmtracker interface information
<i>intf_id</i>	(Optional) Interface name to display
vlan	(Optional) vlan to display
<i>vlan_id</i>	(Optional) VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
status	(Optional) Auto-config status
success	(Optional) Success
pending	(Optional) Pending
failure	(Optional) Failure
skipped	(Optional) Skipped

Command Mode

- /exec

show vmtracker status

```
show vmtracker [ connection <conn_name> ] status [ __readonly__ { TABLE_connection <name> <host_or_ip>
<conn_status> } ]
```

Syntax Description

<i>__readonly__</i>	(Optional)
TABLE_connection	(Optional)
<i>name</i>	(Optional)
<i>host_or_ip</i>	(Optional)
<i>conn_status</i>	(Optional)
show	Show running system information
vmtracker	Show vmtracker info
connection	(Optional) Show vmtracker configured connections
<i>conn_name</i>	(Optional) Show vmtracker Connection name
status	Show vmtracker connection status

Command Mode

- /exec

show vpc

```
show vpc [ __readonly__ <vpc-domain-id> [ <vpc-l2mp-switch-id> ] <vpc-peer-status>
<vpc-peer-status-reason> <vpc-peer-keepalive-status> [ <vpc-peer-l2mp-status> ] <vpc-peer-consistency> {
[ <vpc-peer-consistency-reason> ] <vpc-peer-consistency-status> } [ <vpc-per-vlan-peer-consistency> ]
<vpc-type-2-consistency> { [ <vpc-type-2-consistency-reason> ] <vpc-type-2-consistency-status> } <vpc-role>
<num-of-vpcs> [ <track-obj> ] [ <peer-gateway> ] [ <peer-gateway-excluded-vlans> ] [
<dual-active-excluded-vlans> ] <vpc-graceful-consistency-check-status> [ <vpc-auto-recovery-status> ] [
<vpc-delay-restore-status> ] [ <vpc-delay-restore-svi-status> ] <operational-l3-peer> [ <vpc-scale-high-status>
] <vpc-peer-link-hdr> [ { TABLE_peerlink <peer-link-id> <peerlink-ifindex> <peer-link-port-state>
<peer-up-vlan-bitset> <peer-up-bd-bitset> } ] <vpc-end> <vpc-hdr> [ <vpc-is-es> ] [ <vpc-not-es> ] [ {
TABLE_vpc <vpc-id> <vpc-ifindex> <vpc-port-state> <vpc-thru-peerlink> <vpc-consistency> { [
<vpc-consistency-reason> ] [ <vpc-consistency-status> ] } ] [ <vpc-leg-is-es> ] <up-vlan-bitset><up-bd-bitset>
<es-attr> } ] [ <vpc-check-consist-note> ] <vpc-end> ]
```

Syntax Description

vpc	Virtual Port Channel configuration
<i>__readonly__</i>	(Optional) Read Only
TABLE_peerlink	(Optional) vPC peerlink table
TABLE_vpc	(Optional) vPC table
<i>vpc-domain-id</i>	(Optional) vPC domain id
<i>vpc-l2mp-switch-id</i>	(Optional) vPC+ switch ID
<i>vpc-peer-status</i>	(Optional) vPC peer status
<i>vpc-peer-status-reason</i>	(Optional) vPC peer status reason
<i>vpc-peer-keepalive-status</i>	(Optional) vpc peer keepalive status
<i>vpc-peer-l2mp-status</i>	(Optional) vPC fabricpath status
<i>vpc-role</i>	(Optional) vPC role
<i>peer-gateway</i>	(Optional) Peer gateway status
<i>peer-gateway-excluded-vlans</i>	(Optional) peer-gateway excluded VLANs
<i>dual-active-excluded-vlans</i>	(Optional) dual-active excluded VLANs
<i>num-of-vpcs</i>	(Optional) Number of vPCs configured
<i>track-obj</i>	(Optional) Track object for vPC
<i>vpc-graceful-consistency-check-status</i>	(Optional) vPC graceful consistency check
<i>vpc-consistency</i>	(Optional) vPC global configuration consistency
<i>vpc-consistency-reason</i>	(Optional) vPC consistency reason

<i>vpc-consistency-status</i>	(Optional) vPC consistency reason
<i>vpc-peer-consistency</i>	(Optional) vPC global configuration consistency
<i>vpc-peer-consistency-reason</i>	(Optional) vPC consistency reason
<i>vpc-peer-consistency-status</i>	(Optional) vPC consistency reason
<i>vpc-per-vlan-peer-consistency</i>	(Optional) vPC per-vlan global configuration consistency
<i>vpc-type-2-consistency</i>	(Optional) vPC type-2 configuration consistency status
<i>vpc-type-2-consistency-reason</i>	(Optional) vPC type-2 configuration consistency reason
<i>vpc-type-2-consistency-status</i>	(Optional) vPC type-2 configuration consistency status
<i>operational-l3-peer</i>	(Optional) Operational Layer 3 peer status
<i>vpc-scale-high-status</i>	(Optional) vPC scale high status
<i>vpc-hdr</i>	(Optional) Start of vPC table
<i>vpc-is-es</i>	(Optional) Flag to indicate vPC+ complex
<i>vpc-not-es</i>	(Optional) Flag to indicate vPC complex
<i>vpc-peer-link-hdr</i>	(Optional) Start of vPC peer-link table
<i>vpc-thru-peerlink</i>	(Optional) vPC Routing through peerlink
<i>vpc-port-state</i>	(Optional) vPC port state
<i>vpc-leg-is-es</i>	(Optional) Flag to indicate vPC+ complex on vpc leg
<i>vpc-end</i>	(Optional) End of table
<i>vpc-id</i>	(Optional) vPC id
<i>vpc-ifindex</i>	(Optional) vPC ifindex
<i>peer-link-id</i>	(Optional) peer link id
<i>peerlink-ifindex</i>	(Optional) peer link ifindex
<i>peer-link-port-state</i>	(Optional) peer-link port state
<i>peer-up-vlan-bitset</i>	(Optional) peer link UP VLAN bitset
<i>peer-up-bd-bitset</i>	(Optional) peer link UP bridge-domain bitset
<i>es-attr</i>	(Optional) vPC+ attributes
<i>vpc-auto-recovery-status</i>	(Optional) Auto-recovery status
<i>vpc-delay-restore-status</i>	(Optional) Delay-restore status
<i>vpc-delay-restore-svi-status</i>	(Optional) Delay-restore-svi status

<i>vpc-check-consist-note</i>	(Optional) display consistency note
-------------------------------	-------------------------------------

Command Mode

- /exec

show vpc

```
show vpc { <vpc-number> | brief vpc <vpc-number> } [ __readonly__ [ <vpc-hdr> ] [ <vpc-is-es> ] [
<vpc-not-es> ] [ TABLE_vpc <vpc-id> <vpc-ifindex> <vpc-port-state> <vpc-thru-peerlink> <vpc-consistency>
{ [ <vpc-consistency-reason> ] [ <vpc-consistency-status> } ] [ <vpc-leg-is-es> ] <up-vlan-bitset><up-bd-bitset>
<es-attr> ] <vpc-end> ]
```

Syntax Description

vpc	Virtual Port Channel configuration
brief	Brief display of vPC status
vpc-is-es	(Optional) Flag to indicate vPC+ complex
vpc-not-es	(Optional) Flag to indicate vPC complex
vpc-number	Enter a Virtual Port Channel number
__readonly__	(Optional) Read Only
vpc-hdr	(Optional) Start of vPC table
TABLE_vpc	(Optional) vPC table
vpc-id	(Optional) vPC id
vpc-ifindex	(Optional) vPC ifindex
vpc-port-state	(Optional) vPC port state
vpc-leg-is-es	(Optional) Flag to indicate vPC+ complex on vpc leg
vpc-thru-peerlink	(Optional) vPC Routing through peerlink
vpc-consistency	(Optional) vPC global configuration consistency
vpc-consistency-reason	(Optional) vPC consistency reason
vpc-consistency-status	(Optional) vPC consistency reason
es-attr	(Optional) vPC+ attributes
vpc-end	(Optional) End of table

Command Mode

- /exec

show vpc brief

```
show vpc brief [ __readonly__ <vpc-domain-id> [ <vpc-l2mp-switch-id> ] <vpc-peer-status>
<vpc-peer-status-reason> <vpc-peer-keepalive-status> [ <vpc-peer-l2mp-status> ] <vpc-peer-consistency> {
[ <vpc-peer-consistency-reason> ] <vpc-peer-consistency-status> } [ <vpc-per-vlan-peer-consistency> ]
<vpc-type-2-consistency> { [ <vpc-type-2-consistency-reason> ] <vpc-type-2-consistency-status> } <vpc-role>
<num-of-vpcs> [ <track-obj> ] [ <peer-gateway> ] [ <peer-gateway-excluded-vlans> ] [
<dual-active-excluded-vlans> ] <vpc-graceful-consistency-check-status> [ <vpc-auto-recovery-status> ] [
<vpc-delay-restore-status> ] [ <vpc-delay-restore-svi-status> ] <operational-l3-peer> [ <vpc-scale-high-status>
] <vpc-peer-link-hdr> [ { TABLE_peerlink <peer-link-id> <peerlink-ifindex> <peer-link-port-state>
<peer-up-vlan-bitset> <peer-up-bd-bitset> } ] <vpc-end> <vpc-hdr> [ <vpc-is-es> ] [ <vpc-not-es> ] [ {
TABLE_vpc <vpc-id> <vpc-ifindex> <vpc-port-state> <vpc-thru-peerlink> <vpc-consistency> { [
<vpc-consistency-reason> ] [ <vpc-consistency-status> ] } ] [ <vpc-leg-is-es> ] <up-vlan-bitset><up-bd-bitset>
<es-attr> } ] [ <vpc-check-consist-note> ] <vpc-end> ]
```

Syntax Description

vpc	Virtual Port Channel configuration
brief	Brief display of vPC status
__readonly__	(Optional) Read Only
TABLE_peerlink	(Optional) vPC peerlink table
TABLE_vpc	(Optional) vPC table
vpc-domain-id	(Optional) vPC domain id
vpc-l2mp-switch-id	(Optional) vPC+ switch ID
vpc-peer-status	(Optional) vPC peer status
vpc-peer-status-reason	(Optional) vPC peer status reason
vpc-peer-keepalive-status	(Optional) vpc peer keepalive status
vpc-peer-l2mp-status	(Optional) vPC fabricpath status
vpc-role	(Optional) vPC role
peer-gateway	(Optional) Peer gateway status
peer-gateway-excluded-vlans	(Optional) peer-gateway excluded VLANs
dual-active-excluded-vlans	(Optional) dual-active excluded VLANs
num-of-vpcs	(Optional) Number of vPCs configured
track-obj	(Optional) Track object for vPC
vpc-graceful-consistency-check-status	(Optional) vPC graceful consistency check
vpc-consistency	(Optional) vPC global configuration consistency

<i>vpc-consistency-reason</i>	(Optional) vPC consistency reason
<i>vpc-consistency-status</i>	(Optional) vPC consistency reason
<i>vpc-peer-consistency</i>	(Optional) vPC global configuration consistency
<i>vpc-peer-consistency-reason</i>	(Optional) vPC consistency reason
<i>vpc-peer-consistency-status</i>	(Optional) vPC consistency reason
<i>vpc-per-vlan-peer-consistency</i>	(Optional) vPC per-vlan global configuration consistency
<i>vpc-type-2-consistency</i>	(Optional) vPC type-2 configuration consistency status
<i>vpc-type-2-consistency-reason</i>	(Optional) vPC type-2 configuration consistency reason
<i>vpc-type-2-consistency-status</i>	(Optional) vPC type-2 configuration consistency status
<i>operational-l3-peer</i>	(Optional) Operational Layer 3 peer status
<i>vpc-scale-high-status</i>	(Optional) vPC scale high status
<i>vpc-hdr</i>	(Optional) Start of vPC table
<i>vpc-is-es</i>	(Optional) Flag to indicate vPC+ complex
<i>vpc-not-es</i>	(Optional) Flag to indicate vPC complex
<i>vpc-peer-link-hdr</i>	(Optional) Start of vPC peer-link table
<i>vpc-port-state</i>	(Optional) vPC port state
<i>vpc-leg-is-es</i>	(Optional) Flag to indicate vPC+ complex on vpc leg
<i>vpc-thru-peerlink</i>	(Optional) vPC Routing through peerlink
<i>vpc-end</i>	(Optional) End of table
<i>vpc-id</i>	(Optional) vPC id
<i>vpc-ifindex</i>	(Optional) vPC ifindex
<i>peer-link-id</i>	(Optional) peer link id
<i>peerlink-ifindex</i>	(Optional) peer link ifindex
<i>peer-link-port-state</i>	(Optional) peer-link port state
<i>peer-up-vlan-bitset</i>	(Optional) peer link UP VLAN bitset
<i>peer-up-bd-bitset</i>	(Optional) peer link UP bridge-domain bitset
<i>es-attr</i>	(Optional) vPC+ attributes
<i>vpc-auto-recovery-status</i>	(Optional) Auto-recovery status
<i>vpc-delay-restore-status</i>	(Optional) Delay-restore status

<i>vpc-delay-restore-svi-status</i>	(Optional) Delay-restore-svi status
<i>vpc-check-consist-note</i>	(Optional) display consistency note

Command Mode

- /exec

show vpc consistency-checker pss

```
show vpc consistency-checker pss { global | peer-link | vpc <vpc-num> | peer-vpc <peer-num> | all } [
__readonly__ { TABLE_vpc_pss_consistency
<vpc-pss-param-name><vpc-param-runtime-val><vpc-param-pss-val><vpc-param-vpc-num> } ]
```

Syntax Description

vpc	Virtual Port Channel configuration
consistency-checker	Show only inconsistent parameters
pss	Check the pss info
global	Global parameters
peer-link	Peer-link parameters
peer-vpc	Peer parameters
all	All parameters
<i>vpc-num</i>	Enter a Virtual Port Channal number
<i>peer-num</i>	Enter a Virtual Port Channal number
__readonly__	(Optional) Read Only
TABLE_vpc_pss_consistency	(Optional) vPC table

Command Mode

- /exec

show vpc consistency-checker sdb

```
show vpc consistency-checker sdb { peer-link | vpc <vpc-num> | all } [ __readonly__ {
TABLE_vpc_sdb_consistency
<vpc-sdb-param-name><vpc-param-runtime-val><vpc-param-sdb-val><vpc-param-vpc-num> } ]
```

Syntax Description

vpc	Virtual Port Channel configuration
consistency-checker	Show only inconsistent parameters
sdb	Check the sdb info
peer-link	Peer-link parameters
all	All parameters
<i>vpc-num</i>	Enter a Virtual Port Channal number
<i>__readonly__</i>	(Optional) Read Only
TABLE_vpc_sdb_consistency	(Optional) vPC table

Command Mode

- /exec

show vpc consistency-parameters

```
show vpc consistency-parameters { global | interface <if> | vpc <vpc-num> } [ errors ] [ __readonly__ {
TABLE_vpc_consistency <vpc-param-name> <vpc-param-type> <vpc-param-local-val> <vpc-param-peer-val>
} ]
```

Syntax Description

vpc	Virtual Port Channel configuration
consistency-parameters	Show vPC Consistency Parameters
global	Global Parameters
errors	(Optional) Show only inconsistent parameters
<i>if</i>	
<i>vpc-num</i>	Enter a Virtual Port Channel number
<i>__readonly__</i>	(Optional) Read Only
TABLE_vpc_consistency	(Optional) vPC table
<i>vpc-param-name</i>	(Optional) vPC consistency parameter name
<i>vpc-param-type</i>	(Optional) vPC consistency parameter type
<i>vpc-param-local-val</i>	(Optional) vPC consistency parameter local value
<i>vpc-param-peer-val</i>	(Optional) vPC consistency parameter peer's value

Command Mode

- /exec

show vpc consistency-parameters vlans

```
show vpc consistency-parameters vlans [ vpc <vpc-number> ] [ errors ] [ __readonly__ <show-errors-hdr>
{ [ TABLE_vpc_consistency <vpc-param-name> <vpc-param-type> [ <reason_code> ] [ <syserr> ]
<vpc-pass-vlans> [ <reason_code> ] ] } ]
```

Syntax Description

vpc	Virtual Port Channel configuration
consistency-parameters	Show vPC Consistency Parameters
vlans	vlans
errors	(Optional) Show only inconsistent parameters
vpc-number	(Optional) Enter a Virtual Port Channel number
__readonly__	(Optional) Read Only
TABLE_vpc_consistency	(Optional) vPC table
show-errors-hdr	(Optional) display header for errors
vpc-param-name	(Optional) vPC consistency parameter name
vpc-param-type	(Optional) vPC consistency parameter type
vpc-pass-vlans	(Optional) vPC consistency pass Vlans
syserr	(Optional) vPC consistency reason
reason_code	(Optional) vPC consistency reason

Command Mode

- /exec

show vpc orphan-ports

```
show vpc orphan-ports [ { suspend <config-status> | vlan <vlans> [ suspend <config-status> ] | bridge-domain
<bridge-domains> [ suspend <config-status> ] } ] [ __readonly__ <vpc-peerlink-status> <vpc-role> [ {
TABLE_orphan_ports [ <vpc-orphan-ports> ] [ <configsuspend> ] [ <statussuspend> ] [ <orpvlan> ] } ] ]
```

Syntax Description

vpc	Virtual Port Channel configuration
orphan-ports	Show ports that are not part of vPC
suspend	(Optional) Show orphan-ports configured with suspend or in suspended state
vlan	(Optional) Show orphan-ports that are in given vlan
bridge-domain	(Optional) Show orphan-ports that are in given bridge-domain
__readonly__	(Optional) Read Only
TABLE_orphan_ports	(Optional) vPC orphan ports table
<i>vpc-peerlink-status</i>	(Optional) vPC peerlink status
<i>vpc-role</i>	(Optional) vPC role
<i>vpc-orphan-ports</i>	(Optional) vPC orphan ports
<i>config-status</i>	(Optional) Show orphan-ports that are configured with orphan-port suspend or in suspend state
<i>configsuspend</i>	(Optional) vPC orphan port suspend config
<i>statussuspend</i>	(Optional) vPC orphan port suspend status
<i>orpvlan</i>	(Optional) vPC orphan port vlan
<i>vlans</i>	(Optional) vlans
<i>bridge-domains</i>	(Optional) bridge domain

Command Mode

- /exec

show vpc peer-keepalive

```
show vpc peer-keepalive [ __readonly__ <vpc-peer-keepalive-status> [ <vpc-peer-keepalive-up-time> ] [
<vpc-keepalive-dest> <vpc-keepalive-send-interface> <vpc-keepalive-receive-interface>
<vpc-keepalive-send-tstamp> <vpc-keepalive-receive-tstamp> [ <vpc-peer-keepalive-up-time> ]
<vpc-keepalive-send-status> <vpc-keepalive-receive-status> <vpc-keepalive-lastupdate> [ <vpc-keepalive-dest>
] <vpc-keepalive-interval> <vpc-keepalive-timeout> <vpc-keepalive-hold-timeout> <vpc-keepalive-vrf>
<vpc-keepalive-udp-port> <vpc-keepalive-tos> ] ]
```

Syntax Description

vpc	Virtual Port Channel configuration
peer-keepalive	vPC keepalive status
__readonly__	(Optional) Read Only
<i>vpc-peer-keepalive-status</i>	(Optional) vpc peer keepalive status
<i>vpc-keepalive-dest</i>	(Optional) vPC keepalive destination ip address
<i>vpc-keepalive-send-status</i>	(Optional) vPC keepalive send status
<i>vpc-keepalive-receive-status</i>	(Optional) vPC keepalive receive status
<i>vpc-peer-keepalive-up-time</i>	(Optional) keepalive- alive time
<i>vpc-keepalive-send-tstamp</i>	(Optional) vPC keepalive last send timestamp
<i>vpc-keepalive-send-interface</i>	(Optional) vPC keepalive send interface
<i>vpc-keepalive-receive-tstamp</i>	(Optional) vPC keepalive last receive timestamp
<i>vpc-keepalive-receive-interface</i>	(Optional) vPC keepalive receive interface
<i>vpc-keepalive-lastupdate</i>	(Optional) vPC keepalive last update from peer
<i>vpc-keepalive-interval</i>	(Optional) vPC keepalive timeout
<i>vpc-keepalive-timeout</i>	(Optional) vPC keepalive interval
<i>vpc-keepalive-hold-timeout</i>	(Optional) hold timeout
<i>vpc-keepalive-vrf</i>	(Optional) vrf name
<i>vpc-keepalive-udp-port</i>	(Optional) udp port
<i>vpc-keepalive-tos</i>	(Optional) tos value

Command Mode

- /exec

show vpc role

```
show vpc role [ __readonly__ <vpc-peer-status> <vpc-peer-status-reason> [ <vpc-current-role> ] [
<vpc-es-current-role> ] [ <dual-active-detected> ] <vpc-system-mac> <vpc-system-prio>
<vpc-local-system-mac> <vpc-local-system-prio> <vpc-peer-system-mac> <vpc-peer-system-prio> ]
```

Syntax Description

vpc	Virtual Port Channel configuration
role	vPC role status
<i>__readonly__</i>	(Optional) Read Only
<i>vpc-peer-status</i>	(Optional) vPC peer status
<i>vpc-peer-status-reason</i>	(Optional) vPC peer status reason
<i>vpc-current-role</i>	(Optional) vPC role
<i>vpc-es-current-role</i>	(Optional) vPC role
<i>dual-active-detected</i>	(Optional) Dual active detection status
<i>vpc-system-mac</i>	(Optional) vPC system mac
<i>vpc-local-system-mac</i>	(Optional) vPC local system mac
<i>vpc-peer-system-mac</i>	(Optional) vPC peer system mac
<i>vpc-system-prio</i>	(Optional) vPC system priority
<i>vpc-local-system-prio</i>	(Optional) vPC local system priority
<i>vpc-peer-system-prio</i>	(Optional) vPC peer system priority

Command Mode

- /exec

show vpc statistics peer-keepalive

show vpc statistics peer-keepalive [*__readonly__* <vpc-keepalive-counters-tx> <vpc-keepalive-counters-rx> <vpc-keepalive-avg-rx-interval> <vpc-keepalive-peer-state-changes>]

Syntax Description

vpc	Virtual Port Channel configuration
statistics	Statistics
peer-keepalive	peer keepalive module related statistics
<i>__readonly__</i>	(Optional) Read Only
<i>vpc-keepalive-counters-tx</i>	(Optional) tx counters
<i>vpc-keepalive-counters-rx</i>	(Optional) rx counters
<i>vpc-keepalive-avg-rx-interval</i>	(Optional) avg rx interval in ms
<i>vpc-keepalive-peer-state-changes</i>	(Optional) peer state changes

Command Mode

- /exec

show vpc statistics vpc

```
show vpc statistics { vpc <vpc_num> | peer-link }
```

Syntax Description

vpc	Virtual Port Channel configuration
statistics	Statistics
<i>vpc_num</i>	Virtual Port Channel number
peer-link	stats for peer-link

Command Mode

- /exec

show vrf

```
show vrf [ <vrf-name> | <vrf-known-name> | all ] [ order id ] [ detail ] [ passive ] [ __readonly__ TABLE_vrf
<vrf_name> <vrf_id> <vrf_state> [ <vrf_reason> ] [ <vrf_pend> ] [ <vpnid> <rd> <vni> <max_routes>
<mid_threshold> ] [ { TABLE_tib <tib_id> <tib_af> <tib_nonce> <tib_state> [ <tib_reason> ] [ <tib_pend>
} ] ] ]
```

Syntax Description

show	Show running system information
vrf	Display VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display VRF information for all VRFs
order	(Optional) Specify ordering
id	(Optional) Order by ID
detail	(Optional) Display VRF detail information
passive	(Optional) Display passive VRF information
__readonly__	(Optional)
TABLE_vrf	(Optional)
TABLE_tib	(Optional)
<i>vrf_name</i>	(Optional)
<i>vrf_id</i>	(Optional)
<i>vrf_state</i>	(Optional)
<i>vrf_reason</i>	(Optional)
<i>vrf_pend</i>	(Optional)
<i>vpnid</i>	(Optional)
<i>rd</i>	(Optional)
<i>max_routes</i>	(Optional)
<i>mid_threshold</i>	(Optional)
<i>tib_id</i>	(Optional)
<i>tib_af</i>	(Optional)

<i>tib_nonce</i>	(Optional)
<i>tib_state</i>	(Optional)
<i>tib_reason</i>	(Optional)
<i>tib_pend</i>	(Optional)
<i>vni</i>	(Optional)

Command Mode

- /exec

show vrf

show vrf [<vrf-name> | <vrf-known-name> | all]

Syntax Description

show	Show running system information
vrf	Display VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display VRF information for all VRFs

Command Mode

- /exec

show vrf topology

```
show vrf topology [ order id ] [ detail ] [ __readonly__ TABLE_tib <vrf_name> <tib_af> <tib_name> <tib_id>
<tib_state> [ <tib_reason> <tib_pend> ] ]
```

Syntax Description

show	Show running system information
vrf	Configure VRF parameters
topology	Display topology information
order	(Optional) Specify ordering
id	(Optional) Order by ID
detail	(Optional) Display topology detail information
__readonly__	(Optional)
TABLE_tib	(Optional)
<i>vrf_name</i>	(Optional)
<i>tib_af</i>	(Optional)
<i>tib_name</i>	(Optional)
<i>tib_id</i>	(Optional)
<i>tib_state</i>	(Optional)
<i>tib_reason</i>	(Optional)
<i>tib_pend</i>	(Optional)

Command Mode

- /exec

show vrrp

```
show vrrp [ [ summary ] | { [ statistics | detail ] [ interface <interface_id> ] [ vr <vr_id> ] [ master | backup |
init ] + } ] [ __readonly__ <show_vrrp_start> { TABLE_vrrp_group <sh_if_index> <sh_group_id>
<sh_group_type> <sh_group_state> <sh_group_preempt> <sh_vip_addr> { [ TABLE_sec_vip_addr
<sh_sec_vip_addr> ] } <sh_priority> [ <sh_cfg_priority> <sh_fwd_thr_lower> <sh_fwd_thr_upper> ]
<sh_adv_interval> [ <sh_auth_text> ] [ <sh_vmac> ] [ <sh_master_router> ] [ <sh_native_track_intf>
<sh_native_track_priotiry> ] { [ TABLE_vrrp_track <sh_track_object_id> <sh_decrement_priority>
<sh_track_object_state> ] } [ <sh_bfd_status> <sh_bfd_session> ] } <sh_vrrp_end> ]
```

Syntax Description

show	Show running system information
vrrp	Show vrrp information
summary	(Optional) Show vrrp summary
statistics	(Optional) Show vrrp statistics
detail	(Optional) Show detailed information
interface	(Optional) Show vrrp info for the interface
<i>interface_id</i>	(Optional)
vr	(Optional) Show vrrp info for the group
<i>vr_id</i>	(Optional) [1-255] enter IPv4 vr group
master	(Optional) Groups in Master state
backup	(Optional) Groups in Backup state
init	(Optional) Groups in Init state
__readonly__	(Optional) Read only
<i>show_vrrp_start</i>	(Optional) Show vrrp start
TABLE_vrrp_group	(Optional) Group detail table
<i>sh_if_index</i>	(Optional) Interface type and number
<i>sh_group_id</i>	(Optional) Group number
<i>sh_group_type</i>	(Optional) Group type
<i>sh_group_state</i>	(Optional) VRRP group state
<i>sh_group_preempt</i>	(Optional) Group preemption statue
<i>sh_vip_addr</i>	(Optional) Virtual IP Address
TABLE_sec_vip_addr	(Optional) Secondary virtual ip address table

<i>sh_sec_vip_addr</i>	(Optional) Secondary virtual ip address
<i>sh_priority</i>	(Optional) Priority of VRRP group
<i>sh_auth_text</i>	(Optional) Authentication text
<i>sh_cfg_priority</i>	(Optional) Configured priority of VRRP group
<i>sh_fwd_thr_lower</i>	(Optional) Lower forwarding threshold
<i>sh_fwd_thr_upper</i>	(Optional) Upper forwarding threshold
<i>sh_adv_interval</i>	(Optional) Advertisement interval
<i>sh_ymac</i>	(Optional) Virtual MAC
<i>sh_master_router</i>	(Optional) Master router
<i>sh_native_track_intf</i>	(Optional) Native tracked interface
<i>sh_native_track_priotiry</i>	(Optional) Decrement priority for Native tracking
TABLE_vrrp_track	(Optional) VRRP tracking table
<i>sh_track_object_id</i>	(Optional) Object id of tracking object
<i>sh_decrement_priority</i>	(Optional) Decrement priority
<i>sh_track_object_state</i>	(Optional) Tracking object state
<i>sh_bfd_status</i>	(Optional) BFD status
<i>sh_bfd_session</i>	(Optional) BFD session status
<i>sh_vrrp_end</i>	(Optional) Show vrrp end

Command Mode

- /exec

show vrrp bfd-sessions

```
show vrrp bfd-sessions [ interface <interface-id> [ to <ipaddress> ] ] [ __readonly__ TABLE_bfd_sess
<interface> { <src_addr> | <src_addr_v6> } { <dst_addr> | <dst_addr_v6> } <session_state> <ref_count>
<displayed_interface> { TABLE_groups <group_id> <vrrp_state> <bfd_status> <operation> <time> } ]
```

Syntax Description

show	Show running system information
vrrp	Show vrrp information
bfd-sessions	BFD sessions
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
to	(Optional) To IP address
<i>ipaddress</i>	(Optional) Sessions to IP address
<i>__readonly__</i>	(Optional)
TABLE_bfd_sess	(Optional)
<i>interface</i>	(Optional) Interface
<i>src_addr</i>	(Optional) IPv4 Source address
<i>dst_addr</i>	(Optional) IPv4 Destination address
<i>session_state</i>	(Optional) Session state
<i>ref_count</i>	(Optional) Ref count
<i>displayed_interface</i>	(Optional) Displayed interface
TABLE_groups	(Optional)
<i>group_id</i>	(Optional) Group id
<i>vrrp_state</i>	(Optional) VRRP STATE
<i>bfd_status</i>	(Optional) BFD STATE
<i>operation</i>	(Optional) Operation
<i>time</i>	(Optional) Time

Command Mode

- /exec

show vrrpv3

```
show vrrpv3 [ brief | detail | statistics ] [ <intf> [ <group_num> ] ] [ <opt_v4_or_v6> ] [ all ] [ __readonly__
<global_drops> { TABLE_istats <i_intf> <i_drops> <ttl> <checksum> <version> <type> <length> <badid>
<other> } { TABLE_grp <intf> <id> <af> <desc> <state> <duration> <vip> { TABLE_sec <addr> <prefix>
} <vmac> <adv> <owner> <preempt> <delay> <delay_rem> <priority> <m_addr> <m_priority> <m_adv>
<m_expire> <down> <down_expire> <adv_sent> <adv_err> <adv_recvd> <v2adv_sent> <v2adv_err>
<v2adv_recvd> <drops> <incompat> <conflict> <bad_count> <bad_addr> <bad_config> <bad_advert>
<bad_state> <bad_other> <init_master> <init_master_time> <init_backup> <init_backup_time> <back_master>
<back_master_time> <master_back> <master_back_time> <mast_init> <mast_init_time> <back_init>
<back_init_time> } ]
```

Syntax Description

show	Show running system information
vrrpv3	VRRPv3 Show commands
all	(Optional) All VRRPV3 information
brief	(Optional) Brief output
detail	(Optional) Detail output
statistics	(Optional) Statistics output
<i>opt_v4_or_v6</i>	(Optional) Enter ipv4 or ipv6
<i>intf</i>	(Optional) Interface
<i>group_num</i>	(Optional) Group Number
<i>__readonly__</i>	(Optional)
TABLE_istats	(Optional) Interface-level VRRPv3 statistics
TABLE_grp	(Optional) VRRP Groups
TABLE_sec	(Optional) Secondary Addresses
<i>global_drops</i>	(Optional) Total dropped packets
<i>i_intf</i>	(Optional) Interface
<i>i_drops</i>	(Optional) Total dropped packets
<i>ttl</i>	(Optional) Invalid TTL/Hop limit
<i>checksum</i>	(Optional) Invalid checksum
<i>version</i>	(Optional) Invalid version
<i>type</i>	(Optional) Invalid message type
<i>length</i>	(Optional) Invalid length

<i>badid</i>	(Optional) Invalid group ID
<i>other</i>	(Optional) Other
<i>intf</i>	(Optional) Interface
<i>id</i>	(Optional) Group ID
<i>af</i>	(Optional) Address family
<i>desc</i>	(Optional) Description
<i>state</i>	(Optional) Group state
<i>duration</i>	(Optional) Time in current state
<i>vip</i>	(Optional) Primary virtual IP address
<i>addr</i>	(Optional) Secondary virtual IP address
<i>prefix</i>	(Optional) Secondary vIP prefix
<i>vmac</i>	(Optional) Virtual MAC address
<i>adv</i>	(Optional) Advertisement interval
<i>preempt</i>	(Optional) Preemption status
<i>owner</i>	(Optional) Owner mode
<i>delay</i>	(Optional) Preemption delay
<i>delay_rem</i>	(Optional) Preemption delay remaining
<i>priority</i>	(Optional) Priority
<i>m_addr</i>	(Optional) Group master router address
<i>m_priority</i>	(Optional) Group master priority
<i>m_adv</i>	(Optional) Master advertisement interval
<i>m_expire</i>	(Optional) Master expiration
<i>down</i>	(Optional) Master down interval
<i>down_expire</i>	(Optional) Master down expiration
<i>adv_sent</i>	(Optional) Advertisements sent
<i>adv_err</i>	(Optional) Advertisement errors
<i>adv_recvd</i>	(Optional) Advertisements received
<i>v2adv_sent</i>	(Optional) Advertisements sent (v2)
<i>v2adv_err</i>	(Optional) Advertisement errors (v2)

<i>v2adv_recvd</i>	(Optional) Advertisements received (v2)
<i>drops</i>	(Optional) Total dropped packets
<i>incompat</i>	(Optional) v2, Incompatible
<i>conflict</i>	(Optional) Address owner conflicts
<i>bad_count</i>	(Optional) Invalid address count
<i>bad_addr</i>	(Optional) Invalid IP address
<i>bad_config</i>	(Optional) Invalid IP address config
<i>bad_advert</i>	(Optional) Invalid advertisement interval
<i>bad_state</i>	(Optional) Invalid group state
<i>bad_other</i>	(Optional) Other
<i>init_master</i>	(Optional) Init to Master
<i>init_master_time</i>	(Optional) Last Occurrence
<i>init_backup</i>	(Optional) Init to Backup
<i>init_backup_time</i>	(Optional) Last Occurrence
<i>back_master</i>	(Optional) Backup to Master
<i>back_master_time</i>	(Optional) Last Occurrence
<i>master_back</i>	(Optional) Master to Backup
<i>master_back_time</i>	(Optional) Last Occurrence
<i>mast_init</i>	(Optional) Master to Init
<i>mast_init_time</i>	(Optional) Last Occurrence
<i>back_init</i>	(Optional) Backup to Init
<i>back_init_time</i>	(Optional) Last Occurrence

Command Mode

- /exec

show vrrs client

```
show vrrs client [ <cname> ] [ __readonly__ { TABLE_client <name> <id> <all> <priority> { TABLE_tags
<tname> } } ]
```

Syntax Description

vrrs	VRRS Show commands
show	Show running system information
client	Information about VRRS clients
<i>cname</i>	(Optional) VRRS client name
<i>__readonly__</i>	(Optional)
TABLE_client	(Optional) VRRS clients
TABLE_tags	(Optional) VRRS tags
<i>name</i>	(Optional) VRRS client name
<i>id</i>	(Optional) VRRS client id
<i>priority</i>	(Optional) Priority
<i>all</i>	(Optional) Client follows all tags
<i>tname</i>	(Optional) VRRS tag name

Command Mode

- /exec

show vrrs pathway

```
show vrrs pathway [ <intf> ] [ __readonly__ { TABLE_pws <name> <state> <vrrs_push_state> <vmac>
<vmac_state> <vmac_dbg> <pvmac> <pvmac_state> <pvmac_dbg> <af> [ <desc> ] <opt> <eval> [ {
TABLE_vips <addr> [ <flags> ] } } ] ]
```

Syntax Description

vrrs	VRRS Show commands
show	Show running system information
pathway	Information about VRRS pathways
<i>intf</i>	(Optional) Interface
<i>__readonly__</i>	(Optional)
TABLE_pws	(Optional) Show VRRS pathways
TABLE_vips	(Optional) Pathway vIP addresses
<i>name</i>	(Optional) Pathway name
<i>state</i>	(Optional) Pathway state
<i>vrrs_push_state</i>	(Optional) VRRS push state
<i>vmac</i>	(Optional) Virtual MAC address
<i>vmac_state</i>	(Optional) Virtual MAC state
<i>vmac_dbg</i>	(Optional) Virtual MAC debug flags
<i>pvmac</i>	(Optional) Previous Virtual MAC address
<i>pvmac_state</i>	(Optional) Previous MAC state
<i>pvmac_dbg</i>	(Optional) Previous MAC debug flags
<i>af</i>	(Optional) Pathway address-family
<i>desc</i>	(Optional) Pathway description
<i>opt</i>	(Optional) Option flags
<i>eval</i>	(Optional) Eval flags
<i>addr</i>	(Optional) Virtual IP address
<i>flags</i>	(Optional) Virtual IP address flags

Command Mode

- /exec

show vrrs pathway address

show vrrs pathway [<intf>] address

Syntax Description

vrrs	VRRS Show commands
show	Show running system information
pathway	Information about VRRS pathways
<i>intf</i>	(Optional) Interface
address	Internal information about pathway addresses

Command Mode

- /exec

show vrrs server

```
show vrrs server [ __readonly__ { TABLE_srv <name> <af> <intf> <state> <vmac> <vip> [ { TABLE_tag
<tag> } ] } ]
```

Syntax Description

vrrs	VRRS Show commands
show	Show running system information
server	Information about VRRS servers
__readonly__	(Optional)
TABLE_srv	(Optional) VRRS Servers
TABLE_tag	(Optional) VRRS tags associated with each server
<i>name</i>	(Optional) VRRS server name
<i>af</i>	(Optional) Address-family
<i>intf</i>	(Optional) Interface
<i>state</i>	(Optional) VRRS server state
<i>vmac</i>	(Optional) Virtual MAC address
<i>vip</i>	(Optional) Virtual IP address
<i>tag</i>	(Optional) VRRS tag

Command Mode

- /exec

show vrrs tag

```
show vrrs tag [ <tagname> ] [ __readonly__ { TABLE_tag <name> <server> [ { TABLE_client <id> <client>
<all> } ] } ]
```

Syntax Description

vrrs	VRRS Show commands
show	Show running system information
tag	Information about VRRS tags
<i>tagname</i>	(Optional) VRRS tag
<i>__readonly__</i>	(Optional)
TABLE_tag	(Optional) Known VRRS tags
TABLE_client	(Optional) VRRS clients listening
<i>name</i>	(Optional) VRRS tag name
<i>server</i>	(Optional) VRRS server name
<i>id</i>	(Optional) VRRS client id
<i>client</i>	(Optional) VRRS client name
<i>all</i>	(Optional) Client follows all tags

Command Mode

- /exec

show vtp counters

```
show vtp counters [ __readonly__ <start> <summary_rx> <subset_rx> <request_rx> <summary_tx>
<subset_tx> <request_tx> <num_config_rev_error> <num_config_digest_error> <num_v1_summary_error>
{ TABLE_pruning_counters <if_index> <join_tx> <join_rx> <summary_adv_v1_rx> } ]
```

Syntax Description

show	Show running system information
vtp	VTP information
counters	VTP statistics
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>summary_rx</i>	(Optional) Summary advertisements received
<i>subset_rx</i>	(Optional) Subset advertisements received
<i>request_rx</i>	(Optional) Request advertisements received
<i>summary_tx</i>	(Optional) Summary advertisements transmitted
<i>subset_tx</i>	(Optional) Subset advertisements transmitted
<i>request_tx</i>	(Optional) Request advertisements transmitted
<i>num_config_rev_error</i>	(Optional) Number of config revision errors
<i>num_config_digest_error</i>	(Optional) Number of config digest errors
<i>num_v1_summary_error</i>	(Optional) Number of V1 summary errors
TABLE_pruning_counters	(Optional) Pruning counters in table format
<i>if_index</i>	(Optional) Trunk
<i>join_tx</i>	(Optional) Join Transmitted
<i>join_rx</i>	(Optional) Join Received
<i>summary_adv_v1_rx</i>	(Optional) Summary advts received from non-pruning-capable device

Command Mode

- /exec

show vtp datafile

show vtp datafile

Syntax Description

show	Show running system information
vtp	VTP information
datafile	vlan.dat

Command Mode

- /exec

show vtp domain id

```
show vtp domain id <domain-id> [ __readonly__ <start> <domain_name> <oper-mode> <config_rev>
<last_modified_ip> <last_modified_time> <tftp_server> <tftp_file_path> <pruning_mode> <version_in_use>
<oper_pruning_mode> ]
```

Syntax Description

show	Show running system information
vtp	VTP information
domain	VTP administrative domain
id	VTP administrative domain ID
<i>domain-id</i>	Domain index(Domain-id)
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>domain_name</i>	(Optional) VTP Domain Name
<i>oper-mode</i>	(Optional) VTP Mode
<i>config_rev</i>	(Optional) Configuration Revision
<i>last_modified_ip</i>	(Optional) Configuration last modified by
<i>last_modified_time</i>	(Optional) Configuration last modified at
<i>tftp_server</i>	(Optional) TFTP Server IP Address
<i>tftp_file_path</i>	(Optional) TFTP complete path of the file
<i>pruning_mode</i>	(Optional) Pruning mode Enabled/Disabled
<i>version_in_use</i>	(Optional) VTP Version in use
<i>oper_pruning_mode</i>	(Optional) Operational Pruning Mode

Command Mode

- /exec

show vtp interface

```
show vtp interface [ <interface_range> ] [ __readonly__ <start> { TABLE_vtp_interface <if_index> <status> } ]
```

Syntax Description

show	Show running system information
vtp	VTP information
interface	VTP interface status and configuration
<i>interface_range</i>	(Optional) Enter interfaces
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
TABLE_vtp_interface	(Optional) VTP interface configuration in table format
<i>if_index</i>	(Optional) Trunk
<i>status</i>	(Optional) VTP interface status

Command Mode

- /exec

show vtp mibstats

```
show vtp mibstats [ __readonly__ <start> <summary_rx> <subset_rx> <request_rx> <summary_tx>
<subset_tx> <request_tx> <num_config_rev_error> <num_config_digest_error> ]
```

Syntax Description

show	Show running system information
vtp	VTP information
mibstats	VTP Statistics for MIB
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>summary_rx</i>	(Optional) Summary advertisements received
<i>subset_rx</i>	(Optional) Subset advertisements received
<i>request_rx</i>	(Optional) Request advertisements received
<i>summary_tx</i>	(Optional) Summary advertisements transmitted
<i>subset_tx</i>	(Optional) Subset advertisements transmitted
<i>request_tx</i>	(Optional) Request advertisements transmitted
<i>num_config_rev_error</i>	(Optional) Number of config revision errors
<i>num_config_digest_error</i>	(Optional) Number of config digest errors

Command Mode

- /exec

show vtp password

```
show vtp password [ domain <domain-id> ] [ __readonly__ <start> <passwd> <password-type> <secret-key> ]
```

Syntax Description

show	Show running system information
vtp	VTP information
password	VTP password
domain	(Optional) VTP administrative domain
<i>domain-id</i>	(Optional) Domain index(Domain-id)
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>passwd</i>	(Optional) VTP Domain Password
<i>password-type</i>	(Optional) Password Type (1=plaintext, 2=hidden)
<i>secret-key</i>	(Optional) Secret Key for the password

Command Mode

- /exec

show vtp status

```
show vtp status [ __readonly__ <start> <version> <config_rev> <max_vlan_supported_local>
<num_current_vlans> <oper_mode> <domain_name> <pruning_mode> <oper_pruning_mode> <v2_mode>
<trap_enabled> <md5_digest> <last_modified_ip> <last_modified_time> <running-version> <updater_id>
<updater_reason> ]
```

Syntax Description

show	Show running system information
vtp	VTP information
status	VTP domain status
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>version</i>	(Optional) VTP version
<i>config_rev</i>	(Optional) Configuration Revision
<i>max_vlan_supported_local</i>	(Optional) Maximum VLANs supported locally
<i>num_current_vlans</i>	(Optional) Number of existing VLANs
<i>oper_mode</i>	(Optional) VTP Mode
<i>domain_name</i>	(Optional) VTP Domain Name
<i>pruning_mode</i>	(Optional) Pruning Mode
<i>oper_pruning_mode</i>	(Optional) Operational Pruning Mode
<i>v2_mode</i>	(Optional) VTP v2 Mode
<i>trap_enabled</i>	(Optional) trap enabled
<i>md5_digest</i>	(Optional) MD5 Digest
<i>last_modified_ip</i>	(Optional) Configuration last modified by
<i>last_modified_time</i>	(Optional) Configuration last modified at
<i>running-version</i>	(Optional) VTP Version Running
<i>updater_id</i>	(Optional) Local Updater id
<i>updater_reason</i>	(Optional) Local Updater id reason

Command Mode

- /exec

show vtp trunk interface

```
show vtp trunk interface <if_index> [ __readonly__ <start> <out_if_index> <join_rx> <join_tx>
<summary_adv_vl_rx> <pruning_eligible> <vlan_joined_tx> <vlan_joined_rx> <vtp_enabled> ]
```

Syntax Description

show	Show running system information
vtp	VTP information
trunk	VTP Trunk VLAN
interface	Specify an VTP Trunk interface
<i>if_index</i>	VTP Trunk Port Interface Index
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>out_if_index</i>	(Optional) Returned VTP Trunk Port Interface Index
<i>join_rx</i>	(Optional) Join(s) Received
<i>join_tx</i>	(Optional) Join(s) Transmitted
<i>summary_adv_vl_rx</i>	(Optional) Summary advts received from non-pruning-capable device
<i>pruning_eligible</i>	(Optional) Pruning Eligible
<i>vlan_joined_tx</i>	(Optional) Trunk Port TX Vlans Joined
<i>vlan_joined_rx</i>	(Optional) Trunk Port RX Vlans Joined
<i>vtp_enabled</i>	(Optional) VTP Enabled (Yes(1)/No(0))

Command Mode

- /exec

show vtp vlan

```
show vtp vlan <vlan-id> [ domain <domain-id> ] [ __readonly__ <start> <status> <type> <vlan_name>
<mtu> <said> <ring_number> <bridge_number> <stp_type> <parent_vlan> <trans_vlan1> <trans_vlan2>
<bridge_type> <max_are_hop> <max_ste_hop> <crf_backup> <vlan_type_ext> <ifindex> ]
```

Syntax Description

show	Show running system information
vtp	VTP information
vlan	VTP Domain VLANs
<i>vlan-id</i>	VTP VLAN index(VLAN-id)
domain	(Optional) VTP administrative domain
<i>domain-id</i>	(Optional) Domain index(Domain-id)
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>status</i>	(Optional) VTP VLAN Status - Operational=0,Suspended=1
<i>type</i>	(Optional) VTP VLAN Type
<i>vlan_name</i>	(Optional) VTP VLAN Name
<i>mtu</i>	(Optional) VTP VLAN MTU
<i>said</i>	(Optional) VTP VLAN ID
<i>ring_number</i>	(Optional) VTP VLAN Ring Number for FDDI/TR
<i>bridge_number</i>	(Optional) VTP VLAN Bridge Number for FDDI-NET/TR-NET
<i>stp_type</i>	(Optional) VTP VLAN STP Type for FDDI-NET/TR-NET
<i>parent_vlan</i>	(Optional) VTP VLAN Parent VLAN for FDDI/TR
<i>trans_vlan1</i>	(Optional) VTP VLAN Translational VLAN 1
<i>trans_vlan2</i>	(Optional) VTP VLAN Translational VLAN 2
<i>bridge_type</i>	(Optional) VTP VLAN Bridge Type
<i>max_are_hop</i>	(Optional) VTP VLAN Max are-hop count
<i>max_ste_hop</i>	(Optional) VTP VLAN Max ste_hop count
<i>crf_backup</i>	(Optional) VTP VLAN Backup CRF Mode

<i>vlan_type_ext</i>	(Optional) VTP VLAN Type - VTP Managable, Internal, RSPAN, Dynamic GVRP
<i>ifindex</i>	(Optional) VTP VLAN Interface Index

Command Mode

- /exec

show vxlan

```
show vxlan [ interface [ <int-id> | <ch-id> ] ]
```

Syntax Description

show	Show running system information
vxlan	VxLAN VLANs
interface	(Optional) Interface
<i>int-id</i>	(Optional) Interface
<i>ch-id</i>	(Optional) Port-Channel name

Command Mode

- /exec



W Commands

- [show wred-queue qos-group-map](#), on page 3104
- [show wrr-queue qos-group-map](#), on page 3105
- [show wrr unicast-bandwidth](#), on page 3106

show wred-queue qos-group-map

show wred-queue qos-group-map

Syntax Description

show	Show running system information
wred-queue	Show WRED qos-group information
qos-group-map	Display mapping of the qos-group information

Command Mode

- /exec

show wrr-queue qos-group-map

show wrr-queue qos-group-map

Syntax Description

show	Show running system information
wrr-queue	Display mapping of traffic priority (CoS) values to L3 Multicast
qos-group-map	Show wrr-queue qos-group-map

Command Mode

- /exec

show wrr unicast-bandwidth

show wrr unicast-bandwidth

Syntax Description

show	Show running system information
wrr	unicast bandwidth configuration
unicast-bandwidth	rate in percentage of data rate

Command Mode

- /exec



X Commands

- [show xml server logging configuration, on page 3108](#)
- [show xml server status, on page 3109](#)

show xml server logging configuration

show xml server logging configuration

Syntax Description

show	Show running system information
xml	Show xmlagent logging configuration
server	xml agent server
logging	Show logging configuration and contents of logfile
configuration	Show facility logging configuration

Command Mode

- /exec

show xml server status

```
show xml server status [ __readonly__ { operational_status <o_status> } { maximum_sessions_configured
<max_session> } [ { TABLE_sessions <session_id> <user_name> <start_time> <sap_id> <timeout>
<time_remaining_to_timeout> <ip_addr> } ] ]
```

Syntax Description

show	to display xml agent information
xml	xml agent
server	xml agent server
status	display xml agent information
<i>__readonly__</i>	(Optional)
<i>operational_status</i>	(Optional) run-time info about xml
<i>o_status</i>	(Optional) operational status of the xml
<i>maximum_sessions_configured</i>	(Optional) the max session configured
<i>max_session</i>	(Optional) max sessions number
<i>TABLE_sessions</i>	(Optional) all xml sessions
<i>session_id</i>	(Optional) one xml session id
<i>user_name</i>	(Optional) the xml session user name
<i>start_time</i>	(Optional) the xml session start time
<i>sap_id</i>	(Optional) the mts sap id
<i>timeout</i>	(Optional) inactivity timeout value
<i>time_remaining_to_timeout</i>	(Optional) time remaining to timeout
<i>ip_addr</i>	(Optional) ip address of the session

Command Mode

- /exec

show xml server status



PART II

Commands with XML/JSON Support

- [Commands with XML/JSON Support, on page 3113](#)



Commands with XML/JSON Support

- [XML Support for Show Commands, on page 3114](#)

XML Support for Show Commands

Table 1:

Show Commands	XML Support
show [<ip_ipv6_mac>] access-lists [<name>] [capture session <capture_session>] [<expanded> <summary> <private> <brief>]	Yes
show [ip] bgp { peer-session [<session-template-name>] peer-policy [<policy-template-name>] }	Yes
show [ip] bgp paths	Yes
show [ip] bgp peer-template [<peer-template-name>]	Yes
show [vdc] resource internal info [{ resource [<res-mgr-res-known-name-all> [vdc <vdc_id>]] }]	No
show { { ipv6 route } { routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] ipv6 [unicast] [topology <topology-name>] } } [l3vm-info]	Yes
show { consistency-checker l2 module <modnum> forwarding consistency l2 <modnum> }	Yes
show { hostname switchname }	Yes
show { ip mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] ip bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_01234567890 }] }	No
show { ip mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] ip bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_01234567890 }] }	No
show { ip mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] ip bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_01234567890 }] }	No
show { ipv6 ip } rip [instance <inst>] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show { ipv6 ip } rip [instance <inst>] interface [<interface>] [detail] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show { ipv6 ip } rip [instance <inst>] memory	Yes
show { ipv6 ip } rip [instance <inst>] neighbor [<interface>] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show { ipv6 ip } rip [instance <inst>] route [{ <ipv6-prefix> <ip-prefix> } [{ longer-prefixes shorter-prefixes }]] [summary] [vrf { <vrf-	Yes
show { ipv6 ip } rip [instance <inst>] statistics [* <interface>]	Yes
show { ipv6 ip } rip [instance <tag>] internal event-history { errors msgs database packet event input output policy timer cli }	No

Show Commands	XML Support
show { ipv6 ip } rip [instance <tag>] internal library-info	No
show { ipv6 ip } rip [instance <tag>] internal mem-stats [all shared] [no-libs] [detail]	No
show { l2 fabricpath } mroute { [vdc-omf] { [resolved] } [vlan <vlanid>] { { [omf] [flood] [source { <srcaddr> <v6srcaddr> <macsr	Yes
show { l2 fabricpath } mroute flood vlan <vlan_id>	Yes
show { l2 fabricpath } mroute summary [detail]	Yes
show { l2 fabricpath } multicast ftag [<ftag-id>]	Yes
show { l2 fabricpath } multicast trees [topo <topo-id>] [ftag <ftag-id>] [hex]	Yes
show { routing ip route } [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] [ip ipv4] [unicast] [topology <topology-name>] [l3vm-info] [Yes
show { system internal hardware } access-list [vdc <vdc_id>] database { interface vlan policy process } [module <module>]	Yes
show { system internal hardware } access-list [vdc <vdc_id>] database { interface vlan policy process } [module <module>]	Yes
show { system internal hardware } access-list { summary [vdc <vdc_id>] } { [interface <if_name> vlan <vlan_id> inband table <table>] [{ inpu	Yes
show { system internal hardware } access-list { summary [vdc <vdc_id>] } { [interface <if_name> vlan <vlan_id> inband table <table>] [{ inpu	Yes
show { system internal hardware } access-list resource { { { entries l4ops redirect ipv6-compression mac-compression aqm-d aqm-q oq o	Yes
show { system internal hardware } access-list resource { { { entries l4ops redirect ipv6-compression mac-compression aqm-d aqm-q oq o	Yes
show topo peerid startup-route server signal ksink-ha all }	No
show aaa accounting	Yes
show aaa authentication	Yes
show aaa authentication login { mschap mschapv2 chap }	Yes
show aaa authentication login ascii-authentication	Yes
show aaa authentication login error-enable	Yes
show aaa authentication login invalid-username-log	No
show aaa authentication login password-aging	Yes
show aaa authorization [all]	Yes

Show Commands	XML Support
show aaa groups	Yes
show aaa local user blocked	No
show aaa user default-role	Yes
show accounting log [{ <i0> start-time <SYYYY> <SMonth> <SDate> <STime> [end-time <EYYYY> <EMonth> <EDate> <ETime>] }]	Yes
show accounting log all	Yes
show accounting log last-index	Yes
show accounting log nvram [{ <i0> start-time <SYYYY> <SMonth> <SDate> <STime> [end-time <EYYYY> <EMonth> <EDate> <ETime>] }]	Yes
show accounting log nvram last-index	Yes
show accounting log nvram start-seqnum <SSEQNUM> [end-seqnum <ESEQNUM>]	Yes
show accounting log start-seqnum <SSEQNUM> [end-seqnum <ESEQNUM>]	Yes
show acl status	Yes
show adbm internal [event-history] errors	No
show adbm internal [event-history] msgs	No
show adbm internal [event-history] vsan <i0>	No
show adbm internal info [{ global vsan <i0> }]	No
show adbm internal mem-stats [detail]	No
show archive	No
show arp access-lists [<name>] [] [capture session <session-id>]	Yes
show background	No
show banner motd	Yes
show bash-shell	Yes
show bfd { [vrf { <vrf-name> <vrf-known-name> all }] } { [<ip_type>] } neighbors { [module <module_no>] [interface <intf_id>] [applicatio	Yes
show bfd addrmap [application <appid> discriminator <discr> address-type <addrtype> address <addr>]	Yes
show bfd clients	Yes
show bfd discrmap [<discr>]	Yes

Show Commands	XML Support
show bfd intfipmap [interface <intf> address-type <addrtype> address <addr>]	Yes
show bfd scalar	Yes
show bfd session { [discriminator <sessionIndex>] [interface <intf_id>] [application <app_name>] [src-ip <src_ip>] [dest-ip <dest_ip>]	Yes
show bfd-app session status { src-ip { <src_ip> dest-ip <dest_ip> <src_ipv6> dest-ip <dest_ipv6> } { iod <iod_id> intf <intf_id> } <all> }	No
show bgp [internal] event-history { <bgp-event-hist> errors msgs detail } [statistics]	No
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { { ip ipv4 } { unicast multicast } vpnv4 unicast ipv4 mdt lin	Yes
"show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { { ip ipv4 } { unicast multicast } ipv4 mdt [rd { ""<ext-comm-rd-aa"	Yes
"show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { { ip ipv4 } { unicast multicast } vpnv4 unicast [rd { ""<ext-comm-	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } } pre	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } al	No
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } al	No
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } all	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } all	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } all	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } all	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } ipv	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } ipv	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } ipv	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } ipv	Yes

Show Commands	XML Support
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } ipv	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } ipv	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } ipv	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } flap-statistics [<ip-prefix> <ip-	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } policy statistics { { redistribute [Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] convergence [detail] [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_0123	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] convergence private [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345	No
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] process [detail] [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_01234567	Yes
show bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] sessions [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }	Yes
show bgp { { [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast }	Yes
show bgp { { [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast }	Yes
show bgp { { [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast }	Yes
show bgp { { [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast }	Yes
show bgp { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } ipv4 mdt vpnv4 unicast vpnv6 unicast ipv6 labeled-unicast link-s	Yes
show bgp internal { [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { all debug io af mqstat bestpath bfd inject-map	No
show bgp internal { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } ipv4 mdt vpnv4 unicast vpnv6 unicast ipv6 labeled-unicas	No
show bgp internal epe	No
show bgp internal evi [<evi-id>]	Yes
show bgp internal interface [<interface>]	No

Show Commands	XML Support
show bgp internal library-info	No
show bgp internal lslib	No
show bgp internal mem-stats [{ shared all [no-libs] no-libs }] [detail]	No
show bgp internal pss	No
show bgp internal rpc	No
show bgp l3vpn [detail] [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }]	Yes
show bgp private [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { { ip ipv4 } { unicast multicast } ipv6 { unicast multicast } }	No
show bgp private [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { all_private session ipc rnh lists rpm-info [route-map] }	No
show bgp private attr [remote-nh] [[[ipv4 { unicast multicast } <ip-prefix>] [ipv6 { unicast multicast } <ipv6-prefix>]] [detail]]	No
show bgp statistics	Yes
show boot	Yes
show boot auto-copy	Yes
show boot auto-copy list	Yes
show boot current	Yes
show boot mode	Yes
show boot module [[<module>] [<s0>] []]	Yes
show boot order	Yes
show boot sup-1	Yes
show boot sup-2	Yes
show boot timings	No
show boot variables	Yes
show bootmode [module <module>]	Yes
show buffers ip [{ [all <count>] [free <count>] }]	No
show callhome	Yes
show callhome destination-profile	Yes

Show Commands	XML Support
show callhome destination-profile profile <s0>	Yes
show callhome destination-profile profile CiscoTAC-1	Yes
show callhome destination-profile profile full-txt-destination	Yes
show callhome destination-profile profile short-txt-destination	Yes
show callhome transport	Yes
show callhome transport-email	Yes
show callhome user-def-cmds	No
show cdp { all interface <if0> }	Yes
show cdp { entry { all1 name <s0> } }	Yes
show cdp global	Yes
show cdp internal event-history debugs	No
show cdp internal event-history errors	No
show cdp internal event-history msgs	No
show cdp internal global-info	No
show cdp internal mem-stats [detail]	No
show cdp internal runtime-contexts [interface <if>]	No
show cdp neighbors [interface <if>]	Yes
show cdp neighbors [interface <if>] detail	Yes
show cdp traffic interface2 <if2>	Yes
show cfs application [{ name <cfs-dyn-app-name> sap <i0> }]	Yes
show cfs internal application [{ name <cfs-dyn-app-name> sap <i1> }]	No
show cfs internal ethernet-peer { database statistics error-statistics event-log }	No
show cfs internal event-history errors	No
show cfs internal event-history init [{ ip ethernet-discovery transmission }]	No
show cfs internal event-history merge [{ [name <cfs-dyn-app-name>] [sap <i1>] }]	No
show cfs internal event-history msgs	No
show cfs internal event-history notif [{ name <cfs-dyn-app-name> sap <i0> }]	No
show cfs internal ip database	No

Show Commands	XML Support
show cfs internal mem-stats [detail]	No
show cfs internal merge log { name <cfs-dyn-app-name> sap <i1> }	No
show cfs internal message-context { name <cfs-dyn-app-name> sap <i0> }	No
show cfs internal notification log { name <cfs-dyn-app-name> sap <i1> }	No
show cfs internal remote application	No
show cfs internal session-history { name <cfs-dyn-app-name> [{ detail }] sap <i1> [{ detail2 }] }	No
show cfs internal static-peers { info log }	No
show cfs internal statistics [{ name <s0> sap <i1> }]	No
show cfs internal vsan database	No
show cfs lock [{ name <cfs-dyn-app-name> sap <i1> }]	Yes
show cfs merge status [{ name <cfs-dyn-app-name> [detail] sap <i1> [detail2] }]	Yes
show cfs peers [{ name <cfs-dyn-app-name> sap <i1> }]	Yes
show cfs regions [{ brief [region <i0>] name <cfs-dyn-app-name> region1 <i1> }]	Yes
show cfs remote-app vsan <i0> domain <i1>	No
show cfs remote-switches vsan <i0>	Yes
show cfs static peers	No
show cfs status	Yes
show checkpoint [all] [user system]	Yes
show checkpoint <chkpoint_name> [all]	Yes
show checkpoint summary [user system]	Yes
show class-map [{ [type qos] [<cmap-name> xxx <color-map-enum-name>] } { type queuing [yyy <cmap-enum-name> zzz <default-cmap-enum-name>	Yes
show class-map type control-plane [<cmap-name>]	Yes
show class-map type network-qos [<cmap-name-nq>]	Yes
show class-map type psp { [<cmap-name-plc> [client <clienttype> <clientID>] [cfg-mode <cfgmode>]] [handle <ppf_id>] }	Yes
show cli alias [name <s0>]	No
show cli dynamic integers [<name>]	Yes

Show Commands	XML Support
show cli dynamic strings [<name>]	Yes
show cli history [this-mode-only exec-mode config-mode] [<count> unformatted] +	No
show cli interface table	No
show cli internal last-command status	No
show cli internal mem-stats [no-libs] [detail]	No
show cli internal sdwrap	No
show cli list [detail recurse <component> <max-per-cmd>] +	No
show cli registry [ctags tags modes session inherit]	No
show cli syntax [long recurse has-xml-out has-no-xml-out is-data-modeled] + [roles [network-admin network-operator <roles-mask>]] [ha	No
show cli variables	No
show clock [detail]	Yes
show clock utc	No
show config-profile [name <all_conf_profile_name>]	Yes
show config-profile applied manually	Yes
show configuration session	Yes
show configuration session <s3>	Yes
show configuration session <s3> vsh	Yes
show configuration session global-info	Yes
show configuration session status [<s3>]	Yes
show configuration session summary	Yes
show consistency-checker copp	No
show consistency-checker fex-interfaces fex <id>	No
show consistency-checker forwarding [ip ipv4] [unicast] [vrf { <vrf-name> all_vrfs }] [module { <module> all_modules }] show forwarding [Yes
show consistency-checker forwarding [ip ipv4] [unicast] [vrf { <vrf-name> all_vrfs }] [module { <module> all_modules }] show forwarding [Yes
show consistency-checker forwarding ipv6 [unicast] [vrf { <vrf-name> all_vrfs }] [module { <module> all_modules }] show forwarding ipv6 [uni	Yes

Show Commands	XML Support
show consistency-checker forwarding ipv6 [unicast] [vrf { <vrf-name> all_vrfs }] [module { <module> all_modules }] show forwarding ipv6 [uni	Yes
show consistency-checker forwarding recover	No
show consistency-checker l2-tahoe module <module> [unit <unit>]	No
show consistency-checker l2-tahoe switchport interface <if_name>	No
show consistency-checker l3-interface module <moduleid>	No
show consistency-checker link-state module <module>	No
show consistency-checker membership port-channels [interface <ch-id>]	No
show consistency-checker membership vlan <vlanid> [private-vlan]	No
show consistency-checker nxapi interface	No
show consistency-checker pacl module <module>	No
show consistency-checker pacl port-channels [interface <ch-id>]	No
show consistency-checker qinvni	No
show consistency-checker racl module <module>	No
show consistency-checker racl port-channels [interface <ch-id>]	No
show consistency-checker stp-state vlan <vlan>	No
show consistency-checker vacl	No
show consistency-checker vxlan bgp	No
show consistency-checker vxlan interface { <int-id> <ch-id> }	No
show consistency-checker vxlan peers	No
show consistency-checker vxlan routes	No
show consistency-checker vxlan vlan <vlanid>	No
show copp diff profile <profile_type> [prior-ver] profile2 <profile_type2>	No
show copp profile { strict moderate lenient dense }	Yes
show copp status	Yes
show copyright	Yes
show cores [vdc-all { vdc [<e-vdc2> <vdc-id>] }]	Yes
show crypto ca certificates	Yes

Show Commands	XML Support
show crypto ca certificates <s0>	Yes
show crypto ca certstore	Yes
show crypto ca crl <s0>	Yes
show crypto ca internal certificates	No
show crypto ca remote-certstore	Yes
show crypto ca trustpoints	Yes
show crypto certificatemap	Yes
show crypto key mypubkey rsa	Yes
show crypto ssh-auth-map	Yes
show debug	No
"show debug ""tacacs+"" "	No
show debug { bgp ip bgp }	No
show debug { clis clis-all }	No
show debug { igmp ip igmp }	No
show debug { keystore sksd }	No
show debug { logfile <s0> }	No
show debug { ospf ip ospf }	No
show debug { pim ip pim }	No
show debug { port-profile session-mgr csm }	Yes
show debug aaa	No
show debug acllog	No
show debug acllog bypass	No
show debug aclmgr	No
show debug aclqos	No
show debug aclqos bypass	No
show debug aclqos debug-level	No
show debug adbm	No
show debug adbm bypass	No

Show Commands	XML Support
show debug arp	No
show debug ascii-cfg	No
show debug bfd	No
show debug bfd-app	No
show debug bootvar	No
show debug callhome	No
show debug capability	No
show debug cdp	No
show debug cert-enroll	No
show debug cfs	No
show debug clk_mgr	No
show debug confcheck	No
show debug copp	No
show debug copp bypass	No
show debug core	No
show debug device_test	No
show debug dhclient	No
show debug diagclient	No
show debug diagmgr	No
show debug eltm	No
show debug eltm bypass	No
show debug ethdstats	No
show debug ethpm	No
show debug ethpm bypass	No
show debug evmc	No
show debug evms	No
show debug exceptionlog	No
show debug fabric forwarding	No

Show Commands	XML Support
show debug fc2	No
show debug fcfwd	No
show debug fcoe_klm	No
show debug fm	No
show debug fs-daemon	No
show debug gpixm	No
show debug gpixm bypass	No
show debug im	No
show debug im bypass	No
show debug ip { ipc mpacket packet icmp }	No
show debug ip igmp snooping	No
show debug ip mfwd packet	No
show debug ip mrouting	No
show debug ip routing	No
show debug ipconf	No
show debug ipconf bypass	No
show debug ipconf ipv6	No
show debug ipfib	No
show debug ipqos	No
show debug ipqos debug-level	Yes
show debug ipv6 { icmp mld nd }	No
show debug ipv6 { ipc mpacket packet }	No
show debug ipv6 mrouting	No
show debug ipv6 routing	No
show debug kadb	No
show debug klm-rwsem	No
show debug l2fm	No
show debug l2fm bypass	No

Show Commands	XML Support
show debug l2fwder	No
show debug l2pt	No
show debug l2rib	No
show debug license	No
show debug lim	No
show debug lim bypass	No
show debug m2rib	No
show debug mfdm	No
show debug mfdm bypass	No
show debug mmode	No
show debug module	No
show debug monitor	No
show debug mpls forwarding	No
show debug mts	No
show debug mvsh	No
show debug ntp	No
show debug nve	No
show debug obfl	No
show debug pfstat	No
show debug pfstat bypass	No
show debug pixm	No
show debug pixm bypass	No
show debug platform	No
show debug plcmgr	No
show debug plog	No
show debug pltfm_config	No
show debug pltfm_config bypass	No
show debug plugin	No

Show Commands	XML Support
show debug plugin bypass	No
show debug port_lb	No
show debug port-channel	No
show debug port-channel bypass	No
show debug port-client	No
show debug port-client bypass	No
show debug psshelper	No
show debug psshelper_gsvc	No
show debug radius	No
show debug redundancy	No
show debug res_mgr	No
show debug res_mgr bypass	No
show debug rip	No
show debug sal	No
show debug security	No
show debug sensor	No
show debug snmp	No
show debug snmpmib	No
show debug snmpmib bypass	No
show debug spanning-tree	No
show debug spanning-tree bypass	No
show debug spm	No
show debug spm bypass	No
show debug statsclient	No
show debug stripcl	No
show debug system	No
show debug tamnw	No
show debug tamnw bypass	No

Show Commands	XML Support
show debug track	No
show debug track bypass	No
show debug ttyd	No
show debug ufdm	No
show debug ufdm bypass	No
show debug usdk	No
show debug vdc	No
show debug vdc bypass	No
show debug virtual-service	No
show debug vlan	No
show debug vlan bypass	No
show debug vmm	No
show debug vsh	No
show debug vshd	No
show debug vtp	No
show debug xbar	No
show debug xml server	No
show debug xml server session logging level	Yes
show debug-filter { bgp ip bgp }	No
show debug-filter { igmp ip igmp }	No
show debug-filter { ospf ip ospf }	No
show debug-filter { pim ip pim }	No
show debug-filter all	No
show debug-filter arp	No
show debug-filter fabric forwarding	No
show debug-filter ip mrouting	No
show debug-filter ipv6 icmp	No
show debug-filter ipv6 mrouting	No

Show Commands	XML Support
show debug-filter l2fwder	No
show debug-filter l2pt	No
show debug-filter rip	No
show debug-filter rpm	No
show default-interface log	No
show diagnostic bootup level	Yes
show diagnostic content module { all <module> }	Yes
show diagnostic description module <module> test { all <name> <test-id> }	Yes
show diagnostic events [error info]	No
show diagnostic internal device_test [event-history] errors	No
show diagnostic internal device_test [event-history] msgs	No
show diagnostic internal device_test mem-stats [uuid <i0>] [device_test-only] [detail]	No
show diagnostic internal device_test module { all <module> } history	No
show diagnostic internal diagclient [event-history] errors	No
show diagnostic internal diagclient [event-history] msgs	No
show diagnostic internal diagclient [event-history] trace	No
show diagnostic internal diagclient info	No
show diagnostic internal diagclient mem-stats [detail]	No
show diagnostic internal diagclient module { all <module> } history	No
show diagnostic internal diagmgr [event-history] errors	No
show diagnostic internal diagmgr [event-history] msgs	No
show diagnostic internal diagmgr [event-history] trace	No
show diagnostic internal diagmgr mem-stats [detail]	No
show diagnostic internal diagmgr module { all <module> } history	No
show diagnostic internal port_lb [event-history] errors	No
show diagnostic internal port_lb [event-history] errors module { <module> }	No
show diagnostic internal port_lb [event-history] msgs	No
show diagnostic internal port_lb [event-history] trace	No

Show Commands	XML Support
show diagnostic internal port_lb [event-history] trace module { <module> }	No
show diagnostic internal port_lb info	No
show diagnostic internal port_lb mem-stats [detail]	No
show diagnostic internal port_lb module { all <module> } history	No
show diagnostic internal port_lb PortLoopback module { all <module> } fsm	No
show diagnostic internal port_lb PortLoopback module { all <module> } history	No
show diagnostic internal port_lb RewriteEngineLoopback module { all <module> } fsm	No
show diagnostic internal port_lb RewriteEngineLoopback module { all <module> } history	No
show diagnostic internal port_lb SnakeLoopback module { all <module> } fsm	No
show diagnostic internal port_lb SnakeLoopback module { all <module> } history	No
show diagnostic ondemand setting	Yes
show diagnostic result module <module> [test { <name> <test-id> }] { [detail] [statistics] }	Yes
show diagnostic result module all [detail]	Yes
show diagnostic simulation module <module>	Yes
show diagnostic status module <module>	Yes
show diff rollback-patch { src-checkpoint <chkpoint_name> src-running-cfg src-startup-cfg src-file <srcfile_uri> } { dst-checkpoint <chkpoi	Yes
show dot1q-tunnel	Yes
show dot1q-tunnel interface <ifid_eth_dot1q_tunnel>	Yes
show eemtest internal eem-state	No
show email	Yes
show encryption service stat	Yes
show environment [fan [detail1] power [detail] [ampere] [input] temperature [module <module> <s0> <santa-cruz-range> psu]]	Yes
show eol status	No
show errdisable { detect recovery }	Yes
show errdisable flap	No
show event manager environment { all <varname> }	Yes

Show Commands	XML Support
show event manager event-types [all <event-type-name>] [module <module-id>]	Yes
show event manager events action-log [policy <policy-name> event-type <event-type-name>]	No
show event manager history events [detail] [maximum <n-events>] [severity <sev>]	Yes
show event manager internal clients [all] [module <module-id>]	No
show event manager internal evmc debug counters	No
show event manager internal evmc errors	No
show event manager internal evmc mem-stats [detail]	No
show event manager internal evmc msgs	No
show event manager internal evms debug counters	No
show event manager internal evms errors	No
show event manager internal evms mem-stats [detail]	No
show event manager internal evms msgs	No
show event manager internal mvsh mem-stats [detail]	No
show event manager internal publisher sap <sapnum> [module <module-id>]	No
show event manager policy internal [<policy-name> inactive]	No
show event manager policy-state <name> [module <module-id>]	Yes
show event manager script system { all <script-name> }	Yes
show event manager system-policy [all <policy-name>]	Yes
show event-history	No
show event-history xbar	No
show fabric database dci [{ vrf { <vrf-name> <vrf-known-name> } [peer-id <peer-ip-address>] [detail] }]	Yes
show fabric database dci [{ vrf <vrf-name> [peer-id <peer-ip-address>] [detail] }]	No
show fabric database host [detail] [{ vni <vni-id> } { dot1q <vlan-id> }]	Yes
show fabric database host [detail] [{ vni <vni-id> } { dot1q <vlan-id> }] [internal]	Yes
show fabric database host [detail] [{ vni <vni-id> } { dot1q <vlan-id> }] internal	No
show fabric database host statistics	Yes
show fabric database host statistics	Yes

Show Commands	XML Support
show fabric database host summary	Yes
show fabric database host summary	Yes
show fabric database internal profile-data	No
show fabric database profile-map { global [<id> interface <interface-id>] }	Yes
show fabric database profile-map { global [<id> interface <interface-id>] }	Yes
show fabric database statistics [type { network profile cabling partition bl-dci }]	Yes
show fabric forwarding host-db [{ vrf { <vrf-name> <vrf-known-name> all } }]	Yes
show fabric forwarding internal { ip ipv6 } dup-host [{ vrf { <vrf-name> <vrf-known-name> all } }]	No
show fabric forwarding internal af [{ vrf { <vrf-name> <vrf-known-name> all } }]	No
show fabric forwarding internal buffers [vPC]	No
show fabric forwarding internal clients	No
show fabric forwarding internal debug	No
show fabric forwarding internal event-history { errors msgs trace events packets ha periodic auto-config test }	No
show fabric forwarding internal intf { local-host-db remote-host-db } [{ vrf { <vrf-name> <vrf-known-name> all } }] [<interface>]	No
show fabric forwarding internal ip local-host-db [{ vrf { <vrf-name> <vrf-known-name> all } }] [<ip-prefix>]	No
show fabric forwarding internal ipv6 local-host-db [{ vrf { <vrf-name> <vrf-known-name> all } }] [<ipv6-prefix>]	No
show fabric forwarding internal mac-bd local-host-db [{ vrf { <vrf-name> <vrf-known-name> all } }] [<mac-addr> <bd>]	No
show fabric forwarding internal mem-stats [all] [detail]	No
show fabric forwarding internal migration-vips [{ vrf { <vrf-name> <vrf-known-name> all } }] [<svi-intf>]	No
show fabric forwarding internal sdb	No
show fabric forwarding internal state	No
show fabric forwarding internal state vPC	No
show fabric forwarding internal svi-info [<svi-intf>]	No
show fabric forwarding internal topo-info [<topo-id> stale]	No

Show Commands	XML Support
show fabric forwarding internal work-info	No
show fabric forwarding ip { { local-host-db remote-host-db aggregate-subnet-prefix } [{ vrf { <vrf-name> <vrf-known-name> all } }] [<ip-prefix	Yes
show fabric forwarding ipv6 { { local-host-db remote-host-db aggregate-subnet-prefix } [{ vrf { <vrf-name> <vrf-known-name> all } }] [<ipv6-pr	Yes
show fabric forwarding statistics conversational-learning [ip ipv6] { source-limit [<ip-prefix> <ipv6-prefix>] max-conversation-limit port-li	Yes
show fc2 bind	No
show fc2 classf	No
show fc2 exchange	No
show fc2 exchresp	No
show fc2 flogi	No
show fc2 internal cmdcode	No
show fc2 internal cpuhog	No
show fc2 internal cpuperiod	No
show fc2 internal cputimer	No
show fc2 internal debugmon	No
show fc2 internal dest_index	No
show fc2 internal device	No
show fc2 internal event-history errors	No
show fc2 internal event-history filt_msg	No
show fc2 internal event-history log_errors	No
show fc2 internal event-history msgs	No
show fc2 internal fc2_tx_enable	No
show fc2 internal flag	No
show fc2 internal fragsize	No
show fc2 internal maxrxbuffer	No
show fc2 internal memory_usage	No
show fc2 internal pid_tx	No

Show Commands	XML Support
show fc2 internal platform	No
show fc2 internal plogi	No
show fc2 internal reason_code	No
show fc2 internal rxmaxpacket	No
show fc2 internal rxmaxsequence	No
show fc2 internal sockqueue <i0>	No
show fc2 internal tstmpvalid	No
show fc2 internal txmaxsequence	No
show fc2 nport	No
show fc2 plogi	No
show fc2 plogi_pwwn	No
show fc2 port brief	No
show fc2 port drops	No
show fc2 port state	No
show fc2 socket	No
show fc2 sockexch	No
show fc2 socknotify	No
show fc2 socknport	No
show fc2 vsan	No
show fcoe_klm internal event-history errors	No
show fcoe_klm internal event-history msgs	No
show fcoe_klm internal flag	No
show fcoe_klm internal platform	No
show feature	Yes
show feature-set [<name>] [<id>]	Yes
show feature-set services <s0>	Yes
show file <uri0> [cksum md5sum sha256sum sha512sum]	Yes
show fips status	Yes

Show Commands	XML Support
show forwarding [vrf { <vrf-name> <vrf-known-name> } table <table_id>] [ip ipv4] pss route [module <module>]	No
show forwarding [vrf { <vrf-name> <vrf-known-name> } table <table_id>] ipv6 pss route [module <module>]	No
show forwarding [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] [ip ipv4] adjacency [mpls] [lisp] [nve] [<aif>] [<anh>] [detail s	Yes
show forwarding [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] ipv6 adjacency [mpls] [<aif>] [<anh>] [detail stats platform] [module	Yes
show forwarding [vrf { <vrf-name> <vrf-known-name> <vrf-all> } table <table_id>] [ip ipv4] { route nhdb } [recursive] [summary detai	Yes
show forwarding [vrf { <vrf-name> <vrf-known-name> <vrf-all> } table <table_id>] [ip ipv4] security mac [<addr>] [module <module> vrf {	Yes
show forwarding [vrf { <vrf-name> <vrf-known-name> <vrf-all> } table <table_id>] ipv6 { route nhdb } [recursive] [detail summary platf	Yes
show forwarding [vrf { <vrf-name> <vrf-known-name> <vrf-all> } table <table_id> vlan <vlan_id>] [ip ipv4] security group-tag [<addr>] [Yes
show forwarding [vrf { <vrf-name> <vrf-known-name> all } table <tab_id>] ipv6 multicast route { [group { <group> <group_addr> } source { <s	Yes
show forwarding [vrf { <vrf-name> <vrf-known-name> all } table <table_id>] [ip ipv4] multicast route [platform] { [group { <gaddr> [<mas	Yes
show forwarding bypass-hardware [module <module>]	No
show forwarding capture [module <module>]	Yes
show forwarding distribution [ip] multicast route [table <id> vrf { <vrf_name> all }] [group { <gaddr> [<mask>] <gprefix> }] [source { <	Yes
show forwarding distribution { pauz rezum }	No
show forwarding distribution capture	Yes
show forwarding distribution clients	Yes
show forwarding distribution fib-state	Yes
show forwarding distribution internal counters [] [detail]	Yes
show forwarding distribution internal counters clear	No
show forwarding distribution internal debugs	No
show forwarding distribution internal error counts	Yes
show forwarding distribution internal errors	No

Show Commands	XML Support
show forwarding distribution internal info	Yes
show forwarding distribution internal ingress-replication-peer	No
show forwarding distribution internal mem-stats [detail]	No
show forwarding distribution internal msgs	No
show forwarding distribution internal multicast download	No
show forwarding distribution internal multicast file-log disable	No
show forwarding distribution internal multicast file-log enable	No
show forwarding distribution internal multicast global_state	No
show forwarding distribution internal multicast hold_queue { line_card_upgrade sys_upgrade client_xid svrf_download_req all }	No
show forwarding distribution internal multicast primary	No
show forwarding distribution internal multicast secondary	No
show forwarding distribution internal trace events-config	No
show forwarding distribution internal trace events-history	No
show forwarding distribution internal trace ipv6-l3-route-config	No
show forwarding distribution internal trace ipv6-l3-route-history	No
show forwarding distribution internal trace l2-mc-route-config	No
show forwarding distribution internal trace l2-mc-route-history	No
show forwarding distribution internal trace l2-oiflist-config	No
show forwarding distribution internal trace l2-oiflist-history	No
show forwarding distribution internal trace l2-route-config	No
show forwarding distribution internal trace l2-route-history	No
show forwarding distribution internal trace l3-route-config	No
show forwarding distribution internal trace l3-route-history	No
show forwarding distribution internal trace oiflist-config	No
show forwarding distribution internal trace oiflist-history	No
show forwarding distribution internal trace otv oiflist-config	No
show forwarding distribution internal trace otv oiflist-history	No

Show Commands	XML Support
show forwarding distribution ip igmp snooping [vlan <vlan-id> [group [<grpaddr> <mac-grpaddr>] [source <srcaddr>]]] [detail]	Yes
show forwarding distribution ipv6 multicast route [table <table_id> vrf <vrf-name>] [<group> [<source>] summary]	Yes
show forwarding distribution l2 multicast [ip-based mac-based] [vlan <vlan-id> [{ group <grpaddr> [source <srcaddr>] } destination-mac <dmac>]	Yes
show forwarding distribution lisp counters	Yes
show forwarding distribution lisp vrf enabled	Yes
show forwarding distribution logging [enable disable]	No
show forwarding distribution multicast [messages]	Yes
show forwarding distribution multicast { mfib-txlist [vrf <vrf-name>] mfib-buffers }	No
show forwarding distribution multicast client	Yes
show forwarding distribution multicast client-ack-db	Yes
show forwarding distribution multicast download	No
show forwarding distribution multicast internal mem-stats [detail]	No
show forwarding distribution multicast outgoing-interface-list { L2 L3 OTV } [<index>]	Yes
show forwarding distribution multicast resp-ack-timer-msgs	No
show forwarding distribution nve overlay-vlan	Yes
show forwarding distribution otv multicast route [vlan <vlan-id>]	Yes
show forwarding distribution peer-id [vpls otv]	Yes
show forwarding distribution test { on off }	No
show forwarding distribution trace	No
show forwarding dvif primary	No
show forwarding dvif secondary	No
show forwarding ecmp [{ [vrf { <vrf-name> <vrf-known-name> }] lisp }] [platform] [module <module>] [partial]	Yes
show forwarding ecmp recursive [platform] [max-display-count <display_count>] [module <module>] [partial]	Yes
show forwarding file-log disable	No

Show Commands	XML Support
show forwarding file-log enable	No
show forwarding interfaces [module <module>]	Yes
show forwarding internal debugs	No
show forwarding internal error counts [module <module>]	Yes
show forwarding internal errors	No
show forwarding internal info	No
show forwarding internal ipfib debugs	No
show forwarding internal l2mcast debugs	No
show forwarding internal l2vpn counters [clear] [module <module>]	No
show forwarding internal l2vpn trace member-config [module <module>]	No
show forwarding internal l2vpn trace member-history [module <module>]	No
show forwarding internal mem-stats [detail]	No
show forwarding internal message counts [module <module>]	Yes
show forwarding internal mpls counters [clear] [module <module>]	No
show forwarding internal mpls debugs	No
show forwarding internal mpls trace adj-config [module <module>]	No
show forwarding internal mpls trace adj-history [module <module>]	No
show forwarding internal mpls trace ecmp-config [module <module>]	No
show forwarding internal mpls trace ecmp-history [module <module>]	No
show forwarding internal mpls trace label-config [module <module>]	No
show forwarding internal mpls trace label-history [module <module>]	No
show forwarding internal mpls trace te-config [module <module>]	No
show forwarding internal mpls trace te-history [module <module>]	No
show forwarding internal msgs	No
show forwarding internal multicast counts [module <module> vdc <vdc_id>]	Yes
show forwarding internal multicast counts clear [module <module> vdc <vdc_id>]	No
show forwarding internal multicast debugs	No
show forwarding internal multicast pd debugs	No

Show Commands	XML Support
show forwarding internal nve ir-peer	No
show forwarding internal pss disable	No
show forwarding internal pss enable	No
show forwarding internal received nexthops [module <module>]	No
show forwarding internal trace bt-queue { v4-pfx v6-pfx v4-adj v6-adj v4-rnh v6-rnh vobj labels ecmp mpls-ecmp mpls-adj te otv-	No
show forwarding internal trace ecmp-config [module <module>]	No
show forwarding internal trace ecmp-history [module <module>]	No
show forwarding internal trace mfib oif-config [module <module>]	No
show forwarding internal trace mfib oif-history [module <module>]	No
show forwarding internal trace mfib oiflist-config [module <module>]	No
show forwarding internal trace mfib oiflist-history [module <module>]	No
show forwarding internal trace mfib otv oif-config [module <module>]	No
show forwarding internal trace mfib otv oif-history [module <module>]	No
show forwarding internal trace mfib otv oiflist-config [module <module>]	No
show forwarding internal trace mfib otv oiflist-history [module <module>]	No
show forwarding internal trace mfib otv v4-route-config [module <module>]	No
show forwarding internal trace mfib otv v4-route-history [module <module>]	No
show forwarding internal trace mfib otv v6-route-config [module <module>]	No
show forwarding internal trace mfib otv v6-route-history [module <module>]	No
show forwarding internal trace mfib platform oiflist-config [module <module>]	No
show forwarding internal trace mfib platform oiflist-history [module <module>]	No
show forwarding internal trace mfib v4-route-config [module <module>]	No
show forwarding internal trace mfib v4-route-history [module <module>]	No
show forwarding internal trace mfib v6-route-config [module <module>]	No
show forwarding internal trace mfib v6-route-history [module <module>]	No
show forwarding internal trace nve-ir-peer-history [module <module>]	No
show forwarding internal trace nve-l3-vni-history [module <module>]	No

Show Commands	XML Support
show forwarding internal trace nve-peer-history [module <module>]	No
show forwarding internal trace otv-adj-config [module <module>]	No
show forwarding internal trace otv-adj-history [module <module>]	No
show forwarding internal trace otv-vlan-config [module <module>]	No
show forwarding internal trace otv-vlan-history [module <module>]	No
show forwarding internal trace v4-adj-config [module <module>]	No
show forwarding internal trace v4-adj-history [module <module>]	No
show forwarding internal trace v4-pfx-config [module <module>]	No
show forwarding internal trace v4-pfx-history [module <module>]	No
show forwarding internal trace v4-rnh-config [module <module>]	No
show forwarding internal trace v4-rnh-history [module <module>]	No
show forwarding internal trace v6-adj-config [module <module>]	No
show forwarding internal trace v6-adj-history [module <module>]	No
show forwarding internal trace v6-pfx-config [module <module>]	No
show forwarding internal trace v6-pfx-history [module <module>]	No
show forwarding internal trace v6-rnh-config [module <module>]	No
show forwarding internal trace v6-rnh-history [module <module>]	No
show forwarding internal trace vobj-config [module <module>]	No
show forwarding internal trace vobj-history [module <module>]	No
show forwarding internal trace-profile debugs	No
show forwarding internal tracing disable	No
show forwarding internal tracing enable	No
show forwarding internal ufib funcstats disable	No
show forwarding internal ufib funcstats enable	No
show forwarding internal unicast counts [detail] [vdc { <vdc_id> all }] [module <module>]	Yes
show forwarding internal unicast debugs	No
show forwarding kvfib cache { on off }	No

Show Commands	XML Support
show forwarding l2 multicast { [{ { vlan <vlan-id> [{ group <grpaddr> source <srcaddr> } destination-mac <dstmac>] }] } [vdc <vdc-id>] [module	Yes
show forwarding l2vpn ipv6 multicast route [[vlan <vlan-id>] [softwarebd <software-bd>]] [module <module>]	No
show forwarding l2vpn label [<label_id>] vpls [module module]	Yes
show forwarding l2vpn label [<label_id>] xconnect [module module]	Yes
show forwarding l2vpn multicast outgoing-interface-list [index <oiflist-index>]	No
show forwarding l2vpn multicast route [[vlan <vlan-id>] [softwarebd <software-bd>]] [module <module>]	No
show forwarding l2vpn service vpls { { service_id { <service_id> all } } { vlan { <vlan_id> vlan_all } } { peer { { interface <intf-name> nex	No
show forwarding l2vpn service xconnect { service_id { <service_id> all } } [module <module>] [detail]	No
show forwarding l2vpn vlan [<vlan_id>] [module <module>]	Yes
show forwarding mpls [vrf { <vrf-name> <vrf-known-name> <vrf-all> } label <label-id> <prefix> <v6prefix>] table <table_id> [label <label-	Yes
show forwarding mpls aggregate [label { <label-id> all }] [detail] [module <module>]	Yes
show forwarding mpls cbts [module <module>]	Yes
show forwarding mpls drop-stats [platform]	Yes
show forwarding mpls ecmp [module <module>] [platform]	Yes
show forwarding mpls summary [module <module>]	Yes
show forwarding mpls te [<te_if>] [detail] [module <module>]	Yes
show forwarding multicast outgoing-interface-list { L2 L3 } [platform] [module <module>] [<index>]	Yes
show forwarding nve l2 ingress-replication-peers [<peer_ip>]	No
show forwarding nve l3 adjacency tunnel <tunnel_id> [bd <bd_id> table <table_id> detail module <num>] +	No
show forwarding nve l3 peers [peers <peer_id> tunnel <tunnel_id> detail module <num>] +	Yes
show forwarding otv <intf> [peer <peer-id>] [module <module>]	Yes
show forwarding otv ipv6 multicast route [vlan <vlan_id>] [module <module>]	Yes
show forwarding otv multicast outgoing-interface-list	Yes

Show Commands	XML Support
show forwarding otv multicast route [[vlan <vlan-id>] [softwarebd <software-bd>]] [module <module>]	Yes
show forwarding otv vlan [<vlan_id>] [module <module>]	Yes
show forwarding restart [module <module>]	No
show forwarding test { on off } [module <module>]	No
show forwarding trace [clear] [module <module>]	Yes
show forwarding trace profile	No
show forwarding trace profile funcstats [enable disable] [module <module>]	Yes
show guestshell [{ detail }]	Yes
show hardware	Yes
show hardware [forwarding] ip verify [module <module>]	Yes
show hardware access-list labels <label-type> <hw-label> [module <module>]	No
show hardware access-list lou resource threshold	Yes
show hardware access-list resource pooling	Yes
show hardware access-list tcam { { template { nfe nfe2 l2-l3 l3 <name> all } } { region } }	Yes
show hardware capacity	No
show hardware capacity eobc	Yes
show hardware capacity fabric-utilization	No
show hardware capacity forwarding	No
show hardware capacity interface	Yes
show hardware capacity module	Yes
show hardware capacity power	Yes
show hardware fabricpath mac-learning module <module>	Yes
show hardware feature-capability [detailed]	Yes
show hardware forwarding interface statistics mode	Yes
show hardware forwarding memory health detail	No
show hardware forwarding memory health summary	No

Show Commands	XML Support
show hardware internal access-list lookup { { { src-ip <sa-ip> dst-ip <da-ip> } { src-ipv6 <v6sa> dst-ipv6 <v6da> } } protocol <proto> l4-sr	No
show hardware internal bootflash model	No
show hardware internal buffer info pkt-stats [module <module>] [instance <instance>] [brief { [peak] [detail] } port-stuck-log [[as	Yes
show hardware internal buffer info pkt-stats input [module <module>] [instance <instance>] [peak] [detail]	Yes
show hardware internal buffer poll-interval [module <module>]	No
show hardware internal cpu interface asic counters module <module> instance <instance>	No
show hardware internal cpu-mac eobc counters	No
show hardware internal cpu-mac eobc registers	No
show hardware internal cpu-mac eobc stats	No
show hardware internal cpu-mac inband active-fm traffic-from-sup	No
show hardware internal cpu-mac inband active-fm traffic-to-sup	No
show hardware internal cpu-mac inband counters	No
show hardware internal cpu-mac inband registers	No
show hardware internal cpu-mac inband stats	No
show hardware internal cpu-mac mgmt counters	No
show hardware internal cpu-mac mgmt registers	No
show hardware internal cpu-mac mgmt stats	No
show hardware internal dev-port-map	No
show hardware internal dev-version	No
show hardware internal dev-version details	No
show hardware internal eobc stats	No
show hardware internal errors { module <module> all }	Yes
show hardware internal errors2	Yes
show hardware internal fabric interface asic counters module <module>	No
show hardware internal fabric interface asic counters module <module> instance <instance> asic-port <port> [snmp]	No

Show Commands	XML Support
show hardware internal forwarding adjacency statistics default-route [module <module>]	No
show hardware internal forwarding adjacency utilization [no-header] [module <module>] [instance <instance>]	Yes
show hardware internal forwarding l2 table utilization [instance { <instance_number> all }] [no-header] [module <num>]	Yes
show hardware internal forwarding l3 counters [module <module>]	No
show hardware internal forwarding table utilization [no-header] [module <module>] [instance <instance>]	Yes
show hardware internal forwarding table utilization mib module <module>	Yes
show hardware internal inband-rcpu cpu-queue [name <queue-name>] slot <slot-num> [reset-stats] [reset-pps]	No
show hardware internal interface <ifeth_ctr_hw> asic counters [snmp]	No
show hardware internal interface asic counters module <module>	No
show hardware internal logflash model	No
show hardware internal memory-ecc statistics	No
show hardware internal memory-model	No
show hardware internal mgmt0 stats	No
show hardware internal ns buffer info pkt-stats [input] [module <module>] [instance <instance>] [detail]	Yes
show hardware internal ns interrupts	Yes
show hardware internal plog errors	No
show hardware internal plog msgs	No
show hardware internal plog print [file-type <filetype> [{ count <count> } { uuid <uuid> }]]	No
show hardware internal plog print list-file-types	No
show hardware internal plog stat uuid <uuid>	No
show hardware internal proc-info <s0>	No
show hardware internal sensor event-history errors	No
show hardware internal sensor event-history msgs	No
show hardware internal sensor mem-stats [detail]	No

Show Commands	XML Support
show hardware internal sptom event-log	No
show hardware internal statistics module <module> pktflow all	No
show hardware internal statistics module <module> pktflow rates	No
show hardware internal statistics module <module> rates	No
show hardware internal statistics module-all pktflow all	No
show hardware internal statistics module-all pktflow rates	No
show hardware internal statistics module-all rates	No
show hardware internal statistics pktflow all	No
show hardware internal statistics pktflow rates	No
show hardware internal statistics rates	Yes
show hardware internal tah interface <if_name>	No
show hardware internal tah l3 v4lpm	No
show hardware internal tah l3 v6lpm	No
show hardware internal version	Yes
show hardware mac address-table <module> [static dynamic] [address <mac-addr> interface <interface-name> vlan <id> vdc <vdc> fe <feid>] + [Yes
show hardware profile status [module <module>] [detail]	Yes
show hardware profile tcam region	Yes
show hardware qos burst-detect max-records	Yes
show hardware qos eoq stats-class [module <module>]	Yes
show hardware qos include ipg [module <module>]	Yes
show hardware qos ing-pg-hdrm-reserve [module <module>]	Yes
show hardware qos ing-pg-no-min [module <module>]	Yes
show hardware qos ing-pg-share [module <module>]	Yes
show hardware qos min-buffer [module <module>]	Yes
show hardware qos ns-buffer-profile [module <module>]	Yes
show hardware qos ns-mcq3-alias [module <module>]	Yes
show hardware rate-limiter [module <module>] [layer-3 { <l3-opts> multicast <mcast-opts> } layer-2 <l2-opts> <opts> f1 <f1-opts>]	Yes

Show Commands	XML Support
show hardware rl snmp class-id <class-id>	Yes
show hardware rl snmp global class-id <class-id>	Yes
show hardware rl snmp local snmp-index <snmp-index> class-id <class-id>	Yes
show hosts	Yes
show ieth-header-decode <ieth>	No
show inactive-if-config log	No
show incompatibility { system <uri0> nxos <uri1> }	Yes
show incompatibility-all { system <uri0> nxos <uri1> }	Yes
show install { inactive active [brief] committed }	Yes
show install all failed-standby	Yes
show install all failure-reason	Yes
show install all impact [nxos <uri>] + [non-disruptive]	No
show install all impact epld <uri1>	No
show install all status	No
show install epld status	No
show install impact <uri0>	No
show install impact <uri0> <uri1>	No
show install impact <uri0> detail	No
show install log { [<id> from <id1>] [detail] [reverse] [last] }	Yes
show install packages	Yes
show install patches	Yes
show install pkg-info <pname>	Yes
show_interface <single>	No
show interface [<if_list>] priority-flow-control [detail] [module <module>]	Yes
show interface [<if_list>] priority-flow-control [detail] [module <module>]	Yes
show interface [controller quick]	Yes
show interface <ifeth_brf> brief	Yes
show interface <ifeth_ctr_brf> counters brief [<counter_val>]	Yes

Show Commands	XML Support
show interface <ifeth_ctr_dtl_all> counters detailed all [snmp]	Yes
show interface <ifeth_ctr_dtl> counters detailed [snmp]	Yes
show interface <ifeth_ctr_errs> counters errors [snmp]	Yes
show interface <ifeth_ctr_stm_ctrl> counters storm-control	Yes
show interface <ifeth_ctr_trnk> counters trunk	Yes
show interface <ifeth_ctr> counters [snmp]	Yes
show interface <ifeth_dbnc> debounce	Yes
show interface <ifeth_errdis> status err-disabled	Yes
show interface <ifeth_errvlans> status err-vlans	Yes
show interface <ifeth_fcoe> fcoe	Yes
show interface <ifeth_fl_ctrl> flowcontrol	Yes
show interface <ifeth_status> status	Yes
show interface <ifeth_swthc> switchport	Yes
show interface <ifeth_trans> transceiver fex-fabric [calibrations details]	Yes
show interface <ifeth_trnk> trunk	Yes
show interface <ifeth> [quick]	Yes
show interface <ifid_ctr_dtl_all> counters detailed all [snmp]	No
show interface <ifid_ctr> counters [snmp]	Yes
show interface <ifid_eth_cap> capabilities	Yes
show interface <ifid_eth> description	Yes
show interface <ifid_macaddr> mac-address	Yes
show interface <ifid_mgmt_loop> description	Yes
show interface <ifid_status> status	Yes
show interface <ifid_tdr> cable-diagnostics-tdr	Yes
show interface <ifid_transceiver> transceiver [calibrations details sprom]	Yes
show interface <ifid> [brief quick]	Yes
show interface <ifindex> vlan mapping	Yes
show interface <ifloop_brfr> brief	Yes

Show Commands	XML Support
show interface <ifloop_ctr_dtl_all> counters detailed all	Yes
show interface <ifloop_ctr_dtl> counters detailed	Yes
show interface <ifloop>	Yes
show interface <ifmgmt_brf> brief	Yes
show interface <ifmgmt_ctr_dtl_all> counters detailed all	Yes
show interface <ifmgmt_ctr_dtl> counters detailed	Yes
show interface <ifmgmt>	Yes
show interface <ifpch_brf> brief	Yes
show interface <ifrange>	Yes
show interface <ifrange>	Yes
show interface <ifrange> brief	Yes
show interface <ifrange> brief	Yes
show interface <ifrange> counters	Yes
show interface <ifrange> counters	Yes
show interface <ifrange> counters detailed all [snmp]	Yes
show interface <ifrange> description	Yes
show interface <ifrange> description	Yes
show interface <ifrange> status [err-disabled]	Yes
show interface <ifrange> status [err-disabled]	Yes
show interface <ifun_desc>	Yes
show interface <ifun_desc> description	Yes
show interface <ifun_status> status [err-disabled]	Yes
show interface <iftunnel_brf> brief	Yes
show interface <loop_ctr_errs> counters errors	No
show interface brief [controller cli]	Yes
show interface capabilities	Yes
show interface counters	Yes
show interface counters [module <module>]	Yes

Show Commands	XML Support
show interface counters brief [<counter_val>]	Yes
show interface counters detailed [snmp]	Yes
show interface counters detailed all [snmp]	Yes
show interface counters errors [module <module>]	Yes
show interface counters snmp [module <module>]	Yes
show interface counters storm-control [module <module>]	Yes
show interface counters table [verbose]	No
show interface debounce	Yes
show interface description	Yes
show interface flowcontrol [module <module>]	Yes
show interface hardware-mappings	No
show interface mac-address	Yes
show interface pruning	Yes
show interface snmp-ifindex	Yes
show interface status [down inactive module <module> up auto-column]	Yes
show interface status err-disabled	Yes
show interface status err-vlans	Yes
show interface switchport	Yes
show interface transceiver [calibrations details inventory]	Yes
show interface transceiver fex-fabric [calibrations details]	Yes
show interface trunk [module <module> vlan <vlan_id> fex <fex_num>]	Yes
show interface untagged-cos [module <mod_num>]	Yes
show inventory [chassis fans power_supply module [<module>] <s0> [<santa-cruz-range>] all]	Yes
show ip { mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901	No
show ip { mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901	No

Show Commands	XML Support
show ip { mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901	No
show ip { mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901	No
show ip { mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901	No
show ip { mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901	No
show ip { mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901	No
show ip { mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901	No
show ip { mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901	No
show ip { mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901	No
show ip { mbgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { bgp [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_01234567890123	No
show ip adjacency [<interface> [summary] <ip-addr> [non-best detail] detail summary non-best [throttle] statistics] [vrf { <vrf-name>	Yes
show ip arp [[[<ip-address> [sync-entries fhpr-non-active-learn] [detail] static summary [summary] <interface>]] [vrf { <vrf-name>	Yes
show ip arp anycast topo-info [<topo-id>]	No
show ip arp cache { { brief detail } { interface [<intf>] } } [operational]	No
show ip arp client	Yes
show ip arp controller-statistics	No
show ip arp internal { library-info fastboot-cache }	No
show ip arp internal { mem-stats [shared all] [no-libs] [detail] }	No
show ip arp internal buffers [{ [all <count>] [free <count>] }]	No
show ip arp internal event-history { packet errors msgs event sync-event ip-sync-event control ha lcache lcache-errors cli client-e	No
show ip arp internal event-history buffer-size { packet errors event sync-event ip-sync-event control ha lcache lcache-errors cli cli	No

Show Commands	XML Support
show ip arp internal hmm statistics [detail]	No
show ip arp internal info [interface <interface>]	No
show ip arp off-list [{ vlan bdi } <vlan-id>]	Yes
show ip arp open-flow error-statistics	No
show ip arp snmp ptree { static dynamic virtual typeall } [vrf { <vrf-name> <vrf-known-name> all }]	No
show ip arp statistics [<interface>] [interface-all] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip arp suppression topo-info [<topo-id>]	No
show ip arp suppression-cache { detail [vlan <vlan_id>] summary statistics vlan <vlan_id> local [vlan <vlan_id>] remote [vlan <vlan_id>] }	Yes
show ip arp tunnel-statistics	Yes
show ip arp vaddr	No
show ip arp vpc-statistics	Yes
"show ip as-path-access-list [""<aspl-name>"" <aspl-cfg-name>] "	Yes
show ip cache { { brief detail } { interface [<intf>] } } [operational]	No
show ip client [<client-name>]	Yes
show ip community-list [<cl_name>]	Yes
show ip debug	No
show ip dns source-interface [vrf { <vrf-name> <vrf-known-name> }]	Yes
show ip dns source-interface vrf all	Yes
show ip extcommunity-list [<extcl_name>]	Yes
show ip fib adjacency [<aif>] [<anh>] [module <module>]	Yes
show ip fib distribution [paуз rezum]	No
show ip fib distribution capture	Yes
show ip fib distribution clients	Yes
show ip fib distribution internal error counts	Yes
show ip fib distribution mroute [{ <group> <gprefix> } [<source>]] [table <id>]	Yes
show ip fib distribution multicast [messages]	Yes

Show Commands	XML Support
show ip fib distribution multicast outgoing-interface-list { L2 L3 OTV } [<index>]	Yes
show ip fib distribution state	Yes
show ip fib interfaces [module <module>]	Yes
show ip fib internal error counts [module <module>]	Yes
show ip fib mroute [{ <group> <gprefix> } [<source>]] [table <table-id>] [module <module>]	Yes
show ip fib mroute [{ <group> <gprefix> } [<source>]] [table <table-id>] [module <module>]	Yes
show ip fib mroute txlist [module <module>]	No
show ip fib route [vrf { <vrf-name> <vrf-known-name> <vrf-all> } table <table_id>] [summary <prefix> [longer-prefixes] <address> interf	Yes
show ip fib route [vrf { <vrf-name> <vrf-known-name> <vrf-all> } table <table_id>] [summary <prefix> [longer-prefixes] <address> interf	Yes
show ip fib route recovered	No
show ip ftm statistics	No
show ip ftp source-interface [vrf { <vrf-name> <vrf-known-name> }]	Yes
show ip ftp source-interface vrf all	Yes
show ip http source-interface [vrf { <vrf-name> <vrf-known-name> }]	Yes
show ip http source-interface vrf all	Yes
show ip igmp [internal] event-history { errors msgs <igmp-event-hist-buf-name> statistics }	No
show ip igmp { groups route } [{ <source> [<group>] } { <group> [<source>] }] [<interface>] [summary] [vrf { <vrf-name> <vrf-known-name> }	Yes
show ip igmp interface <interface> [detail] show ip igmp interface [brief] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip igmp interface <interface> [detail] show ip igmp interface [brief] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip igmp internal	No
show ip igmp internal { errors iod-cache pss-dump flexlink-iod-cache }	No
show ip igmp internal { mrib-txlist [vrf { <vrf-name> <vrf-known-name> all }] mrib-buffers }	No
show ip igmp internal { vpc emulated-switch }	Yes

Show Commands	XML Support
show ip igmp internal library-info	No
show ip igmp internal mem-stats [all] [no-libs] [detail]	No
show ip igmp internal mrib-cache [vrf { <vrf-name> <vrf-known-name> all }]	No
show ip igmp internal pim-cache [vrf { <vrf-name> <vrf-known-name> all }]	No
show ip igmp local-groups [<interface>] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip igmp policy statistics reports [<interface>]	No
show ip igmp snooping [{ vlan <vlan> bridge-domain <bdid> }]	Yes
show ip igmp snooping [{ vlan <vlan> bridge-domain <bdid> }]	Yes
show ip igmp snooping [internal] event-history { statistics <igmp-snoop-event-hist-buf-name> }	No
show ip igmp snooping [otv] groups [{ <source> [<group>] } { <group> [<source>] }] [vlan <vlan>] [detail] [summary]	Yes
show ip igmp snooping { report-policy access-group } statistics [vlan <vlan>]	No
show ip igmp snooping explicit-tracking [vlan <vlan> bridge-domain <bdid>] [] [detail]	Yes
show ip igmp snooping internal { ha mfdm ribs route-txlist memory }	No
show ip igmp snooping internal proxy-querier	No
show ip igmp snooping lookup-mode [vlan <vlan>]	Yes
show ip igmp snooping mac-oif [vlan <vlan>] [detail]	Yes
show ip igmp snooping mrouter [otv] [vlan <vlan> bridge-domain <bdid>] [detail]	Yes
show ip igmp snooping otv vlan brief	Yes
show ip igmp snooping pw vlan brief	Yes
show ip igmp snooping querier [vlan <vlan> bridge-domain <bdid>] [detail]	Yes
show ip igmp snooping snmp mib adminMode	Yes
show ip igmp snooping snmp mib aliasingMode	Yes
show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus	Yes
show ip igmp snooping snmp mib explicitTrackingTable [vlan <cisVlanIndex-in>]	Yes
show ip igmp snooping snmp mib fallBackTime	Yes
show ip igmp snooping snmp mib fastBlockEnabled	Yes

Show Commands	XML Support
show ip igmp snooping snmp mib fastleaveenabled	Yes
show ip igmp snooping snmp mib filterStatsTable [interface <ifIndex-in> vlan <cisFilterStatsVlanNumber-in>]	Yes
show ip igmp snooping snmp mib ifAccessGroupTable [interface <ifIndex-in> vlan <cisIfAccessGroupVlan-in>]	Yes
show ip igmp snooping snmp mib ifConfigTable [interface <ifIndex-in>]	Yes
show ip igmp snooping snmp mib ifLimitTable [interface <ifIndex-in> vlan <cisIfLimitVlanNumber-in>]	Yes
show ip igmp snooping snmp mib ifLimitTotalTable [interface <ifIndex-in>]	Yes
show ip igmp snooping snmp mib igmpsnoopingenabled	Yes
show ip igmp snooping snmp mib iterfaceStatsTable [interface <ifIndex-in>]	Yes
show ip igmp snooping snmp mib lastMemeberQueryCount	Yes
show ip igmp snooping snmp mib lastMemeberQueryInterval	Yes
show ip igmp snooping snmp mib leaveQueryType	Yes
show ip igmp snooping snmp mib mcastGroupTable [vlan <cisMcastGroupVlanIndex-in> <cisMcastGroupAddressType-in> <cisMcastGroupAddress-in>]	Yes
show ip igmp snooping snmp mib mcastRouterCfgTable [interface <ifIndex-in> vlan <cisMcastRouterVlanIndex-in>]	Yes
show ip igmp snooping snmp mib mcastRouterConfigTable [vlan <cisMcastRouterConfigVlanIndex-in> interface <ifIndex-in>]	Yes
show ip igmp snooping snmp mib multicastGroupConfigTable [vlan <cisMulticastGroupConfVlanIndex-in> <cisMulticastGroupConfCeVlanIndex-in> <cisMulticastGr	Yes
show ip igmp snooping snmp mib multicastGroupPortListTable [vlan <cisMulticastGroupVlanIndex-in> <cisMulticastGroupCeVlanIndex-in> <cisMulticastGroupAdd	Yes
show ip igmp snooping snmp mib multicastGroupTable [vlan <cisMulticastGroupVlanIndex-in> <cisMulticastGroupCeVlanIndex-in> <cisMulticastGroupAddressType	Yes
show ip igmp snooping snmp mib operMode	Yes
show ip igmp snooping snmp mib querierTable [vlan <cisIgmPQuerierVlanIndex-in>]	Yes
show ip igmp snooping snmp mib reportsuppressionenabled	Yes
show ip igmp snooping snmp mib robustnessVariable	Yes

Show Commands	XML Support
show ip igmp snooping snmp mib routerAlertCheckEnabled	Yes
show ip igmp snooping snmp mib sourceOnlyEntryAgingTime	Yes
show ip igmp snooping snmp mib sourceOnlyLearningEnabled	Yes
show ip igmp snooping snmp mib tcxFloodQueryCount	Yes
show ip igmp snooping snmp mib timeToLiveCheckEnabled	Yes
show ip igmp snooping snmp mib topoChangeQuerySolicitEnabled	Yes
show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus	Yes
show ip igmp snooping snmp mib v3SnoopingSupport	Yes
show ip igmp snooping snmp mib vlanconfigtable [vlan <cisVlanIndex-in>]	Yes
show ip igmp snooping snmp mib vlanFilterConfigTable [vlan <cisVlanIndex-in>]	Yes
show ip igmp snooping statistics [global vlan <vlan> bridge-domain <bdid>]	Yes
show ip igmp vrf all	Yes
show ip interface { { { brief [include-secondary] } [<interface>] [<ip-addr>] } [operational] [vaddr] [vrf { <vrf-name> <vrf-known-name> }	Yes
show ip internal [api] context array	No
show ip internal { { mem-stats [shared all] [no-libs] [detail] } boot-info }	No
show ip internal { ppf { { acl pbr } { status [detail] interface <interface> [{ ingress egress }] } } }	No
show ip internal bfd data [{ vrf { <vrf-name> <vrf-known-name> all } interface <interface> }]	No
show ip internal event-history { errors msgs ipc ha log ppf cli vrf-errors arp-miss snmp static-rt lcache-err lcache-trace pkt-b	No
show ip internal event-history bfd	No
show ip internal event-history buffer-size { errors log ipc snmp ha ppf cli vrf-errors arp-miss static-rt pkt-buffer all }	No
show ip internal hmm	No
show ip internal igmp-snoop-stats	No
show ip internal info [unnumbered directed-broadcast]	No
show ip internal info interface [iod <if_iod> <interface> all]	No
show ip lisp data-cache [<eid>] [vrf { <vrf-name> <vrf-known-name> }]	No

Show Commands	XML Support
show ip load-sharing	Yes
show ip local-pt [vrf { <vrf-name> <vrf-known-name> all }]	No
show ip logging [hash]	Yes
show ip mroute [[bitfield] [detail] rp { [<group>] summary [software-forwarded rpf-failed] } { summary [count software-forwarded rp	Yes
show ip multicast vrf [<vrf-name> <vrf-known-name> all]	Yes
show ip ospf [<inst>] policy statistics { { redistribute { { bgp eigrp } <as> { isis ospf rip } <tag> static direct amt } } { area <are	Yes
show ip ospf [<tag>] [internal] event-history { errors msgs statistics adjacency event ha flooding lsa spf redistribution ldp	No
show ip ospf [<tag>] [internal] event-history detail [statistics]	No
show ip ospf [<tag>] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] border-routers [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] database [[[[network asbr-summary summary router opaque-link opaque-area nssa-external] [area <area-id-ip>]]]	Yes
show ip ospf [<tag>] database [[[network asbr-summary summary router opaque-link opaque-area nssa-external] [area <area-id-ip>]] e	Yes
show ip ospf [<tag>] database database-summary [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] ha [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] interface [<interface> vrf { <vrf-name> <vrf-known-name> all }] [private]	Yes
show ip ospf [<tag>] interface brief [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] internal [errors] [area <area-id-ip>] [asbrs] [externals] [flood-indices] [if-number-tree] [max-metric] [as-extern	No
show ip ospf [<tag>] internal ha [vrf { <vrf-name> <vrf-known-name> all }]	No
show ip ospf [<tag>] internal library-info	No
show ip ospf [<tag>] internal mem-stats [no-libs] [detail]	No
show ip ospf [<tag>] internal missed-traps-statistics	No
show ip ospf [<tag>] lsa-content-changed-list { <ip-addr> <neighbor-name> } <interface>	Yes
show ip ospf [<tag>] memory	Yes

Show Commands	XML Support
show ip ospf [<tag>] mpls ldp interface [<interface> vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] neighbors [{ { <interface> [<neighbor> <neighbor-name> }] { [<neighbor> <neighbor-name>] [vrf { <vrf-name> <vrf-known-name> }] }]	Yes
show ip ospf [<tag>] neighbors [<interface>] [<neighbor> <neighbor-name>] detail [vrf { <vrf-name> <vrf-known-name> all }] [private]	Yes
show ip ospf [<tag>] neighbors [<interface>] summary [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] request-list { <ip-addr> <neighbor-name> } <interface>	Yes
show ip ospf [<tag>] retransmission-list { <routerid> <router-name> } <interface>	Yes
show ip ospf [<tag>] route [<ip-addr> <ip-prefix> [longer-prefixes]] [all_routes] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] route [<ip-prefix> [longer-prefixes]] summary [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] sham-links [brief] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] statistics [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] summary-address [private] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] traffic [<interface> [detail] [detail] [detail] vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] traps-queue	No
show ip ospf [<tag>] virtual-links [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip ospf [<tag>] virtual-links brief [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip overlay-traffic	No
show ip pim [internal] event-history { errors msgs <pim-event-hist-buf-name> statistics }	No
show ip pim bitfield	No
show ip pim config-sanity	No
show ip pim df [<rp-or-group>] [vrf { <vrf-name> <vrf-known-name> all }] [internal]	Yes
show ip pim fabric info	No
show ip pim fabric legacy-vlans	No

Show Commands	XML Support
show ip pim group-range [<group>] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip pim interface <interface> show ip pim interface [brief] [internal] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip pim interface <interface> show ip pim interface [brief] [internal] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip pim internal	No
show ip pim internal { { vpc [rpf-source [vrf { <vrf-name> <vrf-known-name> all }]] } emulated-switch }	Yes
show ip pim internal { library-info iod-cache }	No
show ip pim internal errors	No
show ip pim internal interface-txlist vrf [<vrf-known-name> all]	No
show ip pim internal mem-stats [shared all] [no-libs] [detail]	No
show ip pim internal pss-dump [df-states interfaces rp auto-rp bsr] [vrf { <vrf-name> <vrf-known-name> all }]	No
show ip pim lisp encap	No
show ip pim mdt [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip pim mdt bgp [mdt-source <src-addr>]	No
show ip pim mdt history interval <min> [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip pim mdt receive [detail] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip pim mdt send [detail] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip pim neighbor { [<interface>] [<ipaddr>] } [detail internal] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip pim oif-list <group> [<source>] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip pim policy statistics { jp-policy neighbor-policy } <interface>	No
show ip pim policy statistics { register-policy bsr { bsr-policy rp-candidate-policy } auto-rp { rp-candidate-policy mapping-agent-policy } } [v	No
show ip pim route { [bitfield] <source> <group> <group> [<source>] [bitfield] } [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip pim route internal [<source> <group> <group> [<source>]] { [detail] } [vrf { <vrf-name> <vrf-known-name> all }]	No
show ip pim rp [<group>] [vrf { <vrf-name> <vrf-known-name> all }]	Yes

Show Commands	XML Support
show ip pim rp-hash <group> [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip pim statistics [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip pim vrf [{ <vrf-name> <vrf-known-name> all }] [detail internal]	Yes
show ip ping source-interface [vrf { <vrf-name> <vrf-known-name> }]	Yes
show ip ping source-interface [vrf { <vrf-name> <vrf-known-name> }]	Yes
show ip ping source-interface vrf all	Yes
"show ip prefix-list { { [detail summary] [""<ipv4-pfl-name>"" <ipv4-pfl-cfg-name>] } { { <ipv4-pfl-name> <ipv4-pfl-cfg-name> } seq <seq-no> } "	Yes
show ip process [api] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip rip [instance <inst>] policy statistics redistribute { bgp <as> { eigrp isis <src-rip> ospf } <tag> direct static } [vrf { <vrf-na	No
show ip router-id [vrf { <vrf-name> <vrf-known-name> all }]	No
show ip ssh source-interface [vrf { <vrf-name> <vrf-known-name> }]	Yes
show ip ssh source-interface vrf all	Yes
show ip static-route [multicast] [internal] [track-table] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ip stats	No
show ip telnet source-interface [vrf { <vrf-name> <vrf-known-name> }]	Yes
show ip telnet source-interface vrf all	Yes
show ip tftp source-interface [vrf { <vrf-name> <vrf-known-name> }]	Yes
show ip tftp source-interface vrf all	Yes
show ip traceroute source-interface [vrf { <vrf-name> <vrf-known-name> }]	Yes
show ip traceroute source-interface vrf all	Yes
show ip traceroute source-interface vrf all	Yes
show ip traffic [vrf { <vrf-name> <vrf-known-name> }]	Yes
show ip txlist { list member }	No
show ipv6 [icmp] mld groups [{ <source> [<group>] } { <group> [<source>] }] [<interface>] [vrf { <vrf-name> <vrf-known-name> all }] [Yes
show ipv6 [icmp] mld internal { m6rib-txlist [vrf { <vrf-name> <vrf-known-name> all }] m6rib-buffers }	No

Show Commands	XML Support
show ipv6 [icmp] mld internal errors	No
show ipv6 [icmp] mld local-groups [<interface>] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ipv6 [icmp] mld route internal [static] [vrf { <vrf-name> <vrf-known-name> }]	No
show ipv6 [icmp] mld vrf all	No
show ipv6 { adjacency neighbor } [<interface> [summary] <ipv6-addr> [detail] detail summary non-best [throttle] statistics] [vrf { <vrf-name> <vrf-known-name> }]	Yes
show ipv6 { bgp mbgp } [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] [<ipv6-prefix> [longer-prefixes]] [vrf { <vrf-name> <vrf-known-name> }]	No
show ipv6 { bgp mbgp } [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] { rib-install rib-uninstall rib-pending } [vrf { <vrf-name> <vrf-known-name> }]	No
show ipv6 { bgp mbgp } [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] community { <regex-str> { { <comm-id> <wellknown-id> } } }	No
show ipv6 { bgp mbgp } [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] dampening { dampened-paths [regex <regex-str>] histor	No
show ipv6 { bgp mbgp } [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] extcommunity { <regex-str> { { 4byteas-generic { transit	No
show ipv6 { bgp mbgp } [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] flap-statistics [<ipv6-prefix>] [vrf { <vrf-name> <vrf-known-name> }]	No
show ipv6 { bgp mbgp } [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] neighbors { [{ <neighbor-id> <ipv6-neighbor-id> }] rout	No
show ipv6 { bgp mbgp } [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] nexthop-database [vrf { <vrf-name> <vrf-known-name> } AL	No
show ipv6 { bgp mbgp } [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] received-paths [private] [vrf { <vrf-name> <vrf-known-name> }]	No
show ipv6 { bgp mbgp } [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] regex <regex-str> [vrf { <vrf-name> <vrf-known-name> }]	No
show ipv6 { bgp mbgp } [vrf { <vrf-name> <vrf-known-name> ALL_VRFS_012345678901234 }] summary [vrf { <vrf-name> <vrf-known-name> } ALL_VRFS_01	No

Show Commands	XML Support
show ipv6 { bgp mbgp } { route-map { <rmap-name> <rmap-name> } prefix-list { <prfxlist-name> <test_pol_name> } filter-list { <fltrlist-name>	No
show ipv6 { bgp mbgp } nexthop <ipv6nexthop>	No
show ipv6 { icmp nd } global traffic	Yes
show ipv6 cache { { brief detail } { interface [<intf>] } } [operational]	No
show ipv6 client [<client-name>]	Yes
show ipv6 fragments [<source-addr>]	Yes
show ipv6 icmp { adjacency neighbor sync-entries } [<interface>] [detail] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ipv6 icmp internal event-history { errors msgs icmpv6-internal nd vip-nd mld { debugs events } ha sync-event ipv6-sync-event	No
show ipv6 icmp internal event-history buffer-size { errors icmpv6-internal nd mld { debugs events } ha sync-event ipv6-sync-event vrf	No
show ipv6 icmp internal hmm statistics [detail]	No
show ipv6 icmp ndp	No
show ipv6 icmp off-list [vlan <vlan-id>]	Yes
show ipv6 icmp process sdb	No
show ipv6 icmp vaddr { link-local [detail] global pt-tree } [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ipv6 icmp vpc-statistics	Yes
show ipv6 interface { [brief [include-secondary]] [<interface> <ipv6-addr>] [detail] } [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ipv6 interface global	No
show ipv6 internal [api] context array	No
show ipv6 internal { info fastboot-cache }	No
show ipv6 internal { mem-stats [shared all] [no-libs] [detail] }	No
show ipv6 internal bfd data [{ vrf { <vrf-name> <vrf-known-name> all } interface <interface> }]	No
show ipv6 internal event-history { errors msgs ipc ha log sdb snmp bfd objstr }	No
show ipv6 internal event-history buffer-size { errors log ipc snmp ha sdb bfd all }	No

Show Commands	XML Support
show ipv6 internal netstack { m6rib-txlist [vrf { <vrf-name> <vrf-known-name> }] m6rib-buffers }	No
show ipv6 internal netstack mroute [vrf { <vrf-name> <vrf-known-name> }]	No
show ipv6 lisp data-cache [<eid>] [vrf { <vrf-name> <vrf-known-name> }]	No
show ipv6 local-pt [vrf { <vrf-name> <vrf-known-name> all }]	No
show ipv6 mroute [[bitfield] rp { [<group>] summary [software-forwarded] } { summary [count software-forwarded] } { <source> <group	Yes
show ipv6 mtu [statistics vrf { <vrf-name> <vrf-known-name> all [detail] }]	Yes
show ipv6 multicast vrf [{ <vrf-name> <vrf-known-name> all }]	Yes
show ipv6 nd ra dns search-list [interface <interface>]	Yes
show ipv6 nd ra dns server [interface <interface>]	Yes
show ipv6 nd rt-pref global pt	No
show ipv6 ndp	No
show ipv6 neighbor static [interface <interface>]	Yes
"show ipv6 prefix-list { { [detail summary] [""<ipv6-pfl-name>"" <ipv6-pfl-cfg-name>] } { <ipv6-pfl-name> <ipv6-pfl-cfg-name> } seq <seq-no> } "	Yes
show ipv6 process [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ipv6 process sdb	No
show ipv6 rip [instance <inst>] policy statistics redistribute { bgp <as> { eigrp isis <src-rip> ospfv3 lisp } <tag> direct static } [vr	No
show ipv6 routers [all-routers] [[interface <interface>] [vrf { <vrf-name> <vrf-known-name> all }]]	Yes
show ipv6 static-route [<prefix>] [multicast] [track-table] [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show ipv6 statistics	No
show ipv6 traffic [detail] [vrf { <vrf-name> <vrf-known-name> }]	Yes
show keystore	Yes
show kim inconsistency	No
show kim internal event-history cli	No
show kim internal event-history errors	No

Show Commands	XML Support
show kim internal event-history events	No
show kim internal event-history intf	No
show kim internal event-history msgs	No
show kim internal event-history mts	No
show kim internal event-history packets	No
show kim internal event-history pss	No
show kim internal event-history vrf	No
show kim internal info [lpss namespace]	No
show kim internal mem-stats [detail]	No
show l2fwder l2rib info	No
show l2fwder rmac <mac-address>	No
show l2fwder statistics	No
show l2protocol tunnel [{ interface <intf-range> } { vlan <vlan-id> }] [summary]	Yes
show l2rib clients [<client_id>]	Yes
show l2rib internal client-stats [<client_id>]	No
show l2rib internal mem-stats [detail]	No
show l2rib internal pss <rt-enum>	No
show l2rib internal state	No
show l2rib internal stats	No
show l2rib internal txlist { all topo mac-local-static mac-bgp mac-vxlan mac-best-route mac-ip-bgp mac-ip-best-route imet-vxlan-fl to	No
show l2rib internal unfreeze-list	No
show l2rib producers [{ topology mac mac-ip ead pl imet flood-list startup-route peerid } [static local bgp vxlan hmm arp	Yes
show l2rib registrations [client <client_id> [<topo_id> { mac mac-ip ead pl imet flood-list arp-signal startup-route topo }]]	Yes
show l2route { mac openflow mac dataplane mac [local remote] } { topology <topo-id> all } [detail]	Yes
show l2route { mac-ip openflow mac-ip } { topology <topo-id> all } [detail]	Yes

Show Commands	XML Support
show l2route evpn fl all [detail]	Yes
show l2route evpn fl evi <vpn-id> [detail]	Yes
show l2route evpn imet all [detail]	Yes
show l2route evpn imet evi <vpn-id> [bgp vxlan] [detail]	Yes
show l2route evpn mac all [detail]	Yes
show l2route evpn mac evi <vpn-id> [static local bgp vxlan] [mac <mac_addr>] [next-hop { <ipv4_addr> <ipv6_addr> <if-hdl> }] [detail]	Yes
show l2route evpn mac-ip all [detail]	Yes
show l2route evpn mac-ip evi <vpn-id> [arp bgp hmm] [mac <mac_addr>] [host-ip { <ipv4_host> <ipv6_host> }] [next-hop { <ipv4_addr> <ipv6_	Yes
show l2route evpn startup-route all [detail]	Yes
show l2route evpn startup-route evi <vpn-id> [detail]	Yes
show l2route fl { topology <topo-id> all } [detail]	Yes
show l2route peerid	Yes
show l2route summary	No
show l2route topology [<topo_id>] [detail]	Yes
show license	Yes
show license brief	Yes
show license file <license-file>	Yes
show license host-id	Yes
show license reserved	No
show license usage [{ detail <license-feature> }]	Yes
show line	Yes
show line console	Yes
show line console connected	Yes
show line console user-input-string	Yes
show lisp internal info	No
show lisp stats-cache [vrf { <vrf-name> <vrf-known-name> }]	No
show locator-led status	Yes

Show Commands	XML Support
show logging	No
show logging console	No
show logging info	Yes
show logging internal info	No
show logging ip access-list cache [detail]	Yes
show logging ip access-list internal [event-history] errors	No
show logging ip access-list internal [event-history] msgs	No
show logging ip access-list internal info [{ global }]	No
show logging ip access-list internal mem-stats [detail]	No
show logging ip access-list status	Yes
show logging last <i0>	No
"show logging level ""tacacs"" "	No
show logging level [{ auth authpriv cron daemon ftp kernel local0 local1 local2 local3 local4 local5 local6 local7 lpr m	No
show logging level { keystore sksd }	No
show logging level { license licmgr }	No
show logging level aaa	No
show logging level aclog	No
show logging level aclmgr	No
show logging level adbm	No
show logging level adjmgr	No
show logging level arp	No
show logging level ascii-cfg	No
show logging level bfd	No
show logging level bgp	No
show logging level bloggerd	No
show logging level bootvar	No
show logging level callhome	No

Show Commands	XML Support
show logging level capability	No
show logging level cdp	No
show logging level cert_enroll	No
show logging level cert-enroll	No
show logging level cfs	No
show logging level clis	No
show logging level clk_mgr	No
show logging level confcheck	No
show logging level copp	No
show logging level core	No
show logging level diagnostic device_test	No
show logging level diagnostic diagclient	No
show logging level diagnostic diagmgr	No
show logging level eltm	No
show logging level ethdstats	No
show logging level ethpm	No
show logging level evmc	No
show logging level evms	No
show logging level fabric forwarding	No
show logging level feature-mgr	No
show logging level fs-daemon	No
show logging level gpixm	No
show logging level im	No
show logging level ip igmp	No
show logging level ip pim	No
show logging level ipconf [ipv6]	No
show logging level ipfib	No
show logging level ipqos	No

Show Commands	XML Support
show logging level ipv6 icmp	No
show logging level l2fm	No
show logging level l2pt	No
show logging level l3vm	No
show logging level lim	No
show logging level m2rib	No
show logging level mfdm	No
show logging level mfwd	No
show logging level mmode	No
show logging level module	No
show logging level monitor	No
show logging level mvsh	No
show logging level netstack	No
show logging level ntp	No
show logging level nve	No
show logging level ospf	No
show logging level pfstat	No
show logging level pixm	No
show logging level pktmgr	No
show logging level platform	No
show logging level plcmgr	No
show logging level pltfm_config	No
show logging level plugin	No
show logging level port-channel	No
show logging level port-profile	No
show logging level radius	No
show logging level res_mgr	No
show logging level rip	No

Show Commands	XML Support
show logging level routing [ip ipv4] multicast	No
show logging level routing ipv6 multicast	No
show logging level rpm	No
show logging level sal	No
show logging level security	No
show logging level session-mgr	No
show logging level smm	No
show logging level snmpd	No
show logging level snmpmib_proc	No
show logging level spanning-tree	No
show logging level spm	No
show logging level stripcl	No
show logging level sysmgr	No
show logging level track	No
show logging level u6rib	No
show logging level ufdm	No
show logging level urib	No
show logging level vdc_mgr	No
show logging level virtual-service	No
show logging level vlan_mgr	No
show logging level vmm	No
show logging level vshd	No
show logging level vtp	No
show logging level xbar	No
show logging logfile	No
show logging logfile duration <s1>	No
show logging logfile last-index	No
show logging logfile start-seqn <i0> [end-seqn <i1>]	No

Show Commands	XML Support
show logging logfile start-time <i0> <s0> <i1> <s1> [end-time <i2> <s2> <i3> <s3>]	No
show logging loopback	No
show logging module	No
show logging monitor	No
show logging nvram [[{ last <i0> }] []]	Yes
show logging onboard [card-first-power-on card-boot-history <common_options> endtime <s0> [{ <common_options> error-stats [port <i0>]	No
show logging onboard { counter-stats endtime <s0> [{ counter-stats internal { <dc3_options> } }] internal { <dc3_options> } module <mod	No
show logging origin-id	No
show logging pending	No
show logging pending-diff	No
show logging server	Yes
show logging session status	No
show logging source-interface	No
show logging status	No
show logging timestamp	No
show login	Yes
show login failures	Yes
show login on-failure log	No
show login on-successful log	No
show mac address-table [static dynamic secure] [local] [{ [address1 <mac-addr> { switch-id <swid> [sub-switch-id <sswid> }] } vlan1 <id>]	Yes
show mac address-table <module> [count] [static dynamic secure] [{ [address1 <mac-addr> { switch-id <swid> [sub-switch-id <sswid>] }] } vlan	Yes
show mac address-table aging-time	Yes
show mac address-table count [static dynamic] [local] [{ [interface <interface-name> { switch-id <swid> [sub-switch-id <sswid> }] } vlan <id>	Yes
show mac address-table learning-mode [vlan <id>]	Yes
show mac address-table loop-detect	No

Show Commands	XML Support
show mac address-table multicast [vlan <vlan>]	Yes
show mac address-table notification mac-move	Yes
show mac vdc <vdc_id>	Yes
show mac-list { [<mac_list_name> [{ seq <seq_no> { <mac_addr> [<mac_mask> }] }] }	Yes
show maintenance on-reload reset-reasons	Yes
show maintenance profile [<mode>]	Yes
show maintenance snapshot-delay	Yes
show maintenance timeout	Yes
show mcectest <arg>	Yes
show mcectest internal event-history errors	No
show mcectest internal event-history msgs	No
show mcectest internal mem-stats [detail]	No
show mcectest mcec interface <if> [use-cache] [vdc-id] [_readonly_ <mcec_mode>]	No
show mgmt-policy { <policy-name> all }	Yes
show module [{ <module> } { <s0> [<santa-cruz-range>] } { fabric [<module>] }]	Yes
show module <module> bandwidth-fairness	Yes
show module internal [event-history] errors	No
show module internal [event-history] msgs	No
show module internal activity { module1 <module> <s0> <santa-cruz-range> }	No
show module internal all [{ module1 <module> <s0> <santa-cruz-range> }]	No
show module internal event-history <s0> <santa-cruz-range>	No
show module internal event-history module1 <module>	No
show module internal event-history stats	No
show module internal exceptionlog	No
show module internal exceptionlog internal1 event-history all	No
show module internal exceptionlog internal1 event-history errors	No
show module internal exceptionlog internal1 event-history msgs	No

Show Commands	XML Support
show module internal exceptionlog module1 <module>	No
show module internal info [module1 <module>]	No
show module internal lock	No
show module internal mem-stats [detail]	No
show module internal sequence lc	No
show module internal sequence sup	No
show module internal sw info [module1 <module>]	No
show module supported	No
show module uptime	Yes
show monitor	Yes
show monitor internal [event-history] errors	No
show monitor internal [event-history] lock	No
show monitor internal [event-history] logs	No
show monitor internal event-history { session <session_number> }	No
show monitor internal event-history debug	No
show monitor internal event-history global	No
show monitor internal event-history msg	No
show monitor internal info { global-info stats clear-stats }	No
show monitor internal info { interface <interface> session { <session_number> all } vlan <vlan_id> fex fpc }	No
show monitor internal mem-stats [detail]	No
show monitor session { all <session_number> range <session_range> } [brief]	Yes
show mpls forwarding statistics [interface { <interface> all }]	Yes
show mpls strip internal [info] [{ global labels ports } [<val>]]	No
show mpls strip labels [all static dynamic <label_val>]	Yes
show mvpn bgp { mdt-safi auto-discovery } [mdt-source <src-addr>]	Yes
show mvpn internal { mrib-txlist mrib-buffers }	No
show mvpn internal ha [vrf { <vrf-name> <vrf-known-name> all }]	No

Show Commands	XML Support
show mvpn internal state	No
show mvpn mdt encap [vrf { <vrf-name> <vrf-known-name> all }]	Yes
show mvpn mdt route [detail]	Yes
show mvpn snmp mib genericTable [<mplsVpnVrfName-in>]	Yes
show mvpn snmp mib mvpnBgpMdtUpdateTable [<ciscoMvpnBgpMdtUpdGrpAddrType-in> <ciscoMvpnBgpMdtUpdateGroup-in> <ciscoMvpnBgpMdtUpdSrcAddrType-in> <ciscoMvp	Yes
show mvpn snmp mib mvpnMdtDataTable [<mplsVpnVrfName-in>]	Yes
show mvpn snmp mib mvpnMdtDefaultTable [<mplsVpnVrfName-in>]	Yes
show mvpn snmp mib mvpnMdtJnRcvTable [<mplsVpnVrfName-in> <ciscoMvpnMdtJnRcvGrpAddrType-in> <ciscoMvpnMdtJnRcvGroup-in> <ciscoMvpnMdtJnRcvSrcAddrType-in>	Yes
show mvpn snmp mib mvpnMdtJnSendTable [<mplsVpnVrfName-in> <ciscoMvpnMdtJnSendGrpAddrType-in> <ciscoMvpnMdtJnSendGroup-in> <ciscoMvpnMdtJnSendSrcAddrType	Yes
show mvpn snmp mib mvpnMrouteMdtTable [<mplsVpnVrfName-in> <ciscoMvpnMrouteMvrfGrpAddrType-in> <ciscoMvpnMrouteMvrfGroup-in> <ciscoMvpnMrouteMvrfSrcAddrT	Yes
show mvpn snmp mib mvpnMvrfNumber	Yes
show mvpn snmp mib mvpnNotificationEnable	Yes
show mvpn snmp mib mvpnTunnelTable [<ifIndex-in>]	Yes
show nbproxy internal event-history cli	No
show nbproxy internal event-history errors	No
show nbproxy internal event-history events	No
show nbproxy internal event-history intf	No
show nbproxy internal event-history msgs	No
show nbproxy internal event-history mts	No
show nbproxy internal event-history packets	No
show nbproxy internal event-history pss	No
show nbproxy internal event-history vrf	No
show nbproxy internal info	No
show ntp access-groups	Yes

Show Commands	XML Support
show ntp authentication-keys	Yes
show ntp authentication-status	Yes
show ntp information	Yes
show ntp internal event-history config	No
show ntp internal event-history fsm	No
show ntp internal event-history msgs	No
show ntp internal event-history rts	No
show ntp internal event-history tstamp	No
show ntp internal log-buffer	No
show ntp internal mem-stats	No
show ntp internal mem-stats detail	No
show ntp internal module-info	No
show ntp logging-status	Yes
show ntp peer-status	Yes
show ntp peers	Yes
show ntp rts-update	Yes
show ntp session status	Yes
show ntp source	Yes
show ntp source-interface	Yes
show ntp statistics { [io] [local] [memory] peer { ipaddr { <ipv4_0> <ipv6_1> } name <s0> } }	Yes
show ntp status	Yes
show ntp trusted-keys	Yes
show nve bfd neighbors	Yes
show nve interface [<nve-if> [detail]]	Yes
show nve internal bfd neighbors interface <nve-if>	No
show nve internal bgp rnh database [vni <vni-id>]	No
show nve internal event-history cli	No

Show Commands	XML Support
show nve internal event-history errors	No
show nve internal event-history events	No
show nve internal event-history msgs	No
show nve internal event-history mts	No
show nve internal event-history packets	No
show nve internal event-history platform errors	No
show nve internal event-history platform traces	No
show nve internal event-history platform triggers	No
show nve internal event-history pss	No
show nve internal event-history triggers	No
show nve internal event-history xos-events	No
show nve internal export bgp rnh	No
show nve internal export controller peers	No
show nve internal export global	No
show nve internal export nve	No
show nve internal export peer	No
show nve internal export peer-vni	No
show nve internal export redundancy-group	No
show nve internal export vni [<vni-id>]	No
show nve internal libinfo	No
show nve internal mem-stats [detail]	No
show nve internal mrib-history [group <group-addr> clear]	No
show nve internal multicast-group	No
show nve internal peer-history [peer <peer-addr> clear]	No
show nve internal peer-notify-history [clear]	No
show nve internal peers [peer-ip <addr>] history-log	No
show nve internal pim-cache [vrf { <vrf-name> <vrf-known-name> all }]	No
show nve internal platform globals	No

Show Commands	XML Support
show nve internal platform interface [<nve-if> [{ vni [<vni-id>] } { peer [<peerip>] }]] [detail]	No
show nve internal platform statistics [clear]	No
show nve internal platform txn_buf { sw_bd peer_id peer_adj }	No
show nve internal port-history [clear]	No
show nve internal pss redundancy-group	No
show nve internal pss replication-servers	No
show nve internal snmp cnvoNvoPerPeerStatsTable nve <nve_in> paddr_type <paddr_type_in> paddr <paddr_in>	Yes
show nve internal snmp cnvoNvoTable nve <nve_in>	Yes
show nve internal snmp cnvoPeerTable nve <nve_in> paddr_type <paddr_type_in> paddr <paddr_in>	Yes
show nve internal snmp cnvoVNetStatsTable nve <nve_in> vni <vni_in>	Yes
show nve internal snmp cnvoVNetTable nve <nve_in> vni <vni_in>	Yes
show nve internal snmp global cnvoUdpDestinationPort	Yes
show nve internal source-group	No
show nve internal state	No
show nve internal statistics { mts interface <nve-if> vni <vni-id> peer <addr> } [clear]	No
show nve internal txlist { source-group }	No
show nve internal vni { <vni-id> all }	No
show nve internal vni-history [vni <vni> clear]	No
show nve peers [[[interface <nve-if> peer-ip <user-peer-ip> control-plane data-plane] [detail]] [control-plane-vni [vni <vni-id> peer-i	Yes
show nve peers { <addr> all } vni { <vni-id> all } interface <nve-if>counters	Yes
show nve peers <addr> interface <nve-if>counters	Yes
show nve replication-servers	Yes
show nve vni [{ { interface <nve-if> <vni-id> } [detail] } control-plane data-plane summary controller]	Yes
show nve vni <vni-id> counters	Yes
show nve vni ingress-replication [{ interface <nve-if> <vni-id> }]	Yes

Show Commands	XML Support
show nve vni peer-vtep [{ interface <nve-if> <vni-id> }]	Yes
show nve vrf [vrf-name]	Yes
show nve vxlan-params	Yes
show nxapi	Yes
show nxapi internal buffer	No
show nxapi retries	No
show object-group [<name>]	Yes
show param-list [param-list-name <plistname>] [show-instance]	Yes
show password secure-mode	Yes
show password strength-check	Yes
show pmap-int { interface [<iface-list>] [input output] [type <qos-or-q>] vlan [<vlan-list>] [inputx outputx] [type qos] }	Yes
show pmap-int-br interface br	Yes
show policy-map [{ [type qos] [<pmap-name-qos>] } { type queuing [<pmap-name-que>] }]	Yes
show policy-map interface { [<ifnum>] } type psp { [<pmap-name> [client <clienttype> <clientID>]] [handle <ppf_id>] } { [class-map-list { [Yes
show policy-map interface control-plane { [module <slot-no-in> [class <cmap-name>]] [class <cmap-name> [module <slot-no-in>]] }	Yes
show policy-map system [type { network-qos qos [input2] queuing [input output] }]	Yes
show policy-map type control-plane [expand] [{ name <pmap-name> }]	Yes
show policy-map type network-qos [<pmap-name-nq>]	Yes
show policy-map type psp { [<pmap-name> [client <clienttype> <clientID>] [cfg-mode <cfgmode>]] [handle <ppf_id>] }	Yes
show port-channel capacity	Yes
show port-channel compatibility-parameters	Yes
show port-channel database [interface <if0>]	Yes
show port-channel internal event-history all	No
show port-channel internal event-history debugs	No
show port-channel internal event-history errors	No

Show Commands	XML Support
show port-channel internal event-history interface <if0>	No
show port-channel internal event-history interface <if0>	No
show port-channel internal event-history lock	No
show port-channel internal event-history msgs	No
show port-channel internal info all	No
show port-channel internal info compat-check-log	No
show port-channel internal info interface <if0>	No
show port-channel internal info interface <if0>	No
show port-channel internal lacp-channels [interface <if0>]	Yes
show port-channel internal max-channels	Yes
show port-channel internal mem-stats [detail]	No
show port-channel internal member-mode [interface <if0>]	Yes
show port-channel internal sdb	No
show port-channel load-balance { [module <module>] { fex { all } } }	Yes
show port-channel load-balance forwarding-path { interface <ch-id> hgig } { src-interface <src-if> vlan <vlan-id> src-mac <src-mac> d	Yes
show port-channel load-balance forwarding-path1 interface <ch-id> src-interface <src-if> { vlan <vlan-id> src-mac <src-mac> dst-mac <dst-	Yes
show port-channel load-balance hardware forwarding-path { interface <ch-id> hgig } { source-interface <if-id> } { vlan <vlan-id> src-mac	Yes
show port-channel load-balance internal algorithm	No
show port-channel rbh-distribution [interface <if0>]	Yes
show port-channel summary [interface <if0> controller]	Yes
show port-channel traffic [interface <if0>]	Yes
show port-channel usage	Yes
show port-profile [name <all_profile_name>]	Yes
show port-profile brief	Yes
show port-profile expand-interface [name <all_profile_name>]	Yes
show port-profile sync-status [interface <intfname>]	Yes

Show Commands	XML Support
show port-profile usage [name <all_profile_name>]	Yes
show privilege	No
show processes	Yes
show processes { version threads } [<comp-string>]	Yes
show processes cpu [sort]	Yes
show processes cpu history	No
show processes cpu module <i0>	Yes
show processes log	Yes
show processes log details	Yes
show processes log pid <i0>	Yes
show processes log vdc-all	Yes
show processes memory	Yes
show processes memory clis [shared private]	No
show processes memory shared [detail dynamic]	Yes
show processes vdc <e-vdc2>	No
show processes vdc <e-vdc2> cpu	No
show processes vdc <e-vdc2> log	No
show processes vdc <e-vdc2> log details	No
show processes vdc <e-vdc2> log pid <i1>	No
show processes vdc <e-vdc2> memory	Yes
show pss debug	No
show qos dcbxp incompatibility interface <iface-num>	Yes
show qos dcbxp info	Yes
show qos shared-policer [type qos1] [<policer-name>]	Yes
show queuing [interface <if_list>] [summary] [module <module>]	Yes
show queuing [interface <if_list>] [summary] [module <module>]	Yes
show queuing burst-detect [interface <if_name> [queue <queue_num>]] [module <module>] [detail]	Yes

Show Commands	XML Support
show queuing burst-detect [interface <if_name> [queue <queue_num>]] [module <module>] [detail]	Yes
show queuing internal snmp interface <ifx-in>	Yes
show queuing internal snmp interface <ifx-in>	Yes
show queuing internal snmp interface cos <ifx-in> <grp-in>	Yes
show queuing internal snmp interface cos <ifx-in> <grp-in>	Yes
show queuing pfc-queue [interface <if_list>] [module <module>] [detail]	Yes
show queuing pfc-queue snmp ifIndex <ifidx>	Yes
show queuing1 [interface <if_list>] [summary] [module <module>]	Yes
show queuing1 [interface <if_list>] [summary] [module <module>]	Yes
show radius status	Yes
show radius-cfs	Yes
show radius-server	Yes
show radius-server { <host0> }	Yes
show radius-server directed-request	Yes
show radius-server groups [<s0>]	Yes
show radius-server sorted	Yes
show radius-server statistics <host0>	Yes
show redundancy status	Yes
show resource [<res-mgr-res-known-name>] [hidden-too with-flags]	Yes
show resource internal event-history errors	No
show resource internal event-history msgs	No
show resource internal mem-stats [detail]	No
show rmon { alarms events hcalarms info logs }	Yes
show role [name <arg3>]	Yes
show role feature [name <arg5> detail]	Yes
show role feature-group [name <arg4>] [detail]	Yes
show rollback log { exec verify }	Yes

Show Commands	XML Support
show rollback status	Yes
"show route-map [""<route-map-name>"" <route-map-cfg-name>] "	Yes
show routing [ip ipv4] [unicast] [internal] event-history { statistics msgs { { add-route cli delete-route detail dme errors gen	No
show routing [ip ipv4] [unicast] internal library-info	No
show routing [ip ipv4] [unicast] internal mem-stats [all shared] [no-libs] [detail]	No
show routing [ip ipv4] [unicast] memory estimate [routes <route-count> [next-hops <nh-count>] [next-hops-v6 <nh6-count>]] [labels]	Yes
show routing [ip ipv4] [unicast] memory statistics	Yes
show routing [ip ipv4] internal statistics [route-summary [[vrf { <vrf-name> <vrf-known-name> <vrf-all> }]]]	No
show routing [ip ipv4] multicast [internal] event-history { errors msgs <mrrib-event-hist-buf-name> statistics }	No
show routing [ip ipv4] multicast { { [bitfield] [detail] } rp { [<group>] summary [software-forwarded rpf-failed] } { summary [count	Yes
show routing [ip ipv4] multicast clients [<client-name>]	Yes
show routing [ip ipv4] multicast internal { iod-cache { rpf-tree bitfield mfdm } [vrf [<vrf-name> <vrf-known-name> all]] }	No
show routing [ip ipv4] multicast internal { txlist [detail] [vrf [<vrf-known-name> all]] client-buffers route-buffers }	No
show routing [ip ipv4] multicast internal fabric forwarder hash <group> <rpf_source> <border_leafs>+	No
show routing [ip ipv4] multicast internal flag-definitions	No
show routing [ip ipv4] multicast internal hash { <source> <group> <group> <source> } [vrf { <vrf-name> <vrf-known-name> }]	No
show routing [ip ipv4] multicast internal library-info	No
show routing [ip ipv4] multicast internal mem-stats [shared all] [no-libs] [detail]	No
show routing [ip ipv4] multicast internal pim-cache [vrf { <vrf-name> <vrf-known-name> all }]	No
show routing [ip ipv4] multicast internal rpf-source [<source>] [vrf { <vrf-name> <vrf-known-name> all }]	No
show routing [ip ipv4] multicast mdt encapsulation [detail] [vrf { <vrf-name> <vrf-known-name> all }]	Yes

Show Commands	XML Support
show routing [ip ipv4] multicast memory estimate [groups <group-count> sources-per-group <source-count> oifs-per-entry <oif-count> [mdt-encap-entri	Yes
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] [ip ipv4] [unicast] [topology <topology-name>] clients [<client> <protocol>	Yes
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] [ip ipv4] [unicast] [topology <topology-name>] hash <source> <dest> [ip-PROTO	Yes
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] [ip ipv4] [unicast] [topology <topology-name>] hidden-nh	Yes
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] [ip ipv4] [unicast] [topology <topology-name>] internal [force-update]	No
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] [ip ipv4] [unicast] [topology <topology-name>] internal pending-routes [summ	No
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] [ip ipv4] [unicast] [topology <topology-name>] nhlfe [stats] [vrf { <vrf-na	Yes
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] [ip ipv4] [unicast] [topology <topology-name>] recursive-next-hop [<ip-addr>	Yes
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] [ip ipv4] [unicast] [topology <topology-name>] unresolved-next-hop { [<ip-ad	No
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] ipv6 [unicast] [topology <topology-name>] clients [<client> <ipv6-protocol>]	Yes
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] ipv6 [unicast] [topology <topology-name>] hash [mpls <ipv6-prefix> [eos]] <so	Yes
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] ipv6 [unicast] [topology <topology-name>] hidden-nh	Yes
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] ipv6 [unicast] [topology <topology-name>] internal [force-update] [vrf { <vrf	No
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] ipv6 [unicast] [topology <topology-name>] internal distribution	No
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] ipv6 [unicast] [topology <topology-name>] internal distribution mh	No
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] ipv6 [unicast] [topology <topology-name>] nexthop info [vrf { <vrf-name> <vrf	No
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] ipv6 [unicast] [topology <topology-name>] nhlfe [stats] [vrf { <vrf-name> <v	Yes
show routing [vrf { <vrf-name> <vrf-known-name> <vrf-all> }] ipv6 [unicast] [topology <topology-name>] recursive-next-hop [<ipv6-addr>] [vr	Yes

Show Commands	XML Support
show routing ipv6 [unicast] [internal] event-history { statistics msgs am cli detail errors general ha lfe recursive-next-hop s	No
show routing ipv6 [unicast] internal buffers	No
show routing ipv6 [unicast] internal library-info	No
show routing ipv6 [unicast] internal mem-stats [all shared] [no-libs] [detail]	No
show routing ipv6 [unicast] internal ufdm	No
show routing ipv6 [unicast] memory estimate [routes <route-count> next-hops <nh-count>] [labels]	Yes
show routing ipv6 [unicast] memory statistics	Yes
show routing ipv6 internal statistics [route-summary [[vrf { <vrf-name> <vrf-known-name> <vrf-all> }]]]	No
show routing ipv6 multicast [internal] event-history { errors msgs <m6rib-event-hist-buf-name> statistics }	No
show routing ipv6 multicast [vrf { <vrf-name> <vrf-known-name> all }] [topology <topology-name>] [[bitfield] rp { [<group>] summary [s	Yes
show routing ipv6 multicast clients [<client-name>]	Yes
show routing ipv6 multicast internal	No
show routing ipv6 multicast internal { rpf-tree deleted-tree bitfield mfdm } [vrf [<vrf-name> <vrf-known-name> all]]	No
show routing ipv6 multicast internal flag-definitions	No
show routing ipv6 multicast internal library-info	No
show routing ipv6 multicast internal mem-stats [shared all] [no-libs] [detail]	No
show routing ipv6 multicast memory estimate [groups <group-count> sources-per-group <source-count> oifs-per-entry <oif-count>]	Yes
show routing multicast internal	No
show routing vxlan-hash peer-ip <peer-ip> <inner-src-mac> <inner-dst-mac> [<inner-src-ip> <inner-dst-ip>] [ip-proto <ip-proto>] [<inner-src-port> <	No
show routing-context	No
show routing-privilege	No
show running-config	No
"show running-config ""tacacs+"" [all] "	No

Show Commands	XML Support
show running-config { switch-profile include-switch-profile }	No
show running-config aaa [all]	No
show running-config acllog [all]	No
show running-config aclmgr [all inactive-if-config]	No
show running-config aclmgr { active-if-config all-if-config }	No
show running-config adjmgr [all]	No
show running-config all	No
show running-config arp [all]	No
show running-config bfd [all]	No
show running-config bgp [all]	No
show running-config bloggerd [all]	No
show running-config callhome [all]	No
show running-config cdp [all]	No
show running-config cert-enroll [all]	No
show running-config cfs [all]	No
show running-config clock_manager [all]	No
show running-config config-profile [<all_conf_profile_name>]	No
show running-config copp [all]	No
show running-config diagnostic [all]	No
show running-config diff	No
show running-config eem	No
show running-config eltm	No
show running-config exclude <feature-list>+	No
show running-config expand-port-profile	No
show running-config explicit	No
show running-config fabric forwarding [all]	No
show running-config icmpv6 [all]	No
show running-config igmp [all]	No

Show Commands	XML Support
show running-config interface [<if0>] [all] [expand-port-profile]	No
show running-config interface <if0> [membership] [expand-port-profile]	No
show running-config interface <if0> defaults	No
show running-config interface <if0> explicit	No
show running-config ip [all]	No
show running-config ipqos [all inactive-if-config]	No
show running-config ipqos { active-if-config all-if-config }	No
show running-config ipv6 [all]	No
show running-config l2pt [all]	No
show running-config l3vm [all]	No
show running-config license [all]	No
show running-config mmode [all]	No
show running-config monitor [all]	No
show running-config mpls strip [all]	No
show running-config ntp [all]	No
show running-config nv overlay [all]	No
show running-config ospf [all]	No
show running-config param-list [<plistname>]	No
show running-config pim [all]	No
show running-config port-profile [<all_profile_name>]	No
show running-config radius [all]	No
show running-config res_mgr	No
show running-config rip [all]	No
show running-config routing { ip ipv4 } multicast [all]	No
show running-config routing ipv6 multicast [all]	No
show running-config rpm [all]	No
show running-config section <section>	No
show running-config security [all]	No

Show Commands	XML Support
show running-config snmp [all]	No
show running-config spanning-tree [<all> interface <interface_range>]	No
show running-config track [all]	No
show running-config vdc [all]	No
show running-config vdc-all [all]	No
show running-config virtual-service	No
show running-config vlan	No
show running-config vlan <vlan-id> [expand-port-profile]	No
show running-config vlan_mgr	No
show running-config vrf <vrf-cfg-name> [all]	No
show running-config vrf default [all]	No
show running-config vshd	No
show running-config vtp [all]	No
show snapshots	Yes
show snapshots compare <snapshot-name-T1> <snapshot-name-T2>	Yes
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv4routes	Yes
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv6routes	Yes
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> summary	Yes
show snapshots dump <snapshot-name>	No
show snapshots sections	Yes
show snmp	Yes
show snmp community	Yes
show snmp context	Yes
show snmp engineID	Yes
show snmp group	Yes
show snmp host	Yes
show snmp internal climib loaded [<climib-name>]	No
show snmp internal climib mib cshc cshcInterfaceBufferTable ifindex <ifindex_in>	Yes

Show Commands	XML Support
show snmp internal climib mib cshc cshcModuleInterfaceDropsTable ent_idx <ent_idx_in>	Yes
show snmp internal climib mib entity entAliasMappingTable entPhysicalIndex <entPhysicalIndex> entAliasLogicalIndexOrZero <entAliasLogicalIndexOrZ	Yes
show snmp internal climib mib entity entPhysicalContainsTable entPhysicalIndex <entPhysicalIndex> entPhysicalChildIndex <entPhysicalChildIndex> [Yes
show snmp internal climib mib error-disable cErrDisableIfStatusTable ifIndex <ifx-in> vlan <vlan-in>	Yes
show snmp internal climib mib fibCounterTable <entPhysicalIndex-in> <counterIndex-in>	Yes
show snmp internal climib mib ifext cieIfDot1dBaseMappingTable ifindex <ifindex>	Yes
show snmp internal climib mib pfcext cpfcIfPriorityTable ifIndex <ifx-in> priority <grp-in>	Yes
show snmp internal climib mib pfcext cpfcIfTable ifIndex <ifx-in>	Yes
show snmp internal climib mib pfcext cpfcWatchdogIfQueueInfoTable ifIndex <ifx-in> queue-number <queue-in>	Yes
show snmp internal climib mib vlanif cviVlanInterfaceIndexTable vlan-id <vlan> ifindex <ifindex>	Yes
show snmp internal climib switch-qos [csqHwSharedPoolUsageTable [entPhysicalIndex <mod_ent> [csqHwSharedPoolDeviceId <device_id> [csqHwShared	Yes
show snmp internal climib switch-qos [csqIfPriGrpInBufUsageTable [ifIndex <ifidx> [csqIfPriGrpInBufUsageGrpNo <pgidx>]]]	Yes
show snmp internal climib switch-qos [csqIfQosGroupInfoTable [ifIndex <ifIndex-in> [csqIfQosGroupInfoDirection <ifDirection-in> [csqIfQosGrou	Yes
show snmp internal climib switch-qos [csqIfQosGroupStatsTable [ifIndex <ifIndex-in> [csqIfQosGroupStatsDirection <ifDirection-in> [csqIfQosGr	Yes
show snmp internal climib switch-qos [csqServicePoolCellSize]	Yes
show snmp internal climib switch-qos [csqSharedPoolUsageTable [entPhysicalIndex <mod_ent> [csqSharedPoolUsageInstNo <inst_id> [csqSharedPoolU	Yes
show snmp internal climib test <id>	Yes
show snmp internal climib trace [<buffers>]	No
show snmp internal climib trace core <pid>	No
show snmp internal conditional-loaded-mib-dump	No
show snmp internal eem-policy	No
show snmp internal feature-mgr-dump	No

Show Commands	XML Support
show snmp internal globals	No
show snmp internal loaded mibs	No
show snmp internal oids notification	No
show snmp internal oids registered	No
show snmp internal oids supported [create]	No
show snmp internal oids unsupported	No
show snmp internal protocol-instance-table	No
show snmp internal registered-notifications	No
show snmp internal tcp connections	No
show snmp internal trace log	No
show snmp internal translate oidorname <nameoroid>	No
show snmp mib igmpCacheTable [<igmpCacheAddress-in>] [<igmpCacheIfIndex-in>]	Yes
show snmp mib igmpInterfaceTable [<igmpInterfaceIfIndex-in>]	Yes
show snmp mib pimCandidateRPTable [<pimCandidateRPGroupAddress-in>] [<pimCandidateRPGroupMask-in>]	Yes
show snmp mib pimComponentTable [<pimComponentIndex-in>]	Yes
show snmp mib pimInterfaceTable [<pimInterfaceIfIndex-in>]	Yes
show snmp mib pimIpMRouteNextHopTable [<ipMRouteNextHopGroup-in> <ipMRouteNextHopSource-in> <ipMRouteNextHopSourceMask-in> <ipMRouteNextHopIfIndex-in> <i	Yes
show snmp mib pimIpMRouteTable [<ipMRouteGroup-in>] [<ipMRouteSource-in>] [<ipMRouteSourceMask-in>]	Yes
show snmp mib pimJoinPruneInterval	Yes
show snmp mib pimNeighborTable [<pimNeighborAddress-in>]	Yes
show snmp mib pimRPSetTable [<pimRPSetComponent-in>] [<pimRPSetGroupAddress-in>] [<pimRPSetGroupMask-in>] [<pimRPSetAddress-in>]	Yes
show snmp pss	No
show snmp roleddebug	No
show snmp sessions	Yes
show snmp snmpv3stats	No

Show Commands	XML Support
show snmp source-interface	Yes
show snmp trap	Yes
show snmp user [<s0> [engineID <s1>]]	Yes
show snmpmib internal [event-history] errors	No
show snmpmib internal [event-history] msgs	No
show snmpmib internal info [{ global }]	No
show snmpmib internal mem-stats [detail]	No
show sockets buffers [{ [all <count>] [free <count>] }]	No
show sockets client { [pid <pid>] [tcp udp raw] [detail] [kstack-ns-all] }	Yes
show sockets connection [pid <pid> tcp udp raw] [local { <srcIP> <srcIP6> }] [foreign { <dstIP> <dstIP6> }] [detail] [keydetails] [Yes
show sockets internal { dispatch-statistics { mem-stats [detail] } }	No
show sockets internal event-history { errors msgs setup ha events proto log }	No
show sockets internal event-history buffer-size { errors msgs setup ha events proto log all }	No
show sockets keychain-dump	No
show sockets local-port-range	Yes
show sockets performance [clear]	No
show sockets secure-lxc	No
show sockets statistics [all tcp tcp6 tcpsum udp udp6 udpsum raw raw6 rawsum]	Yes
show sockets tcp keychain binding	Yes
show spanning-tree [vlan <vlan-id> bridge-domain <bd-id>]	Yes
show spanning-tree [vlan <vlan-id> bridge-domain <bd-id>] { <verbosity> active } +	No
show spanning-tree [vlan <vlan-id> bridge-domain <bd-id>] interface <interface-id>	Yes
show spanning-tree [vlan <vlan-id> bridge-domain <bd-id>] interface <interface-id> { <verbosity> active } +	No
show spanning-tree [vlan <vlan-id> bridge-domain <bd-id>] summary	Yes
show spanning-tree internal [event-history] errors	No

Show Commands	XML Support
show spanning-tree internal [event-history] msgs	No
show spanning-tree internal event-history { { tree <tree-id> [all-ports interface <interface-id>] } deleted all } [brief]	No
show spanning-tree internal event-history stp-lite	No
show spanning-tree internal event-history vpc pes	No
show spanning-tree internal event-history vpc sps	No
show spanning-tree internal flc-info [vlan <vlan-id> bridge-domain <bd-id>]	No
show spanning-tree internal info all	No
show spanning-tree internal info flush qstats	No
show spanning-tree internal info flush stats	No
show spanning-tree internal info global	No
show spanning-tree internal info issu	No
show spanning-tree internal info l2gstp [vlan <vlan-id>]	No
show spanning-tree internal info l2gstp peer-info [pss]	No
show spanning-tree internal info l2gstp sdb	No
show spanning-tree internal info sps-pending	No
show spanning-tree internal info sps-q-stats	No
show spanning-tree internal info stp-lite [tree <tree-id>] stats	No
show spanning-tree internal info tree <tree-id> [all-ports interface <interface-id>]	No
show spanning-tree internal info vpc	No
show spanning-tree internal interactions	No
show spanning-tree internal mem-stats [detail]	No
show spanning-tree issu-impact	No
show spanning-tree mst [<mst-id>]	Yes
show spanning-tree mst [<mst-id>] detail	No
show spanning-tree mst [<mst-id>] interface <interface-id>	Yes
show spanning-tree mst [<mst-id>] interface <interface-id> detail	No
show spanning-tree summary totals	Yes

Show Commands	XML Support
show sprom { backplane <i0> module <module> <i1> xbar <santa-cruz-range> <i2> powersupply <i3> fan <i4> sup stby-sup all all2 backplane2	Yes
show ssh key [{ dsa rsa }]	Yes
show ssh server	Yes
show startup-config	No
"show startup-config ""tacacs+"" "	No
show startup-config { log mdp-log } [bootstrap]	No
show startup-config { switch-profile include-switch-profile }	No
show startup-config aaa	No
show startup-config aclog [all]	No
show startup-config aclmgr [all]	No
show startup-config adjmgr [all]	No
show startup-config arp [all]	No
show startup-config bfd [all]	No
show startup-config bgp [all]	No
show startup-config bloggerd [all]	No
show startup-config callhome	No
show startup-config cdp [all]	No
show startup-config cert-enroll	No
show startup-config cfs [all]	No
show startup-config config-profile [<all_conf_profile_name>]	No
show startup-config copp [all]	No
show startup-config dhcp [all]	No
show startup-config diagnostic [all]	No
show startup-config eem	No
show startup-config eltm	No
show startup-config exclude <feature-list>+	No
show startup-config expand-port-profile	No

Show Commands	XML Support
show startup-config fabric forwarding [all]	No
show startup-config glbp	No
show startup-config hsrp	No
show startup-config icmpv6 [all]	No
show startup-config igmp [all]	No
show startup-config interface [<if0>] [expand-port-profile]	No
show startup-config interface <if0> [membership] [expand-port-profile]	No
show startup-config ip [all]	No
show startup-config ipqos [all]	No
show startup-config ipv6 [all]	No
show startup-config l2pt [all]	No
show startup-config l3vm [all]	No
show startup-config license [all]	No
show startup-config mmode [all]	No
show startup-config monitor	No
show startup-config mpls strip [all]	No
show startup-config nat [all]	No
show startup-config ntp [all]	No
show startup-config nv overlay [all]	No
show startup-config ospf [all]	No
show startup-config param-list [<plistname>]	No
show startup-config pim [all]	No
show startup-config port-profile [<all_profile_name>]	No
show startup-config radius	No
show startup-config rip [all]	No
show startup-config routing { ip ipv4 } multicast [all]	No
show startup-config routing ipv6 multicast [all]	No
show startup-config rpm [all]	No

Show Commands	XML Support
show startup-config security	No
show startup-config sla responder	No
show startup-config sla sender	No
show startup-config snmp [all]	No
show startup-config track	No
show startup-config vdc [all]	No
show startup-config vdc-all	No
show startup-config virtual-service	No
show startup-config vlan	No
show startup-config vlan <vlan-id>	No
show startup-config vmtracker [all]	No
show startup-config vrf <vrf-cfg-name> [all]	No
show startup-config vrf default [all]	No
show startup-config vrrp	No
show startup-config vrrpv3 [all]	No
show startup-config vshd	No
show startup-config vtp [all]	No
show switch-profile	Yes
show switch-profile [<profile-name>] { session-history status commit }	Yes
show switch-profile [<profile-name>] buffer	Yes
show switch-profile [<profile-name>] peer [<dest-ip>] [details]	Yes
show switch-profile [<profile-name>] status	Yes
show switching-mode	Yes
show switching-mode fabric-speed	Yes
show system [internal] clis event-history { nvdb client errors parser ha cli objstr objstr-errors }	No
show system auto-collect tech-support	No
show system cores	Yes

Show Commands	XML Support
show system dme error-id <i0>	No
show system error-id { list <i0> }	Yes
show system exception-info	No
show system fabric-mode	Yes
show system fast-reload stabilization-timer	No
show system inband queuing statistics	Yes
show system inband queuing status	Yes
"show system internal ""tacacs+"" event-history errors "	No
"show system internal ""tacacs+"" event-history msgs "	No
"show system internal ""tacacs+"" mem-stats [detail] "	No
show system internal { keystore sksd } event-history errors	No
show system internal { keystore sksd } event-history messages	No
show system internal { keystore sksd } mkey detail	No
show system internal { sksd keystore } mem-stats [detail]	No
show system internal aaa event-history errors	No
show system internal aaa event-history msgs	No
show system internal aaa mem-stats [detail]	No
show system internal access-list acl-capture [module <module>]	No
show system internal access-list arp-ether [module <module>] [instance <instance_number>]	No
show system internal access-list copp rates [stage1 stage2] [module <module>] [{ instance <instance_number> { unit <unit> slice <slice> } }]	No
show system internal access-list copp static-acls	No
show system internal access-list copp stats [stage1 stage2] [module <module>] [{ instance <instance_number> { unit <unit> slice <slice> } }]	No
show system internal access-list fcoe [inst <inst>] { [match { did <dfcid> sid <sfcid> vlan <vnum> } [match-exact]] }	No
show system internal access-list feature bank map interface egress [module <module>]	No
show system internal access-list feature bank map interface ingress [module <module>]	No

Show Commands	XML Support
show system internal access-list feature bank map vlan egress [module <module>]	No
show system internal access-list feature bank map vlan ingress [module <module>]	No
show system internal access-list globals	No
show system internal access-list ipsg-stats [module <module>] [instance <instance_number>]	No
show system internal access-list status	Yes
show system internal access-list sup-redirect-stats [all] [module <module>] [{ instance <instance_number> { unit <unit> slice <slice> } }]	No
show system internal access-list tags	Yes
show system internal access-list tags	Yes
show system internal access-list team { ingress egress } { region <region> start-idx <start-idx> } [count <count>] [[{ instance <instance> {	No
show system internal access-list team flexkey [{ start-idx <start-idx> [count <count>] }] [[{ instance <instance> { unit <unit> slice <slice> }]	No
show system internal access-list team label	No
show system internal access-list vpc-convergence [module <module>] [instance <instance_number>]	No
show system internal aclmgr access-lists policies [<intf> vty]	Yes
show system internal aclmgr dictionaries [<dict_num>]	Yes
show system internal aclmgr event-history errors	No
show system internal aclmgr event-history locks	No
show system internal aclmgr event-history msgs	No
show system internal aclmgr event-history sessions	No
show system internal aclmgr log	Yes
show system internal aclmgr memstat [details]	No
show system internal aclmgr ppf { subscription sessions dsets nodes [all] control [all-sessions error-sessions modify-sessions request-	Yes
show system internal aclmgr ppf private-pss	Yes
show system internal aclmgr sessions	No
show system internal aclmgr state-cache	Yes

Show Commands	XML Support
show system internal aclmgr statistics buckets	Yes
show system internal aclmgr stats-files	No
show system internal aclmgr status	Yes
show system internal aclmgr time-range	Yes
show system internal aclmgr transition-history [name <s2>]	No
show system internal aclmgr vlan-cache { all all-vlans all-members vlans <vlans> members <intf> }	Yes
show system internal aclmgr vlan-membership { <vlans> state-cache } <req-type>	Yes
show system internal aclqos buffer-info [module <module>][{ instance <instance_number> { unit <unit> slice <slice> } }]	Yes
show system internal aclqos buffer-info [module <module>][{ instance <instance_number> { unit <unit> slice <slice> } }]	Yes
show system internal aclqos database { policy { subscriptions sessions instances nodes control } } [module <module>]	Yes
show system internal aclqos database { policy { subscriptions sessions instances nodes control } } [module <module>]	Yes
show system internal aclqos event-history <typeval> log-file	No
show system internal aclqos event-history association-manager	No
show system internal aclqos event-history cl-qos	No
show system internal aclqos event-history fab	No
show system internal aclqos event-history fc	No
show system internal aclqos event-history libdrv	No
show system internal aclqos event-history map	No
show system internal aclqos event-history merge	No
show system internal aclqos event-history msg	No
show system internal aclqos event-history pl	No
show system internal aclqos event-history ppf	No
show system internal aclqos event-history ppf-parse	No
show system internal aclqos event-history qng	No
show system internal aclqos event-history qng-hw	No

Show Commands	XML Support
show system internal aclqos event-history rl	No
show system internal aclqos event-history rm	No
show system internal aclqos event-history sch	No
show system internal aclqos event-history stats	No
show system internal aclqos event-history tbl	No
show system internal aclqos event-history trace	No
show system internal aclqos event-history trace-detail	No
show system internal aclqos event-history uf	No
show system internal aclqos fip { module <s0> module-list }	No
show system internal aclqos info dst	No
show system internal aclqos info fc	No
show system internal aclqos info fex [module <module>]	No
show system internal aclqos info l4-protocol	No
show system internal aclqos info label reservation	No
show system internal aclqos info label2sel label <label_id> inst <inst_id>	No
show system internal aclqos info linecard	No
show system internal aclqos info lous	No
show system internal aclqos info mac-etype-proto	No
show system internal aclqos info mcm [module <module>]	No
show system internal aclqos info pd [module <module>]	No
show system internal aclqos info pfc buffer-reservation [module <module>] [instance <instance>]	Yes
show system internal aclqos info pfc buffer-reservation [module <module>] [instance <instance>]	Yes
show system internal aclqos info pley	No
show system internal aclqos info pley-lbl-hash	No
show system internal aclqos info policy-rm	No
show system internal aclqos info port-channel database	No
show system internal aclqos info proc-cntx	No

Show Commands	XML Support
show system internal aclqos info pss	No
show system internal aclqos info redirect	No
show system internal aclqos info scheduler database	No
show system internal aclqos info snf-db	No
show system internal aclqos info spl database detail	No
show system internal aclqos info spl database summary	No
show system internal aclqos info spl verify-stats	No
show system internal aclqos info team	No
show system internal aclqos info tcp-flags	No
show system internal aclqos info tracelog	No
show system internal aclqos info vlan database	No
show system internal aclqos mem-stats [detail]	No
show system internal aclqos ns-stats [module <module>] [instance <instance_number>]	No
show system internal adjmgr { txlist ufdm-buffers adjacency-cache }	No
show system internal adjmgr cache { { brief detail } { interface [<intf>] } } [operational]	No
show system internal adjmgr client [index]	No
show system internal adjmgr event-history buffer-size { control errors ipc stats ha cli sdb snmp nb dme-event all }	No
show system internal adjmgr hmm statistics [detail]	No
show system internal adjmgr internal { mem-stats [shared all] [no-libs] [detail] }	No
show system internal adjmgr internal event-history { control errors msgs ipc events stats ha lcache lcache-errors cli sdb snmp nb	No
show system internal adjmgr internal info	No
show system internal adjmgr internal sdb	No
show system internal adjmgr library-info	No
show system internal adjmgr notify interval	No
show system internal aipc event-history errors	No
show system internal aipc event-history msgs	No

Show Commands	XML Support
show system internal ascii-cfg errors	No
show system internal ascii-cfg event-history	No
show system internal ascii-cfg mem-stats [detail]	No
show system internal ascii-cfg runtime info	No
show system internal ascii-cfg transit-table	Yes
show system internal bfd eng all	No
show system internal bfd event-history [session <hex_disc>]	No
show system internal bfd event-history all	No
show system internal bfd event-history errors	No
show system internal bfd event-history logs	No
show system internal bfd event-history msgs	No
show system internal bfd event-history session [dead]	No
show system internal bfd event-history session <hex_disc> <log_name>	No
show system internal bfd event-history session client <client_id>	No
show system internal bfd event-history session intf <intf_id>	No
show system internal bfd event-history session module <module_id>	No
show system internal bfd global	Yes
show system internal bfd memstat [details]	No
show system internal bfd module-cache	Yes
show system internal bfd sess-store [session <hex_disc>]	Yes
show system internal bfd sess-store client [<int_client>]	Yes
show system internal bfd sess-store interface [<intf>]	Yes
show system internal bfd sess-store ip-intf all	Yes
show system internal bfd sess-store module [<int_lc>]	Yes
show system internal bfd sess-store module2 [<int_lc>]	Yes
show system internal bfd sess-store neighbor { <neighbor_ip> <neighbor_ipv6> } [intf <intf_id>]	Yes
show system internal bfd status	Yes

Show Commands	XML Support
show system internal bfd transition-history [session <hex_disc>]	No
show system internal bfd transition-history client <client_id>	No
show system internal bfd transition-history dead	No
show system internal bfd transition-history intf <intf_id>	No
show system internal bfd transition-history module <module_id>	No
show system internal bfd-app log	Yes
show system internal bfd-app memstat [details]	No
show system internal bfd-app session { all <hex_disc> }	Yes
show system internal biosd messages [module <module>]	No
show system internal bloggerd event-history errors	No
show system internal bloggerd event-history events	No
show system internal bloggerd event-history movelog-errors	No
show system internal bloggerd event-history msgs	No
show system internal bloggerd info { global-info stats threads log-dump-info }	No
show system internal bloggerd mem-stats [detail]	No
show system internal bootvar log	No
show system internal buffers [{ [all <count>] [free <count>] }]	No
show system internal callhome event-history	No
show system internal callhome mem-stats [detail]	No
show system internal capability	No
show system internal capability event-history errors	No
show system internal capability event-history msgs	No
show system internal capability event-history stats	No
show system internal capability mem-stats [detail]	No
show system internal capability module <module> [{ dynamic [[type <i0>] [hex-dump]] static }]	No
show system internal cardclient cb	No
show system internal cardclient devrev	No

Show Commands	XML Support
show system internal cardclient get-vdc	No
show system internal cardclient lcsn	No
show system internal cardclient lcsn_cb	No
show system internal cardclient logs	No
show system internal cardclient memory	No
show system internal cardclient msgs	No
show system internal cert-enroll event-history errors	No
show system internal cert-enroll event-history msgs	No
show system internal cert-enroll mem-stats [detail]	No
show system internal clk_mgr { stop start } intra-chassis sync	No
show system internal clk_mgr event-history errors	No
show system internal clk_mgr event-history msgs	No
show system internal clk_mgr get clock samples	Yes
show system internal clk_mgr get reference-port-ts interface <if0>	No
show system internal clk_mgr info { all global }	No
show system internal clk_mgr info { sup_updates ptp_updates }	No
show system internal clk_mgr mem-stats [detail]	No
show system internal clk_mgr set lc-clocks interface <if0>	No
show system internal confcheck capability supported { active system1 <uri0> }	No
show system internal confcheck capability used	No
show system internal confcheck cards-supported [<uri0>]	No
show system internal confcheck event-history errors	No
show system internal confcheck event-history msgs	No
show system internal confcheck summary	No
show system internal config-profile applied-config database	Yes
show system internal config-profile config database	Yes
show system internal config-profile history [apply unapply refresh] [success failure]	No
show system internal copp [event-history] acl-fsm logs	No

Show Commands	XML Support
show system internal copp [event-history] bpp-debug-info	No
show system internal copp [event-history] errors	No
show system internal copp [event-history] logs	No
show system internal copp [event-history] msgs	No
show system internal copp info [detail]	No
show system internal copp mem-stats [detail]	No
show system internal copp ppf-database { policy { subscriptions sessions instances all } }	No
show system internal copp res-client database	No
show system internal copp shadow-policy { strict moderate lenient dense }	Yes
show system internal crdcfg apitest card <i0>	No
show system internal crdcfg apitest chassis	No
show system internal crdcfg apitest dev_ifidx <i0> slot <i1> port <i2>	No
show system internal crdcfg apitest device <i0>	No
show system internal crdcfg apitest device <i0> mod <i1>	No
show system internal crdcfg apitest role <i0> mod <i1>	No
show system internal crdcfg cards	No
show system internal crdcfg cards brief	No
show system internal crdcfg cb	No
show system internal crdcfg devid_slot devid <i0> slot <i1> <i2>	No
show system internal crdcfg events	No
show system internal crdcfg feature_slot featureid <i0> slot <i1>	No
show system internal crdcfg lcsn	No
show system internal crdcfg lcsn_cb	No
show system internal crdcfg logs	No
show system internal crdcfg memory	No
show system internal crdcfg msgs	No
show system internal crdcfg req	No

Show Commands	XML Support
show system internal csm info { global-db switch-profile [<sw-prof-name>] <db0> ssn-db <ssn-name> } <tbl0> [detail]	No
show system internal csm info issu-blocking-configs	No
show system internal csm info trace	No
show system internal csm info transport [detail]	No
show system internal dhclient database { policy { subscriptions sessions instances all } }	No
show system internal dhclient event-history errors	No
show system internal dhclient event-history msgs	No
show system internal dhclient mem-stats [detail]	No
show system internal dhclient status	No
show system internal dir tmp	No
show system internal dme { events faults }	No
show system internal dme { policyelem eventmgr confelem } mem-stats [detail]	No
show system internal dme { running-config startup-config applied-config hidden-config } [all] [dn <dn_string>]	No
show system internal dme meta-mode	No
show system internal dme objstore debugs sap <i0>	No
show system internal dme objstore errors sap <i0>	No
show system internal dme retries	No
show system internal dme rollbacks history	No
show system internal dme transactions { current pending }	No
show system internal dme transactions history	No
show system internal eltm [event-history] debugs	No
show system internal eltm [event-history] msgs	No
show system internal eltm error count	No
show system internal eltm event-history errors	No
show system internal eltm event-history interface <if_name>	Yes
show system internal eltm event-history pss	No

Show Commands	XML Support
show system internal eltm event-history trace	No
show system internal eltm event-history trace detail	No
show system internal eltm global info	Yes
show system internal eltm info [global]	No
show system internal eltm info interface { <if_name> brief summary all }	Yes
show system internal eltm info outer_bd	Yes
show system internal eltm info src_index [<value>] [detail]	Yes
show system internal eltm info vlan { <vlan_value> brief summary all }	Yes
show system internal eltm ipmc index info	No
show system internal eltm mem-stats [detail]	No
show system internal emon event-log	No
show system internal emon fsm-log { eobc epc }	No
show system internal emon stats	No
show system internal epld logging	No
show system internal ethdstats clear <if0>	No
show system internal ethdstats delta <if0>	No
show system internal ethdstats event-history errors	No
show system internal ethdstats event-history msgs	No
show system internal ethdstats mem-stats [detail]	No
show system internal ethdstats one <if0> offset <i0>	No
show system internal ethdstats snmpdelta <if0>	No
show system internal ethpm [event-history] errors	No
show system internal ethpm [event-history] lock	No
show system internal ethpm [event-history] msgs	No
show system internal ethpm event-history interface <if0> [last <i0>]	No
show system internal ethpm event-history loopback [last <i0>]	No
show system internal ethpm event-history module <module> [last <i1>]	No

Show Commands	XML Support
show system internal ethpm info [{ global interface <if0> dme-buffer vlan-ref-cnt all }]	No
show system internal ethpm mem-stats [detail]	No
show system internal fabric connectivity [module <module>]	No
show system internal feature-mgr event-history errors	No
show system internal feature-mgr event-history msgs	No
show system internal feature-mgr event-history objstr-errors	No
show system internal feature-mgr event-history objstr-events	No
show system internal feature-mgr feature <f> current status	No
show system internal feature-mgr feature action	No
show system internal feature-mgr feature state	No
show system internal feature-mgr feature-set state	No
show system internal flash	Yes
show system internal forwarding [{ vrf { <vrf-name> <vrf-known-name> vrf-all } }] adjacency [module <module> instance { <instance> all } entry	Yes
show system internal forwarding [{ vrf { <vrf-name> <vrf-known-name> vrf-all } }] ipv6 adjacency [module <module> instance { <instance> all }	Yes
show system internal forwarding [{ vrf { <vrf-name> <vrf-known-name> vrf-all } }] { table <table-id> } [ip ipv4] multicast route [[instance {	Yes
show system internal forwarding [{ vrf { <vrf-name> <vrf-known-name> vrf-all } }] { table <table-id> } [ip ipv4] route [max-display-count <dis	Yes
show system internal forwarding [{ vrf { <vrf-name> <vrf-known-name> vrf-all } }] { table <table-id> }] ipv6 multicast route [module <module> ins	Yes
show system internal forwarding [{ vrf { <vrf-name> <vrf-known-name> vrf-all } }] { table <table-id> }] ipv6 route [max-display-count <display_coun	Yes
show system internal forwarding [ip ipv4] route summary [module <module>] [instance <instance>]	Yes
show system internal forwarding adjacency multicast { group <igroup> [[vrf <ivrfname>]] [[source <isrc> [vrf <ivrfname>]]]] entry <iipmcgrp_i	Yes
show system internal forwarding distribution multicast destination-index [<index>]	Yes
show system internal forwarding distribution multicast outgoing-interface-list { L2 L3 } [<index>]	Yes

Show Commands	XML Support
show system internal forwarding distribution replicator-db	Yes
show system internal forwarding distribution trace pd-config	No
show system internal forwarding distribution trace pd-config bitmask	No
show system internal forwarding distribution trace pd-history	No
show system internal forwarding distribution trace pd-history bitmask	No
show system internal forwarding interface [<tunnelnum>]	No
show system internal forwarding ipv6 route summary [module <module>] [instance <instance>]	Yes
show system internal forwarding ipv6 table <table-id> summary [module <module>]	Yes
show system internal forwarding l2 multicast { [pending-hwinstall] [{ vlan <vlan-id> { [group <grpaddr> [source <srcaddr>]] [destination-ma	Yes
show system internal forwarding table <table-id> summary [module <module>]	Yes
show system internal forwarding unicast counters	Yes
show system internal frame traffic	No
show system internal fs-daemon device-info	No
show system internal fs-daemon event-history errors	No
show system internal fs-daemon event-history msgs	No
show system internal fs-daemon fsdetails	No
show system internal fs-daemon log	No
show system internal fs-daemon mount-unmount-history	No
show system internal fu-errors sap <i0>	No
show system internal fu-state sap <i0>	No
show system internal gpixm errors	No
show system internal gpixm event-history { tcb <rid> last_txns last_errors all detail }	No
show system internal gpixm event-history msgs	No
show system internal gpixm info [{ global-info ltl-type { mcast-grp span md phy port-channel sat-port fc-pc e8 inband rpc gpc	No
show system internal gpixm mem-stats [detail]	No
show system internal icmpv6 { library-info fastboot-cache }	No

Show Commands	XML Support
show system internal icmpv6 buffers [{ [all <count>] [free <count>] }]	No
show system internal icmpv6 cache { { brief detail } { interface [<intf>] } } [operational]	No
show system internal icmpv6 client [<client-name>]	No
show system internal icmpv6 internal { mem-stats [shared all] [no-libs] [detail] }	No
show system internal icmpv6 internal info	No
show system internal im [event-history] errors	No
show system internal im [event-history] lock	No
show system internal im [event-history] msgs	No
show system internal im [event-history] trace	No
show system internal im event-history interface <if0> [last <i0>]	No
show system internal im event-history module <module> [last <module>]	No
show system internal im event-history vdc <e-vdc> [last <e-vdc>]	No
show system internal im info [{ global module <module> vdc <e-vdc> interface <if0> }]	No
show system internal im mem-stats [detail]	No
show system internal im-errors sap <i0>	No
show system internal interface <ii-intf-name> counters	No
show system internal interface counters detail module <module>	No
show system internal interface counters module <module> [nz]	No
show system internal interface counters peak module <module> [nz]	No
show system internal ip igmp snooping { [summary-list] [pending-hwinstall] [[vdc <vdc-id>] [vlan <vlan-id> [group <grpaddr> [source <src>	Yes
show system internal ip igmp snooping swindex { <swidx> swindex-tbl }	Yes
show system internal ipconf internal [event-history] errors	No
show system internal ipconf internal [event-history] msgs	No
show system internal ipfib [event-history] errors	No
show system internal ipfib [event-history] msgs	No
show system internal ipfib mem-stats [detail]	No

Show Commands	XML Support
show system internal ipqos class-map [type <qos-or-q>] [<cmap-name>]	Yes
show system internal ipqos class-map type network-qos [<cmap-name-nq>]	Yes
show system internal ipqos dcbxp context { all interface <iface-num> }	No
show system internal ipqos dcbxp fsm interface <iface-num>	No
show system internal ipqos event-history config session <ses_id>	No
show system internal ipqos event-history config session all	No
show system internal ipqos event-history distribution	No
show system internal ipqos event-history errors	No
show system internal ipqos event-history interface <if0>	No
show system internal ipqos event-history interface all	No
show system internal ipqos event-history locks	No
show system internal ipqos event-history msgs	No
show system internal ipqos event-history mts-msgs	No
show system internal ipqos event-history sessions	No
show system internal ipqos global-defaults	No
show system internal ipqos info [global]	No
show system internal ipqos locks	No
show system internal ipqos log	No
show system internal ipqos mem-stats [detail]	No
show system internal ipqos msg-log	No
show system internal ipqos policy-map [type <qos-or-q>] [<pmap-name>]	Yes
show system internal ipqos policy-map statistics { interface [<iface-list>] [input output] [type <qos-or-q>] vlan [<vlan-list>] [inputx	No
show system internal ipqos policy-map type network-qos [<pmap-name-nq>]	Yes
show system internal ipqos port-node [<if-index>]	Yes
show system internal ipqos ppf { control [all-sessions error-sessions modify-sessions request-sessions subscription] }	No
show system internal ipqos ppf nodeid <id>	No
show system internal ipqos ppf-lib	No

Show Commands	XML Support
show system internal ipqos session	No
show system internal ipqos session context [<sname>]	No
show system internal ipqos shared-policer [<policer-name>]	No
show system internal ipqos snmp cmap [<cmap-index-in>]	Yes
show system internal ipqos snmp cmap-stats [{ [<policy-index-in>] [<obj-index-in>] }]	Yes
show system internal ipqos snmp interface-table [{ [<if-index-in>] [<inp-or-out-in>] }]	Yes
show system internal ipqos snmp match [<match-index-in>]	Yes
show system internal ipqos snmp match-stats [{ [<policy-index-in>] [<obj-index-in>] }]	Yes
show system internal ipqos snmp object-table [{ [<policy-index-in>] [<obj-index-in>] }]	Yes
show system internal ipqos snmp pmap [<pmap-index-in>]	Yes
show system internal ipqos snmp police-action [<police-index-in>]	Yes
show system internal ipqos snmp police-stats [{ [<policy-index-in>] [<obj-index-in>] }]	Yes
show system internal ipqos snmp queuing [<que-index-in>]	Yes
show system internal ipqos snmp queuing-stats [{ [<policy-index-in>] [<obj-index-in>] }]	Yes
show system internal ipqos snmp random-detect [<red-index-in>]	Yes
show system internal ipqos snmp service-policy [<policy-index-in> <if-index>]	Yes
show system internal ipqos snmp set-action [<set-index-in>]	Yes
show system internal ipqos snmp shape [<tsc-index-in>]	Yes
show system internal ipqos snmp shape-stats [{ [<policy-index-in>] [<obj-index-in>] }]	Yes
show system internal ipqos snmp tmap [<tmap-index-in>]	Yes
show system internal ipqos snmp tmap-set-action [<tmap-set-index-in>]	Yes
show system internal ipqos snmp tmap-value [{ [<tmap-index-in>] [<tmap-value-in>] }]	Yes
show system internal ipqos snmp wredclass [{ [<redclass-index-in>] [<red-value-in>] }]	Yes

Show Commands	XML Support
show system internal ipqos statistics bucket [<bucket_index>]	No
show system internal ipqos status	Yes
show system internal ipqos system defaults [factory-settings]	Yes
show system internal ipqos system-node	Yes
show system internal ipqos table-map [<tmap-name>]	No
show system internal ipqos usr-ses fsm { all ssn-id <id> }	No
show system internal ipqos vlan-tbl <vlan-range>	Yes
show system internal ipqos vlmgr fsm { global ssn-id <id> }	No
show system internal ipqos vlmgr info	Yes
show system internal kernel aipc	No
show system internal kernel aipc-mcast	No
show system internal kernel cpuhogmon	No
show system internal kernel cpuinfo	No
show system internal kernel ide-statistics	No
show system internal kernel internal preempt-stats	No
show system internal kernel malloc-stats [detail]	No
show system internal kernel meminfo	No
show system internal kernel memory all	No
show system internal kernel memory global [detail]	No
show system internal kernel memory libdep <s0>	No
show system internal kernel memory service <s0>	No
show system internal kernel memory usage	No
show system internal kernel memory uuid <i0>	No
show system internal kernel messages	No
show system internal kernel nvram-messages [<s0>]	No
show system internal kernel skb-stats [detail]	No
show system internal kernel trace	No
show system internal kernel vmalloc-info	No

Show Commands	XML Support
show system internal keychain state	No
show system internal l2fm [event-history] debugs	No
show system internal l2fm [event-history] errors	No
show system internal l2fm [event-history] mac-sdb	No
show system internal l2fm [event-history] msgs	No
show system internal l2fm info { summary detail [vlan <vlan>] target-list agedb [vlan_id <vlan-id>] [interface <interface-name1>] pcdB [int	Yes
show system internal l2fm info rvtepdb	No
show system internal l2fm info sdbinfo	No
show system internal l2fm info stagedb [vlan <vlan-id> peer-ip <peer-ipv4>]	No
show system internal l2fm info vrmac-cache	No
show system internal l2fm l2dbg config { macdb portdb rvtepdb }	No
show system internal l2fm l2dbg config macdb address <mac-add> vlan <vid>	No
show system internal l2fm l2dbg config portdb ifindex <ifidx> vlan <vid>	No
show system internal l2fm l2dbg macdb [address <mac-addr>] [vlan <id>]	No
show system internal l2fm l2dbg portdb [ifindex <index>] [vlan <id>]	No
show system internal l2fm l2dbg rvtepdb [peerid <peer_id>] [peerip <peerip>] [remote <vpc_peerid>]	No
show system internal l2fm mem-stats [detail]	No
show system internal l2fm ppf { policy { subscriptions sessions instances nodes control } }	No
show system internal l2fwder acl	No
show system internal l2fwder bd	No
show system internal l2fwder buffers [{ [all <count>] [free <count>] }]	No
show system internal l2fwder cache { { brief detail } { interface [<intf>] } } [operational]	No
show system internal l2fwder event-history { errors msgs events fdb ha }	No
show system internal l2fwder mac	No
show system internal l2fwder mem-stats [no-libs] [detail]	No

Show Commands	XML Support
show system internal l2fwder plugins	No
show system internal l2fwder vacl	No
show system internal l2mcast info global [module <num>]	No
show system internal l2mcast info statistics [module <num>]	Yes
show system internal l2mcast platform statistics [module <num>]	Yes
show system internal l2pt event-history errors	No
show system internal l2pt event-history events	No
show system internal l2pt event-history messages	No
show system internal l2pt mem-stats [detail]	No
show system internal l2pt port-state [vlan <vlan-id>]	Yes
show system internal l2rib event-history { errors topology tx-infra client-table mac rmac mac-ip ead-pl misc-obj client-events [<cli	No
show system internal l3vm	No
show system internal l3vm event-history { pss errors mts reinit msgs cli vrf topology ksink }	No
show system internal l3vm library-info	No
show system internal l3vm mem-stats [detail]	No
show system internal l3vm pss [running-config-pss startup-config-pss]	No
show system internal l3vm sdb { vrf topology interface tables as-format }	No
show system internal l3vm snmp { vrf [detail] interface scalars }	No
show system internal lcmd event-history errors	No
show system internal lcmd event-history trace	No
show system internal license event-history	No
show system internal license event-history error	No
show system internal license mem-stats [detail]	No
show system internal lim [event-history] debugs	No
show system internal lim [event-history] errors	No
show system internal lim [event-history] lock	No
show system internal lim [event-history] msgs	No

Show Commands	XML Support
show system internal lim [event-history] traces	No
show system internal lim counters [{ timeline interface <i0> }]	No
show system internal lim event-history interface <if0> [last <i0>]	No
show system internal lim event-history pseudowire [last <i0>]	No
show system internal lim event-history vfi [last <i0>]	No
show system internal lim event-history vni [last <i0>]	No
show system internal lim info [{ global interface <if0> all }]	No
show system internal lim mem-stats [detail]	No
show system internal loader configuration	No
show system internal log boot kickstart	No
show system internal log boot system1	No
show system internal log install	No
show system internal log install details	No
show system internal log install history	No
show system internal log install issu-failure-reason	No
show system internal log install-module	No
show system internal log issu-helper	No
show system internal log issu-lxc	No
show system internal log issu-lxc lc	No
show system internal log issu-lxc lc history	No
show system internal log issu-lxc sup	No
show system internal log issu-lxc sup history	No
show system internal log issu-lxc vmm	No
show system internal log issu-lxc vmm history	No
show system internal log patch-installer	No
show system internal log sysmgr cfgctrl	No
show system internal log sysmgr failed-standby	No
show system internal log sysmgr gsyncctrl	No

Show Commands	XML Support
show system internal log sysmgr infra-convert	No
show system internal log sysmgr patchctrl	No
show system internal log sysmgr rtbctrl	No
show system internal log sysmgr show-tech-ha-failed-standby	No
show system internal log sysmgr standby-sup-reset	No
show system internal log sysmgr sup-reset	No
show system internal log sysmgr vdc { <e-vdc2> <vdc-id> } cfgctrl	No
show system internal log sysmgr vdc { <e-vdc2> <vdc-id> } failed-standby	No
show system internal log sysmgr vdc { <e-vdc2> <vdc-id> } standby-sup-reset	No
show system internal log sysmgr vdc { <e-vdc2> <vdc-id> } sup-reset	No
show system internal log sysmgr verctrl	No
show system internal log sysmgr warm-swover	No
show system internal m2rib ftag [<ftag-id>]	Yes
show system internal m2rib internal [event-history] debugs	No
show system internal m2rib internal [event-history] errors	No
show system internal m2rib internal [event-history] msgs	No
show system internal m2rib internal event-history [brief]	No
show system internal m2rib internal mem-stats [detail]	No
show system internal m2rib topo [<topo-id>]	Yes
show system internal m2rib transactions announced	No
show system internal m2rib transactions eltm [errors-only]	No
show system internal m2rib transactions mfdm [errors-only]	No
show system internal m2rib transactions open	No
show system internal m2rib transactions pixm [errors-only]	No
show system internal m2rib transactions received [errors-only]	No
show system internal m2rib transactions u2rib [errors-only]	No
show system internal m2rib vlan [<vlan-id>]	Yes
show system internal memory-alerts-log	No

Show Commands	XML Support
show system internal memory-status	No
show system internal memory-usage-per-module [in-KB]	No
show system internal mfdm [event-history] debugs	No
show system internal mfdm [event-history] errors	No
show system internal mfdm [event-history] msgs	No
show system internal mfdm info [global]	No
show system internal mfdm info oiflist delayed-free-queue [summary]	Yes
show system internal mfdm info statistics	Yes
show system internal mfdm info statistics clear	No
show system internal mfdm mem-stats [detail]	No
show system internal mfwd	No
show system internal mfwd { library-info iod-cache }	No
show system internal mfwd debug	No
show system internal mfwd errors	No
show system internal mfwd event-history { errors msgs <mfwd-event-hist-buf-name> statistics }	No
show system internal mfwd interface [vrf { <vrf-name> <vrf-known-name> all }]	No
show system internal mfwd ip { mrib-txlist [vrf { <vrf-name> <vrf-known-name> all }] mrib-buffers }	No
show system internal mfwd ip mroute [vrf { <vrf-name> <vrf-known-name> all }]	No
show system internal mfwd ip vrf all [detail]	No
show system internal mfwd l2 mac [detail] [vlan <vlan-id>]	No
show system internal mfwd l2 mapping vlan <vlan-id> { source <source> mac <source-mac> }	No
show system internal mfwd l2 mroute [vlan <vlan-id>] [detail]	No
show system internal mfwd l2 mroute { txlist [vlan <vlan-id>] buffers }	No
show system internal mfwd l2 vlan brief	No
show system internal mfwd mem-stats [shared all] [no-libs] [detail]	No
show system internal mfwd mroute status	No

Show Commands	XML Support
show system internal mfwf pim-cache [vrf { <vrf-name> <vrf-known-name> all }]	No
show system internal mmode event-history errors	No
show system internal mmode event-history msgs	No
show system internal mmode logfile	No
show system internal mmode mem-stats [detail]	No
show system internal modlock-info	No
show system internal mplsfwd event-history { errors msgs ipc ha log }	No
show system internal mplsfwd info	No
show system internal mplsfwd mem-stats [no-libs] [detail]	No
show system internal mts appcode <i0> opcodes	No
show system internal mts buffers	No
show system internal mts buffers age <i0>	No
show system internal mts buffers details	No
show system internal mts buffers node <s0>	No
show system internal mts buffers order	No
show system internal mts buffers print <mtsbuf_offset> [size <size>]	No
show system internal mts buffers sap <i0>	No
show system internal mts buffers summary	Yes
show system internal mts event-history errors	No
show system internal mts event-history msgs	No
show system internal mts ha active_stats	No
show system internal mts ha gsync_state	No
show system internal mts ha sequence-numbers	No
show system internal mts ha standby_stats	No
show system internal mts ha sync_mode	No
show system internal mts lc apps	No
show system internal mts lc basket { content stats }	No
show system internal mts lc registry { log persistent register }	No

Show Commands	XML Support
show system internal mts lc sap <i0> { description lqueue nq options pid pqueue queue queue_stats rcount registry stats uuid }	No
show system internal mts lc state { current history }	No
show system internal mts lc trace	No
show system internal mts memory	No
show system internal mts node <s0> apps	No
show system internal mts node <s0> basket { content stats }	No
show system internal mts node <s0> registry { log persistent register }	No
show system internal mts node <s0> sap <i0> { description lqueue nq options pid pqueue queue queue_stats rcount registry stats uuid }	No
show system internal mts node <s0> state { current history }	No
show system internal mts node <s0> trace	No
show system internal mts opcodes	No
show system internal mts sup apps	No
show system internal mts sup basket { content stats }	No
show system internal mts sup registry { log persistent register }	No
show system internal mts sup sap <i0> { description lqueue nq options pid pqueue queue queue_stats rcount registry stats uuid }	No
show system internal mts sup state { current history }	No
show system internal mts sup trace	No
show system internal npacl [ppf [acl [<acl-name> all]]]	No
show system internal npacl event-history [acl ppf cli all]	No
show system internal npacl event-history buffer-size { acl ppf cli internal all }	No
show system internal npacl mem-stats { [shared all] [no-libs] [detail] }	No
show system internal orib { event-history { errors msgs <orib-event-hist-buf-name> statistics } shared-database pss performance platform	No
show system internal orib cleanup	No
show system internal orib clients	No
show system internal orib convergence	No

Show Commands	XML Support
show system internal orib errors	No
show system internal orib ha	No
show system internal orib mroute vlan <vlan-id> source <saddr> group <gaddr>	No
show system internal orib vlan	No
show system internal patch-installer event-history errors	No
show system internal patch-installer event-history msgs	No
show system internal patch-installer event-history plugin-trace	No
show system internal patch-installer event-history trace	No
show system internal patch-installer ha-info	No
show system internal pfind internal event-history errors	No
show system internal pfind internal event-history msgs	No
show system internal pfstat [event-history] debugs	No
show system internal pfstat [event-history] errors	No
show system internal pfstat [event-history] msgs	No
show system internal pfstat [event-history] vsan <i0>	No
show system internal pfstat clear counters	No
show system internal pfstat counters	Yes
show system internal pfstat event-history sysev	No
show system internal pfstat info [{ global vsan <i0> }]	No
show system internal pfstat info interface if_name	No
show system internal pfstat info sw global	Yes
show system internal pfstat mem-stats [detail]	No
show system internal pixm errors	No
show system internal pixm event-history { tcb <rid> last_txns last_errors all detail }	No
show system internal pixm event-history msgs	No
show system internal pixm info [{ global-info ltl-type { bd [detail] mcast-grp span md phy port-channel sat-port fc-pc e8 inban	No
show system internal pixm mem-stats [detail]	No

Show Commands	XML Support
show system internal pktmgr cache { { { brief detail } { interface [<intf>] } { vlan [<vl>] } { pc [<pc-intf>] } { sub-intf [<parent-intf>] }	No
show system internal pktmgr client { [<uuid>] { filter } } { [brief] [detail] }	No
show system internal pktmgr debug	No
show system internal pktmgr fp-topo-cache	No
show system internal pktmgr frame-pps-history { inband mgmt titan }	No
show system internal pktmgr interface { { { brief } [<interface>] [iod <iod>] } } [operational] [cache] }	No
show system internal pktmgr internal { mem-stats [detail] vdc { global-stats inband [{ <intf> detail] } mgmt [<ip-addr>] mgmt-vdc [<vdc-id>] }	No
show system internal pktmgr internal event-history { errors msgs control log ha pkt-errors pkt-buffer lcache-err lcache-trace cli }	No
show system internal pktmgr internal event-history buffer-size { errors control log ha pkt-errors pkt-buffer all }	No
show system internal pktmgr libanycast-info { { all vlan <vlan_id> } { ipv4 ipv6 } }	No
show system internal pktmgr library-info	No
show system internal pktmgr stats [brief]	No
show system internal platform all	No
show system internal platform internal1 [event-history] errors	No
show system internal platform internal1 [event-history] msgs	No
show system internal platform internal1 all [module <module> xbar <santa-cruz-range>]	No
show system internal platform internal1 event-history module <module>	No
show system internal platform internal1 event-history stats	No
show system internal platform internal1 event-history xbar <santa-cruz-range>	No
show system internal platform internal1 info	No
show system internal platform internal1 mem-stats [detail]	No
show system internal platform internal1 sw info	No
show system internal platform internal1 xcvr-cache	No
show system internal plcmgr dictionary [<dict_type>]	No
show system internal plcmgr dictionary policy-targets { pname <pmap-name> }	No

Show Commands	XML Support
show system internal plcmgr event-history cfg-fsm	No
show system internal plcmgr event-history debugs [detail]	No
show system internal plcmgr event-history errors	No
show system internal plcmgr event-history msgs	No
show system internal plcmgr mem-stats [detail]	No
show system internal plcmgr msg-log [errors]	No
show system internal plcmgr pixmdb	No
show system internal plcmgr plan [last errored first-errored]	No
show system internal plcmgr ppf [<application>] { interface <ifnum> [brief] all <nodeid> }	No
show system internal plcmgr ppf { info { subscriptions sessions instances all } }	No
show system internal plcmgr ppf nodeid <id>	No
show system internal pltfm_config [event-history] debugs	No
show system internal pltfm_config [event-history] errors	No
show system internal pltfm_config [event-history] msgs	No
show system internal pltfm_config [event-history] vsan <i0>	No
show system internal pltfm_config acl-capture	No
show system internal pltfm_config info [{ global vsan <i0> }]	No
show system internal pltfm_config info all	No
show system internal pltfm_config mem-stats [detail]	No
show system internal plugin event-history errors	No
show system internal plugin event-history fsm { load [vdc <i0>] unload [vdc <i1>] }	No
show system internal plugin event-history msgs	No
show system internal plugin info [global]	No
show system internal plugin mem-stats [detail]	No
show system internal policyelem objstore dump-logs	No
show system internal port-client control-cmds	No
show system internal port-client event-history all	No

Show Commands	XML Support
show system internal port-client event-history errors	No
show system internal port-client event-history gold <i0>	No
show system internal port-client event-history gold all	No
show system internal port-client event-history gold hw_port <i0>	No
show system internal port-client event-history gold hw_port all	No
show system internal port-client event-history hw-port <i0>	No
show system internal port-client event-history hw-port all	No
show system internal port-client event-history info	No
show system internal port-client event-history msgs	No
show system internal port-client event-history port <i0>	No
show system internal port-client event-history port all	No
show system internal port-client info	No
show system internal port-client info eth-hw-port <i0>	No
show system internal port-client info eth-port <i0>	No
show system internal port-client info global	No
show system internal port-client info inb-hw-port <i0>	No
show system internal port-client info inb-port <i0>	No
show system internal port-client link-event	No
show system internal port-client log-level	No
show system internal port-client mem-stats [detail]	No
show system internal port-client timestamp-control	No
show system internal port-client timestamp-update	No
show system internal port-profile [event-history] errors	No
show system internal port-profile [event-history] msgs	No
show system internal port-profile command-cache	Yes
show system internal port-profile event-queue	Yes
show system internal port-profile interface database	Yes
show system internal port-profile interface-fsm	No

Show Commands	XML Support
show system internal port-profile mem-stats [detail]	No
show system internal port-profile profile-fsm	No
show system internal processes cpu	No
show system internal processes cpu <i0>	No
show system internal processes memory	No
show system internal pss dump <s0>	No
show system internal pss event-history sap <i0>	No
show system internal pss files	No
show system internal pss flatfile trace <s0>	No
show system internal pss kernel list	No
show system internal pss kernel memstats	No
show system internal pss kernel timestats [clear]	No
show system internal psshelper { modules gsdb pending }	No
show system internal psshelper event-history errors	No
show system internal psshelper event-history msgs	No
show system internal psshelper global-svc { modules gsdb pending }	No
show system internal psshelper global-svc event-history errors	No
show system internal psshelper global-svc gsdb-requests	No
show system internal psshelper global-svc mem-track-stats [detail]	No
show system internal psshelper global-svc vmm-msgs	No
show system internal psshelper gsdb-requests	No
show system internal psshelper mem-track-stats [detail]	No
show system internal psshelper vmm-msgs	No
show system internal qos [vdc-id <vdc_id>] [interface <if_name> vlan <vlan_id> copp] [{ input output }] [config entries] [module <num>	Yes
show system internal qos [vdc-id <vdc_id>] [interface <if_name> vlan <vlan_id> copp] [{ input output }] [config entries] [module <num>	Yes
show system internal qos default-tables [{ { ingress_prec_mutation ingress_dscp_mutation ingress_cos_mutation } [table <table_id>] }] markdown	No

Show Commands	XML Support
show system internal qos network-qos { hw-config stats } [module <num>]	No
show system internal qos policer { config [{ aggr dist prof } [index <index>]] stats master global [counters] } [module <num>]	No
show system internal qos queuing { config [interface <if_name>] stats interface <if_name> locks [clear] }	No
show system internal qos rate limiter { config [{ pc l2 l3 } [index <index>]] global } [module <num>]	No
show system internal qos resource utilization [no-header] [module <num>]	No
show system internal radius event-history errors	No
show system internal radius event-history msgs	No
show system internal radius mem-stats [detail]	No
show system internal redundancy event-history	No
show system internal redundancy status	No
"show system internal rpm as-path-access-list [""<aspl-name>"" <aspl-known-name>] "	No
show system internal rpm clients	No
show system internal rpm community-list [<pname>]	No
show system internal rpm event-history { errors msgs trace events rsw }	No
show system internal rpm extcommunity-list [<pname>]	No
"show system internal rpm ip-prefix-list [""<ipv4-pfl-name>"" <ipv4-pfl-known-name>] "	No
"show system internal rpm ipv6-prefix-list [""<ipv6-pfl-name>"" <ipv6-pfl-known-name>] "	No
show system internal rpm library-info	No
show system internal rpm mac-list [<pname>]	No
show system internal rpm mem-stats [shared all] [detail]	No
show system internal rpm ppf	No
"show system internal rpm route-map [""<route-map-name>"" <route-map-known-name>] [ppf] "	No
show system internal rpm state	No
show system internal rwsem { sap summary sap <sap> sap raw client summary client <uuid> client raw }	No

Show Commands	XML Support
show system internal sal [event-history] errors	No
show system internal sal [event-history] msgs	No
show system internal sal debugs	No
show system internal sal info database vlan [<vlan-id> brief]	No
show system internal sal info database vrf [<vrf-name> brief]	No
show system internal sal info global	No
show system internal sal mem-stats [uuid <i0>] [sal-only] [detail]	No
show system internal sctptun all	No
show system internal sctptun conn-stat [<fex>]	No
show system internal sctptun drv-info	No
show system internal sctptun event-history	No
show system internal sctptun proc-stats	No
show system internal sctptun sctp-associations	No
show system internal sctptun sctp-statistics	No
show system internal sdwrap buffers [sap <sap-num>]	No
show system internal sdwrap buffers [sap <sap-num>] detailed	No
show system internal sdwrap errors sap <i0>	No
show system internal security accelerator-test <i0>	No
show system internal security event-history errors	No
show system internal security event-history msgs	No
show system internal security mem-stats [detail]	No
show system internal session-mgr applications	No
show system internal session-mgr event-history errors	No
show system internal session-mgr event-history logs	No
show system internal session-mgr event-history msgs	No
show system internal session-mgr global info show system internal csm global info	No
show system internal session-mgr global info show system internal csm global info	No
show system internal session-mgr info [name <s1>]	No

Show Commands	XML Support
show system internal session-mgr mem-stats [detail]	No
show system internal session-mgr timeouts	No
show system internal session-mgr transition-history [name <s2>]	No
show system internal smm event-history { errors msgs <smm-event-hist-buf-name> statistics }	No
show system internal smm mem-stats shared [detail]	No
show system internal smm pss-dump	No
show system internal smm regions { free allocated all }	No
show system internal snmp event-history msgs	No
show system internal snmp event-history pktdump	No
show system internal snmp mem-stats [detail]	No
show system internal snmp switch-mode	Yes
show system internal spm dictionary [<application>]	No
show system internal spm event-history cfg-fsm	No
show system internal spm event-history debugs [detail]	No
show system internal spm event-history errors	No
show system internal spm event-history msgs	No
show system internal spm info [<application>]	No
show system internal spm mem-stats [detail]	No
show system internal spm msg-log [errors]	No
show system internal spm plan [last errored first-errored]	No
show system internal spm ppf [<application>] { interface <ifnum> [brief] all <nodeid> }	No
show system internal spm ppf { info { subscriptions sessions instances all } }	No
show system internal sse all-srv-ids	No
show system internal sse case	No
show system internal sse list	No
show system internal sse loop	No
show system internal sse stub	No

Show Commands	XML Support
show system internal statsclient [event-history] msgs	No
show system internal statsclient cb	No
show system internal statsclient errpoll	No
show system internal statsclient event-history errors	No
show system internal statsclient event-history trace	No
show system internal statsclient logs	No
show system internal statsclient memory	No
show system internal statsclient pc_clr <i0> port <i1>	No
show system internal statsclient pc_get <i0> port <i1>	No
show system internal statsclient pc_mod <i0>	No
show system internal statsclient pcl_cb	No
show system internal statsclient pktflow async <i0> port <i1> <i2>	No
show system internal statsclient pktflow sync <i0> port <i1>	No
show system internal statsclient qos <i0> port <i1> devid <i2>	No
show system internal statsclient roles	No
show system internal statsclient scanpoll	No
show system internal stripcl event-history errors	No
show system internal stripcl event-history events	No
show system internal stripcl event-history messages	No
show system internal stripcl mem-stats [detail]	No
show system internal sysmgr bootupstats	No
show system internal sysmgr event-history errors	No
show system internal sysmgr event-history msgs	No
show system internal sysmgr gsync-pending	No
show system internal sysmgr gsyncstats	No
show system internal sysmgr nvram-data	No
show system internal sysmgr service all	No
show system internal sysmgr service all details	No

Show Commands	XML Support
show system internal sysmgr service dependency all_services	No
show system internal sysmgr service dependency srvname <s0>	No
show system internal sysmgr service local	No
show system internal sysmgr service local details	No
show system internal sysmgr service name <s0>	No
show system internal sysmgr service name <s0> policies	No
show system internal sysmgr service name <s0> seqnotbl	No
show system internal sysmgr service name <s0> tag <s1>	No
show system internal sysmgr service not-running	No
show system internal sysmgr service not-running details	No
show system internal sysmgr service pid <i0>	No
show system internal sysmgr service pid <i0> config	No
show system internal sysmgr service pid <i0> log	No
show system internal sysmgr service running	No
show system internal sysmgr service running details	No
show system internal sysmgr service uuid <i0>	No
show system internal sysmgr service uuid <i0> config	No
show system internal sysmgr service uuid <i0> dependencies	No
show system internal sysmgr startup-config locks	No
show system internal sysmgr startup-config state	No
show system internal sysmgr state	No
show system internal sysmgr swoverstats	No
show system internal sysmgr time	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } bootupstats	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } gsyncstats	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service all	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service all details	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service local	No

Show Commands	XML Support
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service local details	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service name <s0>	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service name <s0> policies	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service name <s0> seqnotbl	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service name <s0> tag <s1>	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service not-running	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service not-running details	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service pid <i1>	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service pid <i1> config	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service pid <i1> log	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service running	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service running details	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service uuid <i1>	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } service uuid <i1> config	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } state	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } swoverstats	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } time	No
show system internal sysmgr vdc { <e-vdc2> <vdc-id> } verifystats	No
show system internal sysmgr verifystats	No
show system internal ttyd line console	No
show system internal u2 errors	No
show system internal u2 mem-stats [detail]	No
show system internal ufdm [event-history] debugs	No
show system internal ufdm [event-history] errors	No
show system internal ufdm [event-history] msgcs	No
show system internal ufdm info [{ global vsan <i0> }]	No
show system internal ufdm mem-stats [detail]	No
show system internal urifs	No

Show Commands	XML Support
show system internal usd errors	No
show system internal usd isr	No
show system internal usd mts	No
show system internal usd timeslice	No
show system internal usd wd	No
show system internal utaker	No
show system internal veobc [{ global pi proto stats }]	No
show system internal veobc event-history	No
show system internal virtual-service event-history debug	No
show system internal virtual-service utilization statistics CPU	No
show system internal vmm [event-history] errors	No
show system internal vmm [event-history] module <module>	No
show system internal vmm [event-history] msgs	No
show system internal vmm activity module <module>	No
show system internal vmm all [fex]	No
show system internal vmm info [global]	No
show system internal vmm mem-stats [detail]	No
show system internal vpcm info mask [module <mod> [source-interface <ch-id>]]	No
show system internal vshd config-info	No
show system internal vshd event-history	No
show system internal xbar all	No
show system internal xbar event-history	No
show system internal xbar event-history errors	No
show system internal xbar event-history info	No
show system internal xbar event-history lock	No
show system internal xbar event-history module <module>	No
show system internal xbar event-history msgs	No
show system internal xbar mem-stats [detail]	No

Show Commands	XML Support
show system internal xbar sw	No
show system internal xbar sw details	No
show system internal xos errors	No
show system internal xos info { ipc [<ipc-name>] xdm }	No
show system internal xos traces { ipc mgd time utils xdm interface address packet routing policy }	No
show system kgdb	No
show system memory-thresholds	Yes
show system mode	Yes
show system nve infra-vlans	Yes
show system pss shrink status [details]	Yes
show system redundancy ha status	Yes
show system redundancy status	Yes
show system reset-reason	Yes
show system reset-reason <s0> <santa-cruz-range>	Yes
show system reset-reason module <module>	Yes
show system resources	Yes
show system resources [<i0>] module <module>	No
show system resources [<i0>] module all	No
show system resources <i0>	No
show system routing mode	Yes
show system srg	No
show system standby manual-boot	Yes
show system switch-mode	Yes
show system switchover impact [<uri0> [<uri1>]]	No
show system uptime	Yes
show system verify bios { flash <i0> [module <module>] protection <i1> [module <module1>] }	No
show system vlan reserved	Yes

Show Commands	XML Support
show table-map [<tmap-name> <default-tmap-enum-name>]	Yes
show tacacs-server	Yes
show tacacs-server { <host0> }	Yes
show tacacs-server directed-request	Yes
show tacacs-server groups [<s0>]	Yes
show tacacs-server sorted	Yes
show tacacs-server statistics { <host0> }	Yes
show tamnw internal [event-history] errors	No
show tamnw internal [event-history] msgs	No
"show tech-support ""tacacs+"" "	No
show tech-support [ip ipv4] multicast	No
show tech-support [time-optimized] [forced]	No
show tech-support aaa	No
show tech-support aclmgr [detail]	No
show tech-support aclmgr compressed <uri0> [detail]	No
show tech-support aclqos	No
show tech-support aclqos compressed <uri0>	No
show tech-support adjmgr [brief]	No
show tech-support all	No
show tech-support all binary <uri0>	No
show tech-support all-binary	No
show tech-support arp [brief]	No
show tech-support ascii-cfg	No
show tech-support bfd	No
show tech-support bgp [brief]	No
show tech-support biosd	No
show tech-support bloggerd	No
show tech-support bloggerd-all	No

Show Commands	XML Support
show tech-support bootvar	No
show tech-support brief	No
show tech-support callhome	No
show tech-support cdp	No
show tech-support cert-enroll	No
show tech-support cfs [{ commands name <cfs-dyn-app-name> [commands1] }]	No
show tech-support cli	No
show tech-support clis [brief]	No
show tech-support clock_manager	No
show tech-support commands	No
show tech-support copp	No
show tech-support details [space-optimized]	No
show tech-support dhclient	No
show tech-support dhcp	No
show tech-support dme	No
show tech-support eem	No
show tech-support eltm [detail]	No
show tech-support ethpm	No
show tech-support fabric forwarding	No
show tech-support fast-reload	No
show tech-support fc2 [commands]	No
show tech-support fips	No
show tech-support forwarding l2 multicast	No
show tech-support forwarding l2 multicast vdc-all	No
show tech-support forwarding l2 unicast [module <module>]	No
show tech-support forwarding l3 multicast	No
show tech-support forwarding l3 multicast detail	No
show tech-support forwarding l3 multicast detail vdc-all	No

Show Commands	XML Support
show tech-support forwarding l3 multicast vdc-all	No
show tech-support forwarding l3 unicast [module <module>]	No
show tech-support forwarding l3 unicast detail [module <module>]	No
show tech-support forwarding l3 unicast detail vdc-all [module <module>]	No
show tech-support forwarding l3 unicast vdc-all [module <module>]	No
show tech-support forwarding mpls [module <module>]	No
show tech-support forwarding multicast [module <module>]	No
show tech-support forwarding otv multicast vdc-all	No
show tech-support gold	No
show tech-support gpixm	No
show tech-support ha [commands]	No
show tech-support ha standby [commands]	No
show tech-support icmpv6 [brief]	No
show tech-support im	No
show tech-support inband counters	No
show tech-support include-time	No
show tech-support install	No
show tech-support internal link-events	No
show tech-support internal link-events module <module>	No
show tech-support internal module <module>	No
show tech-support internal vsan <vsan_id>	No
show tech-support ip [brief]	No
show tech-support ip igmp [brief]	No
show tech-support ip igmp snooping [brief]	No
show tech-support ip pim [brief]	No
show tech-support ipqos [server-only] [all] [snmp]	No
show tech-support ipv6 [brief]	No
show tech-support ipv6 mld [brief]	No

Show Commands	XML Support
show tech-support ipv6 multicast	No
show tech-support issu [commands]	No
show tech-support kstack	No
show tech-support l2	No
show tech-support l2fm	No
show tech-support l2fm clients [module <module>]	No
show tech-support l2fm detail [module <module>]	No
show tech-support l2fm l2dbg [module <module>]	No
show tech-support l2pt [detail]	No
show tech-support l2rib	No
show tech-support l3vm [brief]	No
show tech-support l3vpn [brief]	No
show tech-support laep [all]	No
show tech-support license	No
show tech-support lim	No
show tech-support logging	No
show tech-support m2rib	No
show tech-support mfwd [brief]	No
show tech-support mmode	No
show tech-support module <module>	No
show tech-support module all	No
show tech-support monitor	No
show tech-support monitor erspan	No
show tech-support monitorc-all	No
show tech-support mpls strip	No
show tech-support mplsfd [brief]	No
show tech-support mvpn [brief]	No
show tech-support netstack	No

Show Commands	XML Support
show tech-support netstack detail	No
show tech-support npacl [brief]	No
show tech-support ns	No
show tech-support ntp	No
show tech-support nve	No
show tech-support ospf [brief]	No
show tech-support page [time-optimized] [forced]	No
show tech-support patch	No
show tech-support pfstat	No
show tech-support pixm	No
show tech-support pixm-all	No
show tech-support pixmc-all	No
show tech-support pktmgr [brief]	No
show tech-support platform	No
show tech-support plcmgr [detail]	No
show tech-support pltfm-config	No
show tech-support port	No
show tech-support port-channel	No
show tech-support port-client-all	No
show tech-support port-profile	No
show tech-support ptp	No
show tech-support radius	No
show tech-support rip [brief]	No
show tech-support routing [ip ipv4] [unicast] [brief]	No
show tech-support routing [ip ipv4] multicast [brief]	No
show tech-support routing ipv6 [unicast] [brief]	No
show tech-support routing ipv6 multicast [brief]	No
show tech-support sal	No

Show Commands	XML Support
show tech-support satmgr	No
show tech-support security	No
show tech-support session-mgr	No
show tech-support sflow	No
show tech-support sksd	No
show tech-support smm	No
show tech-support snmp	No
show tech-support sockets [brief]	No
show tech-support spm [<application>] [detail]	No
show tech-support statsclient [module <module>]	No
show tech-support stp	No
show tech-support sup-filesys	No
show tech-support sysmgr [commands]	No
show tech-support track	No
show tech-support tunnel [{ commands detail [commands1] }]	No
show tech-support udd	No
show tech-support usd-all	No
show tech-support vdc	No
show tech-support virtual-service	No
show tech-support vlan	No
show tech-support vshd	No
show tech-support vtp	No
show tech-support vxlan	No
show tech-support vxlan platform	No
show tech-support vxlan-evpn	No
show tech-support xbar	No
show tech-support xml	No
show tech-support xos [brief]	No

Show Commands	XML Support
show telnet server	Yes
show terminal	No
show terminal internal info	No
show terminal output xml version	No
show time-range [<name>]	Yes
show track { [<object-id> interface ip { route sla } ipv6 routev6 list boolean and list boolean or list threshold weight list threshold p	Yes
show track { [<object-id> interface ip { route sla } ipv6 routev6 list boolean and list boolean or list threshold weight list threshold p	Yes
show track { [<object-id> interface ip { route sla } ipv6 routev6 list boolean and list boolean or list threshold weight list threshold p	Yes
show track { [<object-id> interface ip { route sla } ipv6 routev6 list boolean and list boolean or list threshold weight list threshold p	Yes
show track internal [event-history] errors	No
show track internal [event-history] msgs	No
show track internal info counters	No
show track internal info global	No
show track internal info object <object-id> [up down]	No
show track internal mem-stats [uuid <i0>] [track-only] [detail]	No
show user-account [<s0>]	Yes
show username <s0> keypair	Yes
show userpassphrase { min-length max-length length }	Yes
show users	Yes
show vdc <id> resource [<res-mgr-res-known-name>]	Yes
show vdc current-vdc	Yes
show vdc fcoe-vlan-range	Yes
show vdc internal [event-history] errors	No
show vdc internal [event-history] msgs	No
show vdc internal { { pss [{ <e-vdc2> interface [<interface-name>] }] } port-hash }	No

Show Commands	XML Support
show vdc internal bitmaps	No
show vdc internal create_possible	No
show vdc internal event-history vdc_id <new_id>	No
show vdc internal mac_address_table	Yes
show vdc internal mem-stats [detail]	No
show vdc resource [<res-mgr-res-known-name>] [detail hidden-too with-flags] +	Yes
show vdc resource template [<res-mgr-template-known-name-all>]	Yes
show version	Yes
show version compatibility <uri0>	No
show version image <uri0>	No
show version internal build-identifier	No
show version module <module>	Yes
show version module <module> epld	No
show virtual-service [{ list } { global } { detail [name <virt_serv_name>] } { core [name <virt_serv_name_core>] }]	Yes
show virtual-service storage pool list	Yes
show virtual-service tech-support	No
show virtual-service utilization name <virt_serv_name>	Yes
show virtual-service version { { installed } { name <virt_serv_name> installed } }	Yes
show vlan [controller]	Yes
show vlan access-list <name> [<inp_seqno>]	Yes
show vlan access-map [<name>]	Yes
show vlan all-ports	Yes
show vlan counters	Yes
show vlan dot1Q tag native	Yes
show vlan filter [access-map <name> vlan <vlan>]	Yes
show vlan id <vlan-id>	Yes
show vlan id <vlan-id> counters	Yes

Show Commands	XML Support
show vlan internal [event-history] bd-pa-pmc notif	No
show vlan internal [event-history] bd-port { add delete }	No
show vlan internal [event-history] errors	No
show vlan internal [event-history] get-query notif	No
show vlan internal [event-history] msgs	No
show vlan internal [event-history] objstore	No
show vlan internal [event-history] pa-tmc notif	No
show vlan internal [event-history] traces	No
show vlan internal bd-info bd-to-vlan { <bd-id2> all-bd }	Yes
show vlan internal bd-info bd-usage	Yes
show vlan internal bd-info vlan-to-bd { <vlan-id3> all-vlan }	Yes
show vlan internal clear-flags	No
show vlan internal clear-flags [drainq <q-type>]	No
show vlan internal clear-log-buffer	No
show vlan internal event-history libprofiler	No
show vlan internal event-level <evt-lvl>	No
show vlan internal info [vlan-db [vlan <i0>] vlan-port-db [interface <if_index>] port-rt-pss [interface <if_index>] port-cfg-pss [No
show vlan internal info mapping	No
show vlan internal info port-configuration interface [<ifindex_in>]	Yes
show vlan internal info port-translation interface [<ifindex_in> [<cvtPortOriginalVlan_in>]]	Yes
show vlan internal lib event-history	No
show vlan internal log-event-bd { <bd-id> all }	No
show vlan internal log-event-intf { <if_index> all }	No
show vlan internal log-event-vlan { <vlan-id> all }	No
show vlan internal log-to-file { set unset }	No
show vlan internal mem-stats [detail]	No
show vlan internal next-vlan <vlan-id> [vlan-crsysuptime]	Yes

Show Commands	XML Support
show vlan internal port-info	Yes
show vlan internal port-memb-mib interface <intf-num>	Yes
show vlan internal port-memb-mib-sum <vlan-id> [port-range <port-range-list>]	Yes
show vlan internal print-level <prt-lvl>	No
show vlan internal trunk interface <intf-num>	Yes
show vlan internal trunk-info interface <if-index> <trunk-dis-size>	Yes
show vlan internal trunk2 interface <intf-num>	Yes
show vlan internal usage [id <vrage>]	Yes
show vlan internal vdc-info	Yes
show vlan internal vdc-info2	Yes
show vlan internal vlan-info <vlan-id2>	Yes
show vlan internal vpc-info [clear-stats]	No
show vlan name <vname>	Yes
show vlan reserved	Yes
show vlan xbrief [controller cli]	Yes
show vlan xsummary	Yes
show vlan-mgr errors	No
show vlan-mgr event-history	No
show vrf [<vrf-name> <vrf-known-name> all] [order id] [detail] [passive]	Yes
show vrf [<vrf-name> <vrf-known-name> all] interface [<interface>]	Yes
show vrf topology [order id] [detail]	Yes
show vtp counters	Yes
show vtp datafile	No
show vtp domain id <domain-id>	Yes
show vtp interface [<interface_range>]	Yes
show vtp internal event-history errors	No
show vtp internal event-history events	No
show vtp internal event-history pruning	No

Show Commands	XML Support
show vtp internal event-history traces	No
show vtp internal info [global all]	No
show vtp internal mem-stats [detail]	No
show vtp mibstats	Yes
show vtp password [domain <domain-id>]	Yes
show vtp status	Yes
show vtp trunk interface <if_index>	Yes
show vtp vlan <vlan-id> [domain <domain-id>]	Yes
show vxlan [interface [<int-id> <ch-id>]]	No
show wred-queue qos-group-map	No
show wrr unicast-bandwidth	No
show wrr-queue qos-group-map	No
show xml server internal exec-info { all <session_id> }	Yes
show xml server internal history { commands errors all_history } [session <session_id>]	Yes
show xml server logging configuration	No
show xml server status	Yes

