



Cisco Nexus 9000 Series NX-OS Command Reference (Show Commands), Release 9.3(x)

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Notices

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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
<i>__readonly__</i>	(Optional)
<i>status</i>	(Optional) login invalid-username-log enabled or disabled

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 bypass-user

```
show aaa bypass-user [ <s0> ] [ __readonly__ [ <num_bypass_users> ] [ TABLE_bypassUsers <username>
<account> <author> ] ]
```

Syntax Description

show	Show running system information
aaa	Show aaa information
bypass-user	Show bypass user information
<i>s0</i>	(Optional) Enter the username
<i>__readonly__</i>	(Optional)
<i>num_bypass_users</i>	(Optional) Number of bypass users configured
TABLE_bypassUsers	(Optional)
<i>username</i>	(Optional) Username
<i>account</i>	(Optional) Accounting Bypass
<i>author</i>	(Optional) Authorization bypass

Command Mode

- /exec

show aaa client radius statistics

```
show aaa client radius statistics <host0> [ __readonly__ TABLE_allstat [ <auth_client> ] TABLE_allcoastat
[ <requests> ] [ <transactions> ] [ <retransmissions> ] [ <active_trans> ] [ <ack_responses> ] [ <nak_responses>
] [ <invalid_req> ] [ <errors> ] ]
```

Syntax Description

show	Show running system information
aaa	Show aaa information
client	Show AAA client info
radius	show radius dynamic authorization client info
statistics	show radius dynamic authorization client statistics
<i>host0</i>	IPV4/IPV6 address or DNS name of RADIUS client
<i>__readonly__</i>	(Optional)
<i>TABLE_allstat</i>	(Optional)
<i>TABLE_allcoastat</i>	(Optional)
<i>auth_client</i>	(Optional) Authentication Client Port details
<i>requests</i>	(Optional) COA Request Sent count
<i>transactions</i>	(Optional) COA transactions count
<i>retransmissions</i>	(Optional) COA retransmission count
<i>active_trans</i>	(Optional) COA active transactions count
<i>ack_responses</i>	(Optional) COA acknowledgement responses count
<i>nak_responses</i>	(Optional) COA nak responses count
<i>invalid_req</i>	(Optional) Invalid requests count
<i>errors</i>	(Optional) COA Error count

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
__readonly__	(Optional)
TABLE_sessions	(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 server radius statistics

```
show aaa server radius statistics [ __readonly__ TABLE_allstat [ <auth_ser> ] [ <coa_sessions> ]
TABLE_alldot1xstat [ <request_sent> ] [ <resp_received> ] [ <resp_timeout> ] [ <errors> ] ]
```

Syntax Description

show	Show running system information
aaa	Show aaa information
server	show Local AAA server info
radius	show local radius server info
statistics	show local radius server statistics
<i>__readonly__</i>	(Optional)
<i>TABLE_allstat</i>	(Optional)
<i>TABLE_alldot1xstat</i>	(Optional)
<i>auth_ser</i>	(Optional) Authentication Server Port details
<i>coa_sessions</i>	(Optional) Active COA session numbers
<i>request_sent</i>	(Optional) DOT1X Request Sent Count
<i>resp_received</i>	(Optional) DOT1X Response received Count
<i>resp_timeout</i>	(Optional) DOT1X Response Timeout Value
<i>errors</i>	(Optional) DOT1X Error count

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> <plcy_id> <src_ip>
<src_mask> <dst_ip> <dst_mask> <proto> <l4ops> <action> <mac> <cos> <vlan> <l2_proto> <ethertype>
[ TABLE_vdc <vdc-no> <vdc-type> <dir> <policy-type> <policy-id> <policy-name> ] [ TABLE_instance
<inst> [ TABLE_tcaml_resource_usage <tcaml-no> <lbl> <hw-lbl-id> [ <bank> ] [ TABLE_bank <bank-no>
[ TABLE_class <class-type> [ TABLE_policies <policy> ] <netflow-profile> <netflow-deny-profile> [
<tcaml-entries> ] [ TABLE_tcaml_entry <tcaml-index> <tcaml-rule> <tcaml-stats> ] ] ] ] <l4-protocol-cam-entries>
<mac-etype-PROTO-cam-entries> <lous> <tcp-flags-table-entries> <adjacency-entries> ] }
```

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) tcaml entries
statistics	(Optional) aggregate statistics

<i>l4ops</i>	(Optional) l4 operations information
<i>redirect</i>	(Optional) redirect resource information
<i>sampler</i>	(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
<i>TABLE_vdc</i>	(Optional) show for vdc
<i>vdc-no</i>	(Optional) vdc number
<i>vdc-type</i>	(Optional) VDC type-COPP etc
<i>dir</i>	(Optional) Policy Direction
<i>policy-type</i>	(Optional) Policy type
<i>policy-id</i>	(Optional) Policy id

<i>policy-name</i>	(Optional) Policy name
TABLE_instance	(Optional) show for an instance
<i>inst</i>	(Optional) instance number
TABLE_tcam_resource_usage	(Optional) TCAM resource usage
<i>tcam-no</i>	(Optional) tcam number
TABLE_bank	(Optional) table bank
<i>bank-no</i>	(Optional) bank number
<i>lbl</i>	(Optional) lbl name
<i>hw-lbl-id</i>	(Optional) hw lbl id
<i>bank</i>	(Optional) bank number
TABLE_class	(Optional) table class
<i>class-type</i>	(Optional) Class type
TABLE_policies	(Optional) policy table
<i>policy</i>	(Optional) Policy name
<i>netflow-profile</i>	(Optional) Netflow Profile
<i>netflow-deny-profile</i>	(Optional) Netflow Deny Profile
TABLE_tcam_entry	(Optional) table tcam entries
<i>tcam-index</i>	(Optional) Index of tcam entry
<i>tcam-rule</i>	(Optional) tcam rule
<i>tcam-stats</i>	(Optional) stats of tcam rule
<i>tcam-entries</i>	(Optional) No. of TCAM entries
<i>l4-protocol-cam-entries</i>	(Optional) L4 protocol cam entries
<i>mac-etype-proto-cam-entries</i>	(Optional) No. of mac etype/proto cam entries
<i>lous</i>	(Optional) No. of LOU's
<i>tcp-flags-table-entries</i>	(Optional) No. of CP flags table entries
<i>adjacency-entries</i>	(Optional) No. of adjacency entries

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 | prm | hardware-telemetry } [ detail ] } | utilization [ per-feature
] | { entry tcam <tcam_id> bank <bank_id> index <index> } | { default-tcam-allocation } } [ no-header ] [
module <module> ] [ __readonly__ [ TABLE_instance <inst> [ 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
default-tcam-allocation	default tcam allocation
utilization	utilization matrix
per-feature	(Optional) feature wise utilization
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
prm	prm profiles
hardware-telemetry	hardware-telemetry resources
detail	(Optional) detailed information
no-header	(Optional) Do not print header
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
<i>__readonly__</i>	(Optional)
TABLE_instance	(Optional) show for an instance
<i>inst</i>	(Optional) instance number
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 tcam entries
<i>ents_pctage</i>	(Optional) tcam entries usage percentage

Command Mode

- /exec

show access-lists

```
show [ <ip_ipv6_mac> ] access-lists [ <name> ] [ capture session <capture_session> ] [ <expanded> |
<summary> | <private> | <brief> | <stats-detail> ] [ __readonly__ TABLE_ip_ipv6_mac <op_ip_ipv6_mac>
<show_summary> <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> ] [ TABLE_match <module>
<module_match_count> ] [ <nve_vni> ] | <remark> [ <action> <actionid> ] } ] [ ethertype <ethertypeid> |
vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid> ] + [ [ <stats_enabled>
] [ <frag_option> ] [ <ign_rtable> ] { <num_ace> } { <conf_if_header> } [ <conf_if> ] { <active_if_header>
} [ <active_if> ] ] ] ]
```

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>show_summary</i>	(Optional)
<i>acl_name</i>	(Optional) List name
<i>__readonly__</i>	(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

<i>ingress_intf</i>	(Optional) Configure match based on ingress interface
<i>vlan_priority</i>	(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
TABLE_match	(Optional)
<i>module</i>	(Optional) Module name
<i>module_match_count</i>	(Optional) Number of packets matching the ACL per module
<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-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>
<i>stats_enabled</i>	(Optional)
<i>frag_option</i>	(Optional)
<i>ign_rtable</i>	(Optional)
<i>num_ace</i>	(Optional) Total number of ACEs
<i>conf_if_header</i>	(Optional)
<i>conf_if</i>	(Optional) Configured Interfaces
<i>active_if_header</i>	(Optional)
<i>active_if</i>	(Optional) Active interfaces
<i>expanded</i>	(Optional) EXPANDED
<i>summary</i>	(Optional) SUMMARY
<i>private</i>	(Optional) PRIVATE
<i>brief</i>	(Optional) BRIEF
<i>stats-detail</i>	(Optional) STATS-DETAIL

Command Mode

- /exec

show access-lists

```
show <mpls_acl> access-lists [ <mpls_name> ] [ __readonly__ TABLE_mpls <mpls_name> [ <statistics> ]
[ TABLE_seqno <seqno> { <permitdeny> <mpls> [ <mpls_option> ] { <label1_any> | { <label1> [ mask
<label1_mask> ] } } [ <label2_any> | { <label2> [ mask <label2_mask> ] } } [ <label3_any> | { <label3> [
mask <label3_mask> ] } } [ <label4_any> | { <label4> [ mask <label4_mask> ] } } ] <mplsaction> <mplsactionid>
} | <remark> ] ]
```

Syntax Description

show	Show running system information
<i>mpls_acl</i>	mpls acl value
access-lists	List access lists
<i>mpls_name</i>	(Optional) List name
<i>__readonly__</i>	(Optional)
<i>mpls_name</i>	(Optional) Name of the MPLS ACL
<i>seqno</i>	(Optional) Sequence number
<i>permitdeny</i>	(Optional) Permit/deny
<i>mplsaction</i>	(Optional) mpls ACL Action
<i>mplsactionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>
<i>statistics</i>	(Optional) STATISTICS
mask	(Optional) mask
<i>label1</i>	(Optional) mpls label one
<i>label2</i>	(Optional) mpls label two
<i>label3</i>	(Optional) mpls label three
<i>label4</i>	(Optional) mpls label three
<i>label1_mask</i>	(Optional) mpls label one mask
<i>label2_mask</i>	(Optional) mpls label two mask
<i>label3_mask</i>	(Optional) mpls label three mask
<i>label4_mask</i>	(Optional) mpls label four mask
<i>label1_any</i>	(Optional) label one Any
<i>label2_any</i>	(Optional) label two Any

<i>label3_any</i>	(Optional) label three Any
<i>label4_any</i>	(Optional) label four Any
<i>mpls</i>	(Optional) mpls keyword
<i>mpls_option</i>	(Optional) mpls option
TABLE_mpls	(Optional)
TABLE_seqno	(Optional)
<i>remark</i>	(Optional) Remark String

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)
__readonly__	(Optional)
TABLE_acctlog	(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__ [ <current_operation> [ <current_operation_stage> ] [ <current_operation_cli>
] <last_operation> [ <last_operation_status> ] [ <last_operation_cli> ] [ <current_acl> ] [ <current_ace> ] ]
]
```

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>current_operation</i>	(Optional) Current operation
<i>current_operation_stage</i>	(Optional) Current operation stage
<i>current_operation_cli</i>	(Optional) Current operation CLI
<i>last_operation</i>	(Optional) Last operation
<i>last_operation_status</i>	(Optional) Last operation status
<i>last_operation_cli</i>	(Optional) Last operation CLI
<i>current_acl</i>	(Optional) Access-list being modified
<i>current_ace</i>	(Optional) ACE rule being modified

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

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

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	(Optional) List records for specific user in the config log
<i>username</i>	(Optional) 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
__readonly__	(Optional)
TABLE_archivelog_time	(Optional)
<i>archivelog_firstindex</i>	(Optional) archive log startindex

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

show arp access-lists



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show background

```
show background [ __readonly__ [ { TABLE_jobs <pid> <user_name> <terminal> <start> <time> <script>
<args> } ] ]
```

Syntax Description

<code>show</code>	Show running system information
<code>background</code>	show background processes (started with 'source background <file>' command)
<code>__readonly__</code>	(Optional)
<code>TABLE_jobs</code>	(Optional) All background jobs
<code>pid</code>	(Optional) Process ID of the job
<code>user_name</code>	(Optional) User name of the process
<code>terminal</code>	(Optional) Terminal where job is running
<code>start</code>	(Optional) Start time of job
<code>time</code>	(Optional) Time
<code>script</code>	(Optional) Script name
<code>args</code>	(Optional) Arguments passed to script

Command Mode

- /exec

show banner exec

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

Syntax Description

show	Show running system information
banner	Show current banner message
exec	Show current exec banner message
__readonly__	(Optional)
banner_msg	(Optional) The banner message
<i>b_msg</i>	(Optional) The 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)
TABLE_ipMapTable	(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 { [ multihop ] | [
module <module> ] | [ 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> ] [
<sess_type> ] [ <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>
] [ <detect_timer> ] [ <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> ] [ <up_count> ] [
<down_count> ] [ <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
multihop	(Optional) Display Multihop sessions only
module	(Optional) module
<i>module</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
<i>__readonly__</i>	(Optional)
TABLE_bfdNeighbor	(Optional) BFD Neighbor table
<i>header</i>	(Optional) Header
<i>sess_type</i>	(Optional) Session type
<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>detect_timer</i>	(Optional) Current Detection Timer
<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>up_count</i>	(Optional) Up Count
<i>down_count</i>	(Optional) Down Count
<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

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 } policy statistics { { redistribute [ { { eigrp | isis | ospf | rip } <tag> } | static | direct | amt | lisp |
hmm | am ] } | { neighbor <neighbor-id> [ default-originate | { route-map | filter-list | prefix-list } { in | out }
] } | { dampening } | { network { <ip-addr> mask <ip-mask> | <ip-prefix> } } | { aggregate-address { <ip-addr>
<ip-mask> | <ip-prefix> } { suppress-map | advertise-map } } } | vpnv4 unicast policy statistics { neighbor
<neighbor-id> [ { route-map | filter-list | prefix-list } { in | out } ] } | ipv6 { unicast | multicast } policy statistics
{ { redistribute [ { { eigrp | isis | ospfv3 | rip } <tag> } | static | direct | amt | lisp | hmm | am ] } | { neighbor
{ <neighbor-id> | <ipv6-neighbor-id> } [ default-originate | { route-map | filter-list | prefix-list } { in | out }
] } | { dampening } | { network <ipv6-prefix> } | { aggregate-address <ipv6-prefix> { suppress-map |
advertise-map } } } } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [
__readonly__ TABLE_vrf <vrf-name-polstats> [ <rpm-handle-count> ] [ { TABLE_rmap <name> <action>
<seqnum> [ { TABLE_cmd <command> <comparecount> <matchcount> } ] [ <totalacceptcount> ] [
<totalrejectcount> ] } ] ] ]
```

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
vpnv4	Display BGP information for VPNv4 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
policy	Display policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
isis	(Optional) ISO IS-IS
ospf	(Optional) Open Shortest Path First
ospfv3	(Optional) Open Shortest Path First v3
rip	(Optional) Routing Information Protocol
eigrp	(Optional) Enhanced Interior Gateway Protocol

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

<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

<i>etid</i>	(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_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>table-map-filtered</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>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_ <i>importdests</i>	(Optional)
<i>importdest</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>atomicaggregate</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 } | 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 } { route-map {
<rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | { community-list {
<commlist-name> | <test_pol_name> } | extcommunity-list { <extcommllist-name> | <test_pol_name> } } [
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> ] [ <table-map-filtered> ] [ <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> }
| { <weight> <aspath> <origin> [ <metric> ] [ <localpref> ] } } } | { { <policyincomplete> <pathvalid>
<pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> } [ <importsource> [ <originalimportsource> ] ] [ <importdestscount> ] [
TABLE_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop>
} <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight>
[ <aggregator> <aggregators> <atomicaggregate> ] [ <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
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
<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
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
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
__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>table-map-filtered</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>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</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>atomicaggregate</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>flaphalf-life</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 } | 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> ] [ <table-map-filtered> ] [ <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> }
| { <weight> <aspath> <origin> [ <metric> ] [ <localpref> ] } } } | { { <policyincomplete> <pathvalid>
<pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> } [ <importsource> [ <originalimportsource> ] ] [ <importdestscount> ] [
TABLE_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop>
} <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight>
[ <aggregator> <aggregators> <atomicaggregate> ] [ <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> ] [ <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
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
<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_ <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>table-map-filtered</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>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</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>atomicaggregate</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 } | vpv4 unicast | ipv4 mdt | link-state | l2vpn vpls | l2vpn evpn | ipv4 mvpn } nexthop-database
[ <ipnexthop> ] } | { { ipv6 { unicast | multicast } | vpv6 unicast | ipv6 mvpn } nexthop-database [
<ipv6nexthop> ] } | { all nexthop-database } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_nhvrif <nhvrif-name-out> TABLE_nhafi <nhafi>
TABLE_nhsafi <nhsafi> <af-name> <nhcriticaldelay> <nhnoncriticaldelay> [ { TABLE_nexthop {
<ipnexthop-out> | <ipv6nexthop-out> } <refcount> <igpmetric> <multipath> <igptype> <igppref> [ {
TABLE_attachedhops { <attachedhop> | <ipv6attachedhop> } <interface> [ { TABLE_labels <index> <label>
} ] } ] <attached> <local> <reachable> <labeled> <filtered> <suppressed> <resolvetime> { <ribroute> |
<ipv6ribroute> } { <pendingupdate> | <pendingtime> } <nextadvertise> <nrhepoch> [ <pendingnrhepoch>
] ] ] ]
```

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
<i>__readonly__</i>	(Optional)
TABLE_nhvrf	(Optional)
<i>nhvrf-name-out</i>	(Optional)
TABLE_nhafi	(Optional)
<i>nhafi</i>	(Optional)
TABLE_nhsafi	(Optional)
<i>nhsafi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>nhcriticaldelay</i>	(Optional)
<i>nhnoncriticaldelay</i>	(Optional)
TABLE_nexthop	(Optional)
<i>ipnexthop-out</i>	(Optional)
<i>refcount</i>	(Optional)
<i>igpmetric</i>	(Optional)
<i>multipath</i>	(Optional)
<i>igptype</i>	(Optional)
<i>igppref</i>	(Optional)
TABLE_attachedhops	(Optional)
<i>attachedhop</i>	(Optional)
<i>interface</i>	(Optional)
TABLE_labels	(Optional)
<i>index</i>	(Optional)
<i>label</i>	(Optional)
<i>attached</i>	(Optional)
<i>local</i>	(Optional)
<i>reachable</i>	(Optional)
<i>labeled</i>	(Optional)
<i>filtered</i>	(Optional)

<i>suppressed</i>	(Optional)
<i>resolvetime</i>	(Optional)
<i>pendingupdate</i>	(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> ] ] [ <dampening> <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
__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>dampening</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> ] [ <table-map-filtered>
] [ <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> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } | { [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <importsource> [ <originalimportsource> ]
] [ <importdstscount> ] [ TABLE_importdsts <importdest> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras> <atomicaggregator> ] [ <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_origsrgb_len> <psid_origsrgb_flag> <psid_origsrgb_base> <psid_origsrgb_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

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
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>table-map-filtered</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>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</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>atomicaggregate</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
<i>__readonly__</i>	(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>ribribconvergence</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

<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
regexp	(Optional) Display routes matching the AS path regular expression
<i>regexp-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>table-map-filtered</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>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</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>atomicaggregate</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>psmi</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> ] ] [ <dampening> <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>dampening</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 max penalty> ] ] ]
```

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>rpmdampsuppress</i>	(Optional)
<i>rpmdampreuse</i>	(Optional)
<i>rpmdampsuppresstime</i>	(Optional)
<i>rpmdampmaxpenalty</i>	(Optional)
<i>dampconfigured</i>	(Optional)
<i>damphalflife</i>	(Optional)
<i>dampsuppress</i>	(Optional)
<i>dampreuse</i>	(Optional)

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

Command Mode

- /exec

show bgp event-history

```
show bgp [ internal ] event-history { <bgp-event-hist> | msgs | sdwrap-errors }
```

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
msgs	Show various message logs of BGP
sdwrap-errors	Show SDWRAP library error logs of BGP

Command Mode

- /exec

show bgp evi

```
show bgp evi [ <evi-id> ] [ __readonly__ [ TABLE_ctx <eid> <rd> <numlocalprefixes> <numtotalprefixes>
<created> <lastoperup> <lastoperdown> <enabled> [ <associatedvrf> ] [ TABLE_activeexportrts <exportrt>
] [ TABLE_activeimportrts <importrt> ] [ TABLE_evpnactiveexportrts <evpnexportrt> ] [
TABLE_evpnactiveimportrts <evpnimportrt> ] [ TABLE_mvnpactiveexportrts <mvpnexportrt> ] [
TABLE_mvnpactiveimportrts <mvpnimportrt> ] [ TABLE_activeexportrtsv6 <exportrtv6> ] [
TABLE_activeimportrtsv6 <importrtv6> ] [ TABLE_evpnactiveexportrtsv6 <evpnexportrtv6> ] [
TABLE_evpnactiveimportrtsv6 <evpnimportrtv6> ] [ TABLE_mvnpactiveexportrtsv6 <mvpnexportrtv6> ]
[ TABLE_mvnpactiveimportrtsv6 <mvpnimportrtv6> ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
evi	Display information about EVI database
<i>evi-id</i>	(Optional) EVI Id
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>eid</i>	(Optional)
<i>rd</i>	(Optional)
<i>numlocalprefixes</i>	(Optional)
<i>numtotalprefixes</i>	(Optional)
<i>created</i>	(Optional)
<i>lastoperup</i>	(Optional)
<i>lastoperdown</i>	(Optional)
<i>enabled</i>	(Optional)
<i>associatedvrf</i>	(Optional)
TABLE_activeexportrts	(Optional)
TABLE_activeimportrts	(Optional)
TABLE_evpnactiveexportrts	(Optional)
TABLE_evpnactiveimportrts	(Optional)
TABLE_mvnpactiveexportrts	(Optional)
TABLE_mvnpactiveimportrts	(Optional)

TABLE_activeexportrtsv6	(Optional)
TABLE_activeimportrtsv6	(Optional)
TABLE_evpnactiveexportrtsv6	(Optional)
TABLE_evpnactiveimportrtsv6	(Optional)
TABLE_mvpnactiveexportrtsv6	(Optional)
TABLE_mvpnactiveimportrtsv6	(Optional)
<i>importrt</i>	(Optional)
<i>exportrt</i>	(Optional)
<i>evpnimportrt</i>	(Optional)
<i>evpnexportrt</i>	(Optional)
<i>mvpnimportrt</i>	(Optional)
<i>mvpnexportrt</i>	(Optional)
<i>importrtv6</i>	(Optional)
<i>exportrtv6</i>	(Optional)
<i>evpnimportrtv6</i>	(Optional)
<i>evpnexportrtv6</i>	(Optional)
<i>mvpnimportrtv6</i>	(Optional)
<i>mvpnexportrtv6</i>	(Optional)

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> ] [ <table-map-filtered> ] [
<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> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } } | { [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <importsourc> [ <originalimportsourc> ]
] [ <importdstscount> ] [ TABLE_importdsts <importdst> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras> <atomicaggregate> ] [ <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_origsrGB_len> <psid_origsrGB_flag> <psid_origsrGB_base> <psid_origsrGB_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
<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>table-map-filtered</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>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</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>atomicaggregate</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>flaphalf-life</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 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> ] [ TABLE_mvpn_export_rt <mvpn-export-rt> ] [
TABLE_mvpn_import_rt <mvpn-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
TABLE_mvpn_export_rt	(Optional)
<i>mvpn-export-rt</i>	(Optional) Export MVPN route-target
TABLE_mvpn_import_rt	(Optional)
<i>mvpn-import-rt</i>	(Optional) Import MVPN 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 } } | 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> ] [ <table-map-filtered> ] [
<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> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } } | [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <importsourc> [ <originalimportsourc> ]
] [ <importdstscount> ] [ TABLE_importdsts <importdst> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras> <atomicaggregator> ] [ <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_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
<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_ <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>table-map-filtered</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>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</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>atomicaggregate</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>pm</i> <i>si</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

```
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 |
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> ] ] [ <sourcecif> ] [ <connectedif>
] [ <connectedcheck> ] [ <lowmemexempt> ] [ <bfd> ] [ <bfdmintxinterval> ] [ <bfdminrxinterval> ] [
<bfdmultiplier> ] [ <bfdauthenticationtype> ] [ <ttlsecurity> ] [ <tllimit> ] [ <dscp> ] [ <password> ] [
<passiveonly> ] [ <activepeers> <closingpeers> <maxconcurrentpeers> ] [ <allocatedpeers> ] [
<totalpeersaccepted> ] [ <localas-inactive> ] <remove-privateas> [ <gshut-activate> ] [ <gshut-map> ] { [ [
<lastread> ] <holdtime> <keepalivetime> [ <lastwrite> ] [ <keepalive> ] <msgrecvd> <notificationsrcvd>
<recvbuffersinq> <msgsent> <notificationssent> <sentbytesoutstanding> <sentbytespacked>
<connsestablished> <connsdropped> [ <connattempts> ] { { [ <peerresettime> ] <peerresetreason> [ <resettime>
] <resetreason> } | { [ <resettime> ] <resetreason> [ <peerresettime> ] <peerresetreason> } } [ <capsnegotiated>
<capmpadadvertised> [ <caprefreshadvertised> <capgrdynamicadvertised> ] [ <capmprecvd> <caprefreshrecvd>
<capgrdynamicrecvd> ] [ <capolddynamicadvertised> <capolddynamicrecvd> <caprradadvertised> <caprrrecvd>
<capoldrradadvertised> <capoldrrrecvd> <capas4advertised> <capas4recvd> ] [ { TABLE_af <af-afi> TABLE_saf
<af-safi> <af-advertised> <af-recvd> <af-name> } ] [ <capgradadvertised> <capgrrecvd> ] [ { TABLE_graf
<gr-afi> TABLE_grsaf <gr-safi> <gr-af-name> <gr-adv> <gr-recv> <gr-fw> } ] [ <grrestarttime>
<grstaletime> ] [ <grrecvdrestarttime> ] [ [ { TABLE_addpathscapaf <addpathscapaf-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> <rtrrefreshsent>
<rtrrefreshrecvd> <capabilitiesent> <capabilitiesrecvd> <bytesent> <bytesrecvd> ] [ TABLE_peraf <per-afi>
TABLE_persaf <per-safi> <per-af-name> [ <tableversion> ] [ <neighborstableversion> ] [ <pfxrecvd> ] [
<pathsrecvd> ] [ <pfxbytes> ] [ <pfxsent> ] [ <pathsent> ] [ <conditionmap> <advertisementmap>
<advertisementmapstatus> ] [ <insoftreconfigallowed> [ <insoftreconfigallowedalways> ] [ <sendcommunity> ] [
<sendextcommunity> ] [ { <localnexthop> | <ipv6localnexthop> } ] [ <thirdpartynexthop> ] [ <maxpfx> ] [
<maxpfx_threshold> ] [ <soo> ] [ <weight> ] [ <allowasin> ] <asoverride> <peerascheckdisabled> [
<vplssignalingprotocol> ] [ { TABLE_inpolicy <inpolicynr> <inpolicitype> <inpolicyname> [
<inpolicyhandle> } ] ] [ { TABLE_outpolicy <outpolicynr> <outpolicitype> <outpolicyname> [
<outpolicyhandle> } ] ] <rrconfigured> <defaultoriginate> [ <defaultoriginatemap> ] [ <defaultsent> ] [
<grpathsaved> ] [ <firsteorrecvd> ] [ <firsteortime> ] [ <pathsflushed> ] [ <lasteorrecvtime> ] [
<lasteorsenttime> ] [ <firstconvgtime> ] [ <pfxsentfirsteor> ] [ <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
<i>__readonly__</i>	(Optional)
<i>TABLE_neighbor</i>	(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>bfdmintxinterval</i>	(Optional)
<i>bfdminrxinterval</i>	(Optional)
<i>bfdmultiplier</i>	(Optional)
<i>bfdauthenticationtype</i>	(Optional)
<i>ttlsecurity</i>	(Optional)
<i>tllimit</i>	(Optional)
<i>dscp</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>gshut-activate</i>	(Optional)
<i>gshut-map</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>recvbufbytesinq</i>	(Optional)
<i>msgsent</i>	(Optional)
<i>notificationssent</i>	(Optional)
<i>sentbytesoutstanding</i>	(Optional)
<i>sentbytespacked</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_ <i>epe-adj</i>	(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>capgrdynamicrcvd</i>	(Optional)
<i>capaddpathsrcvd</i>	(Optional)
<i>caprefreshrcvd</i>	(Optional)
<i>capolddynamicadvertised</i>	(Optional)
<i>capolddynamicrcvd</i>	(Optional)
<i>caprradvertised</i>	(Optional)
<i>caprrrcvd</i>	(Optional)
<i>capoldrradvertised</i>	(Optional)
<i>capoldrrrcvd</i>	(Optional)
<i>capas4advertised</i>	(Optional)
<i>capas4rcvd</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>capgradadvertised</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>pfxrcvd</i>	(Optional)
<i>pathsrcvd</i>	(Optional)
<i>pfxbytes</i>	(Optional)
<i>pfxsent</i>	(Optional)
<i>pathsent</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>inpolycynr</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>firsteorrecvd</i>	(Optional)
<i>firsteortime</i>	(Optional)
<i>pathsflushed</i>	(Optional)
<i>lasteorrecvtime</i>	(Optional)
<i>lasteorsenttime</i>	(Optional)
<i>firstconvtime</i>	(Optional)
<i>pfxsentfirsteor</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>vpls signalingprotocol</i>	(Optional)
TABLE_policy_template	(Optional)
<i>preference</i>	(Optional)

<i>inherit-policy-template</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> ] ] [ <dampening> <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>dampening</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> ] [ <bfdmintxinterval>
] [ <bfDMINrxinterval> ] [ <bfdmultiplier> ] [ <bfdauthenticationtype> ] [ <ttlsecurity> ] [ <ttllimit> ] [ <dscp>
] [ <password> ] [ <passiveonly> ] <localas-inactive> [ <remove-privateas> ] [ <configholdtime>
<configkeepalivetime> ] [ TABLE_peraf <per-afi> TABLE_persaf <per-safi> <per-af-name> [ <tableversion>
] [ <neighbortableversion> ] [ <pfxrcvd> ] [ <pathsrcvd> ] [ <pfxbytes> ] [ <pfxsent> ] [ <pathssent> ] [
<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> [
<defaultoriginatormap> ] [ <defaultsent> ] [ <grpathssaved> ] [ <firsteorrecvd> ] [ <firsteortime> ] [
<pathsflushed> ] [ <lasteorrecvttime> ] [ <lasteorsenttime> ] [ <firstconvgttime> ] [ <pfxsentfirsteor> ] [
<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>bfdmintxinterval</i>	(Optional)
<i>bfDMINrxinterval</i>	(Optional)
<i>bfdmultiplier</i>	(Optional)
<i>bfdauthenticationtype</i>	(Optional)
<i>ttlsecurity</i>	(Optional)
<i>ttllimit</i>	(Optional)
<i>dscp</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>pfxrecvd</i>	(Optional)
<i>pathsrecvd</i>	(Optional)
<i>pfxbytes</i>	(Optional)
<i>pfxsent</i>	(Optional)

<i>pathsent</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>defaultoriginatermap</i>	(Optional)
<i>defaultsent</i>	(Optional)
<i>grpathsaved</i>	(Optional)
<i>firsteorrecvd</i>	(Optional)
<i>firsteortime</i>	(Optional)
<i>pathsflushed</i>	(Optional)

<i>lasterrorrecvtime</i>	(Optional)
<i>lasteorsenttime</i>	(Optional)
<i>firstconvgtime</i>	(Optional)
<i>pfxsentfirsteor</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> ] [ <dscp> ] [ <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>dscp</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> ] [
<table-map-filtered> ] [ <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> } | { <weight> <aspath>
<origin> [ <metric> ] [ <localpref> ] } } } | [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted>
<pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabelednrh> ] [ <importsource>
[ <originalimportsource> ] ] [ <importdestscout> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [
<aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> }
<neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras> <atomicaggregate>
] [ <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> ] [ <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
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>table-map-filtered</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>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</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>atomicaggregate</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> <gshut-aware> <gshut-activate> [
<gshut-map> ] <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-evpn-mppls> ] [ <vrf-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-topo-id> ] [ <vrf-encap-type> ] [ <vrf-vtep-ip>
] [ <vrf-vtep-virtual-ip> ] [ <vrf-vtep-vipr> ] [ <vrf-router-mac> ] [ <vrf-vip-router-mac> ] [
<vrf-vipr-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-configured> ] [ <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> }
] <wait-igp-convergence> [ { 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> ] [ TABLE_mvpn_export_rt <mvpn-export-rt> ] [ TABLE_mvpn_import_rt <mvpn-import-rt>
] [ <af-label-mode> ] [ <af-aggregate-label> ] [ <srv6-alloc-mode> ] [ <srv6-end-function> ] [
<importdefault_prefixlimit> <importdefault_prefixcount> <importdefault_map> <importdefault_advertiseevpn>
] <import_vrf_advertiseevpn> [ <exportdefault_prefixlimit> <exportdefault_prefixcount> <exportdefault_map>
<exportdefault_allowvvpn> ] <export_vrf_allowvvpn> <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>gshut-aware</i>	(Optional)
<i>gshut-activate</i>	(Optional)
<i>gshut-map</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-evpn-mpls</i>	(Optional) VRF EVPN L3 MPLS
<i>vrf-vni-id</i>	(Optional) VRF VNI ID
<i>vrf-vni-id-valid</i>	(Optional) VRF VNI ID validity
<i>vrf-topo-id</i>	(Optional) VRF Topo ID
<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-vipr-router-mac</i>	(Optional) VRF VIPR 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-configured</i>	(Optional) VRF RD Configured
<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
<i>wait-igp-convergence</i>	(Optional)
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
TABLE_mvpn_export_rt	(Optional)
<i>mvpn-export-rt</i>	(Optional) Export MVPN route-target

TABLE_mvpn_import_rt	(Optional)
<i>mvpn-import-rt</i>	(Optional) Import MVPN route-target
<i>af-label-mode</i>	(Optional) Label allocation mode
<i>af-aggregate-label</i>	(Optional) Aggregate Label
<i>srv6-alloc-mode</i>	(Optional) Srv6 sid allocation mode
<i>srv6-end-function</i>	(Optional) Srv6 sid end function
<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>importdefault_advertisevpn</i>	(Optional) Advertise-vpn is enabled
<i>import_vrf_advertisevpn</i>	(Optional) Advertise-vpn is enabled
<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>exportdefault_allowvpn</i>	(Optional) Allow-vpn is enabled
<i>export_vrf_allowvpn</i>	(Optional) Allow-vpn is enabled
<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> ] [ <table-map-filtered> ] [ <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> }
| { <weight> <aspath> <origin> [ <metric> ] [ <localpref> ] } } } [ <policyincomplete> <pathvalid>
<pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> ] [ <importsource> [ <originalimportsource> ] ] [ <importdstscount> ] [
TABLE_importdsts <importdest> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop>
} <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight>
[ <aggregator> <aggregatoras> <atomicaggregate> ] [ <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
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

show bgp received-paths

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
private	(Optional) private
__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>table-map-filtered</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>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</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>atomicaggregate</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> ] [ <table-map-filtered>
] [ <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> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } } | [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrnh> ] [ <importsourcen> [ <originalimportsourcen> ]
] [ <importdestscount> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> <atomicaggregate> ] [ <inlabel> ] [
<originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [
<originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappentalty> <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_vniid> <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
__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>table-map-filtered</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>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdestscount</i>	(Optional)
TABLE_importdests	(Optional)
<i>importdest</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>atomicaggregate</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> ] [ <table-map-filtered> ] [
<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> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } } | [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <importsource> [ <originalimportsource> ]
] [ <importdstscount> ] [ TABLE_importdsts <importdst> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras> <atomicaggregate> ] [ <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_origsr gb_len> <psid_origsr gb_flag> <psid_origsr gb_base> <psid_origsr gb_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
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>table-map-filtered</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>importsource</i>	(Optional)
<i>originalimportsource</i>	(Optional)
<i>importdstscount</i>	(Optional)
TABLE_importdsts	(Optional)
<i>importdest</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>atomicaggregate</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 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> <remoteas> [ <lastflap> ] [ <lastread>
] [ <lastwrite> ] <state> <localport> <remoteport> <notificationssent> <notificationsreceived> ] ]
```

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>remoteas</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</i>	(Optional) VRF State
<i>vrf-state-rsn</i>	(Optional) VRF State Reason
<i>vrf-delete-pending</i>	(Optional) VRF delete pending
<i>vrf-evpn-mpls</i>	(Optional) VRF EVPN L3 MPLS
<i>vrf-vni-id</i>	(Optional) VRF VNI ID
<i>vrf-vni-id-valid</i>	(Optional) VRF VNI ID validity
<i>vrf-topo-id</i>	(Optional) VRF Topo ID
<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-vipr-router-mac</i>	(Optional) VRF VIPR 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-configured</i>	(Optional) VRF RD Configured
<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 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-evpn-mpls> ] [ <vrf-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-topo-id> ] [ <vrf-encap-type> ] [ <vrf-vtep-ip>
] [ <vrf-vtep-virtual-ip> ] [ <vrf-vtep-vipr> ] [ <vrf-router-mac> ] [ <vrf-vip-router-mac> ] [
<vrf-vipr-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-configured> ] [ <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> ] [ <softreconfigidenticalpaths> ] [ <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-evpn-mpls</code>	(Optional) VRF EVPN L3 MPLS
<code>vrf-vni-id</code>	(Optional) VRF VNI ID
<code>vrf-vni-id-valid</code>	(Optional) VRF VNI ID validity
<code>vrf-topo-id</code>	(Optional) VRF Topo ID
<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-vipr-router-mac</code>	(Optional) VRF VIPR 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

<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-configured</i>	(Optional) VRF RD Configured
<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> ] [ TABLE_Current_Bootvar
<current_sup_module><current_image> [ <current_sup_module> ] [ <current_image> ] <current_poap_status>
] [ TABLE_Startup_Bootvar <start_sup_module> <start_image> [ <start_sup_module> ] [ <start_image> ]
<start_poap_status> } } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
<i>__readonly__</i>	(Optional)
<i>TABLE_bootvar_show</i>	(Optional) Bootvar table
<i>TABLE_Current_Bootvar</i>	(Optional) Table for current boot variables
<i>TABLE_Startup_Bootvar</i>	(Optional) Table for boot variables on next reload
<i>Str1</i>	(Optional)
<i>current_sup_module</i>	(Optional) Current boot variable supervisor module
<i>current_image</i>	(Optional) Current image set for boot variable
<i>current_poap_status</i>	(Optional) Current status for poap
<i>start_sup_module</i>	(Optional) Next reload supervisor module
<i>start_image</i>	(Optional) Next reload boot variable
<i>start_poap_status</i>	(Optional) Next reload poap status

Command Mode

- /exec

show boot auto-copy

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

Syntax Description

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

Command Mode

- /exec

show boot auto-copy list

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

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
auto-copy	See if autocopy 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)
<i>file</i>	(Optional) file in the auto copy list

Command Mode

- /exec

show boot current

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

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
current	Show Current Bootvar Variables
<i>__readonly__</i>	(Optional)
<i>TABLE_bootvar_current</i>	(Optional) Bootvar current table
<i>TABLE_current_bootvar</i>	(Optional) Current booted image table
<i>Str1</i>	(Optional)
<i>current_sup_module</i>	(Optional) Current boot variable supervisor module
<i>current_image</i>	(Optional) Current image set for boot variable

Command Mode

- /exec

show boot mode

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

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
Str1	(Optional)
current_boot_mode	(Optional) current running boot mode
configured_boot_mode	(Optional) configured boot mode in running config

Command Mode

- /exec

show boot order

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

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
order	Show Boot Order
__readonly__	(Optional)
TABLE_bootvar_order	(Optional) Boot order table
TABLE_boot_order	(Optional) Current boot order table
<i>Str1</i>	(Optional)
<i>current_order</i>	(Optional) order of the boot location
<i>next_order</i>	(Optional) order of the boot location

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> <boot_variable> } ] }
```

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)
<i>boot_variable</i>	(Optional) available boot variable

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> [ <index> <email_conf> ] <url_info> [ <index> <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>index</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 [ <index> <email_conf> ] ]
<url_info> [ TABLE_url [ <index> <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)
<i>index</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> [ <index> <email_conf> ] <url_info> [ <index> <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>index</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> [ <index> <email_conf> ] <url_info> [ <index> <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>index</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> [ <index> <email_conf> ] <url_info> [
<index> <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>index</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
<code>from_email</code>	(Optional)
<code>reply_to_email</code>	(Optional)
<code>return_receipt_addr</code>	(Optional)
<code>smtp_server</code>	(Optional)
<code>smtp_server_port</code>	(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 [ __readonly__ { <user_configured_cmds> } [ { TABLE_user_def_cmds
<alert_group> <index> <user_defined_cmds> } ] ]
```

Syntax Description

show	Show running system information
callhome	Show callhome information
user-def-cmds	Show the cli commands configured for each alert group
<i>__readonly__</i>	(Optional)
<i>user_configured_cmds</i>	(Optional) List of user configured commands
TABLE_user_def_cmds	(Optional)
<i>index</i>	(Optional)
<i>alert_group</i>	(Optional)
<i>user_defined_cmds</i>	(Optional)

Command Mode

- /exec

show catena

```
show catena <instance-name> [ brief ] [ __readonly__ <instance_name> <state> { TABLE_chain <chain> [
TABLE_rule <seqno> <aclname> <whichconfig> [ <vlan_group> ] [ <ingress_port> ] [ <egress_port> ] [
<egress_device> ] [ <mode> ] [ <l2_lb> ] ] } ]
```

Syntax Description

show	Show running system information
catena	catena
<i>instance-name</i>	instance name
brief	(Optional) brief
<i>__readonly__</i>	(Optional) Read Only
<i>instance_name</i>	(Optional) instance_name
<i>state</i>	(Optional) status
TABLE_chain	(Optional)
<i>chain</i>	(Optional) chain
TABLE_rule	(Optional)
<i>seqno</i>	(Optional) seqno
<i>aclname</i>	(Optional) aclname
<i>whichconfig</i>	(Optional) whichconfig
<i>vlan_group</i>	(Optional) vlangrp
<i>ingress_port</i>	(Optional) ingress_portgrp
<i>egress_port</i>	(Optional) egress_portgrp
<i>egress_device</i>	(Optional) egress_device
<i>mode</i>	(Optional) mode
<i>l2_lb</i>	(Optional) L2 Load Balance

Command Mode

- /exec

show catena analytics

```
show catena analytics { per-acl { per-node | per-device-group | per-vlan-group | per-port-group | total } |
per-catena-instance <instance-name> [ per-chain [ <chain-id> ] ] } [ __readonly__ <instance_name>
<per_node> <per_node_total> <per_node_total_val> <per_intf_total_val> <per_vlan_total_val> <chain_id>
<per_device_group> <per_device_group_hdr> <per_device_group_val> <per_vlan_group>
<per_vlan_group_hdr> <per_vlan_group_val> <per_port_group> <per_port_group_val> <per_port_group_hdr>
<total_val> <stats_counter> ]
```

Syntax Description

show	Show running system information
catena	catena
analytics	show analytics for catena
per-acl	per ACL
per-node	per Node
per-device-group	per Device group
per-vlan-group	per Vlan Group
per-port-group	per EgressPort Group
total	per ACL Total
per-catena-instance	per Catena Instance
<i>instance-name</i>	Name of Catena Instance
per-chain	(Optional) per Chain
<i>chain-id</i>	(Optional) chain ID
__readonly__	(Optional) Read Only
<i>instance_name</i>	(Optional) Catena Instance name
<i>chain_id</i>	(Optional) Chain ID
<i>per_node</i>	(Optional) per Node
<i>per_node_total</i>	(Optional) per Node total
<i>per_node_total_val</i>	(Optional) per Node total val
<i>per_intf_total_val</i>	(Optional) per Intf Total val
<i>per_vlan_total_val</i>	(Optional) per Vlan total val
<i>per_device_group</i>	(Optional) per Device Group

<i>per_device_group_hdr</i>	(Optional) per Device Group Header
<i>per_device_group_val</i>	(Optional) per Device Group Val
<i>per_vlan_group</i>	(Optional) per Vlan Group
<i>per_vlan_group_val</i>	(Optional) per Vlan Group Val
<i>per_vlan_group_hdr</i>	(Optional) per Vlan Group Header
<i>per_port_group</i>	(Optional) per EgressPort Group
<i>per_port_group_val</i>	(Optional) per EgressPort Group Val
<i>per_port_group_hdr</i>	(Optional) per EgressPort Group Header
<i>total_val</i>	(Optional) per ACL total
<i>stats_counter</i>	(Optional) stats_counter

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
__readonly__	(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> } + ] ] <local_intf_mac>
<remote_intf_mac> ]
```

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
<i>local_intf_mac</i>	(Optional) Local interface MAC
<i>remote_intf_mac</i>	(Optional) Remote interface MAC

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>
<flap_cnt> ]
```

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
<i>flap_cnt</i>	(Optional) Number of PDU timeout

Command Mode

- /exec

show cdp traffic interface2 all

```
show cdp traffic interface2 all [ __readonly__ TABLE_cdp_traffic <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> <flap_cnt> ]
```

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
all	Display all interface traffic
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_cdp_traffic</i>	(Optional) output of show cdp traffic
<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 version1 packets
<i>input_v2_packets</i>	(Optional) Input version2 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 version1 packets
<i>output_v2_packets</i>	(Optional) Output version2 packets
<i>send_errors</i>	(Optional) Number of send errors
<i>flap_cnt</i>	(Optional) Number of PDU timeout

Command Mode

- /exec

show cfs application

```
show cfs application [ { name <cfs-dyn-app-name> | sap <i0> } ] [ __readonly__ [ <enabled> <timeout>
<merge_capable> <scope> <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)
<i>enabled</i>	(Optional) whether application is CFS enabled
<i>timeout</i>	(Optional) timeout
<i>merge_capable</i>	(Optional) merge_capable
<i>scope</i>	(Optional) scope
<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
<i>__readonly__</i>	(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>il</i>	(Optional) Application sap
detail2	(Optional) Show merge status by sap in detail
__readonly__	(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 status

```
show cfs status [ __readonly__ <distribution> <dist_over_ip> <ipv4_mcast_addr> <ipv6_mcast_addr>
<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)
<i>distribution</i>	(Optional) operational status of CFS distribution
<i>dist_over_ip</i>	(Optional) operational status of CFS overIP
<i>ipv4_mcast_addr</i>	(Optional) ipv4 multicast address
<i>ipv6_mcast_addr</i>	(Optional) ipv6 multicast address
<i>dist_over_eth</i>	(Optional) operations status of CFSoE

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

```
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 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> ] [ <nq-omap-key> ] [ <nq-omap-name> ] [
<nq-cos-list> ] [ <nq-qos-group-list> ] [ <protocol> ] [ <id> ] [ <xqos-or-q> [ <any_or_all> ] <omap-name-out>
[ <desc> ] [ <nq-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> ] [ <roce-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
<i>nq-omap-key</i>	(Optional) Class-map name nq: xml key
<i>nq-omap-name</i>	(Optional) Class-map xname
<i>protocol</i>	(Optional) protocol

<i>TABLE_match</i>	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
<i>cmap-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>nq-desc</i>	(Optional) Description xstring
<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>nq-cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
<i>nq-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>roce-port-list</i>	(Optional) IP ROCE 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 [ <cmmap-name-nq> ] [ __readonly__ { [ <display-all> ] [ TABLE_cmap
<cmmap-key> <xcmmap-name> [ <desc> ] [ <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>cmmap-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
TABLE_cmap	(Optional) all network-qos cmap xml sessions
<i>cmmap-key</i>	(Optional) Class-map name: xml key
<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 cli alias

```
show cli alias [ name <s0> ] [ __readonly__ { TABLE_cli_alias <alias> <name> } ]
```

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
__readonly__	(Optional)
TABLE_cli_alias	(Optional) cli alias table
alias	(Optional) alias
name	(Optional) name

Command Mode

- /exec

show cli dynamic-cmd

show cli dynamic-cmd

Syntax Description

show	Show running system information
cli	CLI commands
dynamic-cmd	Display the list of dynamic commands(cli)

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)
TABLE_dynamic_strings	(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> | has-xml-out] +

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
has-xml-out	(Optional) show
recurse	(Optional) go
detail	(Optional) formats

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 [ __readonly__ <switchname> <timestamp> [ { TABLE_variable <key> <value> } ] [ {
TABLE_session_variable <key> <value> } ] ]
```

Syntax Description

show	Show running system information
cli	Show CLI information
variables	Show CLI variables
<i>__readonly__</i>	(Optional)
<i>switchname</i>	(Optional) Switch Name
<i>timestamp</i>	(Optional) Timestamp
TABLE_variable	(Optional) Variable table
<i>key</i>	(Optional) key
<i>value</i>	(Optional) value
TABLE_session_variable	(Optional) Session variable table
<i>key</i>	(Optional) key
<i>value</i>	(Optional) value

Command Mode

- /exec

show clock

```
show clock [ detail ] [ __readonly__ { <simple_time> <time_source> [ <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>time_source</i>	(Optional) Time source
<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 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 config-replace log exec

```
show config-replace log { exec | verify } [ __readonly__ [ <log_entry> + ] ]
```

Syntax Description

show	Show running system information
config-replace	Show config-replace
log	show config-replace log
exec	show config-replace execution log
verify	show config-replace verify log
<i>__readonly__</i>	(Optional) Read only
<i>log_entry</i>	(Optional) log entry from configure replace log

Command Mode

- /exec

show config-replace status

```
show config-replace status [ __readonly__ <last_operation> [ <config_replace_type> ] [ <name> ] [
<start_time> ] [ <end_time> ] [ <operation_status> ] [ <commit_status> ] [ <commit_timeout_remaining> ]
]
```

Syntax Description

show	Show running system information
config-replace	show config-replace
status	show status of last configure replace operation
<i>__readonly__</i>	(Optional) Read only
<i>last_operation</i>	(Optional) last operation
<i>config_replace_type</i>	(Optional) config-replace 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
<i>commit_status</i>	(Optional) Commit status
<i>commit_timeout_remaining</i>	(Optional) commit timeout remaining

Command Mode

- /exec

show config-template

```
show config-template [ [ <template-name> ] [ status [ { vrf <vrf-name> } ] ] ] [ __readonly__ { TABLE_profile
<name> <refcount> <type> [ TABLE_cfg <cfg> ] [ TABLE_status <vrfname> <status> } ] ]
```

Syntax Description

show	Show running system information
config-template	config-template
<i>template-name</i>	(Optional) config-template name
status	(Optional) config-template status
vrf	(Optional) VRF referencing config-template
<i>vrf-name</i>	(Optional) config-template name
__readonly__	(Optional)
TABLE_profile	(Optional)
<i>name</i>	(Optional) config-template name
<i>refcount</i>	(Optional) Ref count of VRFs using this config-template
<i>type</i>	(Optional) config-template type
TABLE_cfg	(Optional)
<i>cfg</i>	(Optional) profile config
TABLE_status	(Optional)
<i>vrfname</i>	(Optional) profile config
<i>status</i>	(Optional) profile status

Command Mode

- /exec

show configuration session

```
show configuration session <s3> [ __readonly__ <ssn-name> [ TABLE_session_details [ <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)
TABLE_session_details	(Optional) Show session details for given name
ssn-cmd-num	(Optional)
command	(Optional)

Command Mode

- /exec

show configuration session

```
show configuration session [ __readonly__ [ TABLE_session_all <ssn-name> [ TABLE_session_all_cmd [
<ssn-cmd-num> ] [ <command> ] ] ] <activesesscnt> ]
```

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>TABLE_session_all</i>	(Optional) Show session table
<i>ssn-name</i>	(Optional)
<i>TABLE_session_all_cmd</i>	(Optional) Show session related commands
<i>ssn-cmd-num</i>	(Optional)
<i>command</i>	(Optional)
<i>activesesscnt</i>	(Optional) Number of active configuration sessions

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__ [ TABLE_session_status <ssn-name> <last-action>
<ac-status> <ac-reason> <ac-tstamp> [ <failed-cmd-num> ] [ <failed-cmd> ] [ <last-vfy-cmd-num> ] [
<last-vfy-cmd> ] [ <last-vfy-tstamp> ] [ <rollback-status> ] ] ]
```

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
TABLE_session_status	(Optional) Show session status table
ssn-name	(Optional)
last-action	(Optional) Last Action
ac-status	(Optional) Last Action Status
ac-reason	(Optional) Last Action Reason
ac-tstamp	(Optional) Last Action Timestamp
failed-cmd-num	(Optional) Failed Command Number
failed-cmd	(Optional) Failed Command
last-vfy-cmd-num	(Optional) Last Verified Command Number
last-vfy-cmd	(Optional) Last Verified Command
last-vfy-tstamp	(Optional) Last Verified Command Timestamp
rollback-status	(Optional) Rollback Status

Command Mode

- /exec

show configuration session summary

```
show configuration session summary [ __readonly__ [ TABLE_session_summary <ssn-name> <username>
<tstamp> ] [ <activesesscnt> ] ]
```

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
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_session_summary</i>	(Optional) Show session summary table
<i>ssn-name</i>	(Optional)
<i>username</i>	(Optional) Session Owner
<i>tstamp</i>	(Optional) Creation Time
<i>activesesscnt</i>	(Optional) Number of active configuration sessions

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 egress-xlate private-vlan

show consistency-checker egress-xlate private-vlan <vlan>

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
egress-xlate	Check PVLAN egress-xlate
private-vlan	Verifies private-vlan egress-xlate in the hardware
<i>vlan</i>	Enter private-vlan id

Command Mode

- /exec

show consistency-checker fex-interfaces fex

show consistency-checker fex-interfaces { fex <id> | interface <ifid> } [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
fex-interfaces	Compares software and hardware state of fex interfaces
fex	Limit display to interfaces on this fex
<i>id</i>	Enter module number
interface	Limit display to FEX interface
<i>ifid</i>	FEX interface name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker forwarding ipv6

```
show consistency-checker forwarding ipv6 [ unicast ] [ suppress-transient ] [ vrf { <vrf-name> | all_vrfs } ]
[ module { <module> | all_modules } ] [ __readonly__ [ <err_str> ] [ <cc_header> ] [ <table_id> ] [ <slot_id>
] [ <exec_time> ] [ <elapsed_time> ] [ <inconsis_adjts> ] [ TABLE_inconsistency_adjts { <idipv6> <slotipv6>
] [ <unitipv6> ] <vrfipv6> [ <ipv6addr> ] [ <ipv6prefix> ] [ <interfaceipv6> ] <reasonipv6> } ] [
<inconsis_routes> ] [ TABLE_inconsistency_routes { <idipv6> <slotipv6> [ <unitipv6> ] <vrfipv6> [
<ipv6addr> ] [ <ipv6prefix> ] [ <interfaceipv6> ] <reasonipv6> } ] [ <run_status> ] ]
```

Syntax Description

show	show
consistency-checker	Consistency Checker
forwarding	Display Forwarding Information
ipv6	ipv6
unicast	(Optional) unicast
suppress-transient	(Optional) Suppress Transient state
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
<i>__readonly__</i>	(Optional)
<i>err_str</i>	(Optional)
<i>cc_header</i>	(Optional)
<i>table_id</i>	(Optional)
<i>slot_id</i>	(Optional)
<i>exec_time</i>	(Optional)
<i>elapsed_time</i>	(Optional)
<i>inconsis_adjts</i>	(Optional)
TABLE_inconsistency_adjts	(Optional)
<i>idipv6</i>	(Optional)

<i>slotipv6</i>	(Optional)
<i>unitipv6</i>	(Optional)
<i>vripv6</i>	(Optional)
<i>interfaceipv6</i>	(Optional)
<i>reasonipv6</i>	(Optional)
<i>inconsis_routes</i>	(Optional)
TABLE_inconsistency_routes	(Optional)
<i>idipv6</i>	(Optional)
<i>slotipv6</i>	(Optional)
<i>unitipv6</i>	(Optional)
<i>vripv6</i>	(Optional)
<i>interfaceipv6</i>	(Optional)
<i>reasonipv6</i>	(Optional)
<i>run_status</i>	(Optional)

Command Mode

- /exec

show consistency-checker forwarding show forwarding inconsistency

```
show consistency-checker forwarding [ ip | ipv4 ] [ unicast ] [ suppress-transient ] [ vrf { <vrf-name> | all_vrfs
} ] [ module { <module> | all_modules } ] | show forwarding [ ip | ipv4 ] [ unicast ] inconsistency [
suppress-transient ] [ 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
suppress-transient	(Optional) Suppress Transient state
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 forwarding single-route ipv4 vrf

```
show consistency-checker forwarding single-route { ipv4 | ipv6 } <ip-prefix> vrf <vrf-name> [ brief | detail ]
```

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
forwarding	Display Forwarding Information
single-route	Run the consistency checker for a single route
ipv4	IPv4 address
ipv6	IPv6 address
<i>ip-prefix</i>	Specify an IP prefix/mask
vrf	check routes for a specific VRF
<i>vrf-name</i>	vrf name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker gwmacdb

show consistency-checker gwmacdb

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
gwmacdb	Check gateway mac table

Command Mode

- /exec

show consistency-checker hardware-telemetry inband brief

show consistency-checker hardware-telemetry inband { brief | detail }

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
hardware-telemetry	feature hardware-telemetry
inband	inband-telemetry version
brief	Show consistency checker structured output in brief
detail	Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker hardware-telemetry postcard brief

show consistency-checker hardware-telemetry postcard { brief | detail }

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
hardware-telemetry	feature hardware-telemetry
postcard	postcard-telemetry version
brief	Show consistency checker structured output in brief
detail	Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker kim

show consistency-checker kim

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
kim	Kernel Interface

Command Mode

- /exec

show consistency-checker kim interface

show consistency-checker kim { interface <ifid> } [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
kim	kernel interface
interface	Limit display to interface
<i>ifid</i>	Interface
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker l2-tahoe mac-address

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

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l2-tahoe	Verify l2 mac programming in the hardware
mac-address	MAC address
<i>mac-addr</i>	address
module	(Optional) Module to run the consistency-checker on
<i>module</i>	(Optional) 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 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> [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l2-tahoe	Verify l2 mac programming in the hardware
switchport	Switchport Interface
interface	interface
<i>if_name</i>	Physical or Logical interface
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker l2 multicast group source vlan

```
show consistency-checker l2 multicast group <grp-address> source <src-address> vlan <vlan-id> [ debug-logs ] [ brief | detail ]
```

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l2	Verify l2 mac programming in the hardware
multicast	multicast related information
group	Do consistency check for group
<i>grp-address</i>	group IP address
source	Do consistency check for source
<i>src-address</i>	source IP address
vlan	Do consistency check for vlan
<i>vlan-id</i>	vlan number
debug-logs	(Optional) dump debug logs to file on bootflash
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker l3-interface module

show consistency-checker l3-interface { module <moduleid> | interface <ifid> } [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l3-interface	Compares software and hardware properties of L3 interfaces
module	Limit display to interfaces on module
<i>moduleid</i>	Module number
interface	Limit display to interface
<i>ifid</i>	Interface name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker l3 multicast source vrf

```
show consistency-checker l3 multicast [ group { <grp-address> [ <mask> ] | <gprefix> } ] source <src-address>
vrf <vrf-string> [ debug-logs ] [ brief | detail ]
```

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l3	l3 consistency
multicast	multicast related information
group	(Optional) Do consistency check for group
<i>grp-address</i>	(Optional) group IP address
<i>mask</i>	(Optional) mask for group ip address
<i>gprefix</i>	(Optional) IPv4 Multicast Group Prefix
source	Do consistency check for source
<i>src-address</i>	source IP address
vrf	Do consistency check for vrf
<i>vrf-string</i>	Vrf string
debug-logs	(Optional) dump debug logs to file on bootflash
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker link-state fabric-ieth

show consistency-checker link-state fabric-ieth { [module <module>] } [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
link-state	Compares software and hardware link state of interfaces
fabric-ieth	Internal Fabric ports
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker link-state module

show consistency-checker link-state { module <module> | interface <ifid> } [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
link-state	Compares software and hardware link state of interfaces
module	Limit display to interfaces on module
<i>module</i>	Module number
interface	Limit display to interface
<i>ifid</i>	Interface name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker membership port-channels

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

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
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker membership vlan

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

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
native-vlan	(Optional) Check for native vlans
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker pacl extended ingress ipv6 interface

show consistency-checker pacl extended ingress ipv6 interface { <int-id> | <ch-id> } [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
pacl	Verify pacl programming in the hardware
extended	extended
ingress	ingress direction
ipv6	ipv6 protocol
interface	Interface
<i>int-id</i>	Interface
<i>ch-id</i>	Port-Channel name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker pacl extended ingress ip module

show consistency-checker pacl extended ingress ip module <module-id> [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
pacl	Verify pacl programming in the hardware
extended	extended
ingress	ingress direction
ip	ip protocol
module	Limit display to L2 interfaces on this module
<i>module-id</i>	Enter module number
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker pacl extended ingress ipv6 module

show consistency-checker pacl extended ingress ipv6 module <module-id> [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
pacl	Verify pacl programming in the hardware
extended	extended
ingress	ingress direction
ipv6	ipv6 protocol
module	Limit display to L2 interfaces on this module
<i>module-id</i>	Enter module number
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker pacl extended ingress ip interface

show consistency-checker pacl extended ingress ip interface { <int-id> | <ch-id> } [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
pacl	Verify pacl programming in the hardware
extended	extended
ingress	ingress direction
ip	ip protocol
interface	Interface
<i>int-id</i>	Interface
<i>ch-id</i>	Port-Channel name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker pacl extended ingress mac module

show consistency-checker pacl extended ingress mac module <module-id> [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
pacl	Verify pacl programming in the hardware
extended	extended
ingress	ingress direction
mac	ethernet protocol
module	Limit display to L2 interfaces on this module
<i>module-id</i>	Enter module number
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker pacl extended ingress mac interface

show consistency-checker pacl extended ingress mac interface { <int-id> | <ch-id> } [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
pacl	Verify pacl programming in the hardware
extended	extended
ingress	ingress direction
mac	ethernet protocol
interface	Interface
<i>int-id</i>	Interface
<i>ch-id</i>	Port-Channel name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

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-state

show consistency-checker port-state [{ module <module> | interface <ifid> }] [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
port-state	Validates SI, MTU and IPG Settings
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
interface	(Optional) Limit display to interface
<i>ifid</i>	(Optional) Interface name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker port-state fabric-ieth

```
show consistency-checker port-state fabric-ieth [ module <module> [ ieth-port <ieth-port> ] ] [ brief | detail ]
```

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
port-state	Validates SI, FEC and MTU Settings
fabric-ieth	Internal Fabric ports
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
ieth-port	(Optional) Enter ieth-port number
<i>ieth-port</i>	(Optional) Enter ieth-port number
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker racl extended egress ipv6 interface

```
show consistency-checker racl extended egress ipv6 interface { <int-id> | <ch-id> | <vlan-id> } [ brief | detail ]
```

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
racl	Verify racl programming in the hardware
extended	extended
egress	egress direction
ipv6	ipv6 protocol
interface	Interface
<i>int-id</i>	Interface
<i>ch-id</i>	Port-Channel name
<i>vlan-id</i>	SVI VLAN
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker racl extended egress ip interface

show consistency-checker racl extended egress ip interface { <int-id> | <ch-id> | <vlan-id> } [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
racl	Verify racl programming in the hardware
extended	extended
egress	egress direction
ip	ip protocol
interface	Interface
<i>int-id</i>	Interface
<i>ch-id</i>	Port-Channel name
<i>vlan-id</i>	SVI VLAN
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker racl extended ingress ipv6 module

show consistency-checker racl extended ingress ipv6 module <module-id> [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
racl	Verify racl programming in the hardware
extended	extended
ingress	ingress direction
ipv6	ipv6 protocol
module	Limit display to L3 interfaces on this module
<i>module-id</i>	Enter module number
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker racl extended ingress ip module

show consistency-checker racl extended ingress ip module <module-id> [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
racl	Verify racl programming in the hardware
extended	extended
ingress	ingress direction
ip	ip protocol
module	Limit display to L3 interfaces on this module
<i>module-id</i>	Enter module number
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker racl extended ingress ip interface

```
show consistency-checker racl extended ingress ip interface { <int-id> | <ch-id> | <vlan-id> } [ brief | detail ]
```

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
racl	Verify racl programming in the hardware
extended	extended
ingress	ingress direction
ip	ip protocol
interface	Interface
<i>int-id</i>	Interface
<i>ch-id</i>	Port-Channel name
<i>vlan-id</i>	SVI VLAN
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker racl extended ingress ipv6 interface

show consistency-checker racl extended ingress ipv6 interface { <int-id> | <ch-id> | <vlan-id> } [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
racl	Verify racl programming in the hardware
extended	extended
ingress	ingress direction
ipv6	ipv6 protocol
interface	Interface
<i>int-id</i>	Interface
<i>ch-id</i>	Port-Channel name
<i>vlan-id</i>	SVI VLAN
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

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 racl svi interface

show consistency-checker racl svi interface <vlan-id>

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
racl	Verify racl programming in the hardware
svi	Verifies SVI racl programming in the hardware
interface	SVI number
<i>vlan-id</i>	SVI VLAN

Command Mode

- /exec

show consistency-checker segment-routing mpls ip mask vrf

show consistency-checker segment-routing mpls ip <ip-address> mask <ip-mask> vrf <vrf-name> [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
segment-routing	Segment-routing
mpls	MPLS Information
ip	IP Information
<i>ip-address</i>	IP Address
mask	Mask Information
<i>ip-mask</i>	Subnet Mask
vrf	VRF Information
<i>vrf-name</i>	VRF Name
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker selective-qinq

show consistency-checker selective-qinq

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
selective-qinq	Selective QinQ consistency checker

Command Mode

- /exec

show consistency-checker selective-qinq interface

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

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
selective-qinq	Selective QinQ consistency checker
interface	Interface
<i>int-id</i>	Interface
<i>ch-id</i>	Port-Channel name

Command Mode

- /exec

show consistency-checker stp-state vlan

show consistency-checker stp-state vlan <vlan> [brief | detail]

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
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

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 vacl extended ingress ipv6 vlan

show consistency-checker vacl extended ingress ipv6 vlan <vlan-id> [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vacl	Verify vacl programming in the hardware
extended	extended
ingress	ingress direction
ipv6	ipv6 protocol
vlan	VLAN
<i>vlan-id</i>	vlan number
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker vACL extended ingress ip vlan

show consistency-checker vACL extended ingress ip vlan <vlan-id> [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vACL	Verify vACL programming in the hardware
extended	extended
ingress	ingress direction
ip	ip protocol
vlan	VLAN
<i>vlan-id</i>	vlan number
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker vacl extended ingress mac vlan

show consistency-checker vacl extended ingress mac vlan <vlan-id> [brief | detail]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vacl	Verify vacl programming in the hardware
extended	extended
ingress	ingress direction
mac	ethernet protocol
vlan	VLAN
<i>vlan-id</i>	vlan number
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker vpc

```
show consistency-checker vpc [ source-interface [ <int-id> | <ch-id> ] ] [ brief | detail ]
```

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vpc	vPC related information
source-interface	(Optional) Source vPC member
<i>int-id</i>	(Optional) Eth Interface
<i>ch-id</i>	(Optional) Port-Channel
brief	(Optional) Show consistency checker structured output in brief
detail	(Optional) Show consistency checker structured output in detail

Command Mode

- /exec

show consistency-checker vxlan config-check

show consistency-checker vxlan config-check [verbose-mode]

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN consistency checker
config-check	Check the inconsistencies in the config
verbose-mode	(Optional) config-check detail

Command Mode

- /exec

show consistency-checker vxlan flood_list

show consistency-checker vxlan flood_list

Syntax Description

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

Command Mode

- /exec

show consistency-checker vxlan infra

show consistency-checker vxlan infra [verbose-mode]

Syntax Description

show	Show running system information
vxlan	VxLAN consistency checker
consistency-checker	Consistency Checker
infra	infra
verbose-mode	(Optional) detailed CC output

Command Mode

- /exec

show consistency-checker vxlan l2 module

show consistency-checker vxlan l2 module <module>

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN consistency checker
l2	Check L2 inconsistencies
module	Module to run the consistency-checker on
<i>module</i>	Enter module number

Command Mode

- /exec

show consistency-checker vxlan l3 vrf start

show consistency-checker vxlan l3 vrf { <vrf-name> | all } { start-scan | report }

Syntax Description

show	Show running system information
vxlan	VxLAN consistency checker
consistency-checker	Consistency Checker
l3	l3
vrf	VRF
<i>vrf-name</i>	vrf name
all	All VRFs
start-scan	Start Route CC
report	Show Route CC report

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 consistency checker
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 consistency checker
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 pv

show consistency-checker vxlan pv

Syntax Description

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

Command Mode

- /exec

show consistency-checker vxlan qinq-qinvni

show consistency-checker vxlan qinq-qinvni

Syntax Description

show	Show running system information
vxlan	VxLAN consistency checker
consistency-checker	Consistency Checker
qinq-qinvni	QinQ consistency checker

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 consistency checker
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 consistency checker
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> | all } [verbose-mode]

Syntax Description

show	Show running system information
vxlan	VxLAN consistency checker
vlan	Verifies flood list programming for vxlan vlans
consistency-checker	Consistency Checker
<i>vlanid</i>	Enter vlan id
all	Check CC for all vxlans
verbose-mode	(Optional) detailed CC output

Command Mode

- /exec

show consistency-checker vxlan xconnect

show consistency-checker vxlan xconnect

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	VxLAN consistency checker
xconnect	Cross-Connect consistency checker

Command Mode

- /exec

show

```
show { consistency-checker l2 module <modnum> | forwarding consistency l2 <modnum> } [ __readonly__
<status> [ <l2entry> [ TABLE_mac_address
<disp_mac_addr><disp_type><disp_vlan><disp_is_static><disp_age><disp_is_secure><disp_is_ntfy><disp_port>
]] [ <l2entry_ext> [ 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
consistency-checker	Consistency Checker
forwarding	Forwarding information
consistency	consistency
l2	Verify l2 mac programming in the hardware
module	Module number
<i>modnum</i>	Module Number
__readonly__	(Optional)
<i>status</i>	(Optional) Result of Consistency Checker
<i>l2entry</i>	(Optional) L2 entry
<i>l2entry_ext</i>	(Optional) L2 entry string
TABLE_mac_address	(Optional) Mac address table

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__ { TABLE_copp prof <acl-type> {
<acl-grp-name> { TABLE_sequence <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> [ { TABLE_classmap <opt_any_or_all> [ <cmap_name>
] [ { access_grp <acc_grp_name> + } ] [ { redirect <opt_match_redirect> + } ] [ { exception <opt_match_except>
+ } ] [ { protocol <opt_match_protocol> + } ] } ] [ { TABLE_policymap [ <class-name> ] [ <pmap_name>
] [ <set_vld_flg> ] [ { cos [ inner ] <cos-val> } ] [ { dscp [ tunnel ] [ <dscp-val> } ] } ] [ { precedence [ tunnel1
] [ <prec-val> } ] } ] [ <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> ] [ <opt_drop_transmit_conform> ] [
<opt_drop_transmit_violate> ] [ { { <opt_drop_transmit_conform1> } } ] [ { 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_violate1> } ] } ] [ { set1 dscp3 dscp4 table1 pir-markdown-map } } } ] ] ] ]

```

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
acl-type	(Optional) access-list type
TABLE_copp prof	(Optional) copp profile
acl-grp-name	(Optional) name of the access-list
TABLE_sequence	(Optional) ACE RULE SYNTAX TABLE
permitdeny	(Optional) permit/deny
proto	(Optional) A protocol number
proto_str	(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
TABLE_classmap	(Optional) Class Map
<i>opt_any_or_all</i>	(Optional) Enter match-any or match-all
<i>cmap_name</i>	(Optional) Name of the class-map
access_grp	(Optional) Access Group
<i>acc_grp_name</i>	(Optional)
redirect	(Optional)
<i>opt_match_redirect</i>	(Optional) Match criteria for redirected packets
exception	(Optional)
<i>opt_match_excpt</i>	(Optional) Match criteria for exception packets
protocol	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets
TABLE_policymap	(Optional) Policy Map table
<i>class-name</i>	(Optional) Name if the policy member
<i>pmap_name</i>	(Optional) Name of the Policy-map
<i>set_vld_flg</i>	(Optional) Set valid flag
<i>cos-val</i>	(Optional) Set cos val
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional)
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
<i>opt_drop_transmit_conform</i>	(Optional) Set the action

<i>opt_drop_transmit_violate</i>	(Optional) Set the action
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional)
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
<i>opt_drop_transmit_conform1</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>policer_show_flags</i>	(Optional) Policer show flags
<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_violate1</i>	(Optional) Set the action
set1	(Optional)
dscp3	(Optional)
dscp4	(Optional)
table1	(Optional)
pir-markdown-map	(Optional)
cos	(Optional)
inner	(Optional)
dscp	(Optional)
tunnel	(Optional)
<i>dscp-val</i>	(Optional) Set dscp val

precedence	(Optional)
tunnel	(Optional)
<i>prec-val</i>	(Optional) Set prec val

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 ca trustpool

```
show crypto ca trustpool [ __readonly__ [ { TABLE_ca_trustpool <serial-number> <subject> <issued-by>
<validity-start> <validity-end> } ] ]
```

Syntax Description

show	Show running system information
crypto	show crypto information
ca	show trustpool data
trustpool	trustpool contents
<i>__readonly__</i>	(Optional)
<i>TABLE_ca_trustpool</i>	(Optional) Table of CA trustpool
<i>serial-number</i>	(Optional) Serial number
<i>subject</i>	(Optional) subject
<i>issued-by</i>	(Optional) Issued by
<i>validity-start</i>	(Optional) validity start date
<i>validity-end</i>	(Optional) validity end date

Command Mode

- /exec

show crypto ca trustpool last download status

```
show crypto ca trustpool last download status [ __readonly__ [ http_url <http_url> ] [ download_time
<download_time> ] [ trustpool_download_status <status> ] [ download_failure <reason> ] ]
```

Syntax Description

show	Show running system information
crypto	show crypto information
ca	show trustpool data
trustpool	trustpool data
last	last trustpool download status
download	download of trustpool
status	download status
<i>__readonly__</i>	(Optional)
http_url	(Optional) http url configured
<i>http_url</i>	(Optional) HTTP url
download_time	(Optional) Download time
<i>download_time</i>	(Optional) Download time
trustpool_download_status	(Optional) Status of trustpool policy download
<i>status</i>	(Optional) Download status
download_failure	(Optional) Download failure
<i>reason</i>	(Optional) Download failure reason

Command Mode

- /exec

show crypto ca trustpool policy

```
show crypto ca trustpool policy [ __readonly__ [ http_url <http_url> ] [ config_vrf [ <config_vrf> ] [ <src_intf>
] ] [ proxy_server [ <proxy_server> ] [ <proxy_server_port> ] ] ]
```

Syntax Description

show	Show running system information
crypto	show crypto information
ca	show Certificate authority related config
trustpool	show trustpool policy
policy	trustpool configuration
<i>__readonly__</i>	(Optional)
http_url	(Optional) http url configured
<i>http_url</i>	(Optional) HTTP url
config_vrf	(Optional) Configured vrf
<i>config_vrf</i>	(Optional) vrf configured
<i>src_intf</i>	(Optional) source interface for vrf
proxy_server	(Optional) Configured proxy server
<i>proxy_server</i>	(Optional) proxy server
<i>proxy_server_port</i>	(Optional) proxy server port

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
__readonly__	(Optional)
TABLE_ssh_auth_map	(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 current

show current

Syntax Description

show	Display region configurations
current	Display mst configuration currently used

Command Mode

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

 show current



D Show Commands

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show dampening interface

show dampening interface [__readonly__ { <DampenedInterfaceCount> <SuppressedInterfaceCount> }]

Syntax Description

show	Show running system information
dampening	Display dampening information
interface	Display interface dampening general information
__readonly__	(Optional)
<i>DampenedInterfaceCount</i>	(Optional) Count of interfaces configured with dampening
<i>SuppressedInterfaceCount</i>	(Optional) Count of interfaces in suppressed state

Command Mode

- /exec

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
<i>__readonly__</i>	(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 ] [ __readonly__ { TABLE_events <event_text> } ]
```

Syntax Description

show	Show running system information
diagnostic	Diagnostic commands
events	Diagnostic events
error	(Optional) Error event-type
info	(Optional) Information event-type
__readonly__	(Optional)
TABLE_events	(Optional) list of events logged
<i>event_text</i>	(Optional) Text of one event

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 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 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
<i>__readonly__</i>	(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
TABLE_interface	(Optional) show interface

Command Mode

- /exec

show dot1x

```
show dot1x [ __readonly__ <sys_auth_ctrl> <proto_ver> <mac_move> ]
```

Syntax Description

<code>dot1x</code>	dot1x configuration commands
<code>__readonly__</code>	(Optional)
<code>sys_auth_ctrl</code>	(Optional) show system auth control
<code>proto_ver</code>	(Optional) show protocol version
<code>mac_move</code>	(Optional) show mac move

Command Mode

- /exec

show dot1x all

```
show dot1x all [ __readonly__ <sys_auth_ctrl> <proto_ver> <mac_move> TABLE_all <if_index>
TABLE_allpae <pae_type> [ <port_control> ] [ <host_mode> ] [ <quiet_period> ] [ <inactivity_period> ] [
<tx_period> ] [ <max_req> ] [ <reauth> ] [ <rate_limit_period> ] [ <supp_timeout> ] [ <server_timeout> ] [
<reauth_server> ] [ <reauth_period> ] [ <reauth_max> ] [ <mac_auth_bypass> ] [ <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>mac_move</i>	(Optional) Show Mac Move
<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>inactivity_period</i>	(Optional) Show Inactivity 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> <mac_move> TABLE_alldetail <if_index>
TABLE_allpaedetail <pae_type> [ <port_control> ] [ <host_mode> ] [ <quiet_period> ] [ <inactivity_period>
] [ <tx_period> ] [ <max_req> ] [ <reauth> ] [ <rate_limit_period> ] [ <supp_timeout> ] [ <server_timeout>
] [ <reauth_server> ] [ <reauth_period> ] [ <reauth_max> ] [ <mac_auth_bypass> ] [ <no_of_clients> ] [
<port_status_no_clients> ] [ { TABLE_if_auth_clients [ <supp_mac_addr> ] [ <auth_domain> ] [
<auth_sm_state> ] [ <auth_bend_sm_state> ] [ <port_status> ] [ <authentication_method> ] [
<authenticated_by> ] [ <reauth_period_client> ] [ <reauth_action> ] [ <time_to_next_reauth> ] [ <auth_vlan>
] } ] [ <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)
TABLE_if_auth_clients	(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>mac_move</i>	(Optional) Show Mac Move
<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>inactivity_period</i>	(Optional) Show Inactivity 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>port_status_no_clients</i>	(Optional) Show Port Status if there are no clients
<i>supp_mac_addr</i>	(Optional) Show Supplicant MAC Address
<i>auth_domain</i>	(Optional) Show Supplicant Auth Domain
<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_period_client</i>	(Optional) Show Reauth Period
<i>reauth_action</i>	(Optional) Show Reauthentication Action
<i>time_to_next_reauth</i>	(Optional) Show Time to Next Reauth
<i>auth_vlan</i>	(Optional) Show Vlan
<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> ] [ <rxsuppinvalid> ] [ <rxsupplenerr> ] [
<rxsupptotal> ] [ <txstart> ] [ <txlogoff> ] [ <txresp> ] [ <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>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>txsupptotal</i>	(Optional) Show transmitted Total EAPOL Frame
<i>rxsuppversion</i>	(Optional) Show Received EAPOL Version
<i>lastrxsrcmac</i>	(Optional) Show Last Source MAC received

Command Mode

- /exec

show dot1x all summary

```
show dot1x all summary [ __readonly__ TABLE_allsummary <if_index> <pae_type> [
<port_status_no_clients> ] [ { TABLE_if_auth_clients [ <auth_mac_addr> ] [ <port_status> } ] ]
```

Syntax Description

dot1x	dot1x configuration commands
all	Show information for all interfaces
summary	802.1x summary
__readonly__	(Optional)
TABLE_allsummary	(Optional)
TABLE_if_auth_clients	(Optional)
<i>if_index</i>	(Optional) Interface Index
<i>pae_type</i>	(Optional) Show PAE Type
<i>auth_mac_addr</i>	(Optional) Show Authenticator MAC Address
<i>port_status_no_clients</i>	(Optional) Show Port Status if there are no clients
<i>port_status</i>	(Optional) Show Port Status

Command Mode

- /exec

show dot1x interface

```
{ show dot1x interface <if> [ __readonly__ <if_index> <pae_type> [ <port_control> ] [ <host_mode> ] [
<quiet_period> ] [ <inactivity_period> ] [ <tx_period> ] [ <max_req> ] [ <reauth> ] [ <rate_limit_period> ]
[ <supp_timeout> ] [ <server_timeout> ] [ <reauth_server> ] [ <reauth_period> ] [ <reauth_max> ] [
<mac_auth_bypass> ] [ <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> ] [ <quiet_period_detail> ] [ <inactivity_period_detail> ] [ <tx_period_detail> ] [
<max_req_detail> ] [ <reauth_detail> ] [ <rate_limit_period_detail> ] [ <supp_timeout_detail> ] [
<server_timeout_detail> ] [ <reauth_server_detail> ] [ <reauth_period_detail> ] [ <reauth_max_detail> ] [
<mac_auth_bypass_detail> ] [ <no_of_clients> ] [ <port_status_no_clients_detail> ] [ {
TABLE_if_auth_clients_detail [ <supp_mac_addr_detail> ] [ <auth_domain> ] [ <auth_sm_state> ] [
<auth_bend_sm_state> ] [ <port_status> ] [ <authentication_method> ] [ <authenticated_by> ] [
<reauth_period_client> ] [ <reauth_action> ] [ <time_to_next_reauth> ] [ <auth_vlan> ] } ] [
<start_period_detail> ] [ <auth_period_detail> ] [ <held_period_detail> ] [ <max_start_detail> ] [
<no_of_supp_clients> ] [ <auth_mac_addr_detail> ] [ <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> ] [ <rxlenerr> ] [ <rxtotal> ] [ <txreq> ]
[ <txreqid> ] [ <txtotal> ] [ <rxversion> ] [ <lastrxsourcemac> ] [ <rxreq> ] [ <rxsuppinvalid> ] [ <rxsupplennr>
] [ <rxsupptotal> ] [ <txstart> ] [ <txlogoff> ] [ <txresp> ] [ <txsupptotal> ] [ <rxsuppversion> ] [ <lastrxsrmac>
] ] } | { show dot1x interface <if> summary [ __readonly__ <if_index_summary> <pae_type_summary> [
<port_status_no_clients_summary> ] [ { TABLE_if_auth_clients_summary [ <auth_mac_addr> ] [
<port_status_summary> ] } ] [ <supp_mac_addr> ] [ <supp_port_status_summary> ] ] }
```

Syntax Description

dot1x	dot1x configuration commands
<i>if</i>	
details	802.1x details
statistics	802.1x statistics
summary	802.1x summary
TABLE_if_auth_clients_detail	(Optional)
TABLE_if_auth_clients_summary	(Optional)
__readonly__	(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>inactivity_period</i>	(Optional) Show Inactivity 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>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>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>inactivity_period_detail</i>	(Optional) Show Inactivity 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>port_status_no_clients_detail</i>	(Optional) Show Port Status if there are no clients
<i>supp_mac_addr_detail</i>	(Optional) Show Supplicant MAC Address
<i>auth_domain</i>	(Optional) Show Supplicant Auth Domain
<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_period_client</i>	(Optional) Show Reauth Period
<i>reauth_action</i>	(Optional) Show Reauthentication Action
<i>time_to_next_reauth</i>	(Optional) Show Time to Next Reauth
<i>auth_vlan</i>	(Optional) Show vlan
<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_detail</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
<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>rxreq</i>	(Optional) Show Received EAP-Request
<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>txsupptotal</i>	(Optional) Show transmitted Total EAPOL Frame
<i>rxsuppversion</i>	(Optional) Show Received EAPOL Version
<i>lastrxsrmac</i>	(Optional) Show Last Source MAC received
<i>pae_type_summary</i>	(Optional) Show PAE Type
<i>port_status_no_clients_summary</i>	(Optional) Show Port Status if there are no clients
<i>port_status_summary</i>	(Optional) Show Port Status
<i>supp_port_status_summary</i>	(Optional) Show Port Status
<i>supp_mac_addr</i>	(Optional) Show Supplicant Client MAC Address
<i>auth_mac_addr</i>	(Optional) Show Auth Client MAC Address

Command Mode

- /exec

show dot1x interface client statistics

```
show dot1x interface <if> client statistics [ __readonly__ <if_index_stat> <pae_type_stat> [ {
TABLE_mac_address [ <macaddr> ] [ <rxstart> ] [ <rxlogoff> ] [ <rxresp> ] [ <rxrespid> ] [ <rxinvalid> ] [
<rxlenerr> ] [ <rxtotal> ] [ <txreq> ] [ <txreqid> ] [ <txtotal> ] [ <rxversion> ] [ <lastrxsourcemac> ] } ] [
<spurious_rxstart> ] [ <spurious_rxlogoff> ] [ <spurious_rxresp> ] [ <spurious_rxrespid> ] [
<spurious_rxinvalid> ] [ <spurious_rxlenerr> ] [ <spurious_rxtotal> ] [ <spurious_txreq> ] [ <spurious_txreqid>
] [ <spurious_txtotal> ] [ <spurious_rxversion> ] [ <spurious_lastrxsourcemac> ] ]
```

Syntax Description

dot1x	dot1x configuration commands
<i>if</i>	
client	802.1x client
statistics	802.1x statistics
<i>__readonly__</i>	(Optional)
TABLE_mac_address	(Optional)
<i>if_index_stat</i>	(Optional) Interface Index
<i>pae_type_stat</i>	(Optional) Show PAE Type
<i>macaddr</i>	(Optional) mac-address of the client
<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>spurious_rxstart</i>	(Optional) Show Received EAPOL-Start of spurious macs

<i>spurious_rxlogoff</i>	(Optional) Show Received EAPOL-Logoff of spurious macs
<i>spurious_rxresp</i>	(Optional) Show Received EAP-Response of spurious macs
<i>spurious_rxrespid</i>	(Optional) Show Received EAP-ResponseID of spurious macs
<i>spurious_rxinvalid</i>	(Optional) Show Received Invalid EAPOL Frame of spurious macs
<i>spurious_rxlennerr</i>	(Optional) Show Received EAPOL Bad Length Frame of spurious macs
<i>spurious_rxtotal</i>	(Optional) Show Received Total EAPOL Frame of spurious macs
<i>spurious_txreq</i>	(Optional) Show Transmitted EAP-Request of spurious macs
<i>spurious_txreqid</i>	(Optional) Show Transmitted EAP-RequestID of spurious macs
<i>spurious_txtotal</i>	(Optional) Show Transmitted Total EAPOL Frame of spurious macs
<i>spurious_rxversion</i>	(Optional) Show Received EAPOL Version of spurious macs
<i>spurious_lastrxsourcemac</i>	(Optional) Show Last Source MAC of spurious macs

Command Mode

- /exec

show dot1x interface client statistics address

```
show dot1x interface <if> client statistics address <mac-address> [ __readonly__ <if_index_stat>
<pae_type_stat> [<rxstart> ][<rxlogoff> ][<rxresp> ][<rxrespid> ][<rxinvalid> ][<rxlenerr> ][<rxtotal>
][<txreq> ][<txreqid> ][<txtotal> ][<rxversion> ][<lastrxsourcemac> ]]
```

Syntax Description

dot1x	dot1x configuration commands
<i>if</i>	
client	802.1x client
statistics	802.1x statistics
address	802.1x client address
<i>mac-address</i>	mac address EE:EE:EE:EE:EE:EE
<i>__readonly__</i>	(Optional)
<i>if_index_stat</i>	(Optional) Interface Index
<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

Command Mode

- /exec



E Show Commands

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show ecp

```
show ecp [ detail ] [ __readonly__ <ecp_rte> <ecp_retries> [ <ecp_mode> ] <ecp_cnt_rx_pkt>
<ecp_cnt_tx_pkt> [ { TABLE_ecp_plugin <plugin_id> <plugin_desc> <plugin_status> } ] [ {
TABLE_ecp_session <session_id> <session_interface> <session_svlan> [ <session_peer_mac> ]
<session_rx_seq> <session_tx_seq> [ <session_cnt_rx_pkt> ] [ <session_cnt_rx_dup> ] [
<session_cnt_rx_drop> ] [ <session_cnt_tx_pkt> ] [ <session_cnt_tx_retry> ] [ <session_cnt_tx_err> ] } ] ]
```

Syntax Description

show	Show running system information
ecp	ECP (Edge Control Protocol)
detail	(Optional) Detailed information
__readonly__	(Optional)
<i>ecp_rte</i>	(Optional) Retransmission timer init exponent
<i>ecp_retries</i>	(Optional) Maximal number of retransmissions
<i>ecp_mode</i>	(Optional) ECP mode
<i>ecp_cnt_rx_pkt</i>	(Optional) No. received packet
<i>ecp_cnt_tx_pkt</i>	(Optional) No. transmitted packet
TABLE_ecp_plugin	(Optional) ECP plugin table
<i>plugin_id</i>	(Optional) Plugin id
<i>plugin_desc</i>	(Optional) Plugin description
<i>plugin_status</i>	(Optional) Plugin status
TABLE_ecp_session	(Optional) ECP session table
<i>session_id</i>	(Optional) Session id
<i>session_svlan</i>	(Optional) S-Vlan
<i>session_peer_mac</i>	(Optional) Peer mac
<i>session_interface</i>	(Optional) Interface
<i>session_rx_seq</i>	(Optional) Receive sequence
<i>session_tx_seq</i>	(Optional) Transmit sequence
<i>session_cnt_rx_pkt</i>	(Optional) No. receive packet
<i>session_cnt_rx_dup</i>	(Optional) No. receive duplicate
<i>session_cnt_rx_drop</i>	(Optional) No. receive drop

<i>session_cnt_tx_pkt</i>	(Optional) No. transmit packet
<i>session_cnt_tx_retry</i>	(Optional) No. transmit retry
<i>session_cnt_tx_err</i>	(Optional) No. transmit error

Command Mode

- /exec

show elam report

show elam report [l2 | l3 | l4 | aclqos | mcast | mpls]

Syntax Description

show	Show running system information
elam	elam
report	Show ELAM report
l2	(Optional) Layer 2 header report
l3	(Optional) Layer 3 header report
l4	(Optional) Layer 4 header report
aclqos	(Optional) Aclqos report
mcast	(Optional) Multicast report
mpls	(Optional) MPLS report

Command Mode

- /exec/elamtah/outsel2

show email

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

Syntax Description

show	Show running system information
email	Pipe email configuration
<i>__readonly__</i>	(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 [ { TABLE_faninfo <fanname> <fanmodel> <fanhwver> <fandir>
<fanstatus> } ] { TABLE_fan_zone_speed <zone> <zonespeed> } <fan_filter_status> [ { TABLE_fantray
<fanname> <trayfannum> <fandir> <fanperc> <fanrpm> } ] [ { TABLE_psufan <fanname> <fan1rpm>
<fan2rpm> } ] ] [ { powersup [ <voltage_level> ] [ { TABLE_psinfo <psnum> <psmodel> [ <actual_out>
] [ <actual_input> ] [ <tot_capa> ] [ <input_type> ] [ <watts> ] [ <amps> ] [ <ps_status> ] [ <ps_status_3k>
] ] ] [ { TABLE_mod_pow_info <modnum> <mod_model> [ <actual_draw> ] [ <allocated> ] [
<watts_requested> ] [ <amps_requested> ] [ <watts_allocated> ] [ <amps_allocated> ] [ <modstatus> ] [
<modstatus_3k> ] ] ] [ { power_summary [ <ps_redun_mode> ] [ <ps_redun_mode_3k> ] [ <ps_oper_mode>
] [ <ps_redun_op_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> ] [ <reserve_sup> ] [ <pow_used_by_mods> ] <available_pow> } ] [ {
powersup_detail <reserve_sup> <reserve_xbar> <reserve_fan> <reserve_supxbarfan> <pow_used_by_mods>
} ] [ <all_inlets_connected> ] [ { TABLE_ps_detail_info <det_name> <det_total_cap> <det_volt> <det_pintot>
[ <det_pina> ] <det_vin> <det_iin> <det_pout> <det_vout> <det_iout> [ <det_pinb> ] [ <det_iinb> ] [
<det_vinb> ] [ <det_cord> ] <det_sw_alarm> [ { TABLE_det_hw_alarm_regval <regnum> <regval> } ] [ {
TABLE_det_hw_alarm_str <regnumstr> <bitnumstr> <alarm_str> } ] ] ] [ { TABLE_psinpinfo_n3k
<ps_slot> <ps_input_voltage> <ps_input_current> <ps_in_power> [ <ps_output_voltage> ] [
<ps_output_current> ] <ps_state> } ] ] [ { fandetails_3k [ { TABLE_faninfo <fanname> <fanmodel>
<fanhwver> <fandir> <fanstatus> } ] { TABLE_fan_zone_speed <zone> <speed> } <fan_filter_status> [ {
TABLE_fantray <fanname> <fannum> <fandir> <fanperc> <fanrpm> } ] ] [ { TABLE_psufan <fanname>
<fan1rpm> <fan2rpm> } ] ] [ { TABLE_tempinfo <tempmod> <sensor> <majthres> <minthres> <curtemp>
<alarmstatus> [ <temptype> } ] ] [ { 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
<i>__readonly__</i>	(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
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>zonespeed</i>	(Optional) Zone Speed
<i>fan_filter_status</i>	(Optional) Present/Absent Status of fan filter
TABLE_fantray	(Optional) Fan Tray Details table
<i>fanname</i>	(Optional) Fan Tray Instance
<i>trayfannum</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
<i>fanetails_3k</i>	(Optional) Environment Fan
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>fan_filter_status</i>	(Optional) Present/Absent Status of fan filter
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
<i>powersup</i>	(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>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
<i>ps_status_3k</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>watts_requested</i>	(Optional) Power requested in Watts
<i>amps_requested</i>	(Optional) Power requested in Amps
<i>watts_alloted</i>	(Optional) Power allocated in Watts
<i>amps_alloted</i>	(Optional) Power allocated in Amps
<i>modstatus</i>	(Optional) Module Status
<i>modstatus_3k</i>	(Optional) Module status
<i>power_summary</i>	(Optional) Power Usage Summary
<i>ps_redun_mode</i>	(Optional) Mode: Redundant or Non-redundant
<i>ps_redun_mode_3k</i>	(Optional) Mode: Redundant or Non-redundant
<i>ps_redun_op_mode</i>	(Optional) Operational 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>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) Remaining Power Available
<i>powersup_detail</i>	(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
<i>all_inlets_connected</i>	(Optional) Are all inlet cords connected
TABLE_ps_detail_info	(Optional) Power supply detail information
<i>det_name</i>	(Optional) Power supply name
<i>det_total_cap</i>	(Optional) Power supply total capacity
<i>det_volt</i>	(Optional) Power supply voltage
<i>det_pintot</i>	(Optional) Power supply pin A total power
<i>det_pina</i>	(Optional) PS pin A
<i>det_vin</i>	(Optional) PS Vin
<i>det_iin</i>	(Optional) PS Iin
<i>det_pout</i>	(Optional) PS Power out
<i>det_vout</i>	(Optional) PS voltaget out
<i>det_iout</i>	(Optional) PS current in
<i>det_pinb</i>	(Optional) PS pin B
<i>det_iinb</i>	(Optional) PS Iin B
<i>det_vinb</i>	(Optional) PS Vin B
<i>det_cord</i>	(Optional) PS cord
<i>det_sw_alarm</i>	(Optional) PS software alarm
TABLE_det_hw_alarm_regval	(Optional) PS hardware alarm
<i>regnum</i>	(Optional) HW alarm register

<i>regval</i>	(Optional) Alarm reg value
TABLE_det_hw_alarm_str	(Optional) PS Hardware alarm string
<i>regnumstr</i>	(Optional) Alarm reg number
<i>bitnumstr</i>	(Optional) Alarm register bit
<i>alarm_str</i>	(Optional) Alarm cause
TABLE_psinputinfo_n3k	(Optional) Power Supply power input
<i>ps_slot</i>	(Optional) Power Supply Number
<i>ps_input_voltage</i>	(Optional) Power Supply input volatage
<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 volatage
<i>ps_output_current</i>	(Optional) Power Supply output current
<i>ps_state</i>	(Optional) Power Supply status
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
<i>temptype</i>	(Optional) Control or Monitor temperature
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

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)
__readonly__	(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 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
__readonly__	(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 reaon
<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 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
<i>__readonly__</i>	(Optional)
<i>environment-details</i>	(Optional) Show information about environment variables

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) Module Id
__readonly__	(Optional)
<i>event-types</i>	(Optional) Show information about registered event types

Command Mode

- /exec

show event manager events action-log

```
show event manager events action-log [ policy <policy-name> | event-type <event-type-name> ] [ __readonly__
{ <action-log-data> } ]
```

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
__readonly__	(Optional)
<i>action-log-data</i>	(Optional) Show information about the policy action logs

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 >= specified severity
<i>sev</i>	(Optional) Enter the severity threshold
__readonly__	(Optional)
<i>history-events</i>	(Optional) Show information about the history of past events

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) Module Id
__readonly__	(Optional)
<i>policy-state</i>	(Optional) Show information about the state of a policy

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) Show Information about system script policies

Command Mode

- /exec

show event manager system-policy

```
show event manager system-policy [ all | <policy-name> ] [ __readonly__ { [ TABLE_eem [ <thresh_min> ] [ <thresh_max> ] <event_name> <event_description> <event_overridable> ] } ]
```

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)
TABLE_eem	(Optional)
<i>thresh_min</i>	(Optional)
<i>thresh_max</i>	(Optional)
<i>event_name</i>	(Optional)
<i>event_description</i>	(Optional)
<i>event_overridable</i>	(Optional)

Command Mode

- /exec



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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 <packet_arrival_time> <sent_to_database_manager_at>
<received_parameters_from_database_manager_at> <sent_apply_to_configuration_manager_at>
<completed_executing_all_commands_at> <sent_un_apply_to_configuration_manager_at>
<completed_unapplying_all_commands_at> ] ]
```

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
<i>__readonly__</i>	(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>packet_arrival_time</i>	(Optional) Profile request time
<i>sent_to_database_manager_at</i>	(Optional) Profile request sent to DCNM
<i>received_parameters_from_database_manager_at</i>	(Optional) Profile downloaded from DCNM
<i>sent_apply_to_configuration_manager_at</i>	(Optional) Profile sent to PPM to apply

<i>completed_executing_all_commands_at</i>	(Optional) Profile applied by PPM
<i>sent_un_apply_to_configuration_manager_at</i>	(Optional) Profile un-apply sent to PPM
<i>completed_unapplying_all_commands_at</i>	(Optional) Profile un-applied by PPM

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_client_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> ] [ <client> ] [ <host> ] } } ] [ 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 hosts and interfaces
vni	(Optional) Virtual Network Identifier
vni-id	(Optional)
dot1q	(Optional) Dot1Q Encapsulation
vlan-id	(Optional)
__readonly__	(Optional) Read Only
TABLE_database_host	(Optional) table show fabric database host {dot1q vni}
trigger_source	(Optional) TODO
client_type	(Optional) TODO

<i>got_trigger_at</i>	(Optional) TODO
<i>number_of_client_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
<i>client</i>	(Optional) TODO
<i>host</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 statistics

```
show fabric database host statistics [ __readonly__ [ TABLE_database_host_statistics { [ <data_snoop_triggers>
] [ <data_snoop_deletes> ] [ <data_snoop_responses> ] [ <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> ] [ <adbm_db_notifications> ] [ <vnseg_no_bridge_domain> ] [
<vnseg_encap_responses> ] [ <vnseg_vni_responses> ] [ <vnseg_unknown_responses> ] [
<vnseg_bd_down_notif> ] [ <bd_mgr_requests> ] [ <bd_mgr_success_responses> ] [
<bd_mgr_failure_responses> ] [ <bd_mgr_unreserve> ] [ <bd_mgr_inconsistencies> ] [ <no_mac_on_bd_notif>
] [ <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> ] [ <node_recon_pending> ] [
<node_recon_attempts> ] [ <node_recon_failures> ] } ] ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
host	Auto-configured Hosts
statistics	Statistics - Mostly shows non-zero values
<u>__readonly__</u>	(Optional) Read Only
TABLE_database_host_statistics	(Optional) table show fabric database host statistics
<i>data_snoop_triggers</i>	(Optional) TODO
<i>data_snoop_deletes</i>	(Optional) TODO
<i>data_snoop_responses</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>adbm_db_notifications</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>bd_mgr_requests</i>	(Optional) TODO
<i>bd_mgr_success_responses</i>	(Optional) TODO
<i>bd_mgr_failure_responses</i>	(Optional) TODO
<i>bd_mgr_unreserve</i>	(Optional) TODO
<i>bd_mgr_inconsistencies</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
<i>node_recon_pending</i>	(Optional) TODO
<i>node_recon_attempts</i>	(Optional) TODO
<i>node_recon_failures</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_client_hosts> <recovery_timeout_minute>
<cleanup_timeout_minute> <client_add_suppression_timeout_minute> <mac_aging_timeout_minute>
<autoid_support> } ] ]
```

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_client_hosts</i>	(Optional) TODO
<i>recovery_timeout_minute</i>	(Optional) TODO
<i>cleanup_timeout_minute</i>	(Optional) TODO
<i>client_add_suppression_timeout_minute</i>	(Optional) TODO
<i>mac_aging_timeout_minute</i>	(Optional) TODO
<i>autoid_support</i>	(Optional) List of supported auto-generate ids

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 static-host

```
show fabric database static-host [ __readonly__ { TABLE_database_static_host <host_key> <interface>
<state> <retry_delay> <retry_attempts> } ]
```

Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
static-host	Configured Static Hosts
__readonly__	(Optional) Read Only
TABLE_database_static_host	(Optional) table show fabric database static-host
host_key	(Optional) static-host key
interface	(Optional) interface name
state	(Optional) static-host state
retry_delay	(Optional) seconds until next retry
retry_attempts	(Optional) cumulative retry attempts

Command Mode

- /exec

show fabric database statistics

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

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
host	(Optional) Host
__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
LastPollTime	(Optional) last poll time
<i>poll_time</i>	(Optional) poll time
LastUpdateTime	(Optional) last update time for db status change
<i>update_time</i>	(Optional) update time
TABLE_updates	(Optional) totals ty type
<i>update_type</i>	(Optional) db type
<i>update_status</i>	(Optional) db status

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> <aggregate_subnet_prefix_state> ] ] [ TABLE_ipv6
<address_family> <vrf> <table_id> <table_state> <refcount> <local_hosts> <remote_hosts> <aggregates>
[ TABLE_aggregate_list <aggregate_subnet_prefix_list> <aggregate_subnet_prefix_state> ] ] ] ] ]
```

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
<i>aggregate_subnet_prefix_state</i>	(Optional) TODO

Command Mode

- /exec

show fabric forwarding ip local

```
show fabric forwarding ip { local-host-db [ { 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> } } ] ]
```

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
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

Command Mode

- /exec

show fabric forwarding ipv6 local

```
show fabric forwarding ipv6 { local-host-db [ { 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> } } ] ]
```

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
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

Command Mode

- /exec

show fabric multicast

```
show fabric multicast { ipv4 { mroute [ { <v4_group> [ <v4_source> ] } ] | ssm-range | rp-grange | sa-ad-route
[ { <v4_group> [ <v4_source> ] } ] } | ipv6 { mroute [ { <v6_group> [ <v6_source> ] } ] | ssm-range | rp-grange
| sa-ad-route [ { <v4_group> [ <v4_source> ] } ] } } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_vrf <context_name> <nlri_type> <vnid> [ TABLE_mroute <mroute> <mroute_uptime>
{ TABLE_node <node_addr> <core-interest> <fabric-interest> <node_uptime> <real_join> <sim_join>
<rpf_nbr> } ] [ TABLE_rp <border_leaf_addr> { TABLE_rp_grange <rp_grange_desc> } ] [ TABLE_ssm
<border_leaf_addr> { TABLE_ssm_range <ssm_range_desc> } ] [ TABLE_sa_ad_route <sa_ad_desc>
<sa_ad_route_uptime> [ TABLE_intrstd_node <intrstd_node_addrs> <intrstd_node_uptime> ] ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
ipv4	Display IP information
ipv6	Display IPv6 information
mroute	display fabric mroutes
sa-ad-route	display Src Active AD routes
ssm-range	display SSM ranges
rp-grange	display RP granges
<i>v4_group</i>	(Optional) IPV4 Group address to display
<i>v4_source</i>	(Optional) IPV4 Source 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 all VRFs NGMVPN is aware of
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>context_name</i>	(Optional)
<i>nlri_type</i>	(Optional)
<i>vnid</i>	(Optional)
TABLE_mroute	(Optional)

<i>mroute</i>	(Optional)
<i>mroute_uptime</i>	(Optional)
TABLE_node	(Optional)
<i>node_addr</i>	(Optional)
<i>core-interest</i>	(Optional)
<i>fabric-interest</i>	(Optional)
<i>node_uptime</i>	(Optional)
<i>real_join</i>	(Optional)
<i>sim_join</i>	(Optional)
<i>rpf_nbr</i>	(Optional)
TABLE_rp	(Optional)
<i>border_leaf_addr</i>	(Optional)
TABLE_rp_grange	(Optional)
<i>rp_grange_desc</i>	(Optional)
TABLE_ssm	(Optional)
<i>border_leaf_addr</i>	(Optional)
TABLE_ssm_range	(Optional)
<i>ssm_range_desc</i>	(Optional)
TABLE_sa_ad_route	(Optional)
<i>sa_ad_desc</i>	(Optional)
<i>sa_ad_route_uptime</i>	(Optional)
TABLE_intrstd_node	(Optional)
<i>intrstd_node_addrs</i>	(Optional)
<i>intrstd_node_uptime</i>	(Optional)

Command Mode

- /exec

show fabric multicast event-history

```
show fabric multicast [ internal ] event-history { errors | msgs | <ngmvpn-event-hist-buf-name> | statistics }
```

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
internal	(Optional) Commands for internal use
event-history	Show various event logs of NGMVPN
errors	Show error logs of NGMVPN
msgs	Show various message logs of NGMVPN
<i>ngmvpn-event-hist-buf-name</i>	Show event hist buffer name
statistics	Show the state and size of the buffer

Command Mode

- /exec

show fabric multicast globals

```
show fabric multicast globals [ __readonly__ <pruning> <switch_role> <fabric_control_seg>
<peer_fabric_ctrl_addr> <advertise_vpc_rpf_routes> <created_vni_list> <fwd_encap> <mrrib_sync_delay>
<bgp_eor_rcvd> <bgp_eor_rcvd_ts> <cli_done_rcvd> <cli_done_rcvd_ts> ]
```

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
globals	show the global settings
<i>__readonly__</i>	(Optional)
<i>pruning</i>	(Optional)
<i>switch_role</i>	(Optional)
<i>fabric_control_seg</i>	(Optional)
<i>peer_fabric_ctrl_addr</i>	(Optional)
<i>advertise_vpc_rpf_routes</i>	(Optional)
<i>created_vni_list</i>	(Optional)
<i>fwd_encap</i>	(Optional)
<i>mrrib_sync_delay</i>	(Optional)
<i>bgp_eor_rcvd</i>	(Optional)
<i>bgp_eor_rcvd_ts</i>	(Optional)
<i>cli_done_rcvd</i>	(Optional)
<i>cli_done_rcvd_ts</i>	(Optional)

Command Mode

- /exec

show fabric multicast ipv4 l2 vni

```
show fabric multicast { ipv4 | ipv6 } { l2-mroute } vni { <vni-id> | all } [ __readonly__ TABLE_vni <vnid>
[ TABLE_mroute <mroute_desc> [ TABLE_fabric <fabric_node_addr> ] ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
ipv4	Display IP information
ipv6	Display IPv6 information
l2-mroute	display l2-mroute status
vni	Virtual Network Identifier
<i>vni-id</i>	VNI number
all	Display all L2 VNI NGMVPN is aware of
__readonly__	(Optional)
TABLE_vni	(Optional)
<i>vnid</i>	(Optional)
TABLE_mroute	(Optional)
<i>mroute_desc</i>	(Optional)
TABLE_fabric	(Optional)
<i>fabric_node_addr</i>	(Optional)

Command Mode

- /exec

show fabric multicast ipv4 rp

show fabric multicast { ipv4 | ipv6 } { rp-route } [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
ipv4	Display IP information
ipv6	Display IPv6 information
rp-route	display fabric rp-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 all VRFs NGMVPN is aware of

Command Mode

- /exec

show fabric multicast statistics

show fabric multicast [internal] statistics

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
internal	(Optional) Commands for internal use
statistics	Show the state and size of the buffer

Command Mode

- /exec

show fabric multicast vrf

```
show fabric multicast vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_vrf
<context_name><context_id><vprime_iod><vnid> } ]
```

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
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 NGMVPN is aware of
__readonly__	(Optional)
TABLE_vrf	(Optional)

Command Mode

- /exec

show fc2 bind

```
show fc2 bind [ __readonly__ { TABLE_fc2bind <SOCKET> <FLAGS> <NLEVEL> <RULE> <SINDEX>
<VSAN> <D_ID> <MASK> <TYPE> <SUBTYPE> <M_VALUES> } ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
bind	show fc2 socket bindings
__readonly__	(Optional) Read only
TABLE_fc2bind	(Optional) show fc2 bind
<i>SOCKET</i>	(Optional) socket
<i>FLAGS</i>	(Optional) flags
<i>NLEVEL</i>	(Optional) nlevel
<i>RULE</i>	(Optional) rule
<i>SINDEX</i>	(Optional) sidnex
<i>VSAN</i>	(Optional) vsan
<i>D_ID</i>	(Optional) d_id
<i>MASK</i>	(Optional) mask
<i>TYPE</i>	(Optional) type
<i>SUBTYPE</i>	(Optional) subtype
<i>M_VALUES</i>	(Optional) m_values

Command Mode

- /exec

show fc2 classf

```
show fc2 classf [ __readonly__ { TABLE_fc2classf <HIX> <VSAN> <S_ID> <D_ID> <IFIDX> <R_A_TOV>
<E_D_TOV> <F-SO> <RC> <RS> <CS> <EE> <2-SO> <RS> <3-SO> <RS> <EECNT> <TCCNT> <FCNT>
<REFCNT> } ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
classf	show fc2 classf sessions
__readonly__	(Optional) Read only
TABLE_fc2classf	(Optional) show fc2 classf
HIX	(Optional) hix
VSAN	(Optional) vsan
S_ID	(Optional) sid
D_ID	(Optional) did
IFIDX	(Optional) ifidx
R_A_TOV	(Optional) r_a_tov
E_D_TOV	(Optional) e_d_tov
F-SO	(Optional) f-so
RC	(Optional) rc
RS	(Optional) rs
CS	(Optional) cs
EE	(Optional) ee
2-SO	(Optional) 2-so
RS	(Optional) rs
3-SO	(Optional) 3-so
RS	(Optional) rs
EECNT	(Optional) eecnt
TCCNT	(Optional) tcnt
FCNT	(Optional) fcnt

<i>REFCNT</i>	(Optional) refcnt
---------------	-------------------

Command Mode

- /exec

show fc2 exchange

```
show fc2 exchange [ __readonly__ { TABLE_ExchngInfo [ <ECB_INUSE> ] [ <ECB_DROPPED> ] [
<ECB_TOTAL> ] [ <ECB_MAX> ] } [ TABLE_fc2exchange <HIX> <VSAN> <X_ID> <OX_ID> <RX_ID>
<O_ID> <R_ID> <ESTAT> <STATE> <SOCKET> <DIFINDEX> <CS> <TYPE> <SEQID> <TCNT>
<RCNT> <LO> <HI> <SSTAT> <LOGIN> ] ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
exchange	show fc2 active exchanges
<i>__readonly__</i>	(Optional) Read only
TABLE_ExchngInfo	(Optional) ecb info
<i>ECB_INUSE</i>	(Optional) ecb in use
<i>ECB_DROPPED</i>	(Optional) ecb dropped
<i>ECB_TOTAL</i>	(Optional) ecb total
<i>ECB_MAX</i>	(Optional) ecb threshold
TABLE_fc2exchange	(Optional) show fc2 exchange
<i>HIX</i>	(Optional) hix
<i>VSAN</i>	(Optional) vsan
<i>X_ID</i>	(Optional) xid
<i>OX_ID</i>	(Optional) oxid
<i>RX_ID</i>	(Optional) rxid
<i>O_ID</i>	(Optional) o_id
<i>R_ID</i>	(Optional) r_id
<i>ESTAT</i>	(Optional) estat
<i>STATE</i>	(Optional) state
<i>SOCKET</i>	(Optional) socket
<i>DIFINDEX</i>	(Optional) dIFINDEX
<i>CS</i>	(Optional) cs
<i>TYPE</i>	(Optional) type

<i>SEQID</i>	(Optional) seqid
<i>TCNT</i>	(Optional) tcnt
<i>RCNT</i>	(Optional) rcnt
<i>LO</i>	(Optional) lo
<i>HI</i>	(Optional) hi
<i>SSTAT</i>	(Optional) sstat
<i>LOGIN</i>	(Optional) login

Command Mode

- /exec

show fc2 exchresp

```
show fc2 exchresp [ __readonly__ { TABLE_fc2exchresp <HIX> <VSAN> <OX_ID> <S_ID> <CS>
<SIFINDEX> <OX_ID2> <RX_ID2> <O_ID> <R_ID> <ESTAT> <STATE> <SOCKET> <TYPE> <SEQID>
<TCNT> <RCNT> <LO> <HI> <SSTAT> } ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
exchresp	show fc2 active responder exchanges
__readonly__	(Optional) Read only
TABLE_fc2exchresp	(Optional) show fc2 exchresp
HIX	(Optional) hix
VSAN	(Optional) vsan
OX_ID	(Optional) oxid
S_ID	(Optional) sid
CS	(Optional) cs
SIFINDEX	(Optional) sifindex
OX_ID2	(Optional) oxid
RX_ID2	(Optional) rxid
O_ID	(Optional) oid
R_ID	(Optional) rid
ESTAT	(Optional) estat
STATE	(Optional) state
SOCKET	(Optional) socket
TYPE	(Optional) type
SEQID	(Optional) seqid
TCNT	(Optional) tcnt
RCNT	(Optional) rcnt
LO	(Optional) lo
HI	(Optional) hi

<i>SSTAT</i>	(Optional) sstat
--------------	------------------

Command Mode

- /exec

show fc2 flogi

```
show fc2 flogi [ __readonly__ { TABLE_fc2flogi <HIX> <VSAN> <S_ID> <FLOGI> <IFINDEX> <TYPE>
} ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
flogi	show fc2 flogi table
__readonly__	(Optional) Read only
TABLE_fc2flogi	(Optional) show fc2 flogi
<i>HIX</i>	(Optional) hix
<i>VSAN</i>	(Optional) vsan
<i>S_ID</i>	(Optional) sid
<i>FLOGI</i>	(Optional) flogi
<i>IFINDEX</i>	(Optional) ifindex
<i>TYPE</i>	(Optional) type

Command Mode

- /exec

show fc2 nport

```
show fc2 nport [ __readonly__ { TABLE_fc2nport <REF> <VSAN> <D_ID> <MASK> <FL> <ST>
<IFINDEX> <CF> <TC> <2-SO> <IC> <RC> <RS> <CS> <EE> <3-SO> <3-SO-IC> <3-SO-RC> <3-SO-RS>
<3-SO-CS> <3-SO-EE> } ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
nport	show fc2 local nports
__readonly__	(Optional) Read only
TABLE_fc2nport	(Optional) show fc2 nport
<i>REF</i>	(Optional) ref
<i>VSAN</i>	(Optional) vsan
<i>D_ID</i>	(Optional) did
<i>MASK</i>	(Optional) mask
<i>FL</i>	(Optional) fl
<i>ST</i>	(Optional) st
<i>IFINDEX</i>	(Optional) ifindex
<i>CF</i>	(Optional) cf
<i>TC</i>	(Optional) tc
<i>2-SO</i>	(Optional) 2so
<i>IC</i>	(Optional) ic
<i>RC</i>	(Optional) rc
<i>RS</i>	(Optional) rs
<i>CS</i>	(Optional) cs
<i>EE</i>	(Optional) ee
<i>3-SO</i>	(Optional) 3so
<i>3-SO-IC</i>	(Optional) 3so-ic
<i>3-SO-RC</i>	(Optional) 3so-rc
<i>3-SO-RS</i>	(Optional) 3so-rs

<i>3-SO-CS</i>	(Optional) 3so-cs
<i>3-SO-EE</i>	(Optional) 3so-ee

Command Mode

- /exec

show fc2 plogi

```
show fc2 plogi [ __readonly__ { TABLE_fc2plogi <HIX> <ADDRESS> <VSAN> <S_ID> <D_ID>
<IF_INDEX> <FL> <STATE> <CF> <TC> <2-SO> <IC> <RC> <RS> <CS> <EE> <3-SO> <3SO_IC>
<3SO_RC> <3SO_RS> <3SO_CS> <3SO_EE> <EECNT> <TCCNT> <2CNT> <3CNT> <REFCNT> } ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
plogi	show fc2 plogi sessions
__readonly__	(Optional) Read only
TABLE_fc2plogi	(Optional) show fc2 plogi
<i>HIX</i>	(Optional) hix
<i>ADDRESS</i>	(Optional) address
<i>VSAN</i>	(Optional) vsan
<i>S_ID</i>	(Optional) sid
<i>D_ID</i>	(Optional) did
<i>IF_INDEX</i>	(Optional) ifindex
<i>FL</i>	(Optional) fl
<i>STATE</i>	(Optional) state
<i>CF</i>	(Optional) cf
<i>TC</i>	(Optional) tc
<i>2-SO</i>	(Optional) 2so
<i>IC</i>	(Optional) ic
<i>RC</i>	(Optional) rc
<i>RS</i>	(Optional) rs
<i>CS</i>	(Optional) cs
<i>EE</i>	(Optional) ee
<i>3-SO</i>	(Optional) 3so
<i>3SO_IC</i>	(Optional) ic
<i>3SO_RC</i>	(Optional) rc

<i>3SO_RS</i>	(Optional) rs
<i>3SO_CS</i>	(Optional) cs
<i>3SO_EE</i>	(Optional) ee
<i>EECNT</i>	(Optional) eecnt
<i>TCCNT</i>	(Optional) TCCNT
<i>2CNT</i>	(Optional) 2cnt
<i>3CNT</i>	(Optional) 3cnt
<i>REFCNT</i>	(Optional) refcnt

Command Mode

- /exec

show fc2 plogi_pwwn

```
show fc2 plogi_pwwn [ __readonly__ { TABLE_fc2plogi_pwwn <HIX> <ADDRESS> <VSAN> <S_ID>
<D_ID> <IFINDEX> <FL> <STATE> <PWWN> } ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
plogi_pwwn	show fc2 plogi pwwn entries
__readonly__	(Optional) Read only
TABLE_fc2plogi_pwwn	(Optional) show fc2 plogi_pwwn
<i>HIX</i>	(Optional) hix
<i>ADDRESS</i>	(Optional) address
<i>VSAN</i>	(Optional) vsan
<i>S_ID</i>	(Optional) s_id
<i>D_ID</i>	(Optional) d_id
<i>IFINDEX</i>	(Optional) ifindex
<i>FL</i>	(Optional) fl
<i>STATE</i>	(Optional) state
<i>PWWN</i>	(Optional) pwwn

Command Mode

- /exec

show fc2 port brief

```
show fc2 port brief [ __readonly__ { TABLE_fc2portbrief <BAD_FRAME_RX> } [ TABLE_FCSTAT <IX>
<ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS> <RXDROP> ] [ TABLE_LBSTAT
<IX> <ST> <MOD> <EMUL> <TXLBPCKTS> <TXLBDROP> <RXLBPCKTS> <RXLBDROP> ] [
TABLE_VFCSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS>
<RXDROP> ] [ TABLE_VFCPOSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR>
<RXPKTS> <RXDROP> ] [ TABLE_VFCslotSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS>
<TXDROP> <TXERR> <RXPKTS> <RXDROP> ] ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
port	show fc2 physical port table
brief	display only active port counters
__readonly__	(Optional) Read only
TABLE_fc2portbrief	(Optional) bad frames received
<i>BAD_FRAME_RX</i>	(Optional) fc2 bad frames rx
TABLE_FCSTAT	(Optional) FC Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrorrent
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop
TABLE_LBSTAT	(Optional) LB Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul

<i>TXLBPKTS</i>	(Optional) tx lb packets
<i>TXLBDROP</i>	(Optional) tx lb drops
<i>RXLBPKTS</i>	(Optional) rx lb packets
<i>RXLBDROP</i>	(Optional) rx lb drop
TABLE_VFCSTAT	(Optional) VFC Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrornt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop
TABLE_VFCPOSTAT	(Optional) VFC po Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrornt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop
TABLE_VFCSLOTSTAT	(Optional) VFC slot Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul

<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrorcnt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop

Command Mode

- /exec

show fc2 port drops

```
show fc2 port drops [ __readonly__ [ TABLE_FCSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS>
<TXDROP> <TXERR> <RXPKTS> <RXDROP> ] [ TABLE_LBSTAT <IX> <ST> <MOD> <EMUL>
<TXLBPCKTS> <TXLBDROP> <RXLBPCKTS> <RXLBDROP> ] [ TABLE_VFCSTAT <IX> <ST> <MOD>
<EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS> <RXDROP> ] [ TABLE_VFCPOSTAT <IX>
<ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS> <RXDROP> ] [
TABLE_VFCSLOTSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS>
<RXDROP> ] ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
port	show fc2 physical port table
drops	display active port drop counters
__readonly__	(Optional) Read only
TABLE_FCSTAT	(Optional) FC Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrorcnt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop
TABLE_LBSTAT	(Optional) LB Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXLBPCKTS</i>	(Optional) tx lb packets
<i>TXLBDROP</i>	(Optional) tx lb drops

<i>RXLBPKTS</i>	(Optional) rx lb packets
<i>RXLBDROP</i>	(Optional) rx lb drop
TABLE_VFCSTAT	(Optional) VFC Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrorcnt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop
TABLE_VFCPOSTAT	(Optional) VFC po Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops
<i>TXERR</i>	(Optional) txerrorcnt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop
TABLE_VFCSLOTSTAT	(Optional) VFC slot Stat table
<i>IX</i>	(Optional) index
<i>ST</i>	(Optional) status
<i>MOD</i>	(Optional) mode
<i>EMUL</i>	(Optional) TEemul
<i>TXPKTS</i>	(Optional) txpackets
<i>TXDROP</i>	(Optional) txdrops

<i>TXERR</i>	(Optional) txerrorcnt
<i>RXPKTS</i>	(Optional) rx packets
<i>RXDROP</i>	(Optional) rx drop

Command Mode

- /exec

show fc2 port state

```
show fc2 port state [ __readonly__ [ TABLE_FCPORTSTATE [ <PORT_STRING> ] [ <PORT_NO> ] [
<UP_DOWN_CNTR> ] [ [ <UP_STRING> ] + [ <UP_TIME> ] + [ <UP_REFTIME> ] + [ <DOWN_STRING>
] + [ <DOWN_TIME> ] + [ <DOWN_REFTIME> ] + ] ] ] [ TABLE_VFCPORTSTATE [ <PORT_STRING>
] [ <PORT_NO> ] [ <UP_DOWN_CNTR> ] [ [ <UP_STRING> ] + [ <UP_TIME> ] + [ <UP_REFTIME>
] + [ <DOWN_STRING> ] + [ <DOWN_TIME> ] + [ <DOWN_REFTIME> ] + ] ] ] [
TABLE_VFCPOPORTSTATE [ <PORT_STRING> ] [ <PORT_NO> ] [ <UP_DOWN_CNTR> ] [ [
<UP_STRING> ] + [ <UP_TIME> ] + [ <UP_REFTIME> ] + [ <DOWN_STRING> ] + [ <DOWN_TIME>
] + [ <DOWN_REFTIME> ] + ] ] ] [ TABLE_VFCPORTSLOTSTATE [ <PORT_STRING> ] [ <PORT_NO>
] [ <UP_DOWN_CNTR> ] [ [ <UP_STRING> ] + [ <UP_TIME> ] + [ <UP_REFTIME> ] + [
<DOWN_STRING> ] + [ <DOWN_TIME> ] + [ <DOWN_REFTIME> ] + ] ] ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
port	show fc2 physical port table
state	display port state history
__readonly__	(Optional) Read only
TABLE_FCPORTSTATE	(Optional) fc port state change history
<i>PORT_STRING</i>	(Optional) port name
<i>PORT_NO</i>	(Optional) port number
<i>UP_DOWN_CNTR</i>	(Optional) up-down counter
<i>UP_STRING</i>	(Optional) up
<i>UP_TIME</i>	(Optional) up time
<i>UP_REFTIME</i>	(Optional) up from
<i>DOWN_STRING</i>	(Optional) down string
<i>DOWN_TIME</i>	(Optional) down time
<i>DOWN_REFTIME</i>	(Optional) down from
TABLE_VFCPORTSTATE	(Optional) vfc port state change history
<i>PORT_STRING</i>	(Optional) port name
<i>PORT_NO</i>	(Optional) port number
<i>UP_DOWN_CNTR</i>	(Optional) up-down counter
<i>UP_STRING</i>	(Optional) up

<i>UP_TIME</i>	(Optional) up time
<i>UP_REFTIME</i>	(Optional) up from
<i>DOWN_STRING</i>	(Optional) down string
<i>DOWN_TIME</i>	(Optional) down time
<i>DOWN_REFTIME</i>	(Optional) down from
TABLE_VFCPOPORTSTATE	(Optional) vfc po port state change history
<i>PORT_STRING</i>	(Optional) port name
<i>PORT_NO</i>	(Optional) port number
<i>UP_DOWN_CNTR</i>	(Optional) up-down counter
<i>UP_STRING</i>	(Optional) up
<i>UP_TIME</i>	(Optional) up time
<i>UP_REFTIME</i>	(Optional) up from
<i>DOWN_STRING</i>	(Optional) down string
<i>DOWN_TIME</i>	(Optional) down time
<i>DOWN_REFTIME</i>	(Optional) down from
TABLE_VFCPORTSLOTSTATE	(Optional) vfc port slot state change history
<i>PORT_STRING</i>	(Optional) port name
<i>PORT_NO</i>	(Optional) port number
<i>UP_DOWN_CNTR</i>	(Optional) up-down counter
<i>UP_STRING</i>	(Optional) up
<i>UP_TIME</i>	(Optional) up time
<i>UP_REFTIME</i>	(Optional) up from
<i>DOWN_STRING</i>	(Optional) down string
<i>DOWN_TIME</i>	(Optional) down time
<i>DOWN_REFTIME</i>	(Optional) down from

Command Mode

- /exec

show fc2 socket

```
show fc2 socket [ __readonly__ { TABLE_fc2socket <SOCKET> <REFCNT> <PROTOCOL> <FLAGS>
<PID> <RCVBUF> <RMEM_USED> <QLEN> <NOTSK> } ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
socket	show fc2 active sockets
__readonly__	(Optional) Read only
TABLE_fc2socket	(Optional) show fc2 socket
<i>SOCKET</i>	(Optional) socket
<i>REFCNT</i>	(Optional) refcnt
<i>PROTOCOL</i>	(Optional) protocol
<i>FLAGS</i>	(Optional) flags
<i>PID</i>	(Optional) pid
<i>RCVBUF</i>	(Optional) rcvbuf
<i>RMEM_USED</i>	(Optional) rmem_used
<i>QLEN</i>	(Optional) qlen
<i>NOTSK</i>	(Optional) not_sk

Command Mode

- /exec

show fc2 sockexch

```
show fc2 sockexch [ __readonly__ { TABLE_fc2sockexch <SOCKET> <VSAN> <X_ID> <OX_ID>
<RX_ID> <O_ID> <R_ID> <ESTAT> <STATE> <CS> <TYPE> <SK> } ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
sockexch	show fc2 active exchanges for each socket
__readonly__	(Optional) Read only
TABLE_fc2sockexch	(Optional) show fc2 sockexch
SOCKET	(Optional) socket
VSAN	(Optional) vsan
X_ID	(Optional) x_id
OX_ID	(Optional) oxid
RX_ID	(Optional) rxid
O_ID	(Optional) o_id
R_ID	(Optional) r_id
ESTAT	(Optional) estat
STATE	(Optional) state
CS	(Optional) cs
TYPE	(Optional) type
SK	(Optional) sk

Command Mode

- /exec

show fc2 socknotify

```
show fc2 socknotify [ __readonly__ { TABLE_fc2socknotify <SOCKET> <ADDRESS> <REF> <VSAN>
<D_ID> <MASK> <FL> <ST> <IFINDEX> } ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
socknotify	show fc2 local nport plogi/logo notifications per each socket
__readonly__	(Optional) Read only
TABLE_fc2socknotify	(Optional) show fc2 socknotify
<i>SOCKET</i>	(Optional) socket
<i>ADDRESS</i>	(Optional) address
<i>REF</i>	(Optional) ref
<i>VSAN</i>	(Optional) vsan
<i>D_ID</i>	(Optional) d_id
<i>MASK</i>	(Optional) mask
<i>FL</i>	(Optional) fl
<i>ST</i>	(Optional) st
<i>IFINDEX</i>	(Optional) ifindex

Command Mode

- /exec

show fc2 socknport

```
show fc2 socknport [ __readonly__ { TABLE_fc2socknport <SOCKET> <ADDRESS> <REF> <VSAN>
<D_ID> <MASK> <FL> <ST> <IFINDEX> } ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
socknport	show fc2 local nports per each socket
__readonly__	(Optional) Read only
TABLE_fc2socknport	(Optional) show fc2 socknport
<i>SOCKET</i>	(Optional) socket
<i>ADDRESS</i>	(Optional) address
<i>REF</i>	(Optional) ref
<i>VSAN</i>	(Optional) vsan
<i>D_ID</i>	(Optional) d_id
<i>MASK</i>	(Optional) mask
<i>FL</i>	(Optional) fl
<i>ST</i>	(Optional) st
<i>IFINDEX</i>	(Optional) ifindex

Command Mode

- /exec

show fc2 vsan

```
show fc2 vsan [ __readonly__ { TABLE_fc2vsan <VSAN> <X_ID> <E_D_TOV> <R_A_TOV> <WWN>
<IOP_MODE> } ]
```

Syntax Description

show	Show running system information
fc2	show fc2 tables and statistics
vsan	show fc2 vsan table
__readonly__	(Optional) Read only
TABLE_fc2vsan	(Optional) show fc2 vsan
VSAN	(Optional) vsan
X_ID	(Optional) xid
E_D_TOV	(Optional) e_d_tov
R_A_TOV	(Optional) r_a_tov
WWN	(Optional) wwn
IOP_MODE	(Optional) iop_mode

Command Mode

- /exec

show fcdroplateny

```
show fcdroplateny [ { network | switch } ] [ __readonly__ [ <switch_latency> ] [ <global_network_latency> ] ] [ TABLE_vsan_network_latency { <vsan-no> <network-latency> } ] ]
```

Syntax Description

show	Show running system information
fcdroplateny	show switch or network latency
network	(Optional) network latency in milliseconds
switch	(Optional) switch latency in milliseconds
__readonly__	(Optional)
<i>switch_latency</i>	(Optional) Switch latency value
<i>global_network_latency</i>	(Optional) global network latency value
TABLE_vsan_network_latency	(Optional) VSAN specific network latency settings
<i>vsan-no</i>	(Optional) vsan number
<i>network-latency</i>	(Optional) VSAN specific network latency

Command Mode

- /exec

show fcoe-npv issu-impact

```
show fcoe-npv issu-impact [ __readonly__ { <is_impact> } [ TABLE_interface <vfc_intf> <fc_id> ] ]
```

Syntax Description

show	Show running system information
fcoe-npv	feature fcoe-npv
issu-impact	Show feature fcoe-npv config issues if attempting to do non-disruptive ISSU
<i>__readonly__</i>	(Optional) Read Only
<i>is_impact</i>	(Optional) show issu impact
TABLE_interface	(Optional) show fcoe database
<i>vfc_intf</i>	(Optional) vfc port Interface index
<i>fc_id</i>	(Optional) vfc port FCID

Command Mode

- /exec

show fcoe

```
show fcoe [ __readonly__ { TABLE_fcf <fcf_if_index> <fcf_mac> <fc_map> <fcf_priority>
<fka_Advertisement> } [ TABLE_vfc <vfc_name> <vfcf_mac> ] ]
```

Syntax Description

show	Show running system information
fcoe	Show FCOE paramaters
__readonly__	(Optional) Read Only
TABLE_fcf	(Optional) fcf table
<i>fcf_if_index</i>	(Optional) fcf if index
<i>fcf_mac</i>	(Optional) fcf mac
<i>fc_map</i>	(Optional) fc map
<i>fcf_priority</i>	(Optional) fcf priority
<i>fka_Advertisement</i>	(Optional) fka Advertisement
TABLE_vfc	(Optional) vfc details table for sup
<i>vfc_name</i>	(Optional) vfc name
<i>vfcf_mac</i>	(Optional) vfcf mac

Command Mode

- /exec

show fcoe database

```
show fcoe database [ __readonly__ { TABLE_interface <interface> [ <fcid> ] [ <port_name> ] <mac_address>
} <flogi_count> [ TABLE_veport <interface> <mac_address> <vsan> ] ]
```

Syntax Description

show	Show running system information
fcoe	Show FCOE paramaters
database	Show FCOE database
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show fcoe database
<i>fcid</i>	(Optional) fcid
<i>port_name</i>	(Optional) port name
<i>mac_address</i>	(Optional) mac address
<i>interface</i>	(Optional) ve port Interface index
TABLE_veport	(Optional) ve port details
<i>mac_address</i>	(Optional) ve port mac address
<i>flogi_count</i>	(Optional) flogi_count
<i>vsan</i>	(Optional) ve port VSAN trunking

Command Mode

- /exec

show fctimer

```
show fctimer [ __readonly__ { <F_S_TOV> <D_S_TOV> <E_D_TOV> <R_A_TOV> } ]
```

Syntax Description

show	show running system information
fctimer	show Fibre Channel timers
__readonly__	(Optional) Read only
<i>F_S_TOV</i>	(Optional) F_S_TOV
<i>D_S_TOV</i>	(Optional) D_S_TOV
<i>E_D_TOV</i>	(Optional) E_D_TOV
<i>R_A_TOV</i>	(Optional) R_A_TOV

Command Mode

- /exec

show fctimer D_S_TOV

```
show fctimer D_S_TOV [ vsan <i0> ] [ __readonly__ [ TABLE_D_S_TOV [ <vsan-no> ] <D_S_TOV> ] [ <non-exist-vsan> ] ]
```

Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
D_S_TOV	D_S_TOV in milliseconds
vsan	(Optional) Specify VSAN id
<i>i0</i>	(Optional) VSAN id range
<i>__readonly__</i>	(Optional)
TABLE_D_S_TOV	(Optional) table D_S_TOV
<i>vsan-no</i>	(Optional) vsan number
<i>D_S_TOV</i>	(Optional) D_S_TOV
<i>non-exist-<i>vsan</i></i>	(Optional) non configured vsans

Command Mode

- /exec

show fctimer E_D_TOV

```
show fctimer E_D_TOV [ vsan <i0> ] [ __readonly__ [ TABLE_E_D_TOV [ <vsan-no> ] <E_D_TOV> ] [ <non-exist-nsan> ] ]
```

Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
E_D_TOV	E_D_TOV in milliseconds
vsan	(Optional) Specify VSAN id
<i>i0</i>	(Optional) VSAN id range
<i>__readonly__</i>	(Optional)
TABLE_E_D_TOV	(Optional) table
<i>vsan-no</i>	(Optional) vsan number
<i>E_D_TOV</i>	(Optional) E_D_TOV
<i>non-exist-nsan</i>	(Optional) not exist vsans

Command Mode

- /exec

show fctimer F_S_TOV

```
show fctimer F_S_TOV [ vsan <i0> ] [ __readonly__ [ TABLE_F_S_TOV [ <vsan-no> ] <F_S_TOV> ] [ <non-exist-vsan> ] ]
```

Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
F_S_TOV	F_S_TOV in milliseconds
vsan	(Optional) Specify VSAN id
<i>i0</i>	(Optional) VSAN id range
<i>__readonly__</i>	(Optional)
TABLE_F_S_TOV	(Optional) table
<i>vsan-no</i>	(Optional) vsan number
<i>F_S_TOV</i>	(Optional) F_S_TOV
<i>non-exist-<i>vsan</i></i>	(Optional) not exist vsans

Command Mode

- /exec

show fctimer R_A_TOV

```
show fctimer R_A_TOV [ vsan <i0> ] [ __readonly__ [ TABLE_R_A_TOV [ <vsan-no> ] <R_A_TOV> ] [ <non-exist-nsan> ] ]
```

Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
R_A_TOV	R_A_TOV in milliseconds
vsan	(Optional) Specify VSAN id
<i>i0</i>	(Optional) VSAN id range
<i>__readonly__</i>	(Optional)
TABLE_R_A_TOV	(Optional) table
<i>vsan-no</i>	(Optional) vsan number
<i>R_A_TOV</i>	(Optional) R_A_TOV
<i>non-exist-nsan</i>	(Optional) non exist vsans

Command Mode

- /exec

show fctimer last action status

```
show fctimer last action status [ __readonly__ [ <vsan> ] <last_action_timestamp> <last_action>
<last_action_result> <last_action_failure_reason> ]
```

Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
last	Show the status of the last cfs commit/abort operation
action	Show the status of the last cfs commit/abort operation
status	Show the status of the last cfs commit/abort operation
<i>__readonly__</i>	(Optional) Readonly
<i>vsan</i>	(Optional) Vsan
<i>last_action_timestamp</i>	(Optional) Last action timestamp
<i>last_action</i>	(Optional) Last action
<i>last_action_result</i>	(Optional) Last action result
<i>last_action_failure_reason</i>	(Optional) Last action failure reason

Command Mode

- /exec

show fctimer pending-diff

```
show fctimer pending-diff [ __readonly__ <status_fctimer> ]
```

Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
pending-diff	Show the difference between pending database and running config
__readonly__	(Optional)
<i>status_fctimer</i>	(Optional) Show the difference between pending database and running config

Command Mode

- /exec

show fctimer pending

show fctimer pending [__readonly__ <status_fctimer>]

Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
pending	Show the status of pending fctimer commands
__readonly__	(Optional)
<i>status_fctimer</i>	(Optional) Show the status of pending fctimer commands

Command Mode

- /exec

show fctimer session status

```
show fctimer session status [ __readonly__ [ <vsan> ] <last_action_timestamp> <last_action>
<last_action_result> <last_action_failure_reason> ]
```

Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
session	Show the state of fctimer cfs session
status	Show the status of the last cfs commit/abort operation
<i>__readonly__</i>	(Optional) Readonly
<i>vsan</i>	(Optional) Vsan
<i>last_action_timestamp</i>	(Optional) Last action timestamp
<i>last_action</i>	(Optional) Last action
<i>last_action_result</i>	(Optional) Last action result
<i>last_action_failure_reason</i>	(Optional) Last action failure reason

Command Mode

- /exec

show fctimer status

show fctimer status [__readonly__ <Distribution>]

Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
status	cfs distribution is enabled or disabled
__readonly__	(Optional) read only
<i>Distribution</i>	(Optional) distribution

Command Mode

- /exec

show fctimer vsan

```
show fctimer vsan <i0> [ __readonly__ { TABLE_fctimer <vsan-no> <F_S_TOV> <D_S_TOV> <E_D_TOV>
<R_A_TOV> } [ <non-exist-nsan> ] ]
```

Syntax Description

show	Show running system information
fctimer	show Fibre Channel timers
vsan	Specify VSAN id
<i>i0</i>	VSAN id range
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_fctimer</i>	(Optional) table
<i>vsan-no</i>	(Optional) vsan number
<i>F_S_TOV</i>	(Optional) F_S_TOV
<i>D_S_TOV</i>	(Optional) D_S_TOV
<i>E_D_TOV</i>	(Optional) E_D_TOV
<i>R_A_TOV</i>	(Optional) R_A_TOV
<i>non-exist-nsan</i>	(Optional) non exist nsans

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
<i>__readonly__</i>	(Optional)
<i>TABLE_services</i>	(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 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)
<i>TABLE_det</i>	(Optional) Detailed FHRP interface information
<i>intf_name</i>	(Optional) Interface name
<i>handle</i>	(Optional) Interface handle
<i>refcount</i>	(Optional) Reference count
<i>TABLE_clients</i>	(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 ] [ __readonly__ TABLE_flow_cache <flow-type> <source-ip>
<destination-ip> <bridge-domain-id> <source-port> <destination-port> <protocol> <ipv6-flowlabel>
<byte-count> <packet-count> <tcp-flags> <tos> <if-id> <flow-start> <flow-end> <source-mac>
<destination-mac> <ether-type> ]
```

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
__readonly__	(Optional)
TABLE_flow_cache	(Optional) The XML flow cache table
<i>flow-type</i>	(Optional) Flow type - v4,v6 or MAC
<i>source-ip</i>	(Optional) Source IP
<i>destination-ip</i>	(Optional) Destination IP
<i>bridge-domain-id</i>	(Optional) Bridge Domain ID
<i>source-port</i>	(Optional) Source Port
<i>destination-port</i>	(Optional) Destination Port
<i>protocol</i>	(Optional) Protocol
<i>ipv6-flowlabel</i>	(Optional) Ipv6 flowlabel
<i>byte-count</i>	(Optional) Byte Count
<i>packet-count</i>	(Optional) Packet Count
<i>tcp-flags</i>	(Optional) TCP Flags
<i>tos</i>	(Optional) TOS
<i>if-id</i>	(Optional) IF ID
<i>flow-start</i>	(Optional) Flow Start Time
<i>flow-end</i>	(Optional) Flow End Time

<i>source-mac</i>	(Optional) Source MAC
<i>destination-mac</i>	(Optional) Destination MAC
<i>ether-type</i>	(Optional) Ether Type

Command Mode

- /exec

show flow cache

```
show flow cache [ ipv4 | ipv6 | ce ] [ __readonly__ ] [ { TABLE_flow_cache <flow-cache-index> [ <flow-type> ] [ <source-ip> ] [ <destination-ip> ] [ <source-mac> ] [ <destination-mac> ] [ <bridge-domain-id> ] [ <ether-type> ] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <ipv6-flowlabel> ] [ <byte-count> ] [ <packet-count> ] [ <tcp-flags> ] [ <tos> ] [ <if-id> ] [ <output-if-id> ] [ <flow-start> ] [ <flow-end> ] } ] ]
```

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
__readonly__	(Optional)
TABLE_flow_cache	(Optional) The XML flow cache table
<i>flow-cache-index</i>	(Optional) Flow Index
<i>flow-type</i>	(Optional) Flow type - v4,v6 or MAC
<i>source-ip</i>	(Optional) Source IP
<i>destination-ip</i>	(Optional) Destination IP
<i>source-mac</i>	(Optional) Source MAC
<i>destination-mac</i>	(Optional) Destination MAC
<i>bridge-domain-id</i>	(Optional) Bridge Domain ID
<i>ether-type</i>	(Optional) Ether Type
<i>source-port</i>	(Optional) Source Port
<i>destination-port</i>	(Optional) Destination Port
<i>protocol</i>	(Optional) Protocol
<i>ipv6-flowlabel</i>	(Optional) Ipv6 flowlabel
<i>byte-count</i>	(Optional) Byte Count
<i>packet-count</i>	(Optional) Packet Count
<i>tcp-flags</i>	(Optional) TCP Flags

<i>tos</i>	(Optional) TOS
<i>if-id</i>	(Optional) IF ID
<i>output-if-id</i>	(Optional) OUTPUT IF ID
<i>flow-start</i>	(Optional) Flow Start Time
<i>flow-end</i>	(Optional) Flow End Time

Command Mode

- /exec

show flow exporter

```
show flow exporter [ name ] [ <exporter> ] [ __readonly__ { TABLE_flow_exporter <exporter> <description>
<dest> <vrf> <vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <dscp> <exp_vers> <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>exporter</i>	(Optional) Specify an exporter
<i>__readonly__</i>	(Optional)
TABLE_flow_exporter	(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_vers</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 exporter

```
show flow exporter [ name ] [ <exporter> ] [ __readonly__ { TABLE_flow_exporter <exporter> <description>
<dest> <vrf> <vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <dscp> <exp_vers> <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>exporter</i>	(Optional) Specify an exporter
<i>__readonly__</i>	(Optional)
TABLE_flow_exporter	(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_vers</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 filter

```
show flow filter [ __readonly__ [ { TABLE_flow_filter <name> <ipv4acl> <ipv6acl> } ] ]
```

Syntax Description

show	Show running system information
flow	Show Analytics information
filter	Show filter Configuration
__readonly__	(Optional)
TABLE_flow_filter	(Optional) flow filter data
<i>name</i>	(Optional) Filter Name
<i>ipv4acl</i>	(Optional) IPv4 ACL
<i>ipv6acl</i>	(Optional) IPv4 ACL

Command Mode

- /exec

show flow interface

```
show flow { interface [ <intf> ] | vlan [ <vlan> ] } [ __readonly__ [ { TABLE_flow_interface [ <intf_name> ] [ <vlan_id> ] [ <v4in_mon_name> ] [ <v4in_direction> ] [ <v4in_profile_id> ] [ <v6in_mon_name> ] [ <v6in_direction> ] [ <v6in_profile_id> ] [ <l2in_mon_name> ] [ <l2in_direction> ] [ <l2in_profile_id> ] } ] ]
```

Syntax Description

show	Show running system information
flow	Show NetFlow information
interface	Flow interface information
<i>intf</i>	(Optional) Interface
vlan	Flow vlan information
<i>vlan</i>	(Optional) Vlan number
<i>__readonly__</i>	(Optional)
TABLE_flow_interface	(Optional) flow interface data
<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_direction</i>	(Optional) IPv4 Input direction
<i>v4in_profile_id</i>	(Optional) IPv4 Input profile id
<i>v6in_mon_name</i>	(Optional) IPv6 Input monitor name
<i>v6in_direction</i>	(Optional) IPv6 Input direction
<i>v6in_profile_id</i>	(Optional) IPv6 Input profile id
<i>l2in_mon_name</i>	(Optional) l2 Input monitor name
<i>l2in_direction</i>	(Optional) l2 Input direction
<i>l2in_profile_id</i>	(Optional) l2 Input profile id

Command Mode

- /exec

show flow monitor

```
show flow monitor [ name ] [ <monitor> [ cache [ detailed ] ] ] [ __readonly__ [ { TABLE_flow_monitor
<monitor> <use_count> [ <description> ] <record> <exporter1> <exporter2> <bucket_id> <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>monitor</i>	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents
<i>__readonly__</i>	(Optional)
TABLE_flow_monitor	(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>bucket_id</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 monitor

```
show flow monitor [ name ] [ <monitor> [ cache [ detailed ] ] ] [ __readonly__ [ { TABLE_flow_monitor
<monitor> <use_count> [ <description> ] <record> <exporter1> <exporter2> <bucket_id> <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>monitor</i>	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents
<i>__readonly__</i>	(Optional)
TABLE_flow_monitor	(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>bucket_id</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 profile

```
show flow profile [ __readonly__ [ { TABLE_flow_profile <name> [ <desc> ] <number-of-users>
<export-intvl> <source-port> <packet-id-shift> <burst-intvl-shift> <mtu> [ <guess-threshold-lo> ] [
<guess-threshold-hi> ] [ { TABLE_payload_bin <payload-bin-num> <payload-bin-lo> <payload-bin-hi> }
] [ { TABLE_tcpopthdr_bin <tcpopthdr-bin-num> <tcpopthdr-bin-lo> <tcpopthdr-bin-hi> } ] [ {
TABLE_rcvwinsize_bin <rcvwinsize-bin-num> <rcvwinsize-bin-lo> <rcvwinsize-bin-hi> } } ] ] ]
```

Syntax Description

show	Show running system information
flow	Show Analytics information
profile	Show profile Configuration
__readonly__	(Optional)
TABLE_flow_profile	(Optional) HW flow profile
<i>name</i>	(Optional) HW profile name
<i>desc</i>	(Optional) Description of HW profile
<i>number-of-users</i>	(Optional) No. of users
<i>export-intvl</i>	(Optional) Export Interval
<i>source-port</i>	(Optional) Source Port
<i>packet-id-shift</i>	(Optional) IP Packet ID Shift
<i>burst-intvl-shift</i>	(Optional) Burst Interval Shift
<i>mtu</i>	(Optional) MTU
<i>guess-threshold-lo</i>	(Optional) Sequence Number Guess Threshold Lo
<i>guess-threshold-hi</i>	(Optional) Sequence Number Guess Threshold Hi
TABLE_payload_bin	(Optional) Payload Bin
<i>payload-bin-num</i>	(Optional) Bin Number
<i>payload-bin-lo</i>	(Optional) Bin Lo
<i>payload-bin-hi</i>	(Optional) Bin Hi
TABLE_tcpopthdr_bin	(Optional) TCP Opt Hdr Bin
<i>tcpopthdr-bin-num</i>	(Optional) Bin Number
<i>tcpopthdr-bin-lo</i>	(Optional) Bin Lo
<i>tcpopthdr-bin-hi</i>	(Optional) Bin Hi

TABLE_rcvwinsize_bin	(Optional) Receive Windows Size Bin
<i>rcvwinsize-bin-num</i>	(Optional) Bin Number
<i>rcvwinsize-bin-lo</i>	(Optional) Bin Lo
<i>rcvwinsize-bin-hi</i>	(Optional) Bin Hi

Command Mode

- /exec

show flow record

```
show flow record [ name ] [ { <record> } | { netflow-original } | { netflow { protocol-port | layer2-switched
{ input } | { ipv4 | ipv6 | l2 } { original-input } } } ] [ __readonly__ [ { TABLE_flow_record <record> [
<description> ] <use_count> <template> [ <match_ip_src> ] [ <match_ip_dst> ] [ <match_proto> ] [
<match_tos> ] [ <match_l4_src> ] [ <match_l4_dst> ] [ <match_ingress> ] [ <match_egress> ] [
<match_src_as_peer> ] [ <match_dst_as_peer> ] [ <match_ipv6_src> ] [ <match_ipv6_dst> ] [
<match_ipv6_flow> ] [ <match_ipv6_option> ] [ <match_ipv6_traffic> ] [ <match_l2_src> ] [ <match_l2_dst>
] [ <match_l2_src_vlan> ] [ <match_l2_dst_vlan> ] [ <match_l2_lq> ] [ <match_l2_cos> ] [ <match_l2_etype>
] [ <match_flow_dir_match> ] [ <match_ipv4v6_src> ] [ <match_ipv4v6_dst> ] [ <collect_src_as> ] [
<collect_dst_as> ] [ <collect_src_as_peer> ] [ <collect_dst_as_peer> ] [ <collect_fwd_status> ] [
<collect_ipv4_next_hop> ] [ <collect_ipv4_bgp_next> ] [ <collect_ipv6_next_hop> ] [
<collect_ipv6_bgp_next> ] [ <collect_tcp_flags> ] [ <collect_flow_dir> ] [ <collect_bytes> ] [
<collect_bytes_long> ] [ <collect_packets> ] [ <collect_packets_long> ] [ <collect_time_first> ] [
<collect_time_last> ] [ <collect_ingress_coll> ] [ <collect_egress_coll> ] [ <collect_sampler_id> ] [
<collect_ip_ver> ] [ <collect_packet_disp> ] } ] ]
```

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>record</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
input	(Optional) Input NetFlow
protocol-port	(Optional) Protocol and Ports aggregation scheme
__readonly__	(Optional)
TABLE_flow_record	(Optional) flow record data
<i>record</i>	(Optional)
<i>description</i>	(Optional)

<i>use_count</i>	(Optional)
<i>template</i>	(Optional)
<i>match_ip_src</i>	(Optional)
<i>match_ip_dst</i>	(Optional)
<i>match_proto</i>	(Optional)
<i>match_tos</i>	(Optional)
<i>match_l4_src</i>	(Optional)
<i>match_l4_dst</i>	(Optional)
<i>match_ingress</i>	(Optional)
<i>match_egress</i>	(Optional)
<i>match_src_as_peer</i>	(Optional)
<i>match_dst_as_peer</i>	(Optional)
<i>match_ipv6_src</i>	(Optional)
<i>match_ipv6_dst</i>	(Optional)
<i>match_ipv6_flow</i>	(Optional)
<i>match_ipv6_option</i>	(Optional)
<i>match_ipv6_traffic</i>	(Optional)
<i>match_l2_src</i>	(Optional)
<i>match_l2_dst</i>	(Optional)
<i>match_l2_src_vlan</i>	(Optional)
<i>match_l2_dst_vlan</i>	(Optional)
<i>match_l2_lq</i>	(Optional)
<i>match_l2_cos</i>	(Optional)
<i>match_l2_etype</i>	(Optional)
<i>match_flow_dir_match</i>	(Optional)
<i>match_ipv4v6_src</i>	(Optional)
<i>match_ipv4v6_dst</i>	(Optional)
<i>collect_src_as</i>	(Optional)
<i>collect_dst_as</i>	(Optional)

<i>collect_src_as_peer</i>	(Optional)
<i>collect_dst_as_peer</i>	(Optional)
<i>collect_fwd_status</i>	(Optional)
<i>collect_ipv4_next_hop</i>	(Optional)
<i>collect_ipv4_bgp_next</i>	(Optional)
<i>collect_ipv6_next_hop</i>	(Optional)
<i>collect_ipv6_bgp_next</i>	(Optional)
<i>collect_tcp_flags</i>	(Optional)
<i>collect_flow_dir</i>	(Optional)
<i>collect_bytes</i>	(Optional)
<i>collect_bytes_long</i>	(Optional)
<i>collect_packets</i>	(Optional)
<i>collect_packets_long</i>	(Optional)
<i>collect_time_first</i>	(Optional)
<i>collect_time_last</i>	(Optional)
<i>collect_ingress_coll</i>	(Optional)
<i>collect_egress_coll</i>	(Optional)
<i>collect_sampler_id</i>	(Optional)
<i>collect_ip_ver</i>	(Optional)
<i>collect_packet_disp</i>	(Optional)

Command Mode

- /exec

show flow record

```
show flow record [ name ] [ { <record> } | { netflow-original } | { netflow { protocol-port | layer2-switched
{ input } | { ipv4 | ipv6 | l2 } { original-input } } } ] [ __readonly__ [ { TABLE_flow_record <record> [
<description> ] <use_count> <template> [ <match_ip_src> ] [ <match_ip_dst> ] [ <match_proto> ] [
<match_tos> ] [ <match_l4_src> ] [ <match_l4_dst> ] [ <match_ingress> ] [ <match_egress> ] [
<match_src_as_peer> ] [ <match_dst_as_peer> ] [ <match_ipv6_src> ] [ <match_ipv6_dst> ] [
<match_ipv6_flow> ] [ <match_ipv6_option> ] [ <match_ipv6_traffic> ] [ <match_l2_src> ] [ <match_l2_dst>
] [ <match_l2_src_vlan> ] [ <match_l2_dst_vlan> ] [ <match_l2_lq> ] [ <match_l2_cos> ] [ <match_l2_etype>
] [ <match_flow_dir_match> ] [ <match_ipv4v6_src> ] [ <match_ipv4v6_dst> ] [ <collect_src_as> ] [
<collect_dst_as> ] [ <collect_src_as_peer> ] [ <collect_dst_as_peer> ] [ <collect_fwd_status> ] [
<collect_ipv4_next_hop> ] [ <collect_ipv4_bgp_next> ] [ <collect_ipv6_next_hop> ] [
<collect_ipv6_bgp_next> ] [ <collect_tcp_flags> ] [ <collect_flow_dir> ] [ <collect_bytes> ] [
<collect_bytes_long> ] [ <collect_packets> ] [ <collect_packets_long> ] [ <collect_time_first> ] [
<collect_time_last> ] [ <collect_ingress_coll> ] [ <collect_egress_coll> ] [ <collect_sampler_id> ] [
<collect_ip_ver> ] [ <collect_packet_disp> ] } ] ] ]
```

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>record</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
input	(Optional) Input NetFlow
protocol-port	(Optional) Protocol and Ports aggregation scheme
<i>__readonly__</i>	(Optional)
TABLE_flow_record	(Optional) flow record data
<i>record</i>	(Optional)
<i>description</i>	(Optional)

<i>use_count</i>	(Optional)
<i>template</i>	(Optional)
<i>match_ip_src</i>	(Optional)
<i>match_ip_dst</i>	(Optional)
<i>match_proto</i>	(Optional)
<i>match_tos</i>	(Optional)
<i>match_l4_src</i>	(Optional)
<i>match_l4_dst</i>	(Optional)
<i>match_ingress</i>	(Optional)
<i>match_egress</i>	(Optional)
<i>match_src_as_peer</i>	(Optional)
<i>match_dst_as_peer</i>	(Optional)
<i>match_ipv6_src</i>	(Optional)
<i>match_ipv6_dst</i>	(Optional)
<i>match_ipv6_flow</i>	(Optional)
<i>match_ipv6_option</i>	(Optional)
<i>match_ipv6_traffic</i>	(Optional)
<i>match_l2_src</i>	(Optional)
<i>match_l2_dst</i>	(Optional)
<i>match_l2_src_vlan</i>	(Optional)
<i>match_l2_dst_vlan</i>	(Optional)
<i>match_l2_lq</i>	(Optional)
<i>match_l2_cos</i>	(Optional)
<i>match_l2_etype</i>	(Optional)
<i>match_flow_dir_match</i>	(Optional)
<i>match_ipv4v6_src</i>	(Optional)
<i>match_ipv4v6_dst</i>	(Optional)
<i>collect_src_as</i>	(Optional)
<i>collect_dst_as</i>	(Optional)

<i>collect_src_as_peer</i>	(Optional)
<i>collect_dst_as_peer</i>	(Optional)
<i>collect_fwd_status</i>	(Optional)
<i>collect_ipv4_next_hop</i>	(Optional)
<i>collect_ipv4_bgp_next</i>	(Optional)
<i>collect_ipv6_next_hop</i>	(Optional)
<i>collect_ipv6_bgp_next</i>	(Optional)
<i>collect_tcp_flags</i>	(Optional)
<i>collect_flow_dir</i>	(Optional)
<i>collect_bytes</i>	(Optional)
<i>collect_bytes_long</i>	(Optional)
<i>collect_packets</i>	(Optional)
<i>collect_packets_long</i>	(Optional)
<i>collect_time_first</i>	(Optional)
<i>collect_time_last</i>	(Optional)
<i>collect_ingress_coll</i>	(Optional)
<i>collect_egress_coll</i>	(Optional)
<i>collect_sampler_id</i>	(Optional)
<i>collect_ip_ver</i>	(Optional)
<i>collect_packet_disp</i>	(Optional)

Command Mode

- /exec

show flow rtp

```
show flow rtp { errors { active | history } | details } [ ipv4 | ipv6 ] [ __readonly__ [ <flow-timeout> ] [ {
TABLE_flow_rtp <flow-rtp-index> [ <flow-type> ] [ <source-ip> ] [ <destination-ip> ] [ <bridge-domain-id>
] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <packet-count> ] [ <bytes-per-sec> ] [ <start-time>
] [ <if-name> ] [ { TABLE_flow_rtp_errors <loss-start> [ <loss-end> ] [ <packet-loss> } ] } ] }
```

Syntax Description

show	Show running system information
flow	Show NetFlow information
rtp	Real-time Transport Protocol
errors	Show NetFlow RTP flows error information
active	Show RTP flows with active losses
history	Show RTP flows with loss history
details	Show NetFlow RTP detailed information
ipv4	(Optional) Show ipv4 RTP entries
ipv6	(Optional) Show ipv6 RTP entries
__readonly__	(Optional)
TABLE_flow_rtp	(Optional) The XML flow rtp table
<i>flow-timeout</i>	(Optional) Flow Timeout
<i>flow-rtp-index</i>	(Optional) Flow RTP Index
<i>flow-type</i>	(Optional) Flow type - v4,v6
<i>source-ip</i>	(Optional) Source IP
<i>destination-ip</i>	(Optional) Destination IP
<i>bridge-domain-id</i>	(Optional) Bridge Domain ID
<i>source-port</i>	(Optional) Source Port
<i>destination-port</i>	(Optional) Destination Port
<i>protocol</i>	(Optional) Protocol
<i>packet-count</i>	(Optional) Packet Count
<i>bytes-per-sec</i>	(Optional) Bytes Per Second
<i>start-time</i>	(Optional) Flow Start Time

<i>if-name</i>	(Optional) IF/Vlan
TABLE_flow_rtp_errors	(Optional) The XML flow rtp errors table
<i>loss-start</i>	(Optional) Loss Start Time
<i>loss-end</i>	(Optional) Loss End Time
<i>packet-loss</i>	(Optional) Packet loss

Command Mode

- /exec

show flow rtp timeout

show flow rtp timeout [__readonly__ { <flush_cache_to> }]

Syntax Description

show	Show running system information
flow	Show NetFlow information
rtp	Real-time Transport Protocol
timeout	Show NetFlow RTP flow error monitoring timeout values
__readonly__	(Optional)
<i>flush_cache_to</i>	(Optional)

Command Mode

- /exec

show flow system

```
show flow system [ __readonly__ <system_exporter_id> [ { TABLE_flow_interface [ <intf_name> ] [
<exporter_id> ] [ <profile_name> ] [ <v4in_mon_name> ] [ <v4in_direction> ] [ <v6in_mon_name> ] [
<v6in_direction> ] [ <filter_name> ] [ <ipv4_hit> ] [ <ipv4_create> ] [ <ipv6_hit> ] [ <ipv6_create> ] [
<ce_hit> ] [ <ce_create> ] [ <packets_seen> ] [ <skip_collect> ] [ <export_count> ] } ] ]
```

Syntax Description

show	Show running system information
flow	Show Analytics information
system	Show system Configuration
<i>__readonly__</i>	(Optional)
<i>system_exporter_id</i>	(Optional) System Exporter ID
TABLE_flow_interface	(Optional) flow interface data
<i>intf_name</i>	(Optional) Interface
<i>exporter_id</i>	(Optional) Exporter ID
<i>profile_name</i>	(Optional) HW Profile Name
<i>v4in_mon_name</i>	(Optional) IPv4 Input monitor name
<i>v4in_direction</i>	(Optional) IPv4 Input direction
<i>v6in_mon_name</i>	(Optional) IPv6 Input monitor name
<i>v6in_direction</i>	(Optional) IPv6 Input direction
<i>filter_name</i>	(Optional) User Filter Name
<i>ipv4_hit</i>	(Optional) Number of packets that hit an Ipv4 hash entry
<i>ipv4_create</i>	(Optional) Number of packets that created a new Ipv4 hash entry
<i>ipv6_hit</i>	(Optional) Number of packets that hit an Ipv6 hash entry
<i>ipv6_create</i>	(Optional) Number of packets that created a new Ipv6 hash entry
<i>ce_hit</i>	(Optional) Number of packets that hit an ce hash entry
<i>ce_create</i>	(Optional) Number of packets that created a new ce hash entry
<i>packets_seen</i>	(Optional) Number of packets seen
<i>skip_collect</i>	(Optional) Number of packets that skipped the analytics collect
<i>export_count</i>	(Optional) Number of Analytics packets exported

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 flow tracer

```
show flow tracer [ __readonly__ [ { TABLE_flow_tracer <flow-tracer-index> [ <source-ip> ] [ <destination-ip>
] [ <bridge-domain-id> ] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <packet-count> ] [ <if-name>
] [ <fwd-drop> ] [ <rpf-fail> ] [ <policing-drop> ] [ <ids-drop> ] [ <policy-drop> ] [ <buffer-drop> ] } ] ]
```

Syntax Description

show	Show running system information
flow	Show NetFlow information
tracer	Show packet tracer information
__readonly__	(Optional)
TABLE_flow_tracer	(Optional)
<i>flow-tracer-index</i>	(Optional) Flow Index
<i>source-ip</i>	(Optional) Source IP
<i>destination-ip</i>	(Optional) Destination IP
<i>bridge-domain-id</i>	(Optional) Bridge Domain ID
<i>source-port</i>	(Optional) Source Port
<i>destination-port</i>	(Optional) Destination Port
<i>protocol</i>	(Optional) Protocol
<i>packet-count</i>	(Optional) Packet Count
<i>if-name</i>	(Optional) Ingress Interface
<i>fwd-drop</i>	(Optional) Forwarding Drops
<i>rpf-fail</i>	(Optional) RPF Port Sec Failures
<i>policing-drop</i>	(Optional) Policing Drops
<i>ids-drop</i>	(Optional) Ids Drops
<i>policy-drop</i>	(Optional) ACL Drops
<i>buffer-drop</i>	(Optional) Buffer Drops

Command Mode

- /exec

show forwarding

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ table <table_id> ] [ ipv4 ] [ route |
mhdb ] [ recursive ] [ summary ] [ [ detail | platform | partial | ipsg ] [ max-display-count <display_count> ]
] | [ <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
ipv4	(Optional) ipv4
route	(Optional) display IP routing table
ipsg	(Optional) display IPv4 IPSG routes
mhdb	(Optional) 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
max-display-count	(Optional) displays max # of routes
<i>display_count</i>	(Optional) count

Command Mode

- /exec

show forwarding adjacency

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ipv4 ] adjacency [ mpls ] [ lisp ] [ nve ] [ <aif> ] [ <anh> ] [ detail | stats | platform ] [ module <module> ] [ __readonly__ [ <adj-count> ] ] [ TABLE_adj { [ <fec> ] [ <nexthop> ] [ <intf> ] [ <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> ] } ] [ TABLE_ip_adjacency { [ <nh> ] [ <rwinfo> ] [ <intf> ] [ <intf_idx> ] [ <hhandle> ] [ <refcnt> ] [ <flags> ] [ <holder> ] [ <pbr_cnt> ] [ <wccp_cnt> ] [ <rewrite-p> ] [ TABLE_index { [ <hw_adj> ] [ <cmn-idx> ] [ <lif> ] [ <buf-idx> ] } } ] }
```

Syntax Description

show	
forwarding	display fib information
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
__readonly__	(Optional)
<i>adj-count</i>	(Optional) total adj count
TABLE_adj	(Optional) Table Adjacency
<i>fec</i>	(Optional) FEC info

<i>nexthop</i>	(Optional) next hop address
<i>intf</i>	(Optional) output interface
<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
TABLE_ip_adjacency	(Optional) Table ip adjacency
<i>nh</i>	(Optional) next hop address
<i>rwinfo</i>	(Optional) rewrite information
<i>intf</i>	(Optional) output interface
<i>intf_idx</i>	(Optional) Interface index
<i>hhandle</i>	(Optional) Hw Handle
<i>refcnt</i>	(Optional) reference count
<i>flags</i>	(Optional) Adjacency flags
<i>holder</i>	(Optional) Holder bitmap
<i>pbr_cnt</i>	(Optional) PBR count
<i>wccp_cnt</i>	(Optional) WCCP count
<i>rewrite-p</i>	(Optional) Rewrite pointer

TABLE_index	(Optional) HW index table
<i>hw_adj</i>	(Optional) v4 adj hw index
<i>cmn-idx</i>	(Optional) CMN Index
<i>lif</i>	(Optional) LIF
<i>buf-idx</i>	(Optional) Buffer index

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_vrf [ <vrf-name> ] [ <table-name> ] [ <table-id>
] [ <total-num-groups> ] [ TABLE_route_summary [ <vrf-name> ] [ <total-num-routes> ] [ <num-star-g-route>
] [ <num-sg-route> ] [ <num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE_one_route [ <source-addr>
] [ <source-len> ] [ <group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <stats-pkts>
] [ <stats-bytes> ] [ <oif-count> ] [ <oiflist-index> ] [ TABLE_oif [ <oif-name> ] [ <mti-src-intf> ] [
<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
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf-name</i>	(Optional)
<i>table-name</i>	(Optional)
<i>table-id</i>	(Optional)
<i>total-num-groups</i>	(Optional)
<i>TABLE_route_summary</i>	(Optional)
<i>total-num-routes</i>	(Optional)
<i>num-star-g-route</i>	(Optional)

<i>num-sg-route</i>	(Optional)
<i>num-star-g-prfx</i>	(Optional)
<i>num-group-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>source-addr</i>	(Optional)
<i>source-len</i>	(Optional)
<i>group-addr</i>	(Optional)
<i>group-len</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rpf-intf</i>	(Optional)
<i>flags</i>	(Optional)
<i>stats-pkts</i>	(Optional)
<i>stats-bytes</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oiflist-index</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>mti-src-intf</i>	(Optional)
<i>mti-grp-ip</i>	(Optional)
<i>mti-src-ip</i>	(Optional)

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__ [ TABLE_sum [ <mode> ] [
<num_vlan> ] [ <num_starg> ] [ <num_sg> ] [ <num_aggstarg> ] [ TABLE_sum_info [ <ftag_id> ] [ <vlan_id>
] [ <routable_flag> ] [ <num_starg> ] [ <num_sg> ] [ <num_aggstarg> ] [ <total_route> ] ] ] [ TABLE_route
[ <vlan> ] [ <grp_str> ] [ <src_str> ] [ <grp_mac> ] [ <src_mac> ] [ TABLE_oif [ <oiflist_id> ] [ <refcount>
] [ <l3_usage> ] [ <plt_index> ] [ <num_oif> ] [ <oif_name> ] [ <flags> ] [ <dvmif> ] ] ] ] ] ]
```

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
__readonly__	(Optional)
TABLE_sum	(Optional)
<i>mode</i>	(Optional) Mode
<i>num_vlan</i>	(Optional) Num of VLAN
<i>num_starg</i>	(Optional) Num of Starg routes
<i>num_sg</i>	(Optional) Num of SG routes

<i>num_aggstarg</i>	(Optional) Num of Aggregated Starg routes
TABLE_sum_info	(Optional)
<i>vlan_id</i>	(Optional) vlan id
<i>ftag_id</i>	(Optional) ftag id
<i>routable_flag</i>	(Optional) Routable flag
<i>num_starg</i>	(Optional) Num of starg routes
<i>num_sg</i>	(Optional) Num of sg routes
<i>num_aggstarg</i>	(Optional) Num of Aggregated Starg routes
<i>total_route</i>	(Optional) Total Routes
TABLE_route	(Optional)
<i>vlan</i>	(Optional) vlan
<i>grp_str</i>	(Optional) Group Address
<i>src_str</i>	(Optional) Source Address
<i>grp_mac</i>	(Optional) Group Mac
<i>src_mac</i>	(Optional) Source Mac
TABLE_oif	(Optional)
<i>oiflist_id</i>	(Optional) oiflist index
<i>refcount</i>	(Optional) reference count
<i>l3_usage</i>	(Optional) l3 usage
<i>plt_index</i>	(Optional) platform index
<i>num_oif</i>	(Optional) Num of outgoing interface
<i>oif_name</i>	(Optional) Oif details
<i>flags</i>	(Optional)
<i>dvif</i>	(Optional)

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)
TABLE_lisp_vrf_enabled	(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 multicast

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

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>num_accepting_routes</i>	(Optional) Number of fibs accepting routes
<i>slot</i>	(Optional) Slot
<i>fibstate</i>	(Optional) IP Multicast FIB process state

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 } [ __readonly__
<no-free-buffers> <no-used-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
__readonly__	(Optional)
<i>no-free-buffers</i>	(Optional) Number of Free txlist MFIB buffers
<i>no-used-buffers</i>	(Optional) Number of Used txlist MFIB buffers

Command Mode

- /exec

show forwarding distribution multicast outgoing-interface-list

```
show forwarding distribution multicast outgoing-interface-list { L2 | L3 | OTV } [ <index> ] [ __readonly__
[ <total_oif> ] [ TABLE_oif [ <oiflist_id> ] [ <refcount> ] [ <l3_usage> ] [ <plt_index> ] [ <num_oif> ] [
<oif_name> ] [ <flags> ] [ <dvif> ] ] ]
```

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>total_oif</i>	(Optional) Total outgoing interface list
TABLE_oif	(Optional)
<i>oiflist_id</i>	(Optional) oiflist index
<i>refcount</i>	(Optional) reference count
<i>l3_usage</i>	(Optional) l3 usage
<i>plt_index</i>	(Optional) platform index
<i>num_oif</i>	(Optional) Num of outgoing interface
<i>oif_name</i>	(Optional) Oif Details
<i>flags</i>	(Optional)
<i>dvif</i>	(Optional)

Command Mode

- /exec

show forwarding distribution multicast outgoing-interface-list L2_PRIME

```
show forwarding distribution multicast outgoing-interface-list L2_PRIME [ <index> ] [ __readonly__ <dvif>
<platform_index> <ref_count> <l2-oifs> <port_set> ]
```

Syntax Description

show	
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
outgoing-interface-list	Outgoing interface list
L2_PRIME	Layer 2 oiflist
<i>index</i>	(Optional) Outgoing Interface List index
<i>__readonly__</i>	(Optional)
<i>dvif</i>	(Optional) Destination VIF
<i>platform_index</i>	(Optional) Platform index
<i>ref_count</i>	(Optional) Reference count
<i>l2-oifs</i>	(Optional) L2 oifs
<i>port_set</i>	(Optional) Port set

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> | <vrf-known-name> | all } ] [ [ group { <gaddr> [ <mask> ] | <gprefix> } ] [ source { <saddr> [ <smask> ] | <sprefix> } ] | summary ] [ __readonly__ TABLE_vrf [ <vrf-name> ] [ <table-name> ] [ <table-id> ] [ <table-wildcard> ] [ <total-num-groups> ] [ TABLE_route_summary [ <vrf-name> ] [ <total-num-routes> ] [ <num-star-g-route> ] [ <num-sg-route> ] [ <num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE_one_route [ <source-addr> ] [ <source-len> ] [ <group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <stats-pkts> ] [ <stats-bytes> ] [ <oif-count> ] [ <oiflist-index> ] [ TABLE_oif [ <oif-name> ] [ <mti-src-intf> ] [ <mti-grp-ip> ] [ <mti-src-ip> ] [ <next-hop> ] ] ] ] ]
```

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
<i>vrf-known-name</i>	(Optional) Known 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

<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>table-name</i>	(Optional)
<i>table-id</i>	(Optional)
<i>table-wildcard</i>	(Optional)
<i>total-num-groups</i>	(Optional)
TABLE_route_summary	(Optional)
<i>total-num-routes</i>	(Optional)
<i>num-star-g-route</i>	(Optional)
<i>num-sg-route</i>	(Optional)
<i>num-star-g-prfx</i>	(Optional)
<i>num-group-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>source-addr</i>	(Optional)
<i>source-len</i>	(Optional)
<i>group-addr</i>	(Optional)
<i>group-len</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rpf-intf</i>	(Optional)
<i>flags</i>	(Optional)
<i>stats-pkts</i>	(Optional)
<i>stats-bytes</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oiflist-index</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>mti-src-intf</i>	(Optional)
<i>mti-grp-ip</i>	(Optional)

<i>mti-src-ip</i>	(Optional)
<i>next-hop</i>	(Optional)

Command Mode

- /exec

show forwarding distribution multicast vxlan dsg-db

show forwarding distribution multicast vxlan dsg-db

Syntax Description

show	show
forwarding	Display Forwarding Information
distribution	FIB distribution information
multicast	Multicast
vxlan	vxlan
dsg-db	delivery group/source db

Command Mode

- /exec

show forwarding distribution nve overlay-vlan

show forwarding distribution nve overlay-vlan [*__readonly__* *TABLE_overlay_vlan_peer_id* <Vlan> <SVP> <install> <Origin> <VFP-region> <peercount> <peer_id> +]

Syntax Description

show	Show running system information
forwarding	forwarding information
distribution	fib distribution info
nve	nve distribution info
overlay-vlan	overlay-vlan adjacency info
<i>__readonly__</i>	(Optional)
<i>TABLE_overlay_vlan_peer_id</i>	(Optional) overlay vlan peer id table
<i>Vlan</i>	(Optional) VLAN
<i>SVP</i>	(Optional) SVP
<i>install</i>	(Optional) install
<i>Origin</i>	(Optional) Origin
<i>VFP-region</i>	(Optional) VFP-region
<i>peercount</i>	(Optional) Total count of Peers
<i>peer_id</i>	(Optional) Peer-ID

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 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 ecmp

```
show forwarding ecmp [ { [ vrf { <vrf-name> | <vrf-known-name> } ] lisp } ] [ platform ] [ module <module> ] [ partial ] [ __readonly__ [ <header> <ecmp_hash> <intf> <nh> <v6nh> <hw_index> <num_mpls> <holder> <refcount> <num_paths> <sw_ptr> <ecmp_partial> ] [ TABLE_ecmp { [ <hash> ] [ <num_paths> ] [ <hwinde> ] [ <ecmppartial> ] [ TABLE_index { [ <ecmp_idx> ] [ <cmn_idx> ] } ] [ <refcnt> ] [ <ecmp_holder> ] } ] [ TABLE_adjacency { [ <intf> ] [ <nh> ] [ <v6nh> ] [ <hw_adj_idx> ] [ <hw_cmn_idx> ] [ <lif> ] [ <hw_nve_adj_idx> ] [ <hw_nve_cmn_idx> ] [ <nve_lif> ] } ] [ <vobj_count> ] [ <vxlan_vobj_count> ] [ <vxlan> ] [ <vobj_list_header> ] [ <vobj-id> ] ] ] ]
```

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
<i>module</i>	(Optional) slot number
partial	(Optional) Show partially installed ECMPs
<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
TABLE_ecmp	(Optional) ecmp table
<i>hash</i>	(Optional) ecmp hash
<i>num_paths</i>	(Optional) No of paths
<i>hwindex</i>	(Optional) Hw index
<i>ecmppartial</i>	(Optional) partial ecmp
TABLE_index	(Optional) index table
<i>ecmp_idx</i>	(Optional) hw ecmp index
<i>cmn_idx</i>	(Optional) cmn index
<i>refcnt</i>	(Optional) refcount
<i>ecmp_holder</i>	(Optional) holder bitmap
TABLE_adjacency	(Optional) adjacency table
<i>intf</i>	(Optional) interface
<i>nh</i>	(Optional) next hop
<i>v6nh</i>	(Optional) v6 next hop
<i>hw_adj_idx</i>	(Optional) hw adj index
<i>hw_cmn_idx</i>	(Optional) hw cmn index
<i>lif</i>	(Optional) lif
<i>hw_nve_adj_idx</i>	(Optional) nve adj index
<i>hw_nve_cmn_idx</i>	(Optional) nve cmn index
<i>nve_lif</i>	(Optional) nve lif
<i>vobj_count</i>	(Optional) vobj count
<i>vxlan_vobj_count</i>	(Optional) vxlan vobj count
<i>vxlan</i>	(Optional) vxlan
<i>vobj_list_header</i>	(Optional) vobj list header
<i>vobj-id</i>	(Optional) vobj id

Command Mode

- /exec

show forwarding ecmp recursive

```

show forwarding ecmp recursive [ platform ] [ max-display-count <display_count> ] [ module <module> ] [
partial ] [ __readonly__ [ TABLE_vobj { [ <header_vobj> ] [ <header_ecmp> } ] [ TABLE_vobj_idx { [
<hw_vobj_index> ] [ <cmn_index> } ] ] [ <num_pfxs> ] [ <ecmp_partial> ] [ <activepath_hdr> ] [
TABLE_active { [ TABLE_activepath { [ <ap_nh> ] [ <ap_v6nh> ] [ <ap_rnh_len> ] [ <ap_nh_vpn_label>
] [ <ap_rnh_table_id> ] [ <ap_nh_weight> } ] } ] [ <backuppath_hdr> ] [ TABLE_backuppath { [ <bp_nh>
] [ <bp_v6nh> ] [ <bp_nh_vpn_label> ] [ <bp_rnh_table_id> ] [ <bp_nh_weight> } ] } ] [ <cnh_hdr> ] [
TABLE_cnh { [ <nh> ] [ <v6nh> ] [ <intf> ] [ TABLE_cnh_adj { [ <hw_adj> ] [ <hw_cmn_index> ] [ <lif>
] } ] } ] [ <hw_inst_n> ] [ <ls_count_n> ] [ <hw_inst_o> ] [ <ls_count_o> ] [ <fec_type> ] [ <header_fec_ecmp>
] [ <hw_vobj_fec_idx> ] [ <cmn_idx> ] [ <vobj_hw_inst_n> ] [ <vobj_ls_count_n> ] [ <vobj_hw_inst_o> ]
[ <vobj_ls_count_o> ] [ <vobj_refcount> ] [ TABLE_vobj_ecmp { [ <ec_hash> ] [ <ec_num_paths> ] [
<ec_hwindex> ] [ <ec_ecmppartial> ] [ <ec_refcnt> ] [ <ec_ecmp_holder> } ] [ TABLE_adjacency_ec { [
<ec_intf> ] [ <ec_nh> ] [ <ec_v6nh> ] [ <ec_hw_adj_idx> ] [ <ec_hw_cmn_idx> ] [ <ec_lif> ] [
<ec_hw_nve_adj_idx> ] [ <ec_hw_nve_cmn_idx> ] [ <ec_nve_lif> ] } ] [ <ec_vobj_count> ] [
<ec_vxlan_vobj_count> ] [ <ec_vxlan> ] [ <ec_vobj_list_header> ] ] [ <header> <num_pfxs> <rnh_table_id>
<nh> <rnh_len> <v6nh> <hw_instance> <nh_vpn_label> <nh_weight> <cnh_intf> <ecmp_partial> ] [
TABLE_ecmp { [ <hash> ] [ <num_paths> ] [ <hwindex> ] [ <ecmppartial> ] [ TABLE_index { [ <ecmp_idx>
] [ <cmn_idx> } ] } ] [ <refcnt> ] [ <ecmp_holder> } ] [ TABLE_adjacency { [ <intf> ] [ <nh> ] [ <v6nh> ] [
<hw_adj_idx> ] [ <hw_cmn_idx> ] [ <lif> ] [ <hw_nve_adj_idx> ] [ <hw_nve_cmn_idx> ] [ <nve_lif> ] } ]
[ <vobj_count> ] [ <vxlan_vobj_count> ] [ <vxlan> ] [ <vobj_list_header> ] [ TABLE_vobj_id { [ <vobj-id>
] } ] } ] } ]

```

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)
TABLE_vobj	(Optional) Table vobj
<i>header_vobj</i>	(Optional) vobj o/p header
<i>header_ecmp</i>	(Optional) ecmp o/p header

TABLE_vobj_idx	(Optional) Table vobj index
hw_vobj_index	(Optional) HW VOBJ Index
cmn_index	(Optional) cmn index
num_pfxs	(Optional) Number of prefixes using this virtual object
ecmp_partial	(Optional) partial ecmp
activepath_hdr	(Optional) o/p header
TABLE_active	(Optional) table active
TABLE_activepath	(Optional) table active path
ap_nh	(Optional) Next hop info
ap_v6nh	(Optional) v6 Next hop info
ap_rnh_len	(Optional) Next hop mask length
ap_nh_vpn_label	(Optional) NH VPN label
ap_rnh_table_id	(Optional) The table id where the RNHs are present
ap_nh_weight	(Optional) weighted ecmp info
backuppath_hdr	(Optional) o/p header
TABLE_backuppath	(Optional) backup path table
bp_nh	(Optional) Next hop info
bp_v6nh	(Optional) v6 Next hop info
bp_nh_vpn_label	(Optional) NH VPN label
bp_rnh_table_id	(Optional) The table id where the RNHs are present
bp_nh_weight	(Optional) weighted ecmp info
cnh_hdr	(Optional) o/p header
TABLE_cnh	(Optional) cnh table
nh	(Optional) Next hop info
v6nh	(Optional) v6 Next hop info
intf	(Optional) cnh output interface
TABLE_cnh_adj	(Optional) Table cnh adjacency
hw_adj	(Optional) cnh hw adjacency
hw_cmn_index	(Optional) cnh hw cmn idx

<i>lif</i>	(Optional) lif
<i>hw_inst_n</i>	(Optional) Hardware instance info new
<i>ls_count_n</i>	(Optional) ls count new
<i>hw_inst_o</i>	(Optional) Hardware instance info old
<i>ls_count_o</i>	(Optional) ls count old
<i>fec_type</i>	(Optional) fec type
<i>header_fec_ecmp</i>	(Optional) o/p header
<i>hw_vobj_fec_idx</i>	(Optional) hw fec idx
<i>cmn_idx</i>	(Optional) cmn idx
<i>vobj_hw_inst_n</i>	(Optional) vobj hw instance
<i>vobj_ls_count_n</i>	(Optional) ls count new
<i>vobj_hw_inst_o</i>	(Optional) hw instnace info old
<i>vobj_ls_count_o</i>	(Optional) ls count old
<i>vobj_refcount</i>	(Optional) vobj refcount
TABLE_vobj_ecmp	(Optional) ecmp table
<i>ec_hash</i>	(Optional) ecmp hash
<i>ec_num_paths</i>	(Optional) No of paths
<i>ec_hwindex</i>	(Optional) Hw index
<i>ec_ecmppartial</i>	(Optional) partial ecmp
<i>ec_refcnt</i>	(Optional) refcount
<i>ec_ecmp_holder</i>	(Optional) holder bitmap
TABLE_adjacency_ec	(Optional) adjacency table
<i>ec_intf</i>	(Optional) interface
<i>ec_nh</i>	(Optional) next hop
<i>ec_v6nh</i>	(Optional) v6 next hop
<i>ec_hw_adj_idx</i>	(Optional) hw adj index
<i>ec_hw_cmn_idx</i>	(Optional) hw cmn index
<i>ec_lif</i>	(Optional) lif
<i>ec_hw_nve_adj_idx</i>	(Optional) nve adj index

<i>ec_hw_nve_cmn_idx</i>	(Optional) nve cmn index
<i>ec_nve_lif</i>	(Optional) nve lif
<i>ec_vobj_count</i>	(Optional) vobj count
<i>ec_vxlan_vobj_count</i>	(Optional) vxlan vobj count
<i>ec_vxlan</i>	(Optional) vxlan
<i>ec_vobj_list_header</i>	(Optional) vobj list header
<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
TABLE_ecmp	(Optional) ecmp table
<i>hash</i>	(Optional) ecmp hash
<i>num_paths</i>	(Optional) No of paths
<i>hwindex</i>	(Optional) Hw index
<i>ecmppartial</i>	(Optional) partial ecmp
TABLE_index	(Optional) index table
<i>ecmp_idx</i>	(Optional) hw ecmp index
<i>cmn_idx</i>	(Optional) cmn index
<i>refcnt</i>	(Optional) refcount
<i>ecmp_holder</i>	(Optional) holder bitmap
TABLE_adjacency	(Optional) adjacency table
<i>intf</i>	(Optional) interface

<i>nh</i>	(Optional) next hop
<i>v6nh</i>	(Optional) v6 next hop
<i>hw_adj_idx</i>	(Optional) hw adj index
<i>hw_cmn_idx</i>	(Optional) hw cmn index
<i>lif</i>	(Optional) lif
<i>hw_nve_adj_idx</i>	(Optional) nve adj index
<i>hw_nve_cmn_idx</i>	(Optional) nve cmn index
<i>nve_lif</i>	(Optional) nve lif
<i>vobj_count</i>	(Optional) vobj count
<i>vxlan_vobj_count</i>	(Optional) vxlan vobj count
<i>vxlan</i>	(Optional) vxlan
<i>vobj_list_header</i>	(Optional) vobj list header
TABLE_vobj_id	(Optional) vobj_id table
<i>vobj-id</i>	(Optional) vobj id

Command Mode

- /exec

show forwarding interfaces

```
show forwarding interfaces [ module <module> ] [ __readonly__ TABLE_intf_str <intf> <v4adjcnt> <v6adjcnt>
<v4rpfmode> <v6rpfmode> <mac> ]
```

Syntax Description

show	
forwarding	fib information
interfaces	show fib interface info
__readonly__	(Optional)
TABLE_intf_str	(Optional) show interface string
<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>v4rpfmode</i>	(Optional) v4 uRPF mode
<i>v6rpfmode</i>	(Optional) v6 uRPF mode

Command Mode

- /exec

show forwarding ipv6 adjacency

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 adjacency [ mpls ] [ nve ] [ <aif> ] [ <anh> ] [ detail | stats | platform ] [ module <module> ] [ __readonly__ [ <adj-count> ] [ TABLE_adj { [ <fec> ] <nexthop> <rewinfo> [ <interface> ] [ <pkts> ] [ <bytes> ] [ <bgp_rnh> ] [ <bgp_orig_as> ] [ <bgp_peer_as> ] [ <hh> ] [ <refcount> } ] ] [ TABLE_v6_adj { [ <nh> ] [ <rwinf> ] [ <intf> ] [ <intf_idx> ] [ <hh> ] [ <refcnt> ] [ <flags> ] [ <holder> ] [ <pbr_cnt> ] [ <wccp_cnt> ] [ TABLE_index { [ <hw_adj> ] [ <cmn_idx> ] [ <lif> } ] } ] ] ]
```

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
nve	(Optional) nve 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
__readonly__	(Optional)
<i>adj-count</i>	(Optional) total adj count
TABLE_adj	(Optional) Table Adjacency
<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
TABLE_v6_adj	(Optional) Table Adjacency
<i>nh</i>	(Optional) next hop address
<i>rwnfo</i>	(Optional) rewrite information
<i>intf</i>	(Optional) output interface
<i>intf_idx</i>	(Optional) Interface index
<i>hh</i>	(Optional) Hardware Handle
<i>refcnt</i>	(Optional) reference count
<i>flags</i>	(Optional) Adjacency flags
<i>holder</i>	(Optional) Holder bitmap
<i>pbr_cnt</i>	(Optional) PBR count
<i>wccp_cnt</i>	(Optional) WCCP count
TABLE_index	(Optional) HW index table
<i>hw_adj</i>	(Optional) v4 adj hw index
<i>cmn-idx</i>	(Optional) CMN Index
<i>lif</i>	(Optional) LIF

Command Mode

- /exec

show forwarding ipv6 inconsistency

```
show forwarding ipv6 [ unicast ] inconsistency [ suppress-transient ] [ vrf { <vrf-name> | all_vrfs } ] [ module
{ <module> | all_modules } ] [ __readonly__ [ <err_str> ] [ <cc_header> ] [ <table_id> ] [ <slot_id> ] [
<exec_time> ] [ <elapsed_time> ] [ <inconsis_adj> ] [ TABLE_inconsistency_adj { <idipv6> <slotipv6>
[ <unitipv6> ] <vrfipv6> [ <ipv6addr> ] [ <ipv6prefix> ] [ <interfaceipv6> ] <reasonipv6> } ] [
<inconsis_routes> ] [ TABLE_inconsistency_routes { <idipv6> <slotipv6> [ <unitipv6> ] <vrfipv6> [
<ipv6addr> ] [ <ipv6prefix> ] [ <interfaceipv6> ] <reasonipv6> } ] [ <run_status> ] ]
```

Syntax Description

show	show
forwarding	Display Forwarding Information
ipv6	ipv6
unicast	(Optional) unicast
inconsistency	route inconsistency check
suppress-transient	(Optional) Suppress Transient state
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)
<i>err_str</i>	(Optional)
<i>cc_header</i>	(Optional)
<i>table_id</i>	(Optional)
<i>slot_id</i>	(Optional)
<i>exec_time</i>	(Optional)
<i>elapsed_time</i>	(Optional)
<i>inconsis_adj</i>	(Optional)
TABLE_inconsistency_adj	(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)
<i>inconsis_routes</i>	(Optional)
TABLE_inconsistency_routes	(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)
<i>run_status</i>	(Optional)

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> ] [ <vrfname> ] [ <table_id> ] [ <num_routes> <num_starg_routes> <num_sg_routes>
<num_gprefix_routes> ] [ <num_groups> ] [ <num_sources> ] [ <num_prefix_insert_fail> ] [ [
TABLE_MROUTE_INFO <address> [ <src_len> <grp_len> ] [ <df_ordinal> ] [ <rpfif> ] [ <rpf_ifindex> ]
<flag> [ <flag_value> ] <route_pkts> <route_bytes> <oiflist_id> <oif_count> <oiflist_flag> [
TABLE_OIF_INFO <oifindex> [ <vlan> ] [ TABLE_MCAST_OIF_INTF_INFO [ <oifname> ] [ <dviif> ] ]
[ <platform_id> ] [ <encap_id> ] [ <hw_index> ] ] ] ] ] ]
```

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>vrfname</i>	(Optional) VRF name
<i>table_id</i>	(Optional) Table ID

<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_prefix_insert_fail</i>	(Optional) Prefix insert fail count
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
TABLE_MROUTE_INFO	(Optional) Mroute info
<i>address</i>	(Optional) Mcast 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>oif_count</i>	(Optional) Number of OIFs
<i>oiflist_flag</i>	(Optional) OIF List flag
TABLE_OIF_INFO	(Optional) OIF Info
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>vlan</i>	(Optional) Vlan id
TABLE_MCAST_OIF_INTF_INFO	(Optional) OIF Interfaces
<i>oifname</i>	(Optional) OIF Interface name
<i>dvif</i>	(Optional) DVIF
<i>platform_id</i>	(Optional) Platform-index
<i>encap_id</i>	(Optional) Encap ID

<i>hw_index</i>	(Optional) Hardware index
-----------------	---------------------------

Command Mode

- /exec

unresolved	(Optional) display unresolved routes
adjacency	(Optional) display routes via specified adjacency
<i>aif</i>	(Optional) adjacency output interface
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
max-display-count	(Optional) displays max # of routes
<i>display_count</i>	(Optional) count
__readonly__	(Optional)
TABLE_vrf	(Optional) vrf table
<i>vrfname</i>	(Optional) VRF name
<i>tblname</i>	(Optional) table name
<i>tableid</i>	(Optional) table id
<i>prefix_count</i>	(Optional) total number of prefix in VRF
TABLE_prefix	(Optional) all xml prefix entries
<i>px</i>	(Optional) ipv6 prefix
TABLE_path	(Optional) path table
<i>nexthop</i>	(Optional) next hop address
<i>special</i>	(Optional) special adjacencies
<i>intf</i>	(Optional) output interface
<i>hw_handle</i>	(Optional) hw handle
<i>flags</i>	(Optional) flags
<i>holder</i>	(Optional) holder
<i>nxt_obj_type</i>	(Optional) next obj type
<i>hw_idx_v6adj</i>	(Optional) v6 adj hw idx
<i>cmn-idx</i>	(Optional) cmn idx
<i>lif</i>	(Optional) lif

<i>buf-idx</i>	(Optional) buf idx
<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__ [ TABLE_L2_MCAST_INFO <vlan_id>
[ <group> ] [ <source> ] [ <dmac> ] <epoch> <resource_id> <dest_index> [ <hw_handle> ] [ <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
__readonly__	(Optional)
TABLE_L2_MCAST_INFO	(Optional) L2 Multicast Info
<i>vlan_id</i>	(Optional) Vlan Identifier
<i>group</i>	(Optional) Multicast IPv4 Group Address
<i>source</i>	(Optional) Multicast IPv4 Source Address
<i>dmac</i>	(Optional) Destination MAC address
<i>epoch</i>	(Optional) Epoch number

<i>resource_id</i>	(Optional) Resource Identifier
<i>dest_index</i>	(Optional) Destination Index Identifier
<i>hw_handle</i>	(Optional) Hardware Handle
<i>text</i>	(Optional) String
<i>value</i>	(Optional) Value

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 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> [ { TABLE_table_id [ <out-table-id> ] [ <fec> ] [ <out-ip> ] [ <out-intf> ] [
<out-label> ] [ <out-op> ] [ <hh> ] [ <ref-count> ] } ] [ <in-pkts> ] [ <in-bytes> ] [ <swap-out-pkts> ] [
<swap-out-bytes> ] [ <tunnel-out-pkts> ] [ <tunnel-out-bytes> ] } ] ] ]
```

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
__readonly__	(Optional)
TABLE_mpls	(Optional)
<i>label</i>	(Optional) mpls label value

<i>TABLE_table_id</i>	(Optional) Table table id
<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-label</i>	(Optional) Output Label
<i>out-op</i>	(Optional) Output Label op
<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>swap-out-pkts</i>	(Optional) Label Swap Output Packet Stats
<i>swap-out-bytes</i>	(Optional) Label Swap Output Bytes Stats
<i>tunnel-out-pkts</i>	(Optional) Label Tunnel Output Packet Stats
<i>tunnel-out-bytes</i>	(Optional) Label Tunnel 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__ [ { TABLE_drop_stats
<unit-number> <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)
TABLE_drop_stats	(Optional) Table for mpls drop stats
<i>unit-number</i>	(Optional) unit number
<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>
] [ <fec> ] [ { TABLE_ecmp_paths [ <out-intf> ] [ <out-ip> ] [ <label-info> ] [ <refcount> ] [ <hh> ] [
<ecmp-type> ] } ] } ] ] ] ] ]
```

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
<i>fec</i>	(Optional) FEC
TABLE_ecmp_paths	(Optional)
<i>out-intf</i>	(Optional) Output Interface
<i>out-ip</i>	(Optional) Output Next Hop
<i>label-info</i>	(Optional) label info
<i>refcount</i>	(Optional) refcount

<i>hh</i>	(Optional) Hardware Handle
<i>ecmp-type</i>	(Optional) type for per path in ecmp

Command Mode

- /exec

show forwarding mpls eompls

```
show forwarding mpls eompls [ peers { <addr> | all } ] [ __readonly__ [ { TABLE_peer_ip <peer_ip>
<peer_id> <vlan_bmp> <rx_pkts> <rx_bytes> } ] ]
```

Syntax Description

show	Show
forwarding	Forwarding information
mpls	mpls forwarding
eompls	eompls
peers	(Optional) nve peers
<i>addr</i>	(Optional) peer ipaddress
all	(Optional) Display peer info for all peers
__readonly__	(Optional)
TABLE_peer_ip	(Optional)
<i>peer_ip</i>	(Optional) peer address
<i>peer_id</i>	(Optional) peer id
<i>vlan_bmp</i>	(Optional) vlan bitmap
<i>rx_pkts</i>	(Optional) packet stats
<i>rx_bytes</i>	(Optional) bytes stats

Command Mode

- /exec

show forwarding mpls eompls ir

```
show forwarding mpls eompls ir { [ vlan [ all | <vlan_id> ] ] | [ peer [ all | <peer_ip> ] ] } [ __readonly__ [ {
TABLE_VLAN <vlan_id> <vni> <ifindex> <plt_space> <bitmap> <peer> + <marked> + } ] [ {
TABLE_ONE_PEER <peer> <id> <repl_id> <oif> <path_intf> + <vcount> <vlan_id> + <plt_space> } ] ]
```

Syntax Description

show	Show running system information
forwarding	Forwarding information
mpls	mpls
eompls	eompls
ir	ir
vlan	(Optional) vlans all
all	(Optional) all
<i>vlan_id</i>	(Optional) vlan-id
peer	(Optional) peers-all
all	(Optional) all
<i>peer_ip</i>	(Optional) show detailed info for peer
__readonly__	(Optional)
TABLE_VLAN	(Optional) vlan peer ids table
<i>vlan_id</i>	(Optional) vlan id
<i>vni</i>	(Optional) vni
<i>ifindex</i>	(Optional) ifindex
<i>plt_space</i>	(Optional) platform space
<i>bitmap</i>	(Optional) peer bitmap
<i>peer</i>	(Optional) peer_address
<i>marked</i>	(Optional) marked
TABLE_ONE_PEER	(Optional) vlan peer ids table
<i>peer</i>	(Optional) vlan id
<i>id</i>	(Optional) vni
<i>repl_id</i>	(Optional) repli id

<i>oif</i>	(Optional) ifindex
<i>path_intf</i>	(Optional) pathintf name
<i>vcount</i>	(Optional) vlan count
<i>vlan_id</i>	(Optional) vlanid
<i>plt_space</i>	(Optional) platform space

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> <feature_evpn_status> ] ]
```

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
<i>feature_evpn_status</i>	(Optional) feature evpn status

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> ] [ <ftr_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-sr loopback interface

show forwarding multicast-sr loopback interface [*__readonly__* [*<port-num>*]]

Syntax Description

show	
forwarding	display fib information
multicast-sr	multicast service reflect information
interface	loopback interface
loopback	loopback interface
<i>__readonly__</i>	(Optional)
<i>port-num</i>	(Optional) Port number

Command Mode

- /exec

show forwarding multicast outgoing-interface-list

```
show forwarding multicast outgoing-interface-list { L2 | L3 | vxlan-encap | vxlan-ir-dci-encap } [ platform ]
[ module <module> ] [ <index> ] [ __readonly__ [ <refcount> ] [ <total_l2_oiflist> ] [ <total_l3_oiflist> ] [
<slot> ] [ TABLE_MCAST_OIF_INFO <oiflist_idx> [ <vlan> ] [ <num_oif> ] [
TABLE_MCAST_OIF_INTF_INFO [ <intf> ] [ <dviif> ] ] [ <encap_id> ] <hw_oiflist_idx> [ <mcidx> ] ] ]
```

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
vxlan-encap	vxlan-encap oiflist
vxlan-ir-dci-encap	vxlan-ir-dci-encap 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>total_l2_oiflist</i>	(Optional) total l2 oiflist
<i>total_l3_oiflist</i>	(Optional) total l3 oiflist
<i>slot</i>	(Optional) slot number
TABLE_MCAST_OIF_INFO	(Optional) Mcast OIF Info
<i>oiflist_idx</i>	(Optional) Outgoing Interface List Index
<i>vlan</i>	(Optional) Vlan id
<i>num_oif</i>	(Optional) Number of outgoing interfaces
TABLE_MCAST_OIF_INTF_INFO	(Optional) OIF Interfaces
<i>intf</i>	(Optional) OIF name

<i>dvif</i>	(Optional) DVIF
<i>encap_id</i>	(Optional) encap_id
<i>hw_oiflist_idx</i>	(Optional) Hardware Outgoing Interface List Index
<i>mcidx</i>	(Optional) MC Index

Command Mode

- /exec

show forwarding multicast route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | all } ] table <table_id> [ 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> ] [ <table_id> ] [ <num_routes> <num_starg_routes> <num_sg_routes> <num_gpredicate_routes> ] [ <num_groups> ] [ <num_sources> ] [ <num_prefix_insert_fail> ] [ TABLE_MROUTE_INFO <mcast_addr> [ <src_len> <grp_len> ] [ <df_ordinal> ] [ <rpfif> ] [ <rpf_ifindex> ] <flag> [ <flag_value> ] <route_pkts> <route_bytes> <oiflist_id> <oif_count> [ <refcount> ] <oiflist_flag> [ TABLE_OIF_INFO <oifindex> [ TABLE_MCAST_VLAN_INFO [ <vlan> ] [ TABLE_MCAST_OIF_INFO [ <oifname> ] [ <dviif> ] ] ] [ <platform_id> ] [ <encap_id> ] [ <hw_index> ] [ <oif_pkts> <oif_bytes> ] ] ] ] ]
```

Syntax Description

show	
forwarding	Forwarding information
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>table_id</i>	(Optional) Table ID
<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_prefix_insert_fail</i>	(Optional) Prefix insert fail count
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
TABLE_MROUTE_INFO	(Optional) Mroute info
<i>mcast_addr</i>	(Optional) Mcast 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>oif_count</i>	(Optional) Number of OIFs
<i>oiflist_flag</i>	(Optional) OIF List flag
<i>refcount</i>	(Optional) OIF list Reference Count

TABLE_OIF_INFO	(Optional) OIF Info
<i>oifindex</i>	(Optional) OIF Interface ifIndex
TABLE_MCAST_VLAN_INFO	(Optional) Vlan Interfaces
<i>vlan</i>	(Optional) Vlan id
TABLE_MCAST_OIF_INFO	(Optional) Oif Interfaces
<i>oifname</i>	(Optional) OIF Interface name
<i>dvif</i>	(Optional) DVIF
<i>platform_id</i>	(Optional) Platform-index
<i>encap_id</i>	(Optional) Encap ID
<i>hw_index</i>	(Optional) Hardware index
<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 [ ipv4 <peer_ip> | ipv6 <v6_peer_ip> ] + [ __readonly__ [
{ TABLE_VLAN <vlan_id> <vni> <ifindex> <plt_space> <peer> + } { TABLE_PSS_VLAN <vlan_pss_id>
<VNI> <vtep> <peercnt> { <pss_peer> <marked> } + } ] + [ [ <peer> <id> <repl_id> <oif> <hash_algo>
<path_intf> + <vcount> <vlan_id> + [ <path> <hash> <flags> <nh> <intf> + ] ] [ <pss_peer> <pss_id>
<pss_repl_id> <pss_oif> <pss_hash_algo> <pss_path_intf> + <pss_vcount> <vlan_pss_id> + [ <pss_path>
<pss_hash> <pss_flags> <pss_nh> <pss_intf> + ] ] ] ]
```

Syntax Description

show	show
forwarding	display fib information
nve	nve related info
l2	L2 info
ingress-replication-peers	ingress replication peer info
ipv4	(Optional) ipv4 peer
<i>peer_ip</i>	(Optional) show detailed info of a peer
ipv6	(Optional) ipv6 peer
__readonly__	(Optional)
TABLE_VLAN	(Optional) vlan peer ids table
<i>vlan_id</i>	(Optional) vlan id
<i>vni</i>	(Optional) vni
<i>ifindex</i>	(Optional) ifindex
<i>plt_space</i>	(Optional) platform space
<i>peer</i>	(Optional) peer_address
TABLE_PSS_VLAN	(Optional) vlan-peer in pss
<i>vlan_pss_id</i>	(Optional) pss_peer_id
<i>VNI</i>	(Optional) vni
<i>vtep</i>	(Optional) vtep
<i>peercnt</i>	(Optional) peer count
<i>pss_peer</i>	(Optional) peer address
<i>marked</i>	(Optional) marked

<i>peer</i>	(Optional) peer
<i>id</i>	(Optional) id
<i>repl_id</i>	(Optional) repl_id
<i>oif</i>	(Optional) oif
<i>path_intf</i>	(Optional) path intf name
<i>hash_algo</i>	(Optional) hash algo used
<i>vcount</i>	(Optional) vlan count
<i>vlan_id</i>	(Optional) vlan id
<i>path</i>	(Optional) ecmp path
<i>hash</i>	(Optional) ecmp hash
<i>flags</i>	(Optional) ecmp flags
<i>nh</i>	(Optional) ecmp nh
<i>intf</i>	(Optional) ecmp interfaces
<i>pss_peer</i>	(Optional) peer
<i>pss_id</i>	(Optional) id
<i>pss_repl_id</i>	(Optional) repl_id
<i>pss_oif</i>	(Optional) oif
<i>pss_path_intf</i>	(Optional) path intf name
<i>pss_hash_algo</i>	(Optional) hash algo used
<i>pss_vcount</i>	(Optional) vlan count
<i>vlan_pss_id</i>	(Optional) vlan id
<i>pss_path</i>	(Optional) pss path
<i>pss_hash</i>	(Optional) pss hash
<i>pss_flags</i>	(Optional) pss flags
<i>pss_nh</i>	(Optional) pss nh
<i>pss_intf</i>	(Optional) pss intf

Command Mode

- /exec

show forwarding nve l3 adjacency tunnel

```
show forwarding nve l3 adjacency tunnel [ <tunnel_id> | all ] [ bd <bd_id> | detail | module <module> | table
<table_id> ] [ __readonly__ TABLE_nvel3adj <tunnel_id> <bd_id> <table_id> <VNI> <Drop> <RefCount>
<Origin> <State> <Del> [ <sw_index> <hw_index0> <hw_index1> <hw_index2> ] ]
```

Syntax Description

show	
forwarding	display fib information
nve	nve related info
l3	Layer 3
adjacency	Adjacency info
tunnel	VXLAN tunnel
<i>tunnel_id</i>	(Optional) tunnel_id
all	(Optional) show adjacency info for all peers
bd	(Optional) BD info
<i>bd_id</i>	(Optional) bd_id
detail	(Optional) Show detailed information
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
table	(Optional) Tenant table-id
<i>table_id</i>	(Optional) tenant table-id
__readonly__	(Optional)
TABLE_nvel3adj	(Optional)
<i>tunnel_id</i>	(Optional) tunnel_id
<i>bd_id</i>	(Optional) bd_id
<i>table_id</i>	(Optional) tenant table-id
VNI	(Optional) vni
Drop	(Optional) Drop
RefCount	(Optional) Refcount
Origin	(Optional) origin

<i>State</i>	(Optional) state
<i>Del</i>	(Optional) del
<i>sw_index</i>	(Optional)
<i>hw_index0</i>	(Optional)
<i>hw_index1</i>	(Optional)
<i>hw_index2</i>	(Optional)

Command Mode

- /exec

show forwarding nve l3 adjacency v6-tunnel

```
show forwarding nve l3 adjacency v6-tunnel [ <peer-ip> | all ] [ bd <bd_id> | detail | module <num> | table
<table_id> ] [ __readonly__ TABLE_nve13adj <peer-ip> <bd_id> <table_id> <VNI> <Drop> <Refcount>
<Origin> <State> <Del> <sw_index> <hw_index0> <hw_index1> <hw_index2> ]
```

Syntax Description

show	
forwarding	display fib information
nve	nve related info
l3	Layer 3
adjacency	Adjacency info
v6-tunnel	VXLAN V6 tunnel
all	(Optional) Show adjacency for all peers
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)
TABLE_nve13adj	(Optional)
<i>bd_id</i>	(Optional) bd id
<i>table_id</i>	(Optional) tenant table-id
VNI	(Optional) vni
Drop	(Optional) Drop
Refcount	(Optional) Refcount
Origin	(Optional) origin
State	(Optional) state
Del	(Optional) del

<i>sw_index</i>	(Optional)
<i>hw_index0</i>	(Optional)
<i>hw_index1</i>	(Optional)
<i>hw_index2</i>	(Optional)

Command Mode

- /exec

show forwarding nve l3 ecmp

```
show forwarding nve l3 ecmp [ __readonly__ { TABLE_nve13ecmp <hw_index> <ecmp_hash> <num_paths>
<table_id> <flags> <adj_flags> <ref_count> { TABLE_tunnel_info [ <tunnel_id> | <tunnel_ip> ] <segment_id>
} <hw_ecmp_index0> <hw_ecmp_index1> <hw_ecmp_index2> } ]
```

Syntax Description

show	
forwarding	display fib information
nve	nve related info
l3	Layer 3
ecmp	nve ecmp info
<i>__readonly__</i>	(Optional)
TABLE_nve13ecmp	(Optional) nve l3 ecmp table
<i>hw_index</i>	(Optional) hw_index address pointer
<i>ecmp_hash</i>	(Optional) ecmp hash
<i>num_paths</i>	(Optional) number of members in ECMP
<i>table_id</i>	(Optional) table id
<i>flags</i>	(Optional) flags
<i>adj_flags</i>	(Optional) adj flags
<i>ref_count</i>	(Optional) num of references
TABLE_tunnel_info	(Optional)
<i>tunnel_id</i>	(Optional) tunnel id
<i>tunnel_ip</i>	(Optional) v6 tunnel ip
<i>segment_id</i>	(Optional) segment id
<i>hw_ecmp_index0</i>	(Optional) HW ECMP Index Unit 0
<i>hw_ecmp_index1</i>	(Optional) HW ECMP Index Unit 1
<i>hw_ecmp_index2</i>	(Optional) HW ECMP Index Unit 2

Command Mode

- /exec

show forwarding nve l3 peers

```
show forwarding nve l3 peers [ peers <peer_id> | tunnel <tunnel_id> | detail | module <module> ] + [
__readonly__ { TABLE_l3peers <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>module</i>	(Optional) Slot/module number
<i>__readonly__</i>	(Optional)
TABLE_l3peers	(Optional) all l3 nve peers
<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 nve underlay-interfaces

```
show forwarding nve underlay-interfaces [ __readonly__ { <broadcast_status> <broadcast_level>
<multicast_status> <multicast_level> <unicast_status> <unicast_level> <no_of_uplink_interfaces> } [ {
TABLE_uplinks <ifindex> <peerid_bmp> <is_dci> [ <phy_if> ] } ] ]
```

Syntax Description

show	show
forwarding	display fib information
nve	NVE related info
underlay-interfaces	underlay interfaces info
<i>__readonly__</i>	(Optional)
<i>broadcast_status</i>	(Optional) status
<i>broadcast_level</i>	(Optional) broadcast level
<i>multicast_status</i>	(Optional) multicast status
<i>multicast_level</i>	(Optional) multicast level
<i>unicast_status</i>	(Optional) unicast status
<i>unicast_level</i>	(Optional) unicast level
<i>no_of_uplink_interfaces</i>	(Optional) Number of uplink interfaces
TABLE_uplinks	(Optional)
<i>ifindex</i>	(Optional) uplink ifindex
<i>phy_if</i>	(Optional) uplink physical interface
<i>peerid_bmp</i>	(Optional) peerid bitmap
<i>is_dci</i>	(Optional) dci flag

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
__readonly__	(Optional)
<i>vlan</i>	(Optional) Vlan information
<i>peer-id</i>	(Optional) peer-id

Command Mode

- /exec

show forwarding security group-tag

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> | vlan <vlan_id> ] [
ipv4 ] security group-tag [ <addr> ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ TABLE_sgt_vrf { <tid> <pfx-count> [ TABLE_sgt_prefix [ <ipa> ] [ <tag> ] [ <tv> ]
} ] ]
```

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
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
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
TABLE_sgt_vrf	(Optional) vrf table
<i>tid</i>	(Optional) table identifier
<i>pfx-count</i>	(Optional) total prefix count in VRF
TABLE_sgt_prefix	(Optional) all xml prefix entries
<i>ipa</i>	(Optional) ip address
<i>tag</i>	(Optional) security group tag

<i>tv</i>	(Optional) sgt valid
-----------	----------------------

Command Mode

- /exec

show forwarding security mac

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ ipv4 ] security
mac [ <addr> ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] + [ __readonly__
TABLE_sec_vrf { <tid> <pfx-count> [ TABLE_sec_prefix <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
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
__readonly__	(Optional)
TABLE_sec_vrf	(Optional) security vrf table
<i>tid</i>	(Optional) table identifier
<i>pfx-count</i>	(Optional) total prefix count in VRF
TABLE_sec_prefix	(Optional) all xml security prefix entries
<i>ipa</i>	(Optional) ip address
<i>mac</i>	(Optional) mac address
<i>m</i>	(Optional) 1 => ip->mac binding
<i>v</i>	(Optional) 1 => ip->vlan binding
<i>p</i>	(Optional) 1 => ip->port binding

<i>intf</i>	(Optional) ip->port interface
-------------	-------------------------------

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
<i>__readonly__</i>	(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
<i>__readonly__</i>	(Optional)
<i>op</i>	(Optional) output

Command Mode

- /exec

show fte event

```
show fte event [ name ] [ { <eventname> } ] [ __readonly__ <event> <description> <use_count>
<latency_threshold> <latency_unit> <analytics_changed_flow_count> <latency_flow_count> ]
```

Syntax Description

show	Show running system information
fte	Show FTE information
event	Show Event Configuration
name	(Optional) Show the configuration for a specific FTE Event
<i>eventname</i>	(Optional) Specify a event
<i>__readonly__</i>	(Optional)
<i>event</i>	(Optional)
<i>description</i>	(Optional)
<i>use_count</i>	(Optional)
<i>latency_threshold</i>	(Optional)
<i>latency_unit</i>	(Optional)
<i>analytics_changed_flow_count</i>	(Optional)
<i>latency_flow_count</i>	(Optional)

Command Mode

- /exec

show fte exporter

```
show fte exporter [ name ] [ <exportername> ] [ __readonly__ <exporter> <description> <dest> <vrf> <vrf_id>
<vrf_resolved> <dest_udp> <source_intf> <source_ip> <exporter-id> ]
```

Syntax Description

show	Show running system information
fte	Show FTE information
exporter	Show FTE Exporter Configuration
name	(Optional) Show a specific FTE 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>exporter-id</i>	(Optional)

Command Mode

- /exec

show fte monitor

```
show fte monitor [ name ] [ <monitorname> [ cache [ detailed ] ] ] [ __readonly__ <monitor> <use_count>
<description> <record> <event> <exporter1> <exporter2> <bucket_id> <src_addr> <dest_addr> ]
```

Syntax Description

show	Show running system information
fte	Show FTE information
monitor	Show Monitor Configuration
name	(Optional) Show a specific FTE 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>event</i>	(Optional)
<i>exporter1</i>	(Optional)
<i>exporter2</i>	(Optional)
<i>bucket_id</i>	(Optional)
<i>src_addr</i>	(Optional)
<i>dest_addr</i>	(Optional)

Command Mode

- /exec

show fte record

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

Syntax Description

show	Show running system information
fte	Show FTE information
record	Show Record Configuration
name	(Optional) Show the configuration for a specific FTE Record
<i>recordname</i>	(Optional) Specify a record
fte-original	(Optional) Traditional IPv4 input FTE with origin ASs
fte	(Optional) Traditional FTE 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 FTE
input	(Optional) Input FTE
protocol-port	(Optional) Protocol and Ports aggregation scheme
__readonly__	(Optional)
<i>record</i>	(Optional)
<i>description</i>	(Optional)
<i>use_count</i>	(Optional)

Command Mode

- /exec



G Show Commands

- [show guestshell](#), on page 620

show guestshell

```
show guestshell [ { detail } ] [ __readonly__ [ TABLE_detail <name> <state> <package_name> <ova_path>
<application_name> <application_version> <application_description> <key_type> <signing_method>
<licensing_name> <licensing_version> <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



H Show Commands

- [show hardware](#), on page 625
- [show hardware access-list lou resource threshold](#), on page 628
- [show hardware access-list resource pooling](#), on page 629
- [show hardware access-list tcam](#), on page 630
- [show hardware capacity](#), on page 631
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- [show hsrp delay](#), on page 700
- [show hsrp mgo](#), on page 701
- [show hsrp summary](#), on page 702

show hardware

```
show hardware [ __readonly__ <header_str> <bios_ver_str> [ <loader_ver_str> ] <kickstart_ver_str>
<nxos_ver_str> [ <sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <nxos_file_name> <kick_cmpl_time>
<nxos_cmpl_time> <kick_tmstamp> <nxos_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> ] [ <slot1_size> ] <kern_uptm_days> <kern_uptm_hrs>
<kern_uptm_mins> <kern_uptm_secs> [ <rr_usecs> ] [ <rr_ctime> ] <rr_reason> [ <rr_sys_ver> ] [
<rr_service> ] <plugins> [ <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> [ <num_slot_str> ] ] ] } }
```

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>nxos_ver_str</i>	(Optional)
<i>sys_ver_str</i>	(Optional)
<i>bios_cmpl_time</i>	(Optional)
<i>kick_file_name</i>	(Optional)
<i>nxos_file_name</i>	(Optional)
<i>kick_cmpl_time</i>	(Optional)
<i>nxos_cmpl_time</i>	(Optional)
<i>kick_tmstamp</i>	(Optional)
<i>nxos_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>slot1_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_usec</i>	(Optional)
<i>rr_ctime</i>	(Optional)
<i>rr_reason</i>	(Optional)
<i>rr_sys_ver</i>	(Optional)
<i>rr_service</i>	(Optional)
<i>plugins</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
__readonly__	(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_tx_pps> ] [ <eobc_tx_packets> ] [
<eobc_tx_dropped> ] [ <eobc_rx_pps> ] [ <eobc_rx_packets> ] [ <eobc_rx_dropped> ] } ]
```

Syntax Description

show	Show running system information
hardware	Hardware related
capacity	resource inventory and/or usage level
eobc	EOBC resources
__readonly__	(Optional)
eobc_usage	(Optional)
<i>eobc_tx_packets</i>	(Optional)
<i>eobc_tx_dropped</i>	(Optional)
<i>eobc_tx_pps</i>	(Optional)
<i>eobc_rx_packets</i>	(Optional)
<i>eobc_rx_dropped</i>	(Optional)
<i>eobc_rx_pps</i>	(Optional)

Command Mode

- /exec

show hardware capacity fabric-utilization

```
show hardware capacity fabric-utilization [ __readonly__ { TABLE_fabutl <mod> <bandwidth> <ingress>
<egress> } ]
```

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
__readonly__	(Optional)
TABLE_fabutl	(Optional) fabric utilization table
<i>mod</i>	(Optional)
<i>bandwidth</i>	(Optional)
<i>ingress</i>	(Optional)
<i>egress</i>	(Optional)

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_moddrops <mod_num_drops> <tx_drops>
<rx_drops> <max_tx_port> <max_rx_port> } { TABLE_modbuffers <mod_num_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
<i>__readonly__</i>	(Optional) Read Only
<i>mod_num_drops</i>	(Optional) Module number for Tx/Rx drops
TABLE_moddrops	(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>mod_num_buffers</i>	(Optional) Module number for Tx/Rx buffers
TABLE_modbuffers	(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)
TABLE_lcinfo	(Optional)
<i>mod_num</i>	(Optional)
<i>model_num</i>	(Optional)
<i>part_num</i>	(Optional)
<i>serial_num</i>	(Optional)
TABLE_xbarinfo	(Optional)
<i>mod_num1</i>	(Optional)
<i>model_num1</i>	(Optional)
<i>part_num1</i>	(Optional)
<i>serial_num1</i>	(Optional)
TABLE_flash_nvram_info	(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_mod_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) Read_Only
TABLE_feature_support	(Optional) show features supported
<i>feature_name</i>	(Optional) feature name
TABLE_mod_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 etrap

```
show hardware flow etrap [ module <module> ] [ { unit <unit> slice <slice> } ] [ __readonly__ [ {
TABLE_etrap_flows <unit> <slice> <index> <keytype> <src_addr> <dst_addr> <src_port> <dst_port>
<proto> <rate> } ] ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Traffic flow information
etrap	Elephant Trap information
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
unit	(Optional) Asic Number
<i>unit</i>	(Optional) Asic Number on the module
slice	(Optional) slice num on asic
<i>slice</i>	(Optional) slice number on asic
<i>__readonly__</i>	(Optional) Read Only
TABLE_etrap_flows	(Optional) Elephant trap flows
<i>unit</i>	(Optional) ASIC number on the module
<i>slice</i>	(Optional) Slice number on the ASIC
<i>index</i>	(Optional) Elephant trap table index
<i>keytype</i>	(Optional) Elephant trap table key type
<i>src_addr</i>	(Optional) Elephant trap flow src address
<i>dst_addr</i>	(Optional) Elephant trap flow dst address
<i>src_port</i>	(Optional) Elephant trap flow src port
<i>dst_port</i>	(Optional) Elephant trap flow src port
<i>proto</i>	(Optional) Elephant trap flow protocol
<i>rate</i>	(Optional) Elephant trap flow protocol

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 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 I2

```
show hardware flow I2 [ { { 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
I2	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 [ __readonly__ { memscan_interval <mscan_interval> } {
memscan_rate <mscan_rate> } [ TABLE_ser <table_name> <entry_count> <table_head> <table_tail> [
TABLE_ser_entry_new <n_entry_index> [ <reg_id> ] [ <reg_port> ] [ <reg_index> ] [ <table_id> ] [
<table_index> ] <detections> <corrections> [ <last_detection_ts> ] [ <last_correction_ts> ] ] [
TABLE_ser_entry_old <o_entry_index> <mem_addr> <cause_bits> <event_type> <last_event> <last_time>
] ] [ { parity_detect_counter <parity_detect_cnt> } ] [ { parity_correct_counter <parity_correct_cnt> } ] [ {
reg_parity_detect_counter <reg_parity_detect_cnt> } ] [ { reg_parity_correct_counter <reg_parity_correct_cnt>
} ] [ { tcam_parity_detect_counter <tcam_parity_detect_cnt> } ] [ { tcam_parity_correct_counter
<tcam_parity_correct_cnt> } ] [ { sram_parity_detect_counter <sram_parity_detect_cnt> } ] [ {
sram_parity_correct_counter <sram_parity_correct_cnt> } ] [ { TABLE_ser_tbl_parity <table_id> <detections>
<corrections> } ] ] ]
```

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
__readonly__	(Optional) Read Only
memscan_interval	(Optional) memory scan interval value
<i>mscan_interval</i>	(Optional) mem scan interval
memscan_rate	(Optional) memory scan rate value
<i>mscan_rate</i>	(Optional) mem scan rate
TABLE_ser	(Optional) ser table list
<i>table_name</i>	(Optional) table name
<i>entry_count</i>	(Optional) total entries in table
<i>table_head</i>	(Optional) start of entry index
<i>table_tail</i>	(Optional) end of entry index
TABLE_ser_entry_new	(Optional) ser table entry with new format
<i>n_entry_index</i>	(Optional) entry index
<i>reg_id</i>	(Optional) register id

<i>reg_port</i>	(Optional) port
<i>reg_index</i>	(Optional) register index
<i>table_id</i>	(Optional) table id
<i>table_index</i>	(Optional) table_index
<i>detections</i>	(Optional) parity detetction count
<i>corrections</i>	(Optional) parity correction count
<i>last_detection_ts</i>	(Optional) last detetction timestamp
<i>last_correction_ts</i>	(Optional) last correction timestamp
TABLE_ser_entry_old	(Optional) ser table entry with new format
<i>o_entry_index</i>	(Optional) table entry index
<i>mem_addr</i>	(Optional) memory address
<i>cause_bits</i>	(Optional) cause bit
<i>event_type</i>	(Optional) type of event
<i>last_event</i>	(Optional) last event that occurred
<i>last_time</i>	(Optional) last time of event
parity_detect_counter	(Optional) parity detect count
<i>parity_detect_cnt</i>	(Optional) count of parity detect
parity_correct_counter	(Optional) parity correct count
<i>parity_correct_cnt</i>	(Optional) count of parity correct
reg_parity_detect_counter	(Optional) reg parity detect count
<i>reg_parity_detect_cnt</i>	(Optional) count of reg parity detect
reg_parity_correct_counter	(Optional) reg parity correct count
<i>reg_parity_correct_cnt</i>	(Optional) count of reg parity correct
tcam_parity_detect_counter	(Optional) tcam parity detect count
<i>tcam_parity_detect_cnt</i>	(Optional) count of tcam parity detect
tcam_parity_correct_counter	(Optional) tcam parity correct count
<i>tcam_parity_correct_cnt</i>	(Optional) count of tcam parity correct
sram_parity_detect_counter	(Optional) sram parity detect count
<i>sram_parity_detect_cnt</i>	(Optional) count of sram parity detect

<i>sram_parity_correct_counter</i>	(Optional) sram parity correct count
<i>sram_parity_correct_cnt</i>	(Optional) count of sram parity correct
TABLE_ser_tbl_parity	(Optional) all ser tables
<i>table_id</i>	(Optional) table name
<i>detections</i>	(Optional) parity detection count for ser table
<i>corrections</i>	(Optional) parity correction count for ser table

Command Mode

- /exec

show hardware forwarding memory health summary

```
show hardware forwarding memory health summary [ __readonly__ [ { parity_detect_counter
<parity_detect_cnt> } ] [ { parity_correct_counter <parity_correct_cnt> } ] [ { reg_parity_detect_counter
<reg_parity_detect_cnt> } ] [ { reg_parity_correct_counter <reg_parity_correct_cnt> } ] [ {
tcam_parity_detect_counter <tcam_parity_detect_cnt> } ] [ { tcam_parity_correct_counter
<tcam_parity_correct_cnt> } ] [ { sram_parity_detect_counter <sram_parity_detect_cnt> } ] [ {
sram_parity_correct_counter <sram_parity_correct_cnt> } ] [ { TABLE_ser_tbl_parity <table_id> <detections>
<corrections> } ] ] ]
```

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
<i>__readonly__</i>	(Optional) Read Only
parity_detect_counter	(Optional) parity detect count
<i>parity_detect_cnt</i>	(Optional) count of parity detect
parity_correct_counter	(Optional) parity correct count
<i>parity_correct_cnt</i>	(Optional) count of parity correct
reg_parity_detect_counter	(Optional) reg parity detect count
<i>reg_parity_detect_cnt</i>	(Optional) count of reg parity detect
reg_parity_correct_counter	(Optional) reg parity correct count
<i>reg_parity_correct_cnt</i>	(Optional) count of reg parity correct
tcam_parity_detect_counter	(Optional) tcam parity detect count
<i>tcam_parity_detect_cnt</i>	(Optional) count of tcam parity detect
tcam_parity_correct_counter	(Optional) tcam parity correct count
<i>tcam_parity_correct_cnt</i>	(Optional) count of tcam parity correct
sram_parity_detect_counter	(Optional) sram parity detect count
<i>sram_parity_detect_cnt</i>	(Optional) count of sram parity detect
sram_parity_correct_counter	(Optional) sram parity correct count

<i>sram_parity_correct_cnt</i>	(Optional) count of sram parity correct
TABLE_ser_tbl_parity	(Optional) all ser tables
<i>table_id</i>	(Optional) table name
<i>detections</i>	(Optional) parity detection count for ser table
<i>corrections</i>	(Optional) parity correction count for ser table

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 buffer monitor show hardware profile buffer monitor internal

```
show hardware profile buffer monitor [ interface <intf-num> | buffer-block <buf-blk> | multicast <mcst-blk>
] { brief | detail [ last <samples-per-intf> ] | sampling } [ module <module> ] | show hardware profile buffer
monitor { internal-raw | summary [ module <module> ] } [ __readonly__ <cmd_name> <cmd_issue_time>
[ TABLE_summary <summary_util_name> <summary_1sec_util> <summary_5sec_util>
<summary_60sec_util> <summary_5min_util> <summary_1hr_util> <summary_total_buffer>
<summary_class_threshold> ] [ TABLE_ucst_hdr <ucst_hdr_util_name> <ucst_hdr_1sec_util>
<ucst_hdr_5sec_util> <ucst_hdr_60sec_util> <ucst_hdr_5min_util> <ucst_hdr_1hr_util>
<ucst_hdr_total_buffer> <ucst_hdr_class_threshold> ] [ TABLE_brief_entry <brief_util_name>
<brief_1sec_util> <brief_5sec_util> <brief_60sec_util> <brief_5min_util> <brief_1hr_util> ] [
TABLE_mcst_hdr <mcst_hdr_util_name> <mcst_hdr_1sec_util> <mcst_hdr_5sec_util> <mcst_hdr_60sec_util>
<mcst_hdr_5min_util> <mcst_hdr_1hr_util> <mcst_hdr_total_buffer> <mcst_hdr_class_threshold> ] [
TABLE_detail_entry <detail_util_name> <detail_util_state> <time_stamp> <384k_util> <768k_util>
<1152k_util> <1536k_util> <1920k_util> <2304k_util> <2688k_util> <3072k_util> <3456k_util>
<3840k_util> <4224k_util> <4608k_util> <4992k_util> <5376k_util> <5760k_util> <6144k_util> ] [
TABLE_sampling <sampling_interval> ] ]
```

Syntax Description

show	Show running system information
hardware	Show hardware profile buffer monitor data
profile	profile buffer monitor data
buffer	buffer
monitor	buffer monitor
interface	(Optional) show buffer monitoring data of an interface
<i>intf-num</i>	(Optional) show buffer monitoring data of an interface
buffer-block	(Optional) buffer block
<i>buf-blk</i>	(Optional) buffer block
multicast	(Optional) multicast buffer block
<i>mcst-blk</i>	(Optional) multicast buffer block
brief	show brief buffer monitor data
detail	show detail buffer monitor data
internal-raw	show buffer monitoring internal raw data
summary	show summary buffer monitor data
sampling	show sampling interval

<i>last</i>	(Optional) show detail buffer monitor data for last N intervals
<i>samples-per-intf</i>	(Optional) number of samples per interface, max 300
<i>module</i>	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
<i>__readonly__</i>	(Optional) Read Only
<i>cmd_name</i>	(Optional) Command Name
<i>cmd_issue_time</i>	(Optional) Command Issue Time
TABLE_summary	(Optional) Table Summary
<i>summary_util_name</i>	(Optional) Names of Summary Utilization
<i>summary_1sec_util</i>	(Optional) Summary 1sec Buffer Utilization
<i>summary_5sec_util</i>	(Optional) Summary 5sec Buffer Utilization
<i>summary_60sec_util</i>	(Optional) Summary 60sec Buffer Utilization
<i>summary_5min_util</i>	(Optional) Summary 5min Buffer Utilization
<i>summary_1hr_util</i>	(Optional) Summary 1hour Buffer Utilization
<i>summary_total_buffer</i>	(Optional) Summary Total Buffer Available
<i>summary_class_threshold</i>	(Optional) Summary Buffer Threshold of Default Class
TABLE_ucst_hdr	(Optional) Table Ucst Header
<i>ucst_hdr_util_name</i>	(Optional) Names of Utilization
<i>ucst_hdr_1sec_util</i>	(Optional) Ucst 1sec Buffer Utilization
<i>ucst_hdr_5sec_util</i>	(Optional) Ucst 5sec Buffer Utilization
<i>ucst_hdr_60sec_util</i>	(Optional) Ucst 60sec Buffer Utilization
<i>ucst_hdr_5min_util</i>	(Optional) Ucst 5min Buffer Utilization
<i>ucst_hdr_1hr_util</i>	(Optional) Ucst 1hour Buffer Utilization
<i>ucst_hdr_total_buffer</i>	(Optional) Ucst Total Buffer Available
<i>ucst_hdr_class_threshold</i>	(Optional) Ucst Buffer Threshold of Default Class
TABLE_brief_entry	(Optional) Table Brief Entry
<i>brief_util_name</i>	(Optional) Brief Names of Utilization
<i>brief_1sec_util</i>	(Optional) Brief 1sec Buffer Utilization
<i>brief_5sec_util</i>	(Optional) Brief 5sec Buffer Utilization

<i>brief_60sec_util</i>	(Optional) Brief 60sec Buffer Utilization
<i>brief_5min_util</i>	(Optional) Brief 5min Buffer Utilization
<i>brief_1hr_util</i>	(Optional) Brief 1hour Buffer Utilization
TABLE_mcst_hdr	(Optional) Table Mcst Header
<i>mcst_hdr_util_name</i>	(Optional) Mcst Buffer Block Names of Utilization
<i>mcst_hdr_1sec_util</i>	(Optional) Mcst Buffer Block 1sec Buffer Utilization
<i>mcst_hdr_5sec_util</i>	(Optional) Mcst Buffer Block 5sec Buffer Utilization
<i>mcst_hdr_60sec_util</i>	(Optional) Mcst Buffer Block 60sec Buffer Utilization
<i>mcst_hdr_5min_util</i>	(Optional) Mcst Buffer Block 5min Buffer Utilization
<i>mcst_hdr_1hr_util</i>	(Optional) Mcst Buffer Block 1hour Buffer Utilization
<i>mcst_hdr_total_buffer</i>	(Optional) Mcst Total Buffer Available
<i>mcst_hdr_class_threshold</i>	(Optional) Mcst Buffer Threshold of Default Class
TABLE_detail_entry	(Optional) Table Detail Entry
<i>detail_util_name</i>	(Optional) Detail Names of Utilization
<i>detail_util_state</i>	(Optional) Detail State of Utilization
<i>time_stamp</i>	(Optional) Time Stamp of Entry
<i>384k_util</i>	(Optional) 384KB Buffer Utilization
<i>768k_util</i>	(Optional) 768KB Buffer Utilization
<i>1152k_util</i>	(Optional) 1152KB Buffer Utilization
<i>1536k_util</i>	(Optional) 1536KB Buffer Utilization
<i>1920k_util</i>	(Optional) 1920KB Buffer Utilization
<i>2304k_util</i>	(Optional) 2304KB Buffer Utilization
<i>2688k_util</i>	(Optional) 2688KB Buffer Utilization
<i>3072k_util</i>	(Optional) 3072KB Buffer Utilization
<i>3456k_util</i>	(Optional) 3456KB Buffer Utilization
<i>3840k_util</i>	(Optional) 3840KB Buffer Utilization
<i>4224k_util</i>	(Optional) 4224KB Buffer Utilization
<i>4608k_util</i>	(Optional) 4608KB Buffer Utilization
<i>4992k_util</i>	(Optional) 4992KB Buffer Utilization

show hardware profile buffer monitor show hardware profile buffer monitor internal

<i>5376k_util</i>	(Optional) 5376KB Buffer Utilization
<i>5760k_util</i>	(Optional) 5760KB Buffer Utilization
<i>6144k_util</i>	(Optional) 6144KB Buffer Utilization
TABLE_sampling	(Optional) Table Sampling
<i>sampling_interval</i>	(Optional) Sampling Interval

Command Mode

- /exec

show hardware profile forwarding-mode

```
show hardware profile forwarding-mode [ __READONLY__ <forwarding-mode> [ <host-size> ] [
<unicast-size> ] [ <unicast-rpf-size> ] [ <unicast-ipv4-size> ] [ <unicast-ipv4-rpf-size> ] [ <unicast-ipv6-size>
] [ <multicast-size> ] [ <l2-size> ] [ <unified-size> ] ]
```

Syntax Description

show	Show running system information
hardware	Show hardware profile forwarding-mode
profile	profile forwarding-mode
forwarding-mode	forwarding-mode
<i>__READONLY__</i>	(Optional)
<i>forwarding-mode</i>	(Optional)
<i>host-size</i>	(Optional)
<i>unicast-size</i>	(Optional)
<i>unicast-rpf-size</i>	(Optional)
<i>unicast-ipv4-size</i>	(Optional)
<i>l2-size</i>	(Optional)
<i>unified-size</i>	(Optional)
<i>unicast-ipv4-rpf-size</i>	(Optional)
<i>unicast-ipv6-size</i>	(Optional)
<i>multicast-size</i>	(Optional)

Command Mode

- /exec

show hardware profile latency monitor sampling show hardware profile latency monitor

```
show hardware profile latency monitor { sampling | threshold } [ module <module> ] | show hardware profile
latency monitor { { summary [ detail | clear-timestamp ] } [ interface <intf-num> ] | { summary [ brief | sort
| top ] } | { raw [ verbose ] } [ module <module> ] } [ __readonly__ <cmd_issue_time> <device_instance> [
TABLE_sampling <sampling_interval> ] [ TABLE_threshold <threshold_avg> <threshold_max> ] [
TABLE_summary <summary_egress_port> <summary_sampling_interval> <summary_min_latency>
<summary_max_latency> <summary_avg_latency> <summary_std_deviation> ] [ TABLE_detail
<detail_timestamp> <detail_ifindex> <detail_fcnt> <detail_min_latency> <detail_max_latency>
<detail_avg_latency> ] [ TABLE_brief <brief_egress_port> <brief_avg_latency> ] ]
```

Syntax Description

show	Show running system information
hardware	Show hardware profile latency monitor data
profile	profile latency monitor data
latency	latency
monitor	latency monitor
sampling	show sampling interval
threshold	show threshold configured
summary	show switch-wide latency monitor data
detail	(Optional) show switch-wide or per-interface raw latency monitor data
clear-timestamp	(Optional) show switch-wide or per-interface latency clear timestamp
interface	(Optional) show per-interface latency monitor data
<i>intf-num</i>	(Optional) show per-interface latency monitor data
brief	(Optional) show switch-wide average latency
sort	(Optional) show switch-wide average latency in descending order
top	(Optional) show switch-wide top ten average latency
raw	show switch-wide or per-interface raw latency monitor data
verbose	(Optional) show switch-wide or per-interface raw latency monitor data
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
__readonly__	(Optional) Read only

<i>cmd_issue_time</i>	(Optional) Command issue time
<i>device_instance</i>	(Optional) Device instance
TABLE_sampling	(Optional) Table Sampling
<i>sampling_interval</i>	(Optional) Sampling Interval
TABLE_threshold	(Optional) Table Threshold
<i>threshold_avg</i>	(Optional) Threshold Average
<i>threshold_max</i>	(Optional) Threshold Max
TABLE_summary	(Optional) Table summary
<i>summary_egress_port</i>	(Optional) Summary Egress Port
<i>summary_sampling_interval</i>	(Optional) Summary Sampling Interval
<i>summary_min_latency</i>	(Optional) Summary Min latency
<i>summary_max_latency</i>	(Optional) Summary Max latency
<i>summary_avg_latency</i>	(Optional) Summary Avg latency
<i>summary_std_deviation</i>	(Optional) Summary Std Deviation
TABLE_detail	(Optional) Table summary detail
<i>detail_timestamp</i>	(Optional) Detail Timestamp
<i>detail_ifindex</i>	(Optional) Detail ifindex
<i>detail_fcnt</i>	(Optional) Detail fcnt
<i>detail_min_latency</i>	(Optional) Detail Min latency
<i>detail_max_latency</i>	(Optional) Detail Max latency
<i>detail_avg_latency</i>	(Optional) Detail Avg latency
TABLE_brief	(Optional) Table summary brief
<i>brief_egress_port</i>	(Optional) Brief Egress Port
<i>brief_avg_latency</i>	(Optional) Brief Avg latency

Command Mode

- /exec

show hardware profile module

show hardware profile module <module> [__readonly__ { TABLE_profile <slot> <type> }]

Syntax Description

show	Show running system information
hardware	Show hardware profile
profile	Profile settings
module	Enter module number
<i>module</i>	
<i>__readonly__</i>	(Optional)
TABLE_profile	(Optional) Show version info
<i>slot</i>	(Optional) Slot
<i>type</i>	(Optional) Profile type

Command Mode

- /exec

show hardware profile packet-drop

```
show hardware profile packet-drop { status | data [ instance <cap_instance> ] | event [ instance <cap_instance> ] } [ __readonly__ [ <enable><state> <cap-scope><drop-trigger> <cap-count><cap-time> <file-inst> ] [ TABLE_hardware_packet_drop_status <profile-name><start-thres><stop-thres> ] [ TABLE_hardware_packet_drop_data <src-port><dst-port> <qos-grp><que-depth> <payload> ] [ TABLE_hardware_packet_drop_event <src-port><dst-port> <qos-grp><que-depth> <drop-reason> ] ]
```

Syntax Description

show	Show running system information
hardware	Change hardware usage settings
profile	Profile settings
packet-drop	Packet Drop parameters
status	Packet Drop status
data	Packet Drop circular-buffer data
instance	(Optional) Packet Drop captured instance
<i>cap_instance</i>	(Optional) Value 1-5
event	Packet Drop event-buffer data
instance	(Optional) Packet Drop captured instance
<i>cap_instance</i>	(Optional) Value 1-5
<i>__readonly__</i>	(Optional)
<i>file-inst</i>	(Optional) Packet-Drop file instance
TABLE_hardware_packet_drop_status	(Optional) XML Packet-drop stats
TABLE_hardware_packet_drop_data	(Optional) XML Packet-drop data
<i>payload</i>	(Optional) Packet-Drop Data Packet Payload (80bytes)
TABLE_hardware_packet_drop_event	(Optional) XML Packet-drop event
<i>drop-reason</i>	(Optional) PacketDrop Event Drop trigger

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> [
<max_mcast_transit_route_limit> ] [ <max_v6_lpm_limit> ] [ <max_v6_lpm_65_to_127_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_transit_routes> ]
<used_mcast_oifl> <used_host_in_host_total> <used_host4_in_host> <used_host6_in_host>
<max_ecmp_table_limit> <used_ecmp_table> <max_ecmp_nh_table_limit> <used_ecmp_nh_table> [
<mfib_fd_status> ] [ <mfib_fd_maxroute> ] [ <mfib_fd_count> ] [ <lpm_to_host_migrate_table> ] [
<host_to_lpm_migrate_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>max_v6_lpm_limit</i>	(Optional) Max Ucast IPv6 LPM Limit Entries
<i>max_v6_lpm_65_to_127_limit</i>	(Optional) Max Ucast IPv6 LPM_65_to_127 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>max_ecmp_table_limit</i>	(Optional) Max ECMP table Limit Entries
<i>used_ecmp_table</i>	(Optional) Used ECMP Table Entries
<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
<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>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

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
<i>__readonly__</i>	(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
__readonly__	(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> ] <ingress_pg_min> <pg_min_value> ]
```

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
<i>ingress_pg_min</i>	(Optional) Enable/Disable PG Min
<i>pg_min_value</i>	(Optional) PG Min Value

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 | urpf-fail ] [ __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
urpf-fail	(Optional) URPF fail 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

```
show hardware rate-limiter [ module <module> ] [ layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2
<l2-opts> | <opts> | fl <f1-opts> | span-egress | urpf-fail ] [ __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
urpf-fail	(Optional) URPF fail 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 [ __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
span-egress	SPAN/ERSPAN egress packets
<i>__readonly__</i>	(Optional)
<i>TABLE hardware_rate_limiter</i>	(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 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
__readonly__	(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_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> ] { [ TABLE_grp_track_obj <sh_track_obj>
<sh_track_obj_state> <sh_track_obj_prio> ] } <sh_num_track_obj> <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

<i>all</i>	(Optional) Display all VIPs
<i>__readonly__</i>	(Optional) Read only
<i>show_hsrp_start</i>	(Optional) Show hsrp start
<i>TABLE_grp_detail</i>	(Optional) Group table detail
<i>sh_if_index</i>	(Optional) Interface type and number
<i>sh_group_num</i>	(Optional) Group number
<i>sh_group_state</i>	(Optional) HSRP state
<i>sh_state_reason</i>	(Optional) Reason
<i>sh_group_type</i>	(Optional) Group type
<i>sh_group_version</i>	(Optional) Group version
<i>sh_prio</i>	(Optional) Priority
<i>sh_cfg_prio</i>	(Optional) Configured priority
<i>sh_fwd_lower_threshold</i>	(Optional) Lower threshold value
<i>sh_fwd_upper_threshold</i>	(Optional) Upper threshold value
<i>sh_can_forward</i>	(Optional) Current forwarding status
<i>sh_preempt</i>	(Optional) Preemption enabled/not
<i>sh_preempt_min_delay</i>	(Optional) Preemption min delay
<i>sh_preempt_min_delay_active</i>	(Optional) Active preemption min delay
<i>sh_preempt_reload_delay</i>	(Optional) Preemption reload delay
<i>sh_preempt_reload_delay_active</i>	(Optional) Active preemption reload delay
<i>sh_preempt_sync_delay</i>	(Optional) Preemption sync delay
<i>sh_preempt_sync_delay_active</i>	(Optional) Active preemption sync delay
<i>sh_cur_hello</i>	(Optional) Current hello time
<i>sh_cur_hello_attr</i>	(Optional) Hello time in ms/not
<i>sh_cfg_hello</i>	(Optional) Configured hello time
<i>sh_cfg_hello_attr</i>	(Optional) Hello time in ms/not
<i>sh_active_hello</i>	(Optional) Active hello time
<i>sh_cur_hold</i>	(Optional) Current hold time
<i>sh_cur_hold_attr</i>	(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> ] } { [ <dst_addr> ] } [ <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 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 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 icam entries acl module inst

```
show icam entries acl module <module> inst <inst> [ history <num_intervals> ] [ sort { top <top_x> | sort-order
{ ascending | descending } | filter <f_f> [ exact ] | top <top_x> sort-order { ascending | descending } | top
<top_x> filter <f_f> [ exact ] | top <top_x> sort-order { ascending | descending } filter <f_f> [ exact ] | top
<top_x> filter <f_f> [ exact ] sort-order { ascending | descending } | sort-order { ascending | descending } top
<top_x> | sort-order { ascending | descending } filter <f_f> [ exact ] | sort-order { ascending | descending }
filter <f_f> [ exact ] top <top_x> | sort-order { ascending | descending } top <top_x> filter <f_f> [ exact ] |
filter <f_f> [ exact ] top <top_x> | filter <f_f> [ exact ] sort-order { ascending | descending } | filter <f_f> [
exact ] top <top_x> sort-order { ascending | descending } | filter <f_f> [ exact ] sort-order { ascending |
descending } top <top_x> } ] [ __readonly__ <module> <instance> [ <num_intervals> ] [ {
TABLE_ACL_entries <Feature> <Pkt_Type> <SourceIP_Mask_DestIP_Mask> <Action> <Intf_name>
<Stats> [ <Rate> } ] ] ]
```

Syntax Description

show	Show running system information
icam	intelligent CAM
entries	TCAM Entries with result and stats
acl	ACL entries
module	Module Number
<i>module</i>	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
<i>inst</i>	Enter Instance Number
sort	(Optional) Sorted display
top	(Optional) Show top x% entries (Default:100%)
<i>top_x</i>	(Optional) x% of entries to be displayed
sort-order	(Optional) Choose the order of displaying sorted entries (Default:descending)
ascending	(Optional) Sort in Ascending order of Stats
descending	(Optional) Sort in Descending order of Stats
filter	(Optional) Feature to be filtered (Default:All)
<i>f_f</i>	(Optional) Enter feature to be filtered
exact	(Optional) Exact match for feature filter
history	(Optional) Show entries history
<i>num_intervals</i>	(Optional) Number of intervals to display

<i>__readonly__</i>	(Optional) Read Only
<i>module</i>	(Optional) Module number
<i>instance</i>	(Optional) Instance number
<i>num_intervals</i>	(Optional) Number of intervals displayed
TABLE_ACL_entries	(Optional) Table for ACL entries
<i>Feature</i>	(Optional) Feature name
<i>Pkt_Type</i>	(Optional) Packet type
<i>SourceIP_Mask_DestIP_Mask</i>	(Optional) IP addresses
<i>Action</i>	(Optional) Action
<i>Intf_name</i>	(Optional) Interface name
<i>Stats</i>	(Optional) Total stats
<i>Rate</i>	(Optional) Rate packets/sec

Command Mode

- /exec

show icam health

```
show icam health [ __readonly__ { <Version> } [ { TABLE_cpu <CpuTypeName> <CpuTypeValue> } ] [
{ TABLE_mem <MemTypeName> <MemTypeValue> } ] [ { TABLE_ps <PsTypeName> <PsTypeValue>
} ] ]
```

Syntax Description

show	Show running system information
icam	iCAM - intelligent CAM
health	Health status
__readonly__	(Optional)
<i>Version</i>	(Optional) Version of output format
TABLE_cpu	(Optional) Table CPU Usage
<i>CpuTypeName</i>	(Optional) CPU Usage Type
<i>CpuTypeValue</i>	(Optional) CPU Usage Value
TABLE_mem	(Optional) Table Memory Usage
<i>MemTypeName</i>	(Optional) Memory Usage Type
<i>MemTypeValue</i>	(Optional) Memory Usage Value
TABLE_ps	(Optional) Table Power Supply Usage
<i>PsTypeName</i>	(Optional) Power Supply Information Type
<i>PsTypeValue</i>	(Optional) Power Supply Information Value

Command Mode

- /exec

show icam itd

```
show icam itd [ __readonly__ { <Version> } [ { TABLE_svc <Svc> <DG> [ { TABLE_stats <OrigNode>
<AssignTo> <Mode> <PktCnt> <PktPct> } ] } ] ] ]
```

Syntax Description

show	Show running system information
icam	iCAM - intelligent CAM
itd	Intelligent Traffic Director
<i>__readonly__</i>	(Optional)
<i>Version</i>	(Optional) Version of output format
<i>TABLE_svc</i>	(Optional) Table service
<i>Svc</i>	(Optional) Service
<i>DG</i>	(Optional) Device Group
<i>TABLE_stats</i>	(Optional) Table stats
<i>OrigNode</i>	(Optional) Original Node
<i>AssignTo</i>	(Optional) Assigned to
<i>Mode</i>	(Optional) Mode
<i>PktCnt</i>	(Optional) Packet Count
<i>PktPct</i>	(Optional) Packet Percentage

Command Mode

- /exec

show icam prediction entries acl module inst

```
show icam prediction entries acl module <module> inst <inst> <YYYY> <Month> <Date> <Time> [ top
<top_x> ] [ __readonly__ <module> <instance> [ { TABLE_PREDICTION_ACL_entries <Feature>
<Pkt_Type> <Value_Mask> <Action> <Intf_name> <Stats> <Prediction> } ] ]
```

Syntax Description

show	Show running system information
icam	intelligent CAM
prediction	Machine learning prediction
entries	TCAM Entries with result and stats
acl	ACL entries
module	Module Number
<i>module</i>	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
<i>inst</i>	Enter Instance Number
YYYY	Enter year in YYYY format
<i>Month</i>	Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>Date</i>	Enter day of month in dd format
<i>Time</i>	Enter hour, minutes, seconds as HH:MM:SS
top	(Optional) Show top x% entries (Default:1%)
<i>top_x</i>	(Optional) x% of entries to be displayed
<i>__readonly__</i>	(Optional) Read Only
<i>module</i>	(Optional) Module number
<i>instance</i>	(Optional) Instance number
TABLE_PREDICTION_ACL_entries	(Optional) Table for ACL entries prediction
<i>Feature</i>	(Optional) Feature name
<i>Pkt_Type</i>	(Optional) Packet type
<i>Value_Mask</i>	(Optional) Value mask
<i>Action</i>	(Optional) Action
<i>Intf_name</i>	(Optional) Interface name

<i>Stats</i>	(Optional) Current stats
<i>Prediction</i>	(Optional) Prediction

Command Mode

- /exec

show icam prediction resource acl_tcam mod inst trend

```
show icam prediction resource { acl_tcam | acl-tcam } mod <module> inst <inst> trend [ __readonly__
<module> <instance> [ { TABLE_PREDICTION_ACL_feature <Feature> <Dir> <TCAM> <BANK>
<Feature_Entries1> <Free_Entries1> <Percent_Util1> <Feature_Entries2> <Free_Entries2> <Percent_Util2>
<Feature_Entries3> <Free_Entries3> <Percent_Util3> } ] [ <mod> <inst> { TABLE_PREDICTION_ACL_tcam
<Tcam_no> <Bank_no> <Used1> <Free1> <Util1> <Used2> <Free2> <Util2> <Used3> <Free3> <Util3>
} ] ]
```

Syntax Description

show	Show running system information
icam	intelligent CAM
prediction	Machine learning prediction
resource	TCAM Resource utilization
acl_tcam	ACL TCAM resource
acl-tcam	ACL TCAM resource
mod	Module Number
<i>module</i>	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
<i>inst</i>	Enter Instance Number
trend	ACL Prediction Trend
__readonly__	(Optional) Read Only
<i>module</i>	(Optional) Module number
<i>instance</i>	(Optional) Instance number
TABLE_PREDICTION_ACL_feature	(Optional) ACL Feature utilization predictions
<i>Feature</i>	(Optional) Feature name
<i>Dir</i>	(Optional) Direction
<i>TCAM</i>	(Optional) TCAM entry
<i>BANK</i>	(Optional) BANK entry
<i>Feature_Entries1</i>	(Optional) +24Hr Feature_Entries
<i>Free_Entries1</i>	(Optional) +24Hr Free_Entries
<i>Percent_Util1</i>	(Optional) +24Hr Percent_Util

<i>Feature_Entries2</i>	(Optional) +48Hr Feature_Entries
<i>Free_Entries2</i>	(Optional) +48Hr Free_Entries
<i>Percent_Util2</i>	(Optional) +48Hr Percent_Util
<i>Feature_Entries3</i>	(Optional) +1wk Feature_Entries
<i>Free_Entries3</i>	(Optional) +1wk Free_Entries
<i>Percent_Util3</i>	(Optional) +1wk Percent_Util
<i>mod</i>	(Optional) Module number
<i>inst</i>	(Optional) Instance number
TABLE_PREDICTION_ACL_tcam	(Optional) ACL TCAM utilization predictions
<i>Tcam_no</i>	(Optional) Tcam number
<i>Bank_no</i>	(Optional) Bank number
<i>Used1</i>	(Optional) +24Hr Used
<i>Free1</i>	(Optional) +24Hr Free
<i>Util1</i>	(Optional) +24Hr Percent_Util
<i>Used2</i>	(Optional) +48Hr Used
<i>Free2</i>	(Optional) +48Hr Free
<i>Util2</i>	(Optional) +48Hr Percent_Util
<i>Used3</i>	(Optional) +1wk Used
<i>Free3</i>	(Optional) +1wk Free
<i>Util3</i>	(Optional) +1wk Percent_Util

Command Mode

- /exec

show icam prediction resource module inst

```
show icam prediction resource { acl_tcam | acl-tcam | fib_tcam | fib-tcam } module <module> inst <inst>
<YYYY> <Month> <Date> <Time> [ __readonly__ <module> <instance> [ {
TABLE_PREDICTION_ACL_feature <Feature> <Dir> <TCAM> <BANK> <Feature_Entries> <Free_Entries>
<Percent_Util> } ] [ <mod> <inst> { TABLE_PREDICTION_ACL_tcam <Tcam_no> <Bank_no> <Used>
<Free> <Percent_Util> } ] [ { TABLE_PREDICTION_FIB_tcam <Class> <Used_Entries> <Max_Entries>
<Percent_Util> } ] ]
```

Syntax Description

show	Show running system information
icam	intelligent CAM
prediction	Machine learning prediction
resource	TCAM Resource utilization
acl_tcam	ACL TCAM resource
acl-tcam	ACL TCAM resource
fib_tcam	FIB TCAM resource
fib-tcam	FIB TCAM resource
module	Module Number
<i>module</i>	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
<i>inst</i>	Enter Instance Number
<i>YYYY</i>	Enter year in YYYY format
<i>Month</i>	Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>Date</i>	Enter day of month in dd format
<i>Time</i>	Enter hour, minutes, seconds as HH:MM:SS
<i>__readonly__</i>	(Optional) Read Only
<i>module</i>	(Optional) Module number
<i>instance</i>	(Optional) Instance number
TABLE_PREDICTION_ACL_feature	(Optional) ACL Feature utilization predictions
<i>Feature</i>	(Optional) Feature name
<i>Dir</i>	(Optional) Direction

<i>TCAM</i>	(Optional) TCAM entry
<i>BANK</i>	(Optional) BANK entry
<i>Feature_Entries</i>	(Optional) Feature_Entries
<i>Free_Entries</i>	(Optional) Free_Entries
<i>Percent_Util</i>	(Optional) Percent_Util
<i>mod</i>	(Optional) Module number
<i>inst</i>	(Optional) Instance number
TABLE_PREDICTION_ACL_tcam	(Optional) ACL TCAM utilization predictions
<i>Tcam_no</i>	(Optional) Tcam number
<i>Bank_no</i>	(Optional) Bank number
<i>Used</i>	(Optional) Used
<i>Free</i>	(Optional) Free
<i>Percent_Util</i>	(Optional) Percent_Util
TABLE_PREDICTION_FIB_tcam	(Optional) FIB TCAM utilization predictions
<i>Class</i>	(Optional) FIB class
<i>Used_Entries</i>	(Optional) Used entries
<i>Max_Entries</i>	(Optional) Max entries
<i>Percent_Util</i>	(Optional) Percent_Util

Command Mode

- /exec

infra	(Optional) Infrastructure
mac	(Optional) MAC Address
vlan	(Optional) VLAN
vlan-count	(Optional) Number of VLANs
stp	(Optional) Spanning Tree Protocol
mst-instance	(Optional) MST instances
mst-vport	(Optional) MST virtual ports
rpvst-vport	(Optional) RPVST virtual ports
rpvst-vlan	(Optional) RPVST VLANs
isolated-portvlan	(Optional) Total number of VLANs x ports with switchport isolated
multicast-routes	(Optional) Multicast routes
igmp-groups	(Optional) IGMP groups
pim-neighbors	(Optional) PIM neighbors
outgoing-interfaces	(Optional) Outgoing interfaces
routing-forwarding	(Optional) Routing and forwarding
route-v4	(Optional) IPv4 Route
route-v6	(Optional) IPv6 Route
outgoing-interface	(Optional) Outgoing interface
igmp	(Optional) IGMP
group	(Optional) IGMP snooping group
pim	(Optional) PIM
neighbor	(Optional) PIM neighbor
bfd-sessions	(Optional) BFD sessions
eigrp-routes	(Optional) EIGRP routes
ipv4-arp	(Optional) IPv4 ARP
ipv4-host-routes	(Optional) IPv4 host routes
ipv6-host-routes	(Optional) IPv6 host routes
ipv4-isis-routes	(Optional) IS-ISv4 routes
ospf-nbr	(Optional) OSPF neighbors

ospf-lsa	(Optional) OSPF LSAs
ospf-area	(Optional) OSPF Areas
ospf-vrf	(Optional) OSPF VRFs
ospf-passive-intf	(Optional) OSPF passive interfaces
bfd	(Optional) BFD
session	(Optional) BFD session
bgp	(Optional) BGP
neighbor	(Optional) BGP neighbor
eigrp	(Optional) EIGRP
route	(Optional) EIGRP route
neighbor	(Optional) EIGRP neighbor
hsrp	(Optional) HSRP
mac	(Optional) HSRP MAC
arp	(Optional) ARP
arp-count	(Optional) ARP count
ipv6-nd	(Optional) IPv6 ND
nd-count	(Optional) ND count
routing	(Optional) Routing
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
lpm-route-v4	(Optional) IPv4 LPM route
lpm-route-v6	(Optional) IPv6 LPM route
isis	(Optional) IS-IS
adjacency	(Optional) IS-ISv4 adjacency
bfd-session	(Optional) IS-ISv4 BFD session
route	(Optional) IS-ISv4 route
ospf	(Optional) OSPF
neighbor	(Optional) OSPF neighbor
lsa	(Optional) OSPF LSA

area	(Optional) OSPF Area
vrf	(Optional) VRF
vrf-count	(Optional) VRF count
vrrp	(Optional) VRRP
grp-per-intf	(Optional) VRRP groups per interface
pbr	(Optional) PBR
seq-per-policy	(Optional) PBR Configured sequences per policy
nh-per-policy	(Optional) PBR NextHop per policy
ace-v4	(Optional) PBR IPv4 ACEs
ace-v6	(Optional) PBR IPv6 ACEs
ace-v4v6	(Optional) PBR IPv4 and IPv6 ACEs
intf	(Optional) Interfaces with PBR policy
vrrp3	(Optional) VRRPv3
grp-per-intf	(Optional) VRRPv3 groups per interface
grp-dft-timer	(Optional) VRRPv3 groups with default timers (1 s)
grp-relax-timer	(Optional) VRRPv3 groups with relaxed timers (3 s)
path-dft-timer	(Optional) Pathways with one VRRPv3 group with default timer (1 s)
grp-and-path	(Optional) VRRPv3 groups and pathways combined
igmp	(Optional) IGMP snooping over VXLAN
vlan	(Optional) VLAN
vtep	(Optional) VTEP Peers
underlay-mcast-group	(Optional) Underlay multicast group
fl	(Optional) VXLAN Flood and Learn
vni	(Optional) VNI
underlay-mcast-group	(Optional) Underlay multicast group
overlay-mac	(Optional) Overlay MAC address
vtep	(Optional) Remote VTEP
ir-peer	(Optional) Ingress replication peer
ir-vni	(Optional) Ingress replication L2 VNI

ir-mac	(Optional) Ingress replication MAC address
vlan-mapping-under-intf	(Optional) VLAN translations under an interface
vlan-mapping-in-switch	(Optional) VLAN translations in a switch
static-mac-to-vtep	(Optional) Static MACs to remote VTEP
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLANs per FEX port
vni-for-vpc-gw	(Optional) L2 routed VNIs for vPC-centralized gateway
igmp-group	(Optional) IGMP group
bgp	(Optional) BGP eVPN
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
underlay-mcast-group	(Optional) Underlay multicast group
vtep	(Optional) VTEP
mac	(Optional) MAC address
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
bgp-ir	(Optional) BGP eVPN Ingress Replication
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
vtep	(Optional) VTEP
mac	(Optional) MAC address
host-route-v4	(Optional) IPv4 host route

host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
<i>__readonly__</i>	(Optional) Read Only
<i>Info_Thres</i>	(Optional) Configured info threshold percent
<i>Warn_Thres</i>	(Optional) Configured warning threshold percent
<i>Crit_Thres</i>	(Optional) Configured critical threshold percent
TABLE_technology	(Optional) Table technology
<i>Technology</i>	(Optional) Technology name
TABLE_feature	(Optional) Table feature
<i>Feature</i>	(Optional) Feature name
<i>Verified_Scale</i>	(Optional) Verified scale
<i>Config_Scale</i>	(Optional) Configured scale
TABLE_feature_stats	(Optional) Table feature stats
<i>Used_Entries</i>	(Optional) Used entries
<i>Cur_Util</i>	(Optional) Current utilization
<i>YYYY</i>	Enter year in YYYY format
<i>Month</i>	Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
<i>Date</i>	Enter day of month in dd format
<i>Time</i>	Enter hour, minutes, seconds as HH:MM:SS

Command Mode

- /exec

show icam resource module inst

```
show icam resource { acl_tcam | acl-tcam | fib_tcam | fib-tcam } module <module> inst <inst> [ history
<num_intervals> ] [ __readonly__ <module> <instance> [ { TABLE_feature_resource <Feature> <TCAM>
<BANK> [ { TABLE_ingress_stats <Feature_Entries> <Free_Entries> <Percent_Util> <Timestamp> } ] } ] [
{ TABLE_egress_feature_resource <Feature> <TCAM> <BANK> [ { TABLE_egress_stats
<Feature_Entries> <Free_Entries> <Percent_Util> <Timestamp> } ] } ] [ <mod> <inst> {
TABLE_tcam_bank_utilization <Tcam_no> <Bank_no> [ { TABLE_tcam_bank_stats <Used> <Free>
<Percent_Util> <Timestamp> } ] } ] [ { TABLE_global_configs <Atomic_Update> <Bank_Chain_Mode>
<Dynamic_Bank_Mapping> <LOU_Threshold_Value> } ] [ { TABLE_fib_resource <Class> [ {
TABLE_fib_stats <Used_Entries> <Max_Entries> <Percent_Util> <Timestamp> } ] } ] ] ] ] ]
```

Syntax Description

show	Show running system information
icam	intelligent CAM
resource	TCAM Resource utilization
acl_tcam	ACL TCAM resource
acl-tcam	ACL TCAM resource
fib_tcam	FIB TCAM resource
fib-tcam	FIB TCAM resource
module	Module Number
<i>module</i>	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
<i>inst</i>	Enter Instance Number
history	(Optional) Show resource history
<i>num_intervals</i>	(Optional) Number of intervals in history
<i>__readonly__</i>	(Optional) Read Only
<i>module</i>	(Optional) Module number
<i>instance</i>	(Optional) Instance number
TABLE_feature_resource	(Optional) Table for ingress feature resources
<i>Feature</i>	(Optional) Feature name
<i>TCAM</i>	(Optional) TCAM entry
<i>BANK</i>	(Optional) BANK entry

TABLE_ingress_stats	(Optional) Table for ingress feature stats
<i>Feature_Entries</i>	(Optional) Feature_Entries
<i>Free_Entries</i>	(Optional) Free_Entries
<i>Percent_Util</i>	(Optional) Percent_Util
<i>Timestamp</i>	(Optional) Timestamp
TABLE_egress_feature_resource	(Optional) Table for egress feature resources
<i>Feature</i>	(Optional) Feature name
<i>TCAM</i>	(Optional) TCAM entry
<i>BANK</i>	(Optional) BANK entry
TABLE_egress_stats	(Optional) Table for egress feature stats
<i>Feature_Entries</i>	(Optional) Feature_Entries
<i>Free_Entries</i>	(Optional) Free_Entries
<i>Percent_Util</i>	(Optional) Percent_Util
<i>Timestamp</i>	(Optional) Timestamp
<i>mod</i>	(Optional) Module number
<i>inst</i>	(Optional) Instance number
TABLE_tcam_bank_utilization	(Optional) Table for tcam and bank utilization
<i>Tcam_no</i>	(Optional) Tcam number
<i>Bank_no</i>	(Optional) Bank number
TABLE_tcam_bank_stats	(Optional) Table for tcam and bank stats
<i>Used</i>	(Optional) Used
<i>Free</i>	(Optional) Free
<i>Percent_Util</i>	(Optional) Percent_Util
<i>Timestamp</i>	(Optional) Timestamp
TABLE_global_configs	(Optional) TABLE_global_configs
<i>Atomic_Update</i>	(Optional) Atomic_Update
<i>Bank_Chain_Mode</i>	(Optional) Bank_Chain_Mode
<i>Dynamic_Bank_Mapping</i>	(Optional) Dynamic_Bank_Mapping
<i>LOU_Threshold_Value</i>	(Optional) LOU_Threshold_Value

<i>TABLE_fib_resource</i>	(Optional) Table for fib resources
<i>Class</i>	(Optional) FIB class
<i>TABLE_fib_stats</i>	(Optional) Table for fib resource stats
<i>Used_Entries</i>	(Optional) Used entries
<i>Max_Entries</i>	(Optional) Max entries
<i>Percent_Util</i>	(Optional) Percent_Util
<i>Timestamp</i>	(Optional) Timestamp

Command Mode

- /exec

vlan	(Optional) VLANs
infra	(Optional) Infrastrure
mac	(Optional) MAC Address
vlan	(Optional) VLAN
vlan-count	(Optional) Number of VLANs
stp	(Optional) Spanning Tree Protocol
mst-instance	(Optional) MST instances
mst-vport	(Optional) MST virtual ports
rpvst-vport	(Optional) RPVST virtual ports
rpvst-vlan	(Optional) RPVST VLANs
isolated-portvlan	(Optional) Total number of VLANs x ports with switchport isolated
multicast-routes	(Optional) Multicast routes
igmp-groups	(Optional) IGMP groups
pim-neighbors	(Optional) PIM neighbors
outgoing-interfaces	(Optional) Outgoing interfaces
routing-forwarding	(Optional) Routing and forwarding
route-v4	(Optional) IPv4 Route
route-v6	(Optional) IPv6 Route
outgoing-interface	(Optional) Outgoing interface
igmp	(Optional) IGMP
group	(Optional) IGMP snooping group
pim	(Optional) PIM
neighbor	(Optional) PIM neighbor
bfd-sessions	(Optional) BFD sessions
eigrp-routes	(Optional) EIGRP routes
ipv4-arp	(Optional) IPv4 ARP
ipv4-host-routes	(Optional) IPv4 host routes
ipv6-host-routes	(Optional) IPv6 host routes
ipv4-isis-routes	(Optional) IS-ISv4 routes

ospf-nbr	(Optional) OSPF neighbors
ospf-lsa	(Optional) OSPF LSAs
ospf-area	(Optional) OSPF Areas
ospf-vrf	(Optional) OSPF VRFs
ospf-passive-intf	(Optional) OSPF passive interfaces
bfd	(Optional) BFD
session	(Optional) BFD session
bgp	(Optional) BGP
neighbor	(Optional) BGP neighbor
eigrp	(Optional) EIGRP
route	(Optional) EIGRP route
neighbor	(Optional) EIGRP neighbor
hsrp	(Optional) HSRP
mac	(Optional) HSRP MAC
arp	(Optional) ARP
arp-count	(Optional) ARP count
ipv6-nd	(Optional) IPv6 ND
nd-count	(Optional) ND count
routing	(Optional) Routing
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
lpm-route-v4	(Optional) IPv4 LPM route
lpm-route-v6	(Optional) IPv6 LPM route
isis	(Optional) IS-IS
adjacency	(Optional) IS-ISv4 adjacency
bfd-session	(Optional) IS-ISv4 BFD session
route	(Optional) IS-ISv4 route
ospf	(Optional) OSPF
neighbor	(Optional) OSPF neighbor

lsa	(Optional) OSPF LSA
area	(Optional) OSPF Area
vrf	(Optional) VRF
vrf-count	(Optional) VRF count
vrrp	(Optional) VRRP
grp-per-intf	(Optional) VRRP groups per interface
pbr	(Optional) PBR
seq-per-policy	(Optional) PBR Configured sequences per policy
nh-per-policy	(Optional) PBR NextHop per policy
ace-v4	(Optional) PBR IPv4 ACEs
ace-v6	(Optional) PBR IPv6 ACEs
ace-v4v6	(Optional) PBR IPv4 and IPv6 ACEs
intf	(Optional) Interfaces with PBR policy
vrrp3	(Optional) VRRPv3
grp-per-intf	(Optional) VRRPv3 groups per interface
grp-dft-timer	(Optional) VRRPv3 groups with default timers (1 s)
grp-relax-timer	(Optional) VRRPv3 groups with relaxed timers (3 s)
path-dft-timer	(Optional) Pathways with one VRRPv3 group with default timer (1 s)
grp-and-path	(Optional) VRRPv3 groups and pathways combined
igmp	(Optional) IGMP snooping over VXLAN
vlan	(Optional) VLAN
vtep	(Optional) VTEP Peers
underlay-mcast-group	(Optional) Underlay multicast group
fl	(Optional) VXLAN Flood and Learn
vni	(Optional) VNI
underlay-mcast-group	(Optional) Underlay multicast group
overlay-mac	(Optional) Overlay MAC address
vtep	(Optional) Remote VTEP
ir-peer	(Optional) Ingress replication peer

ir-vni	(Optional) Ingress replication L2 VNI
ir-mac	(Optional) Ingress replication MAC address
vlan-mapping-under-intf	(Optional) VLAN translations under an interface
vlan-mapping-in-switch	(Optional) VLAN translations in a switch
static-mac-to-vtep	(Optional) Static MACs to remote VTEP
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLANs per FEX port
vni-for-vpc-gw	(Optional) L2 routed VNIs for vPC-centralized gateway
igmp-group	(Optional) IGMP group
bgp	(Optional) BGP eVPN
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
underlay-mcast-group	(Optional) Underlay multicast group
vtep	(Optional) VTEP
mac	(Optional) MAC address
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
bgp-ir	(Optional) BGP eVPN Ingress Replication
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
vtep	(Optional) VTEP
mac	(Optional) MAC address

host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
history	(Optional) Show scale history
<i>num_intervals</i>	(Optional) Number of intervals in history
sort	(Optional) Sorted display
current-scale	(Optional) Sort records by current-scale value
ascending	(Optional) Sort current-scale values in ascending order
descending	(Optional) Sort current-scale values in descending order
polled-timestamp	(Optional) Sort records by polled-timestamp
newest	(Optional) Sort with newest record first
oldest	(Optional) Sort with oldest record first
utilization	(Optional) Show utilization statistics
thresholds	(Optional) Show thresholds statistics
__readonly__	(Optional) Read Only
<i>Info_Thres</i>	(Optional) Configured info threshold percent
<i>Warn_Thres</i>	(Optional) Configured warning threshold percent
<i>Crit_Thres</i>	(Optional) Configured critical threshold percent
TABLE_technology	(Optional) Table technology
<i>Technology</i>	(Optional) Technology name
TABLE_feature	(Optional) Table feature
<i>Feature</i>	(Optional) Feature name
<i>Instance</i>	(Optional) Instance name. Present if the record is for a specific instance on the system (i.e. module, port combination or specific application instance in a VDC)
<i>Verified_Scale</i>	(Optional) Verified scale

<i>Config_Scale</i>	(Optional) Configured scale
<i>TABLE_feature_stats</i>	(Optional) Table feature stats
<i>Used_Entries</i>	(Optional) Used entries
<i>Cur_Util</i>	(Optional) Current utilization
<i>Thres_Exceeded</i>	(Optional) Threshold type exceeded
<i>Polled_TS</i>	(Optional) Polled timestamp
<i>Avg_Util</i>	(Optional) Average utilization
<i>Week_Util</i>	(Optional) 1 week utilization
<i>Week_TS</i>	(Optional) 1 week peak utilization timestamp
<i>Peak_Util</i>	(Optional) Peak utilization
<i>Peak_TS</i>	(Optional) Peak utilization timestamp
<i>Info_Thres_Exceed</i>	(Optional) Number of times info threshold exceeded
<i>Info_Thres_Exceed_TS</i>	(Optional) Last info threshold exceeded timestamp
<i>Warn_Thres_Exceed</i>	(Optional) Number of times warning threshold exceeded
<i>Warn_Thres_Exceed_TS</i>	(Optional) Last warning threshold exceeded timestamp
<i>Crit_Thres_Exceed</i>	(Optional) Number of times critical threshold exceeded
<i>Crit_Thres_Exceed_TS</i>	(Optional) Last critical threshold exceeded timestamp

Command Mode

- /exec

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 imp client

show imp client

Syntax Description

show	Show running system information
imp	ipsec management process
client	Show ipsec clients name

Command Mode

- /exec

show imp client sa

show imp client sa

Syntax Description

show	Show running system information
imp	IPSec management process
client	IMP client
sa	Display all SAs

Command Mode

- /exec

show inband-telemetry exporter

```
show inband-telemetry exporter [ <exportername> ] [ __readonly__ <exporter> <description> <dest> <vrf>
<vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <dscp> <seq_num> ]
```

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
exporter	Show INT Exporter Configuration
<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>seq_num</i>	(Optional)

Command Mode

- /exec

show inband-telemetry flow-profile

```
show inband-telemetry flow-profile [ <flow-profilename> ] [ __readonly__ <flow-profile> <description>
<dscp> <age> <latency> ]
```

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
flow-profile	Show INT flow Profile Configuration
<i>flow-profilename</i>	(Optional) Specify an flow Profile
<i>__readonly__</i>	(Optional)
<i>flow-profile</i>	(Optional)
<i>description</i>	(Optional)
<i>dscp</i>	(Optional)
<i>age</i>	(Optional)
<i>latency</i>	(Optional)

Command Mode

- /exec

show inband-telemetry monitor

```
show inband-telemetry monitor [ <monitorname> [ cache [ detailed ] ] ] [ __readonly__ <monitor> <use_count>
<description> <record> <event> <exporter> <bucket_id> <src_addr> <dest_addr> <watchlist> ]
```

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
monitor	Show Monitor Configuration
<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>event</i>	(Optional)
<i>exporter</i>	(Optional)
<i>bucket_id</i>	(Optional)
<i>src_addr</i>	(Optional)
<i>dest_addr</i>	(Optional)
<i>watchlist</i>	(Optional)

Command Mode

- /exec

show inband-telemetry queue-profile

```
show inband-telemetry queue-profile [ <queue-profilename> | queue-profile-default ] [ __readonly__
<queue-profile> <description> <depth> <latency> ]
```

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
queue-profile	Show INT Queue Profile Configuration
<i>queue-profilename</i>	(Optional) Specify an Queue Profile
queue-profile-default	(Optional) Show INT Queue Profile Default Configuration
__readonly__	(Optional)
<i>queue-profile</i>	(Optional)
<i>description</i>	(Optional)
<i>depth</i>	(Optional)
<i>latency</i>	(Optional)

Command Mode

- /exec

show inband-telemetry record

show inband-telemetry record [{ <recordname> }] [__readonly__ <record> <description> <use_count>]

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
record	Show Record Configuration
<i>recordname</i>	(Optional) Specify a record
<i>__readonly__</i>	(Optional)
<i>record</i>	(Optional)
<i>description</i>	(Optional)
<i>use_count</i>	(Optional)

Command Mode

- /exec

show inband-telemetry sessions

show inband-telemetry sessions [<monitorname>] [__readonly__ <monitor>]

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
sessions	Show Session Configuration
<i>monitorname</i>	(Optional) Specify a monitor
<i>__readonly__</i>	(Optional)
<i>monitor</i>	(Optional)

Command Mode

- /exec

show inband-telemetry watchlist

```
show inband-telemetry watchlist [ { <watchlistname> } ] [ __readonly__ <watchlist> <use_count>
<description> <num_aces> <ace_seq_num> <ace_action> <ace_type> <ace_sip> <ace_sip_len> <ace_dip>
<ace_dip_len> ]
```

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
watchlist	Show watchlist Configuration
<i>watchlistname</i>	(Optional) Specify a watchlist
<i>__readonly__</i>	(Optional)
<i>watchlist</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>num_aces</i>	(Optional)
<i>ace_seq_num</i>	(Optional)
<i>ace_action</i>	(Optional)
<i>ace_type</i>	(Optional)
<i>ace_sip</i>	(Optional)
<i>ace_sip_len</i>	(Optional)
<i>ace_dip</i>	(Optional)
<i>ace_dip_len</i>	(Optional)

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>+ ] [ TABLE_base_package_list <base_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
TABLE_base_package_list	(Optional)
<i>base_package_id</i>	(Optional) Base 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 <uri> [ __readonly__ [ { TABLE_compat <module> <type> <upgradable>
<impact> <reason> } ] ]
```

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>uri</i>	Local URI containing EPLD Image
<i>__readonly__</i>	(Optional)
<i>TABLE_compat</i>	(Optional)
<i>module</i>	(Optional)
<i>type</i>	(Optional)
<i>upgradable</i>	(Optional)
<i>impact</i>	(Optional)
<i>reason</i>	(Optional)

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 all time-stats

show install all time-stats [detail | handshake]

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
time-stats	show overall time statistics of the last install all
detail	(Optional) show detailed time statistics of the last install all
handshake	(Optional) show handshake time statistics for sysmgr and lc processes of the last install all

Command Mode

- /exec

show install epld status

```
show install epld status [ __readonly__ [ { TABLE_data <entry_num> [ <header_info> ] <module_num>
<time> [ <epld_install_name> ] [ <reason> ] [ <status> ] [ TABLE_epld [ <epld_name> ] [ <curr_ver> ] [
<old_ver> ] ] } ] ] ]
```

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
<i>__readonly__</i>	(Optional)
<i>TABLE_data</i>	(Optional)
<i>entry_num</i>	(Optional)
<i>header_info</i>	(Optional)
<i>module_num</i>	(Optional)
<i>time</i>	(Optional)
<i>epld_install_name</i>	(Optional)
<i>reason</i>	(Optional)
<i>status</i>	(Optional)
<i>TABLE_epld</i>	(Optional)
<i>epld_name</i>	(Optional)
<i>curr_ver</i>	(Optional)
<i>old_ver</i>	(Optional)

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>idl</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 mode

```
show install mode [ __readonly__ { <install_mode> <image_type> } ]
```

Syntax Description

show	Show running system information
install	Install related show commands
mode	Display mode and type of booted image
<i>__readonly__</i>	(Optional)
<i>install_mode</i>	(Optional) install mode
<i>image_type</i>	(Optional) image type

Command Mode

- /exec

show install packages

```
show install packages [ __readonly__ { <curr_nxos_image> [ TABLE_package_list <package_name>
<version> <state> <signature> ] } ]
```

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
<i>signature</i>	(Optional) Signature

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 <ifmgmt> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <admin_state> ] [ <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> ] [ <encapsulation> ] [ <medium> ] [
<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> ] [
<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
<u>__readonly__</u>	(Optional) Read Only
<u>TABLE_interface</u>	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<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) Interface admin state
<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>encapsulation</i>	(Optional) Encapsulation
<i>medium</i>	(Optional) medium type
<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) Queuing 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>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 <single>

Syntax Description

show_interface	Port_mgr hidden command
<i>single</i>	interface type and number in module/slot format

Command Mode

- /exec

show interface

```
show interface <ifid_brief1> [ brief ] [ __readonly__ ] [ { TABLE_interface_vfc [ <interface_vfc> ] [
<vsan_brief> ] [ <oper_port_state> ] [ <port_state> ] [ <bound_interface> ] [ <port_desc> ] [ <port_des> ] [
<mgmt_hw_desc1> ] [ <mgmt_hw_addr1> ] [ <port_name> ] [ <hardware> ] [ <sfp> ] [ <port_wwn> ] [
<peer_port_wwn> ] [ <admin_mode> ] [ <admin_trunk_mode> ] [ <snmp_trap> ] [ <status> ] [ <state_rsn1>
] [ <fcot_info> ] [ <bind_info> ] [ <bind_mac> ] [ <bind_type> ] [ <port_mode> ] [ <fcid> ] [ <cfg_port_vsan>
] [ <vsan> ] [ <port_rate_mode> ] [ <oper_speed> ] [ <admin_speed> ] [ <port_channel> ] [ <ip_addr1> ] [
<oper_txbbcredit> ] [ <oper_rxbbcredit> ] [ <port_bb_scn> ] [ <admin_rxbufsize> ] [ <admin_port_encap>
] [ <admin_beacon_mode> ] [ <admin_fec_state> ] [ <oper_fec_state> ] [ <bundle_if_index> ] [
<trkd_if_index> ] [ <trk_cfg_vsans> ] [ <trkd_port_state> ] [ <num_ports> ] [ TABLE_trk_intf [ <trk_intf>
] ] [ <info_type_num> ] [ <info_model_num> ] [ <info_manufacturer> ] [ <info_port_id> ] [ <active_vsan>
] [ <trunk_vsan_up> ] [ <trunk_vsan_isolated> ] [ <trunk_vsan_initializing> ] [ <in_bps> ] [ <in_byps> ] [
<in_fps> ] [ <out_bps> ] [ <out_byps> ] [ <out_fps> ] [ <total_in_frames> ] [ <total_in_bytes> ] [
<total_in_discards> ] [ <total_in_errors> ] [ <invalid_crc> ] [ <unknown_class_frames> ] [ <frames_too_long>
] [ <frames_too_short> ] [ <total_out_frames> ] [ <total_out_bytes> ] [ <total_out_discards> ] [
<total_out_errors> ] [ <in_ols> ] [ <in_lrr> ] [ <in_nos> ] [ <in_loop_inits> ] [ <out_ols> ] [ <out_lrr> ] [
<out_nos> ] [ <out_loop_inits> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [ <tx_b2b_credit> ] [
<tx_b2b_low_pri_cre> ] [ <fcoe_in_pkts> ] [ <fcoe_in_octets> ] [ <fcoe_out_pkts> ] [ <fcoe_out_octets> ]
] [ TABLE_members [ <port_channel_member> ] ] [ <interface_last_changed> ] [ <time_last_cleared> ] } ] [
{ TABLE_interface_brief_vfc [ <interface_vfc> ] [ <vsan_brief> ] [ <admin_mode> ] [ <admin_trunk_mode>
] [ <status> ] [ <fcot_info> ] [ <bind_info> ] [ <bind_type> ] [ <bind_mac> ] [ <port_rate_mode> ] [
<oper_speed> ] [ <port_channel> ] [ <ip_addr> ] } ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_brief1</i>	Enter interface type and number in module/slot format
brief	(Optional) Show brief info of interface
__readonly__	(Optional) Read Only
<i>interface_vfc</i>	(Optional) Interface index
TABLE_interface_vfc	(Optional) show interface
<i>vsan_brief</i>	(Optional) vsan for brief
<i>oper_port_state</i>	(Optional) oper port state
<i>port_state</i>	(Optional) port state
<i>bound_interface</i>	(Optional) bound interface
<i>port_desc</i>	(Optional) port description
<i>port_des</i>	(Optional) port description
<i>mgmt_hw_desc1</i>	(Optional) HW description

<i>mgmt_hw_addr1</i>	(Optional) HW address
<i>port_name</i>	(Optional) port description
<i>hardware</i>	(Optional) Hardware is
<i>sfp</i>	(Optional) sfp
<i>port_wwn</i>	(Optional) port wwn
<i>peer_port_wwn</i>	(Optional) peer port wwn
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>snmp_trap</i>	(Optional) snmp trap
<i>status</i>	(Optional) Status
<i>state_rsn1</i>	(Optional) state reason
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_mac</i>	(Optional) bind mac
<i>bind_type</i>	(Optional) bind type
<i>port_mode</i>	(Optional) port mode
<i>fcid</i>	(Optional) fcid
<i>cfg_port_vsan</i>	(Optional) config port vsan
<i>vsan</i>	(Optional) vsan for brief
<i>port_rate_mode</i>	(Optional) operation port rate mode
<i>oper_speed</i>	(Optional) speed
<i>admin_speed</i>	(Optional) admin speed
<i>port_channel</i>	(Optional) port channel
<i>ip_addr1</i>	(Optional) Ip address
<i>oper_txbbcredit</i>	(Optional) oper tx bbcredit
<i>oper_rxbbcredit</i>	(Optional) oper rx bbcredit
<i>port_bb_scn</i>	(Optional) port bb scn
<i>admin_rxbufsize</i>	(Optional) admin rx bufsize
<i>admin_port_encap</i>	(Optional) admin port encap

<i>admin_beacon_mode</i>	(Optional) admin beacon mode
<i>admin_fec_state</i>	(Optional) admin fec state
<i>oper_fec_state</i>	(Optional) oper fec state
<i>bundle_if_index</i>	(Optional) bundle if index
<i>trkd_if_index</i>	(Optional) Trunk interfaces
<i>trk_cfg_vsans</i>	(Optional) Trunk vsans
<i>trkd_port_state</i>	(Optional) trunk port state
<i>num_ports</i>	(Optional) number of ports
TABLE_trk_intf	(Optional) trunk interfaces
<i>trk_intf</i>	(Optional) track interface
<i>info_type_num</i>	(Optional) info type num
<i>info_model_num</i>	(Optional) info model num
<i>info_manufacturer</i>	(Optional) info manufacturer
<i>info_port_id</i>	(Optional) info port id
<i>active_vsan</i>	(Optional) allowed and active vsan
<i>trunk_vsan_up</i>	(Optional) trunk vsan up
<i>trunk_vsan_isolated</i>	(Optional) trunk vsan isolated
<i>trunk_vsan_initializing</i>	(Optional) trunk vsan initializing
<i>in_bps</i>	(Optional) input bits/sec
<i>in_byps</i>	(Optional) input bytes/sec
<i>in_fps</i>	(Optional) input frames/sec
<i>out_bps</i>	(Optional) output bits/sec
<i>out_byps</i>	(Optional) output bytes/sec
<i>out_fps</i>	(Optional) output frames/sec
<i>total_in_frames</i>	(Optional) total in frames
<i>total_in_bytes</i>	(Optional) total in bytes
<i>total_in_discards</i>	(Optional) total in discards
<i>total_in_errors</i>	(Optional) total in errors
<i>invalid_crc</i>	(Optional) invalid crc

<i>unknown_class_frames</i>	(Optional) unknown class frames
<i>frames_too_long</i>	(Optional) frames too long
<i>frames_too_short</i>	(Optional) frames too short
<i>total_out_frames</i>	(Optional) total out frames
<i>total_out_bytes</i>	(Optional) total out bytes
<i>total_out_discards</i>	(Optional) total out discards
<i>total_out_errors</i>	(Optional) total out errors
<i>in_ols</i>	(Optional) input OLS
<i>in_lrr</i>	(Optional) input LRR
<i>in_nos</i>	(Optional) input NOS
<i>in_loop_inits</i>	(Optional) input loop inits
<i>out_ols</i>	(Optional) output OLS
<i>out_lrr</i>	(Optional) output LRR
<i>out_nos</i>	(Optional) output NOS
<i>out_loop_inits</i>	(Optional) output loop inits
<i>rx_b2b_perf_buff</i>	(Optional) rx b2b performance buff
<i>rx_b2b_credit</i>	(Optional) rx b2b credit
<i>tx_b2b_credit</i>	(Optional) tx b2b credit
<i>tx_b2b_low_pri_cre</i>	(Optional) tx b2b low pri credit
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets
TABLE_members	(Optional) table for port-channel member interface
<i>port_channel_member</i>	(Optional) port-channel member interface
<i>interface_last_changed</i>	(Optional) interface last changed
<i>time_last_cleared</i>	(Optional) counters last cleared
TABLE_interface_brief_vfc	(Optional) show interface brief table
<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>bind_mac</i>	(Optional) bind mac address
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>port_channel</i>	(Optional) port channel number
<i>ip_addr</i>	(Optional) IP address

Command Mode

- /exec

<i>mgmt_hw_desc1</i>	(Optional) HW description
<i>mgmt_hw_addr1</i>	(Optional) HW address
<i>port_name</i>	(Optional) port description
<i>hardware</i>	(Optional) Hardware is
<i>sfp</i>	(Optional) sfp
<i>port_wwn</i>	(Optional) port wwn
<i>peer_port_wwn</i>	(Optional) peer port wwn
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>snmp_trap</i>	(Optional) snmp trap
<i>status</i>	(Optional) Status
<i>state_rsn1</i>	(Optional) state reason
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_mac</i>	(Optional) bind mac
<i>bind_type</i>	(Optional) bind type
<i>port_mode</i>	(Optional) port mode
<i>fcid</i>	(Optional) fcid
<i>cfg_port_vsan</i>	(Optional) config port vsan
<i>vsan</i>	(Optional) vsan for brief
<i>port_rate_mode</i>	(Optional) operation port rate mode
<i>oper_speed</i>	(Optional) speed
<i>admin_speed</i>	(Optional) admin speed
<i>port_channel</i>	(Optional) port channel
<i>ip_addr1</i>	(Optional) Ip address
<i>oper_txbbcredit</i>	(Optional) oper tx bbcredit
<i>oper_rxbbcredit</i>	(Optional) oper rx bbcredit
<i>port_bb_scn</i>	(Optional) port bb scn
<i>admin_rxbufsize</i>	(Optional) admin rx bufsize

<i>admin_port_encap</i>	(Optional) admin port encap
<i>admin_beacon_mode</i>	(Optional) admin beacon mode
<i>admin_fec_state</i>	(Optional) admin fec state
<i>oper_fec_state</i>	(Optional) oper fec state
<i>bundle_if_index</i>	(Optional) bundle if index
<i>trkd_if_index</i>	(Optional) Trunk interfaces
<i>trk_cfg_vsans</i>	(Optional) Trunk vsans
<i>trkd_port_state</i>	(Optional) trunk port state
<i>num_ports</i>	(Optional) number of ports
TABLE_trk_intf	(Optional) trunk interfaces
<i>trk_intf</i>	(Optional) track interface
<i>info_type_num</i>	(Optional) info type num
<i>info_model_num</i>	(Optional) info model num
<i>info_manufacturer</i>	(Optional) info manufacturer
<i>info_port_id</i>	(Optional) info port id
<i>active_vsan</i>	(Optional) allowed and active vsan
<i>trunk_vsan_up</i>	(Optional) trunk vsan up
<i>trunk_vsan_isolated</i>	(Optional) trunk vsan isolated
<i>trunk_vsan_initializing</i>	(Optional) trunk vsan initializing
<i>in_bps</i>	(Optional) input bits/sec
<i>in_byyps</i>	(Optional) input bytes/sec
<i>in_fps</i>	(Optional) input frames/sec
<i>out_bps</i>	(Optional) output bits/sec
<i>out_byyps</i>	(Optional) output bytes/sec
<i>out_fps</i>	(Optional) output frames/sec
<i>total_in_frames</i>	(Optional) total in frames
<i>total_in_bytes</i>	(Optional) total in bytes
<i>total_in_discards</i>	(Optional) total in discards
<i>total_in_errors</i>	(Optional) total in errors

<i>invalid_crc</i>	(Optional) invalid crc
<i>unknown_class_frames</i>	(Optional) unknown class frames
<i>frames_too_long</i>	(Optional) frames too long
<i>frames_too_short</i>	(Optional) frames too short
<i>total_out_frames</i>	(Optional) total out frames
<i>total_out_bytes</i>	(Optional) total out bytes
<i>total_out_discards</i>	(Optional) total out discards
<i>total_out_errors</i>	(Optional) total out errors
<i>in_ols</i>	(Optional) input OLS
<i>in_lrr</i>	(Optional) input LRR
<i>in_nos</i>	(Optional) input NOS
<i>in_loop_inits</i>	(Optional) input loop inits
<i>out_ols</i>	(Optional) output OLS
<i>out_lrr</i>	(Optional) output LRR
<i>out_nos</i>	(Optional) output NOS
<i>out_loop_inits</i>	(Optional) output loop inits
<i>rx_b2b_perf_buff</i>	(Optional) rx b2b performance buff
<i>rx_b2b_credit</i>	(Optional) rx b2b credit
<i>tx_b2b_credit</i>	(Optional) tx b2b credit
<i>tx_b2b_low_pri_cre</i>	(Optional) tx b2b low pri credit
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets
TABLE_members	(Optional) table for port-channel member interface
<i>port_channel_member</i>	(Optional) port-channel member interface
<i>interface_last_changed</i>	(Optional) interface last changed
<i>time_last_cleared</i>	(Optional) counters last cleared
TABLE_interface_brief_fc	(Optional) show interface brief table

<i>interface_fc</i>	(Optional) Interface index
<i>ip_addr</i>	(Optional) IP address
<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>bind_mac</i>	(Optional) bind mac address
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>port_channel</i>	(Optional) port channel number
TABLE_interface_brief_san_pc	(Optional) show interface brief for san-po
<i>interface_san</i>	(Optional) san_po interface
<i>vsan_brief</i>	(Optional) vsan brief
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>status</i>	(Optional) status
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>ip_addr</i>	(Optional) IP address

Command Mode

- /exec

show interface

```

show interface <ifid> [ quick ] [ __readonly__ TABLE interface <interface> [ <desc> ] [ [ <svi_if_index> ]
[ <svi_admin_state> ] [ <oper_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> ] [ <vlan_id> ]
[ <type> ] ] [ [ <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_inrate1_summary_bits>
] [ <eth_inrate1_summary_pkts> ] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts>
] [ <eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_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> ] ] ]

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<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
quick	(Optional) Show info of interface skipping stats
<u>__readonly__</u>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>desc</i>	(Optional) Interface description
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>oper_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>vlan_id</i>	(Optional) Vlan
<i>type</i>	(Optional) type
<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_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<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_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</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_load_interval3_tx</i>	(Optional) interval 3 timer value in 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_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<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
<i>switchport</i>	(Optional) Switchport enabled

Command Mode

- /exec

show interface

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show interface [ controller | quick ] [ __readonly__ TABLE_interface <interface> [ <state> ] [ <state_rsn_desc>
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<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> ][ <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> ] <switchport>
]

```

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
<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>vsan_brief</i>	(Optional) vsan for brief
<i>oper_port_state</i>	(Optional) oper port state
<i>port_state</i>	(Optional) port state
<i>bound_interface</i>	(Optional) bound interface
<i>port_desc</i>	(Optional) port description
<i>port_des</i>	(Optional) port description
<i>mgmt_hw_desc1</i>	(Optional) HW description
<i>mgmt_hw_addr1</i>	(Optional) HW address

<i>port_name</i>	(Optional) port description
<i>hardware</i>	(Optional) Hardware is
<i>sfp</i>	(Optional) sfp
<i>port_wwn</i>	(Optional) port wwn
<i>peer_port_wwn</i>	(Optional) peer port wwn
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>snmp_trap</i>	(Optional) snmp trap
<i>status</i>	(Optional) Status
<i>state_rsnl</i>	(Optional) state reason
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_mac</i>	(Optional) bind mac
<i>bind_type</i>	(Optional) bind type
<i>port_mode</i>	(Optional) port mode
<i>fcid</i>	(Optional) fcid
<i>cfg_port_vsan</i>	(Optional) config port vsan
<i>vsan</i>	(Optional) vsan for brief
<i>port_rate_mode</i>	(Optional) operation port rate mode
<i>oper_speed</i>	(Optional) speed
<i>admin_speed</i>	(Optional) admin speed
<i>port_channel</i>	(Optional) port channel
<i>ip_addr1</i>	(Optional) Ip address
<i>oper_txbbcredit</i>	(Optional) oper tx bbcredit
<i>oper_rxbbcredit</i>	(Optional) oper rx bbcredit
<i>port_bb_scn</i>	(Optional) port bb scn
<i>admin_rxbufsize</i>	(Optional) admin rx bufsize
<i>admin_port_encap</i>	(Optional) admin port encap
<i>admin_beacon_mode</i>	(Optional) admin beacon mode

<i>admin_fec_state</i>	(Optional) admin fec state
<i>oper_fec_state</i>	(Optional) oper fec state
<i>bundle_if_index</i>	(Optional) bundle if index
<i>trkd_if_index</i>	(Optional) Trunk interfaces
<i>trk_cfg_vsans</i>	(Optional) Trunk vsans
<i>trkd_port_state</i>	(Optional) trunk port state
<i>num_ports</i>	(Optional) number of ports
TABLE_trk_intf	(Optional) trunk interfaces
<i>trk_intf</i>	(Optional) track interface
<i>info_type_num</i>	(Optional) info type num
<i>info_model_num</i>	(Optional) info model num
<i>info_manufacturer</i>	(Optional) info manufacturer
<i>info_port_id</i>	(Optional) info port id
<i>active_vsan</i>	(Optional) allowed and active vsan
<i>trunk_vsan_up</i>	(Optional) trunk vsan up
<i>trunk_vsan_isolated</i>	(Optional) trunk vsan isolated
<i>trunk_vsan_initializing</i>	(Optional) trunk vsan initializing
<i>in_bps</i>	(Optional) input bits/sec
<i>in_bytps</i>	(Optional) input bytes/sec
<i>in_fps</i>	(Optional) input frames/sec
<i>out_bps</i>	(Optional) output bits/sec
<i>out_bytps</i>	(Optional) output bytes/sec
<i>out_fps</i>	(Optional) output frames/sec
<i>total_in_frames</i>	(Optional) total in frames
<i>total_in_bytes</i>	(Optional) total in bytes
<i>total_in_discards</i>	(Optional) total in discards
<i>total_in_errors</i>	(Optional) total in errors
<i>invalid_crc</i>	(Optional) invalid crc
<i>unknown_class_frames</i>	(Optional) unknown class frames

<i>frames_too_long</i>	(Optional) frames too long
<i>frames_too_short</i>	(Optional) frames too short
<i>total_out_frames</i>	(Optional) total out frames
<i>total_out_bytes</i>	(Optional) total out bytes
<i>total_out_discards</i>	(Optional) total out discards
<i>total_out_errors</i>	(Optional) total out errors
<i>in_ols</i>	(Optional) input OLS
<i>in_lrr</i>	(Optional) input LRR
<i>in_nos</i>	(Optional) input NOS
<i>in_loop_inits</i>	(Optional) input loop inits
<i>out_ols</i>	(Optional) output OLS
<i>out_lrr</i>	(Optional) output LRR
<i>out_nos</i>	(Optional) output NOS
<i>out_loop_inits</i>	(Optional) output loop inits
<i>rx_b2b_perf_buff</i>	(Optional) rx b2b performance buff
<i>rx_b2b_credit</i>	(Optional) rx b2b credit
<i>tx_b2b_credit</i>	(Optional) tx b2b credit
<i>tx_b2b_low_pri_cre</i>	(Optional) tx b2b low pri credit
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets
TABLE_members	(Optional) table for port-channel member interface
<i>port_channel_member</i>	(Optional) port-channel member interface
<i>interface_last_changed</i>	(Optional) interface last changed
<i>time_last_cleared</i>	(Optional) counters last cleared
<i>interface_quick</i>	(Optional) Interface index
<i>vsan_brief_quick</i>	(Optional) vsan for brief
<i>oper_port_state_quick</i>	(Optional) oper port state

<i>port_state_quick</i>	(Optional) port state
<i>bound_interface_quick</i>	(Optional) bound interface
<i>port_desc_quick</i>	(Optional) port description
<i>port_des_quick</i>	(Optional) port description
<i>mgmt_hw_desc1_quick</i>	(Optional) HW description
<i>mgmt_hw_addr1_quick</i>	(Optional) HW address
<i>port_name_quick</i>	(Optional) port description
<i>hardware_quick</i>	(Optional) Hardware is
<i>sfp_quick</i>	(Optional) sfp
<i>port_wwn_quick</i>	(Optional) port wwn
<i>peer_port_wwn_quick</i>	(Optional) peer port wwn
<i>admin_mode_quick</i>	(Optional) admin mode
<i>admin_trunk_mode_quick</i>	(Optional) admin trunk mode
<i>snmp_trap_quick</i>	(Optional) snmp trap
<i>status_quick</i>	(Optional) Status
<i>state_rsn1_quick</i>	(Optional) state reason
<i>fcot_info_quick</i>	(Optional) fcot info
<i>bind_info_quick</i>	(Optional) bind interface
<i>bind_mac_quick</i>	(Optional) bind mac
<i>bind_type_quick</i>	(Optional) bind type
<i>port_mode_quick</i>	(Optional) port mode
<i>fcid_quick</i>	(Optional) fcid
<i>cfg_port_vsan_quick</i>	(Optional) config port vsan
<i>vsan_quick</i>	(Optional) vsan for brief
<i>port_rate_mode_quick</i>	(Optional) operation port rate mode
<i>oper_speed_quick</i>	(Optional) speed
<i>admin_speed_quick</i>	(Optional) admin speed
<i>port_channel_quick</i>	(Optional) port channel
<i>ip_addr1_quick</i>	(Optional) Ip address

<i>oper_txbbcredit_quick</i>	(Optional) oper tx bbcredit
<i>oper_rxbbcredit_quick</i>	(Optional) oper rx bbcredit
<i>port_bb_scn_quick</i>	(Optional) port bb scn
<i>admin_rxbufsize_quick</i>	(Optional) admin rx bufsize
<i>admin_port_encap_quick</i>	(Optional) admin port encap
<i>admin_beacon_mode_quick</i>	(Optional) admin beacon mode
<i>admin_fec_state_quick</i>	(Optional) admin fec state
<i>oper_fec_state_quick</i>	(Optional) oper fec state
<i>bundle_if_index_quick</i>	(Optional) bundle if index
<i>trkd_if_index_quick</i>	(Optional) Trunk interfaces
<i>trk_cfg_vsans_quick</i>	(Optional) Trunk vsans
<i>trkd_port_state_quick</i>	(Optional) trunk port state
<i>num_ports_quick</i>	(Optional) number of ports
TABLE_trk_intf_quick	(Optional) trunk interfaces
<i>trk_intf_quick</i>	(Optional) track interface
<i>info_type_num_quick</i>	(Optional) info type num
<i>info_model_num_quick</i>	(Optional) info model num
<i>info_manufacturer_quick</i>	(Optional) info manufacturer
<i>info_port_id_quick</i>	(Optional) info port id
<i>active_vsan_quick</i>	(Optional) allowed and active vsan
<i>trunk_vsan_up_quick</i>	(Optional) trunk vsan up
<i>trunk_vsan_isolated_quick</i>	(Optional) trunk vsan isolated
<i>trunk_vsan_initializing_quick</i>	(Optional) trunk vsan initializing
<i>in_bps_quick</i>	(Optional) input bits/sec
<i>in_byps_quick</i>	(Optional) input bytes/sec
<i>in_fps_quick</i>	(Optional) input frames/sec
<i>out_bps_quick</i>	(Optional) output bits/sec
<i>out_byps_quick</i>	(Optional) output bytes/sec
<i>out_fps_quick</i>	(Optional) output frames/sec

<i>total_in_frames_quick</i>	(Optional) total in frames
<i>total_in_bytes_quick</i>	(Optional) total in bytes
<i>total_in_discards_quick</i>	(Optional) total in discards
<i>total_in_errors_quick</i>	(Optional) total in errors
<i>invalid_crc_quick</i>	(Optional) invalid crc
<i>unknown_class_frames_quick</i>	(Optional) unknown class frames
<i>frames_too_long_quick</i>	(Optional) frames too long
<i>frames_too_short_quick</i>	(Optional) frames too short
<i>total_out_frames_quick</i>	(Optional) total out frames
<i>total_out_bytes_quick</i>	(Optional) total out bytes
<i>total_out_discards_quick</i>	(Optional) total out discards
<i>total_out_errors_quick</i>	(Optional) total out errors
<i>in_ols_quick</i>	(Optional) input OLS
<i>in_lrr_quick</i>	(Optional) input LRR
<i>in_nos_quick</i>	(Optional) input NOS
<i>in_loop_inits_quick</i>	(Optional) input loop inits
<i>out_ols_quick</i>	(Optional) output OLS
<i>out_lrr_quick</i>	(Optional) ouput LRR
<i>out_nos_quick</i>	(Optional) output NOS
<i>out_loop_inits_quick</i>	(Optional) output loop inits
<i>rx_b2b_perf_buff_quick</i>	(Optional) rx b2b performance buff
<i>rx_b2b_credit_quick</i>	(Optional) rx b2b credit
<i>tx_b2b_credit_quick</i>	(Optional) tx b2b credit
<i>tx_b2b_low_pri_cre_quick</i>	(Optional) tx b2b low pri credit
<i>fcoe_in_pkts_quick</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets_quick</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts_quick</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets_quick</i>	(Optional) fcoe out octets
TABLE_members_quick	(Optional) table for port-channel member interface

<i>port_channel_member_quick</i>	(Optional) port-channel member interface
<i>interface_last_changed_quick</i>	(Optional) interface last changed
<i>time_last_cleared_quick</i>	(Optional) counters last cleared
<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>encapsulation</i>	(Optional) Encapsulation
<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_admin_fec_state</i>	(Optional) Admin FEC state
<i>eth_oper_fec_state</i>	(Optional) Oper FEC 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_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_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<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_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</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_load_interval3_tx</i>	(Optional) interval 3 timer value in 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_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<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_overnrun</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>tunnel_vrf_name</i>	(Optional) tunnel 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
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>oper_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>vlan_id</i>	(Optional) Vlan
<i>type</i>	(Optional) type
<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 beast 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
<i>switchport</i>	(Optional) Switchport enabled

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> ] [ <encapsulation> ] [ <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_swt_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
<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) 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>encapsulation</i>	(Optional) Encapsulation
<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_ether_tpe</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_clk_mode</i>	(Optional) Clock mode
<i>eth_arp_tpe</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> <tunnel_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 IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>tunnel_vrf_name</i>	(Optional) tunnel 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

```
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> ] [ <encapsulation> ] [ <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_admin_fec_state> ] [ <eth_oper_fec_state> ] [ <eth_members>
] [ <eth_link_flapped> ] [ <eth_clear_counters> ] [ <eth_reset_cntr> ] [ <eth_load_interval1_rx> ] [
<eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [ <eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [
<eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits> ] [ <eth_inrate1_summary_pkts> ] [
<eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [ <eth_load_interval2_rx> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [ <eth_outrate2_bits> ] [
<eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ] [
<eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_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>encapsulation</i>	(Optional) Encapsulation
<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_admin_fec_state</i>	(Optional) Admin FEC state
<i>eth_oper_fec_state</i>	(Optional) Oper FEC 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_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_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<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_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</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_load_interval3_tx</i>	(Optional) interval 3 timer value in 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_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<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>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> ] [ <encapsulation> ] [ <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_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
<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>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>encapsulation</i>	(Optional) Encapsulation
<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) Mdix
<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 ucast pkts
<i>nve_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>nve_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>nve_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>nve_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>nve_rx_bcastbytes</i>	(Optional) Received bcast 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) Trasnmitted ucast pkts
<i>nve_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>nve_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>nve_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes
<i>nve_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts
<i>nve_tx_bcastbytes</i>	(Optional) Trasnmitted bcast 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 aggregate-counters

```
show interface aggregate-counters [ brief ] [ __readonly__ TABLE interface <interface_aggr> [ <str_aggr> ] [ <if_index_aggr> ] [ <in_bps_aggr> ] [ <in_byps_aggr> ] [ <in_fps_aggr> ] [ <out_bps_aggr> ] [ <out_byps_aggr> ] [ <out_fps_aggr> ] [ <total_in_frames_aggr> ] [ <total_in_bytes_aggr> ] [ <C2InFrames_aggr> ] [ <C2InOctets_aggr> ] [ <C3InFrames_aggr> ] [ <C3InOctets_aggr> ] [ <CfInFrames_aggr> ] [ <CfInOctets_aggr> ] [ <total_in_discards_aggr> ] [ <total_in_errors_aggr> ] [ <InvalidCrcs_aggr> ] [ <UnknownClassFrames_aggr> ] [ <FramesTooLong_aggr> ] [ <FramesTooShort_aggr> ] [ <total_out_frames_aggr> ] [ <total_out_bytes_aggr> ] [ <C2OutFrames_aggr> ] [ <C2OutOctets_aggr> ] [ <C3OutFrames_aggr> ] [ <C3OutOctets_aggr> ] [ <CfOutFrames_aggr> ] [ <CfOutOctets_aggr> ] [ <total_out_discards_aggr> ] [ <total_out_errors_aggr> ] [ <OlsIns_aggr> ] [ <LRRIn_aggr> ] [ <NOSIn_aggr> ] [ <in_lip_aggr> ] [ <OlsOuts_aggr> ] [ <LRROut_aggr> ] [ <NOSOut_aggr> ] [ <out_lip_aggr> ] [ <LinkFailures_aggr> ] [ <SyncLosses_aggr> ] [ <SigLosses_aggr> ] [ <TxBBCreditTransistionToZero_aggr> ] [ <RxBBCreditTransistionToZero_aggr> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [ <tx_b2b_credit> ] [ <tx_b2b_low_pri_cre> ] [ <InputRate_aggr_brief> ] [ <TotalIpFrame_aggr_brief> ] [ <OutRate_aggr_brief> ] [ <TotalOpFrame_aggr_brief> ] [ <line_aggr_brief> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
aggregate-counters	Show interface aggregate counters
brief	(Optional) Show interface aggregate counters in brief
__readonly__	(Optional) Read Only
<i>interface_aggr</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>str_aggr</i>	(Optional) string
<i>if_index_aggr</i>	(Optional) index
<i>in_bps_aggr</i>	(Optional) input rate in bits/s
<i>in_byps_aggr</i>	(Optional) input rate in bytes/s
<i>in_fps_aggr</i>	(Optional) input rate in frames/s
<i>out_bps_aggr</i>	(Optional) output rate in bits/s
<i>out_byps_aggr</i>	(Optional) output rate in bytes/s
<i>out_fps_aggr</i>	(Optional) output rate in frames/s
<i>total_in_frames_aggr</i>	(Optional) total input frames
<i>total_in_bytes_aggr</i>	(Optional) total input frames
<i>C2InFrames_aggr</i>	(Optional) class-2 frames

<i>C2InOctets_aggr</i>	(Optional) class-2 frames in bytes
<i>C3InFrames_aggr</i>	(Optional) class-3 frames
<i>C3InOctets_aggr</i>	(Optional) class-3 frames in bytes
<i>CfInFrames_aggr</i>	(Optional) class-f frames
<i>CfInOctets_aggr</i>	(Optional) class-f frames in bytes
<i>total_in_discards_aggr</i>	(Optional) total in discards
<i>total_in_errors_aggr</i>	(Optional) total in errors
<i>InvalidCrcs_aggr</i>	(Optional) invalid CRC
<i>UnknownClassFrames_aggr</i>	(Optional) unknown class
<i>FramesTooLong_aggr</i>	(Optional) too long
<i>FramesTooShort_aggr</i>	(Optional) too short
<i>total_out_frames_aggr</i>	(Optional) total out frames
<i>total_out_bytes_aggr</i>	(Optional) total out frames in byte
<i>C2OutFrames_aggr</i>	(Optional) class-2 out frames
<i>C2OutOctets_aggr</i>	(Optional) class-2 out frames in bytes
<i>C3OutFrames_aggr</i>	(Optional) class-3 out frames
<i>C3OutOctets_aggr</i>	(Optional) class-3 out frames in bytes
<i>CfOutFrames_aggr</i>	(Optional) class-f out frames
<i>CfOutOctets_aggr</i>	(Optional) class-f out frames in bytes
<i>total_out_discards_aggr</i>	(Optional) total out discards
<i>total_out_errors_aggr</i>	(Optional) total out errors
<i>OlsIns_aggr</i>	(Optional) input OLS
<i>LRRIn_aggr</i>	(Optional) input LRR
<i>NOSIn_aggr</i>	(Optional) input NOS
<i>in_lip_aggr</i>	(Optional) loop inits
<i>OlsOuts_aggr</i>	(Optional) output OLS
<i>LRROut_aggr</i>	(Optional) output LRR
<i>NOSOut_aggr</i>	(Optional) output NOS
<i>out_lip_aggr</i>	(Optional) loop inits

<i>LinkFailures_aggr</i>	(Optional) link failure
<i>SyncLosses_aggr</i>	(Optional) sync losses
<i>SigLosses_aggr</i>	(Optional) signal losses
<i>TxBBCreditTransistionToZero_aggr</i>	(Optional) B2B credit transitions to zero
<i>RxBBCreditTransistionToZero_aggr</i>	(Optional) B2B credit transitions to zero
<i>rx_b2b_perf_buff</i>	(Optional) rx B2B performance buff
<i>rx_b2b_credit</i>	(Optional) rx B2B credit
<i>tx_b2b_credit</i>	(Optional) tx B2B credit
<i>tx_b2b_low_pri_cre</i>	(Optional) tx B2B low price credit
<i>InputRate_aggr_brief</i>	(Optional) Input rate in MBps
<i>TotalIpFrame_aggr_brief</i>	(Optional) Total input frames
<i>OutRate_aggr_brief</i>	(Optional) Output rate in MBps
<i>TotalOpFrame_aggr_brief</i>	(Optional) Total output frames
<i>line_aggr_brief</i>	(Optional) to print a line

Command Mode

- /exec

show interface aggregate-counters

```
show interface <ifid_aggr_ctrs2> aggregate-counters [ brief ] [ __readonly__ TABLE_interface
<interface_aggr> [ <str_aggr> ] [ <if_index_aggr> ] [ <in_bps_aggr> ] [ <in_byps_aggr> ] [ <in_fps_aggr>
] [ <out_bps_aggr> ] [ <out_byps_aggr> ] [ <out_fps_aggr> ] [ <total_in_frames_aggr> ] [
<total_in_bytes_aggr> ] [ <C2InFrames_aggr> ] [ <C2InOctets_aggr> ] [ <C3InFrames_aggr> ] [
<C3InOctets_aggr> ] [ <CfInFrames_aggr> ] [ <CfInOctets_aggr> ] [ <total_in_discards_aggr> ] [
<total_in_errors_aggr> ] [ <InvalidCrcs_aggr> ] [ <UnknownClassFrames_aggr> ] [ <FramesTooLong_aggr>
] [ <FramesTooShort_aggr> ] [ <total_out_frames_aggr> ] [ <total_out_bytes_aggr> ] [ <C2OutFrames_aggr>
] [ <C2OutOctets_aggr> ] [ <C3OutFrames_aggr> ] [ <C3OutOctets_aggr> ] [ <CfOutFrames_aggr> ] [
<CfOutOctets_aggr> ] [ <total_out_discards_aggr> ] [ <total_out_errors_aggr> ] [ <OlsIns_aggr> ] [
<LRRIn_aggr> ] [ <NOSIn_aggr> ] [ <in_lip_aggr> ] [ <OlsOuts_aggr> ] [ <LRROut_aggr> ] [
<NOSOut_aggr> ] [ <out_lip_aggr> ] [ <LinkFailures_aggr> ] [ <SyncLosses_aggr> ] [ <SigLosses_aggr>
] [ <TxBBCreditTransistionToZero_aggr> ] [ <RxBBCreditTransistionToZero_aggr> ] [ <rx_b2b_perf_buff>
] [ <rx_b2b_credit> ] [ <tx_b2b_credit> ] [ <tx_b2b_low_pri_cre> ] [ <InputRate_aggr_brief> ] [
<TotalIpFrame_aggr_brief> ] [ <OutRate_aggr_brief> ] [ <TotalOpFrame_aggr_brief> ] [ <line_aggr_brief>
] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_aggr_ctrs2</i>	Enter interface type and number in module/slot format
aggregate-counters	Show interface aggregate counters
brief	(Optional) Show interface aggregate counters in brief
<i>__readonly__</i>	(Optional) Read Only
<i>interface_aggr</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>str_aggr</i>	(Optional) string
<i>if_index_aggr</i>	(Optional) index
<i>in_bps_aggr</i>	(Optional) input rate in bits/s
<i>in_byps_aggr</i>	(Optional) input rate in bytes/s
<i>in_fps_aggr</i>	(Optional) input rate in frames/s
<i>out_bps_aggr</i>	(Optional) output rate in bits/s
<i>out_byps_aggr</i>	(Optional) output rate in bytes/s
<i>out_fps_aggr</i>	(Optional) output rate in frames/s
<i>total_in_frames_aggr</i>	(Optional) total input frames

<i>total_in_bytes_aggr</i>	(Optional) total input frames
<i>C2InFrames_aggr</i>	(Optional) class-2 frames
<i>C2InOctets_aggr</i>	(Optional) class-2 frames in bytes
<i>C3InFrames_aggr</i>	(Optional) class-3 frames
<i>C3InOctets_aggr</i>	(Optional) class-3 frames in bytes
<i>CfInFrames_aggr</i>	(Optional) class-f frames
<i>CfInOctets_aggr</i>	(Optional) class-f frames in bytes
<i>total_in_discards_aggr</i>	(Optional) total in discards
<i>total_in_errors_aggr</i>	(Optional) total in errors
<i>InvalidCrcs_aggr</i>	(Optional) invalid CRC
<i>UnknownClassFrames_aggr</i>	(Optional) unknown class
<i>FramesTooLong_aggr</i>	(Optional) too long
<i>FramesTooShort_aggr</i>	(Optional) too short
<i>total_out_frames_aggr</i>	(Optional) total out frames
<i>total_out_bytes_aggr</i>	(Optional) total out frames in byte
<i>C2OutFrames_aggr</i>	(Optional) class-2 out frames
<i>C2OutOctets_aggr</i>	(Optional) class-2 out frames in bytes
<i>C3OutFrames_aggr</i>	(Optional) class-3 out frames
<i>C3OutOctets_aggr</i>	(Optional) class-3 out frames in bytes
<i>CfOutFrames_aggr</i>	(Optional) class-f out frames
<i>CfOutOctets_aggr</i>	(Optional) class-f out frames in bytes
<i>total_out_discards_aggr</i>	(Optional) total out discards
<i>total_out_errors_aggr</i>	(Optional) total out errors
<i>OlsIns_aggr</i>	(Optional) input OLS
<i>LRRIn_aggr</i>	(Optional) input LRR
<i>NOSIn_aggr</i>	(Optional) input NOS
<i>in_lip_aggr</i>	(Optional) loop inits
<i>OlsOuts_aggr</i>	(Optional) output OLS
<i>LRROut_aggr</i>	(Optional) output LRR

<i>NOSOut_aggr</i>	(Optional) output NOS
<i>out_lip_aggr</i>	(Optional) loop inits
<i>LinkFailures_aggr</i>	(Optional) link failure
<i>SyncLosses_aggr</i>	(Optional) sync losses
<i>SigLosses_aggr</i>	(Optional) signal losses
<i>TxBBCreditTransistionToZero_aggr</i>	(Optional) B2B credit transitions to zero
<i>RxBBCreditTransistionToZero_aggr</i>	(Optional) B2B credit transitions to zero
<i>rx_b2b_perf_buff</i>	(Optional) rx B2B performance buff
<i>rx_b2b_credit</i>	(Optional) rx B2B credit
<i>tx_b2b_credit</i>	(Optional) tx B2B credit
<i>tx_b2b_low_pri_cre</i>	(Optional) tx B2B low price credit
<i>InputRate_aggr_brief</i>	(Optional) Input rate in MBps
<i>TotalIpFrame_aggr_brief</i>	(Optional) Total input frames
<i>OutRate_aggr_brief</i>	(Optional) Output rate in MBps
<i>TotalOpFrame_aggr_brief</i>	(Optional) Total output frames
<i>line_aggr_brief</i>	(Optional) to print a line

Command Mode

- /exec

show interface aggregate-counters

```
show interface <ifid_aggr_ctrs> aggregate-counters [ brief ] [ __readonly__ TABLE_interface <interface_aggr>
[ <str_aggr> ] [ <if_index_aggr> ] [ <in_bps_aggr> ] [ <in_byps_aggr> ] [ <in_fps_aggr> ] [ <out_bps_aggr> ]
[ <out_byps_aggr> ] [ <out_fps_aggr> ] [ <total_in_frames_aggr> ] [ <total_in_bytes_aggr> ] [
<C2InFrames_aggr> ] [ <C2InOctets_aggr> ] [ <C3InFrames_aggr> ] [ <C3InOctets_aggr> ] [
<CfInFrames_aggr> ] [ <CfInOctets_aggr> ] [ <total_in_discards_aggr> ] [ <total_in_errors_aggr> ] [
<InvalidCrcs_aggr> ] [ <UnknownClassFrames_aggr> ] [ <FramesTooLong_aggr> ] [ <FramesTooShort_aggr> ]
[ <total_out_frames_aggr> ] [ <total_out_bytes_aggr> ] [ <C2OutFrames_aggr> ] [ <C2OutOctets_aggr> ]
[ <C3OutFrames_aggr> ] [ <C3OutOctets_aggr> ] [ <CfOutFrames_aggr> ] [ <CfOutOctets_aggr> ] [
<total_out_discards_aggr> ] [ <total_out_errors_aggr> ] [ <OlsIns_aggr> ] [ <LRRIn_aggr> ] [ <NOSIn_aggr> ]
[ <in_lip_aggr> ] [ <OlsOuts_aggr> ] [ <LRROut_aggr> ] [ <NOSOut_aggr> ] [ <out_lip_aggr> ] [
<LinkFailures_aggr> ] [ <SyncLosses_aggr> ] [ <SigLosses_aggr> ] [ <TxBBCreditTransistionToZero_aggr> ]
[ <RxBBCreditTransistionToZero_aggr> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [ <tx_b2b_credit> ]
[ <tx_b2b_low_pri_cre> ] [ <InputRate_aggr_brief> ] [ <TotalIpFrame_aggr_brief> ] [ <OutRate_aggr_brief> ]
[ <TotalOpFrame_aggr_brief> ] [ <line_aggr_brief> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_aggr_ctrs</i>	Enter interface type and number in module/slot format
aggregate-counters	Show interface aggregate counters
brief	(Optional) Show interface aggregate counters in brief
<u>__readonly__</u>	(Optional) Read Only
<i>interface_aggr</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>str_aggr</i>	(Optional) string
<i>if_index_aggr</i>	(Optional) index
<i>in_bps_aggr</i>	(Optional) input rate in bits/s
<i>in_byps_aggr</i>	(Optional) input rate in bytes/s
<i>in_fps_aggr</i>	(Optional) input rate in frames/s
<i>out_bps_aggr</i>	(Optional) output rate in bits/s
<i>out_byps_aggr</i>	(Optional) output rate in bytes/s
<i>out_fps_aggr</i>	(Optional) output rate in frames/s
<i>total_in_frames_aggr</i>	(Optional) total input frames
<i>total_in_bytes_aggr</i>	(Optional) total input frames

<i>C2InFrames_aggr</i>	(Optional) class-2 frames
<i>C2InOctets_aggr</i>	(Optional) class-2 frames in bytes
<i>C3InFrames_aggr</i>	(Optional) class-3 frames
<i>C3InOctets_aggr</i>	(Optional) class-3 frames in bytes
<i>CfInFrames_aggr</i>	(Optional) class-f frames
<i>CfInOctets_aggr</i>	(Optional) class-f frames in bytes
<i>total_in_discards_aggr</i>	(Optional) total in discards
<i>total_in_errors_aggr</i>	(Optional) total in errors
<i>InvalidCrcs_aggr</i>	(Optional) invalid CRC
<i>UnknownClassFrames_aggr</i>	(Optional) unknown class
<i>FramesTooLong_aggr</i>	(Optional) too long
<i>FramesTooShort_aggr</i>	(Optional) too short
<i>total_out_frames_aggr</i>	(Optional) total out frames
<i>total_out_bytes_aggr</i>	(Optional) total out frames in byte
<i>C2OutFrames_aggr</i>	(Optional) class-2 out frames
<i>C2OutOctets_aggr</i>	(Optional) class-2 out frames in bytes
<i>C3OutFrames_aggr</i>	(Optional) class-3 out frames
<i>C3OutOctets_aggr</i>	(Optional) class-3 out frames in bytes
<i>CfOutFrames_aggr</i>	(Optional) class-f out frames
<i>CfOutOctets_aggr</i>	(Optional) class-f out frames in bytes
<i>total_out_discards_aggr</i>	(Optional) total out discards
<i>total_out_errors_aggr</i>	(Optional) total out errors
<i>OlsIns_aggr</i>	(Optional) input OLS
<i>LRRIn_aggr</i>	(Optional) input LRR
<i>NOSIn_aggr</i>	(Optional) input NOS
<i>in_lip_aggr</i>	(Optional) loop inits
<i>OlsOuts_aggr</i>	(Optional) output OLS
<i>LRROut_aggr</i>	(Optional) output LRR
<i>NOSOut_aggr</i>	(Optional) output NOS

<i>out_lip_aggr</i>	(Optional) loop inits
<i>LinkFailures_aggr</i>	(Optional) link failure
<i>SyncLosses_aggr</i>	(Optional) sync losses
<i>SigLosses_aggr</i>	(Optional) signal losses
<i>TxBBCreditTransistionToZero_aggr</i>	(Optional) B2B credit transitions to zero
<i>RxBBCreditTransistionToZero_aggr</i>	(Optional) B2B credit transitions to zero
<i>rx_b2b_perf_buff</i>	(Optional) rx B2B performance buff
<i>rx_b2b_credit</i>	(Optional) rx B2B credit
<i>tx_b2b_credit</i>	(Optional) tx B2B credit
<i>tx_b2b_low_pri_cre</i>	(Optional) tx B2B low price credit
<i>InputRate_aggr_brief</i>	(Optional) Input rate in MBps
<i>TotalIpFrame_aggr_brief</i>	(Optional) Total input frames
<i>OutRate_aggr_brief</i>	(Optional) Output rate in MBps
<i>TotalOpFrame_aggr_brief</i>	(Optional) Total output frames
<i>line_aggr_brief</i>	(Optional) to print a line

Command Mode

- /exec

show interface bbcredit

```
show interface <ifid_bbcrd> bbcredit [ __readonly__ TABLE_interface [ <interface_sfp> <state> [
<down_reason> ] [ <transmit_b2b> ] [ <receive_b2b> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [
<tx_b2b_credit> ] [ <tx_b2b_low_pri_cre> ] ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_bbcrd</i>	Enter interface type and number in module/slot format
bbcredit	Show BB_credit information for interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface_sfp</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) State
<i>down_reason</i>	(Optional) Reason for interface being down
<i>transmit_b2b</i>	(Optional) Transmit B2B
<i>receive_b2b</i>	(Optional) Receive B2B
<i>rx_b2b_perf_buff</i>	(Optional) RX B2B performance buffer
<i>rx_b2b_credit</i>	(Optional) RX B2B credit remaining
<i>tx_b2b_credit</i>	(Optional) TX B2B credit remaining
<i>tx_b2b_low_pri_cre</i>	(Optional) TX B2B low priority Credit

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 <ifid_brf> brief [ __readonly__ { TABLE_interface <interface> [ <desc> ] [ <svi_if_index>
] [ <svi_admin_state> ] [ <oper_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> ] [ <vlan_id>
] [ <type> ] ] [ <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_secondary_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_inrate1_summary_bits>
] [ <eth_inrate1_summary_pkts> ] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ]
] [ <eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_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_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<u>__readonly__</u>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>desc</i>	(Optional) Interface description
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>oper_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>vlan_id</i>	(Optional) Vlan
<i>type</i>	(Optional) type
<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_secondary_vlan	(Optional) Secondary vlan
<i>sec_vlan</i>	(Optional) Secondary 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_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<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_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</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_load_interval3_tx</i>	(Optional) interval 3 timer value in 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_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<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_overnrun</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
<i>switchport</i>	(Optional) Switchport enabled

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> ] [ <bind_mac> ] [ <port_rate_mode> ] [ <oper_speed> ] [ <port_channel> ] [ <ip_addr1> ] [ { TABLE_secondary_vlan <sec_vlan> <sec_vlan_type> } ] [ <svi_admin_state> ] [ <svi_rsn_desc> } ] ]
```

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
__readonly__	(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_yfc</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>bind_mac</i>	(Optional) bind mac address
<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
TABLE_secondary_vlan	(Optional) Secondary vlan
<i>sec_vlan</i>	(Optional) Secondary vlan ID
<i>sec_vlan_type</i>	(Optional) Secondary vlan type
<i>svi_admin_state</i>	(Optional) svi admin state
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed

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>
<tunnel_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>tunnel_vrf_name</i>	(Optional) tunnel 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 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> ] [ <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
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<u>TABLE_interface</u>	(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 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
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 <ifid_cap> capabilities [ __readonly__ { TABLE_interface_capabilities_if <interface> [
<min_speed> ][ <max_speed> ][ <FC-PH_version_high> ][ <FC-PH_version_low> ][ <recieve_data_max>
][ <recieve_data_min> ][ <transmit_data_max> ][ <transmit_data_min> ][ <class_service> ][ <class_2>
][ <class_3> ][ <hold_time_max> ][ <hold_time_min> ][ <BB_state_change> ][ <max_BB_state_change>
][ <rate_mode_change> ][ <rate_mode_cap> ][ <recieve_BB_credit> ][ <FX_recieve_BB_credit> ][
<ISL_recieve_BB_credit> ][ <shared_performance_buf_mod_supp> ][
<dedicated_performance_buf_mod_supp> ][ <fx_mode_perf_buf> ][ <isl_mode_perf_buf> ][ <out_of_order>
][ <beacon_mode_config> ][ <extended_B2B> ][ <on_demand_port> } ] }
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_cap</i>	Enter interface type and number in module/slot format
capabilities	Show interface capabilities information
<i>__readonly__</i>	(Optional)
TABLE_interface_capabilities_if	(Optional) interface capabilities if table
<i>interface</i>	(Optional) fc interface
<i>min_speed</i>	(Optional) Min Speed
<i>max_speed</i>	(Optional) Max Speed
<i>FC-PH_version_high</i>	(Optional) FC-PH version high
<i>FC-PH_version_low</i>	(Optional) FC-PH version low
<i>recieve_data_max</i>	(Optional) Receive data field size max
<i>recieve_data_min</i>	(Optional) Receive data field size min
<i>transmit_data_max</i>	(Optional) Transmit data field size max
<i>transmit_data_min</i>	(Optional) Transmit data field size min
<i>class_service</i>	(Optional) Classes of Service supported
<i>class_2</i>	(Optional) Class 2 sequential delivery
<i>class_3</i>	(Optional) Class 3 sequential delivery
<i>hold_time_max</i>	(Optional) Hold time max
<i>hold_time_min</i>	(Optional) Hold time min
<i>BB_state_change</i>	(Optional) BB state change notification

<i>max_BB_state_change</i>	(Optional) Maximum BB state change notifications
<i>rate_mode_change</i>	(Optional) Rate Mode change
<i>rate_mode_cap</i>	(Optional) Rate Mode Capabilities
<i>recieve_BB_credit</i>	(Optional) Receive BB Credit modification supported
<i>FX_recieve_BB_credit</i>	(Optional) FX mode Receive BB Credit (min/max/default)
<i>ISL_recieve_BB_credit</i>	(Optional) ISL mode Receive BB Credit (min/max/default)
<i>shared_performance_buf_mod_supp</i>	(Optional) Performance buffer modification supported shared
<i>dedicated_performance_buf_mod_supp</i>	(Optional) Performance buffer modification supported dedicated
<i>fx_mode_perf_buf</i>	(Optional) FX mode performance buffers
<i>isl_mode_perf_buf</i>	(Optional) ISL mode performance buffers
<i>out_of_order</i>	(Optional) Out of Service capable
<i>beacon_mode_config</i>	(Optional) Beacon mode configurable
<i>extended_B2B</i>	(Optional) Extended B2B credit capable
<i>on_demand_port</i>	(Optional) On demand port activation license supported

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
<u>__readonly__</u>	(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 counters

```
show interface <ifeth_ctr> counters [ __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
<i>__readonly__</i>	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
<i>interface_rx</i>	(Optional) Interface index rx
<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_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
TABLE_tx_counters	(Optional) show Tx counters
<i>interface_tx</i>	(Optional) Interface index tx
<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_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 <ifid_ctr> counters [ brief ] [ __readonly__ ] [ { TABLE_counters <sfp> { TABLE_input_rate
<bit_per_sec> <bytes_per_sec> <frames_per_sec> } { TABLE_output_rate <bit_per_sec> <bytes_per_sec>
<frames_per_sec> } { TABLE_input <frames> <bytes> [ <class_2_frames> ] [ <class_2_bytes> ] [
<class_3_frames> ] [ <class_3_bytes> ] [ <class_f_frames> ] [ <class_f_bytes> ] [ <class_2_3_frames> ]
<discards> <errors> <crc_fcs> <unknown_class> <too_long> <too_short> } { TABLE_output <frames>
<bytes> [ <class_2_frames> ] [ <class_2_bytes> ] [ <class_3_frames> ] [ <class_3_bytes> ] [ <class_f_frames>
] [ <class_f_bytes> ] [ <class_2_3_frames> ] [ <discards> ] [ <errors> ] [ <crc_fcs> ] [ <timeout_discards>
] [ <credit_loss> ] [ <input_ols> ] [ <input_lrr> ] [ <input_nos> ] [ <input_loop_inits> ] [ <output_ols> ] [
<output_lrr> ] [ <output_nos> ] [ <output_loop_inits> ] [ <link_faliures> ] [ <sync_loss> ] [ <signal_loss> ]
[ <b2b_transmit> ] [ <b2b_receive> ] [ <txwait> ] [ <tx_credit_unavbl> ] [ <b2b_receive_remain> ] [
<b2b_transmit_remain> ] [ <low_priority_b2b_remain> ] [ <off_seq_err_rcvd> ] [ <broadcast_frames> ] [
<errors> ] [ <queue_drops> ] [ <if_down_drops> ] [ <red_drops> ] [ <bad_ether_type_drops> ] [
<bad_protocol_drops> ] [ <arp_drops> ] [ <reass_frames> ] [ <timestamp_error> ] [ <rx_b2b_perf_buff> ]
[ <rx_b2b_credit> ] [ <tx_b2b_credit> ] [ <tx_b2b_low_pri_cre> ] [ <time_last_cleared> ] } ] [ {
TABLE_counters_brief <sfp> <fc_input_rate> <fc_frames_in> <fc_output_rate> <fc_frames_out> } ] ]
```

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
brief	(Optional) Show interface counters in brief
__readonly__	(Optional) Readonly
TABLE_counters	(Optional) Table counters
<i>sfp</i>	(Optional) SFP
TABLE_input_rate	(Optional) Input rate
<i>bit_per_sec</i>	(Optional) Input rate bits per second
<i>bytes_per_sec</i>	(Optional) Input rate bytes per second
<i>frames_per_sec</i>	(Optional) Input rate frames per second
TABLE_output_rate	(Optional) Output rate
<i>bit_per_sec</i>	(Optional) Output rate bits per second
<i>bytes_per_sec</i>	(Optional) Output rate bytes per second
<i>frames_per_sec</i>	(Optional) Output rate frames per second
TABLE_input	(Optional) Input values

<i>frames</i>	(Optional) Frames
<i>bytes</i>	(Optional) Bytes
<i>class_2_frames</i>	(Optional) Class 2 frames
<i>class_2_bytes</i>	(Optional) Class 2 bytes
<i>class_3_frames</i>	(Optional) Class 3 frames
<i>class_3_bytes</i>	(Optional) Class 3 bytes
<i>class_f_frames</i>	(Optional) Class f frames
<i>class_f_bytes</i>	(Optional) Class f bytes
<i>class_2_3_frames</i>	(Optional) Class 2/3 Frames
<i>discards</i>	(Optional) Discards
<i>errors</i>	(Optional) Errors
<i>crc_fcs</i>	(Optional) CRC/FCS
<i>unknown_class</i>	(Optional) Unknown Class
<i>too_long</i>	(Optional) Frames too long
<i>too_short</i>	(Optional) Frames too short
TABLE_output	(Optional) Output Values
<i>frames</i>	(Optional) Frames
<i>bytes</i>	(Optional) Bytes
<i>class_2_frames</i>	(Optional) Class 2 frames
<i>class_2_bytes</i>	(Optional) Class 2 bytes
<i>class_3_frames</i>	(Optional) Class 3 frames
<i>class_3_bytes</i>	(Optional) Class 3 bytes
<i>class_f_frames</i>	(Optional) Class f frames
<i>class_f_bytes</i>	(Optional) Class f bytes
<i>class_2_3_frames</i>	(Optional) Class 2/3 frames
<i>discards</i>	(Optional) Discards
<i>errors</i>	(Optional) Errors
<i>crc_fcs</i>	(Optional) CRC/FCS
<i>timeout_discards</i>	(Optional) Timeout Discards

<i>credit_loss</i>	(Optional) Credit Loss
<i>input_ols</i>	(Optional) input ols
<i>input_lrr</i>	(Optional) input LRR
<i>input_nos</i>	(Optional) input NOS
<i>input_loop_inits</i>	(Optional) input loop inits
<i>output_ols</i>	(Optional) output OLS
<i>output_lrr</i>	(Optional) output LRR
<i>output_nos</i>	(Optional) output NOS
<i>output_loop_inits</i>	(Optional) output loop inits
<i>link_faliures</i>	(Optional) link faliures
<i>sync_loss</i>	(Optional) Sync loss
<i>signal_loss</i>	(Optional) Signal loss
<i>b2b_transmit</i>	(Optional) B2B transmit
<i>b2b_receive</i>	(Optional) B2B receive
<i>txwait</i>	(Optional) TxWait
<i>tx_credit_unavbl</i>	(Optional) Tx credit unavaliable
<i>b2b_receive_remain</i>	(Optional) B2B receive remain
<i>b2b_transmit_remain</i>	(Optional) B2B transmit remain
<i>low_priority_b2b_remain</i>	(Optional) Low priority B2B credit remaining
<i>time_last_cleared</i>	(Optional) Last time cleared
<i>broadcast_frames</i>	(Optional) Broadcast frames
<i>errors</i>	(Optional) Errors
<i>queue_drops</i>	(Optional) Queue drops
<i>if_down_drops</i>	(Optional) If down drops
<i>red_drops</i>	(Optional) Red drops
<i>bad_ether_type_drops</i>	(Optional) Bad ether type drops
<i>bad_protocol_drops</i>	(Optional) Bad Protocol Drops
<i>arp_drops</i>	(Optional) Arp Drops
<i>timestamp_error</i>	(Optional) Timestamp Error

<i>reass_frames</i>	(Optional) Reass Frames
<i>rx_b2b_perf_buff</i>	(Optional) RX B2B performance buffer
<i>rx_b2b_credit</i>	(Optional) RX B2B credit remaining
<i>tx_b2b_credit</i>	(Optional) TX B2B credit remaining
<i>tx_b2b_low_pri_cre</i>	(Optional) TX B2B low priority Credit
<i>off_seq_err_rcvd</i>	(Optional) Offset Sequence Error Received
TABLE_counters_brief	(Optional) Table counters brief
<i>sfp</i>	(Optional) FC id
<i>fc_input_rate</i>	(Optional) Input rate
<i>fc_frames_in</i>	(Optional) Frames in
<i>fc_output_rate</i>	(Optional) Output rate
<i>fc_frames_out</i>	(Optional) Frames out

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
<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
<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
TABLE_tx_counters	(Optional) show Tx counters
<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> ] [ <fc_inframes> ] [ <eth_inbytes> ] [ <fc_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>fc_inframes</i>	(Optional) Frames input fc
<i>eth_inbytes</i>	(Optional) Bytes input
<i>fc_inbytes</i>	(Optional) Bytes input fc
<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
TABLE_rx_counters	(Optional) show Rx counters
<i>interface_rx</i>	(Optional) Interface index rx
<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_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
TABLE_tx_counters	(Optional) show Tx counters
<i>interface_tx</i>	(Optional) Interface index tx
<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_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 beast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted beast 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_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
<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
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<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_intv1</i>	(Optional) interval 1 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_intv2</i>	(Optional) interval 2 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)

<i>eth_load_intv3</i>	(Optional) interval 3 timer value in sec
-----------------------	--

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> ] [ <fc_input_rate> ] [ <fc_frames_in> ] [ <fc_output_rate> ] [ <fc_frames_out> ]
```

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_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_intv1</i>	(Optional) interval 1 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_intv2</i>	(Optional) interval 2 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)
<i>eth_load_intv3</i>	(Optional) interval 3 timer value in sec

<i>fc_input_rate</i>	(Optional) Input rate
<i>fc_frames_in</i>	(Optional) Frames in
<i>fc_output_rate</i>	(Optional) Output rate
<i>fc_frames_out</i>	(Optional) Frames out

Command Mode

- /exec

show interface counters detailed

```
show interface <ifeth_ctr_dtl> counters detailed [ snmp ] [ __readonly__ TABLE_interface <interface> [
<eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [ <eth_load_interval1_tx> ] [
<eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits> ] [ <eth_inrate1_summary_pkts> ] [
<eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [ <eth_load_interval2_rx> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [ <eth_outrate2_bits> ] [
<eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ] [
<eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_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_runts> ] [
<eth_crc> ] [ <eth_ecc> ] [ <eth_overnun> ] [ <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
__readonly__	(Optional) Read Only

<i>interface</i>	(Optional) Interface index
TABLE <i>interface</i>	(Optional) show interface
<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_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<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_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</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_load_interval3_tx</i>	(Optional) interval 3 timer value in 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_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary

<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<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

```

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> ] [
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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
interface	(Optional) Interface index
vdc_lvl_in_pkts	(Optional) VDC level input packets
vdc_lvl_in_bytes	(Optional) VDC level input bytes
vdc_lvl_in_ucast	(Optional) VDC level input unicast packets
vdc_lvl_in_mcast	(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_overnrun</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_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_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<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_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</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_load_interval3_tx</i>	(Optional) interval 3 timer value in 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_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<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
<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
<i>input_rate_bit_per_sec</i>	(Optional) Input rate bits per second
<i>input_rate_bytes_per_sec</i>	(Optional) Input rate bytes per second
<i>input_rate_frames_per_sec</i>	(Optional) Input rate frames per second
<i>output_rate_bit_per_sec</i>	(Optional) Output rate bits per second
<i>output_rate_bytes_per_sec</i>	(Optional) Output rate bytes per second
<i>output_rate_frames_per_sec</i>	(Optional) Output rate frames per second
<i>in_frames</i>	(Optional) Frames
<i>in_bytes</i>	(Optional) Bytes
<i>class_2_in_frames</i>	(Optional) Class 2 frames
<i>class_2_in_bytes</i>	(Optional) Class 2 bytes
<i>class_3_in_frames</i>	(Optional) Class 3 frames
<i>class_3_in_bytes</i>	(Optional) Class 3 bytes
<i>class_f_in_frames</i>	(Optional) Class f frames
<i>class_f_in_bytes</i>	(Optional) Class f bytes
<i>class_2_3_in_frames</i>	(Optional) Class 2/3 Frames
<i>in_discards</i>	(Optional) Discards
<i>in_errors</i>	(Optional) Errors
<i>in_crc_fcs</i>	(Optional) CRC/FCS
<i>in_unknown_class</i>	(Optional) Unknown Class

<i>in_too_long</i>	(Optional) Frames too long
<i>in_too_short</i>	(Optional) Frames too short
<i>out_frames</i>	(Optional) Frames
<i>out_bytes</i>	(Optional) Bytes
<i>class_2_out_frames</i>	(Optional) Class 2 frames
<i>class_2_out_bytes</i>	(Optional) Class 2 bytes
<i>class_3_out_frames</i>	(Optional) Class 3 frames
<i>class_3_out_bytes</i>	(Optional) Class 3 bytes
<i>class_f_out_frames</i>	(Optional) Class f frames
<i>class_f_out_bytes</i>	(Optional) Class f bytes
<i>class_2_3_out_frames</i>	(Optional) Class 2/3 frames
<i>out_discards</i>	(Optional) Discards
<i>out_errors</i>	(Optional) Errors
<i>out_crc_fcs</i>	(Optional) CRC/FCS
<i>timeout_discards</i>	(Optional) Timeout Discards
<i>credit_loss</i>	(Optional) Credit Loss
<i>input_ols</i>	(Optional) input ols
<i>input_lrr</i>	(Optional) input LRR
<i>input_nos</i>	(Optional) input NOS
<i>input_loop_inits</i>	(Optional) input loop inits
<i>output_ols</i>	(Optional) output OLS
<i>output_lrr</i>	(Optional) output LRR
<i>output_nos</i>	(Optional) output NOS
<i>output_loop_inits</i>	(Optional) output loop inits
<i>link_faliures</i>	(Optional) link faliures
<i>sync_loss</i>	(Optional) Sync loss
<i>signal_loss</i>	(Optional) Signal loss
<i>b2b_transmit</i>	(Optional) B2B transmit
<i>b2b_receive</i>	(Optional) B2B receive

<i>txwait</i>	(Optional) TxWait
<i>tx_credit_unavbl</i>	(Optional) Tx credit unavliable
<i>b2b_receive_remain</i>	(Optional) B2B receive remain
<i>b2b_transmit_remain</i>	(Optional) B2B transmit remain
<i>low_priority_b2b_remain</i>	(Optional) Low priority B2B credit remaining
<i>off_seq_err_rcvd</i>	(Optional) Offset Sequence Error Received
<i>broadcast_frames</i>	(Optional) Broadcast frames
<i>errors</i>	(Optional) Errors
<i>queue_drops</i>	(Optional) Queue drops
<i>if_down_drops</i>	(Optional) If down drops
<i>red_drops</i>	(Optional) Red drops
<i>bad_ether_type_drops</i>	(Optional) Bad ether type drops
<i>bad_protocol_drops</i>	(Optional) Bad Protocol Drops
<i>arp_drops</i>	(Optional) Arp Drops
<i>timestamp_error</i>	(Optional) Timestamp Error
<i>reass_frames</i>	(Optional) Reass Frames
<i>rx_b2b_perf_buff</i>	(Optional) RX B2B performance buffer
<i>rx_b2b_credit</i>	(Optional) RX B2B credit remaining
<i>tx_b2b_credit</i>	(Optional) TX B2B credit remaining
<i>tx_b2b_low_pri_cre</i>	(Optional) TX B2B low priority Credit
<i>time_last_cleared</i>	(Optional) Last time cleared

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 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_inrate1_summary_bits> ]
[ <eth_inrate1_summary_pkts> ] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ]
[ <eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_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> ] ]
```

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
<i>__readonly__</i>	(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_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>rx_tx_giants</i>	(Optional) giants
<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_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<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_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</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_load_interval3_tx</i>	(Optional) interval 3 timer value in 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_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary

<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<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

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
<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_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_overrun</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 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_inrate1_summary_bits> ][ <eth_inrate1_summary_pkts> ][
<eth_outrate1_summary_bits> ][ <eth_outrate1_summary_pkts> ][ <eth_load_interval2_rx> ][
<eth_inrate2_bits> ][ <eth_inrate2_pkts> ][ <eth_load_interval2_tx> ][ <eth_outrate2_bits> ][
<eth_outrate2_pkts> ][ <eth_inrate2_summary_bits> ][ <eth_inrate2_summary_pkts> ][
<eth_outrate2_summary_bits> ][ <eth_outrate2_summary_pkts> ][ <eth_load_interval3_rx> ][
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<eth_outrate3_pkts> ][ <eth_inrate3_summary_bits> ][ <eth_inrate3_summary_pkts> ][
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][ <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> ][
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<eth_storm_supp> ][ <eth_throtles> ][ <eth_inerr> ][ <eth_crc> ][ <eth_ecc> ][ <eth_frame> ][
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][ <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
cached	everything cached
<i>__readonly__</i>	(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_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

show interface counters detailed cached

<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_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<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_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</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_load_interval3_tx</i>	(Optional) interval 3 timer value in 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_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary

<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<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

show interface counters detailed cached

<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

show interface counters detailed cached

<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 details

```
show interface <ifid_ctrs_det2> counters details [ __readonly__ TABLE_ifid_counters [ <sfp> <in_frames>
<in_bytes> <class_2_frames> <class_2_in_bytes> <class_2_in_discards> <class_2_in_f_bsy_frames>
<class_2_in_f_rgt_frames> <class_2_in_port_reject_frames> <class_3_frames> <class_3_bytes_rcvd>
<class_f_frames> <class_f_bytes_rcvd> <class_f_in_discards> <class_f_errors_rcvd> <class_f_out_discards>
<class_f_errors_trans> <out_frames> <out_bytes> <class_2_out_frames> <class_2_bytes_trans>
<class_3_out_frames> <class_3_bytes_trans> <class_3_out_discards> <class_f_out_frames>
<class_f_bytes_trans> <class_f_discards> <muticast_rcvd> <multicast_trans> <broadcast_rcvd>
<broadcast_trans> <unicast_rcvd> <unicast_trans> <timeout_discards> <credit_loss> <link_faliures>
<sync_loss> <signal_loss> <prm_seq_pro_err> <inv_trans_err> <inv_crc> <delim_err> <addr_iden_err>
<link_reset_rcvd> <link_reset_trans> <off_seq_err_rcvd> <off_seq_err_trans> <frames_rcvd_short>
<frames_rcvd_long> <txwait> <frames_rcvd_greater> <frame_rcvd_short_header> <link_reset_resp_rcvd>
<link_reset_resp_trans> <non_oper_seq_rcvd> <non_oper_seq_trans> <frag_frames_rcvd> <frames_eof_abort>
<unknown_class_frames_rcvd> <8b10b_disparity_err> <frames_discard> <ex_link_param_sw_fab> [
<in_link_ser_req_faliures> ] <b2b_credits_transmit> <b2b_credits_receive> <eisl_frames> <framing_err>
<f8_lip_seq_err_rcvd> <f8_lip_seq_err_issued> <non_f8_lip_seq_err_rcvd> <non_f8_lip_seq_err_issued>
[ <fec_corrected> ] [ <fec_uncorrected> ] ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctrs_det2</i>	Enter interface type and number in module/slot format
counters	Show interface counters
details	Show interface counters in detail
<u>__readonly__</u>	(Optional)
TABLE_ifid_counters	(Optional) show interface counters
<i>sfp</i>	(Optional) SFP
<i>in_frames</i>	(Optional) in frames
<i>in_bytes</i>	(Optional) in bytes
<i>class_2_frames</i>	(Optional) Class 2 frames
<i>class_2_in_bytes</i>	(Optional) Class 2 bytes received
<i>class_2_in_discards</i>	(Optional) Class 2 discards received
<i>class_2_in_f_bsy_frames</i>	(Optional) Class 2 F_BSY frames received
<i>class_2_in_f_rgt_frames</i>	(Optional) Class 2 F_RGT frames
<i>class_2_in_port_reject_frames</i>	(Optional) Class 2 port reject frames
<i>class_3_frames</i>	(Optional) Class 3 frames

<i>class_3_bytes_rcv</i>	(Optional) Class 3 bytes received
<i>class_f_frames</i>	(Optional) Class f frames
<i>class_f_bytes_rcv</i>	(Optional) Class F bytes received
<i>class_f_in_discards</i>	(Optional) Class F in discards
<i>class_f_errors_rcvd</i>	(Optional) Class F errors received
<i>class_f_out_discards</i>	(Optional) Class F out discards
<i>class_f_errors_trans</i>	(Optional) Class F errors transmitted
<i>out_frames</i>	(Optional) Out frames
<i>out_bytes</i>	(Optional) Out bytes
<i>class_2_out_frames</i>	(Optional) Class 2 frames transmitted
<i>class_2_bytes_trans</i>	(Optional) Class 2 bytes transmitted
<i>class_3_out_frames</i>	(Optional) Class 3 frames transmitted
<i>class_3_bytes_trans</i>	(Optional) Class 3 bytes transmitted
<i>class_3_out_discards</i>	(Optional) Class 3 out discards
<i>class_f_out_frames</i>	(Optional) Class F out frames
<i>class_f_bytes_trans</i>	(Optional) Class F bytes transmitted
<i>class_f_discards</i>	(Optional) Class F discards
<i>multicast_rcvd</i>	(Optional) Multicast received
<i>multicast_trans</i>	(Optional) Muticast transmitted
<i>broadcast_rcvd</i>	(Optional) Broadcast received
<i>broadcast_trans</i>	(Optional) Broadcast transmitted
<i>unicast_rcvd</i>	(Optional) Unicast received
<i>unicast_trans</i>	(Optional) Unicast transmitted
<i>timeout_discards</i>	(Optional) timeout discards
<i>credit_loss</i>	(Optional) credit loss
<i>link_faliures</i>	(Optional) Link faliures
<i>sync_loss</i>	(Optional) Sync Loss
<i>signal_loss</i>	(Optional) Signal Loss
<i>prm_seq_pro_err</i>	(Optional) primitive sequence protocol errors

<i>inv_trans_err</i>	(Optional) invalid transmission errors
<i>inv_crc</i>	(Optional) Invalid crc
<i>delim_err</i>	(Optional) Delimiter Errors
<i>addr_iden_err</i>	(Optional) Address Identification errors
<i>link_reset_rcvd</i>	(Optional) link reset received
<i>link_reset_trans</i>	(Optional) link reset transmitted
<i>off_seq_err_rcvd</i>	(Optional) Offline sequence error received
<i>off_seq_err_trans</i>	(Optional) Offline sequence Error transmitted
<i>frames_rcvd_short</i>	(Optional) frames received that are shorter than the minimum allowable frame length regardless of the CRC/FCS error
<i>frames_rcvd_long</i>	(Optional) frames received that are longer than the minimum allowable frame length regardless of the CRC/FCS error
<i>txwait</i>	(Optional) TXwait
<i>frames_rcvd_greater</i>	(Optional) frames received with length greater than what was agreed to in FLOGI/PLOGI
<i>frame_rcvd_short_header</i>	(Optional) frames received with length less than the minimum indicated by the frame header
<i>link_reset_resp_rcvd</i>	(Optional) Link reset responses received
<i>link_reset_resp_trans</i>	(Optional) Link reset responses transmitted
<i>non_oper_seq_rcvd</i>	(Optional) Non operational sequence received
<i>non_oper_seq_trans</i>	(Optional) Non operational sequence transmitted
<i>frag_frames_rcvd</i>	(Optional) fragmented frames received
<i>frames_eof_abort</i>	(Optional) frames EOF abort
<i>unknown_class_frames_rcvd</i>	(Optional) unknown class frames received
<i>8b10b_disparity_err</i>	(Optional) 8b10b disparity errors
<i>frames_discard</i>	(Optional) frames discard
<i>ex_link_param_sw_fab</i>	(Optional) external link parameters switch fabric
<i>in_link_ser_req_faliures</i>	(Optional) internal link serial request faliures
<i>b2b_credits_transmit</i>	(Optional) B2B credits transmit
<i>b2b_credits_receive</i>	(Optional) B2B credits receive

<i>eisl_frames</i>	(Optional) EISL frames
<i>framing_err</i>	(Optional) Framing Error
<i>f8_lip_seq_err_rcvd</i>	(Optional) f8 LIP sequence error received
<i>f8_lip_seq_err_issued</i>	(Optional) f8 LIP sequence error issued
<i>non_f8_lip_seq_err_rcvd</i>	(Optional) non f8 LIP sequence error received
<i>non_f8_lip_seq_err_issued</i>	(Optional) non f8 LIP sequence error issued
<i>fec_corrected</i>	(Optional) fec corrected blocks
<i>fec_uncorrected</i>	(Optional) fec uncorrected blocks

Command Mode

- /exec

show interface counters details

```
show interface <ifid_ctr_det> counters details [ __readonly__ TABLE_interface <interface> [ <fcoe_in_pkts>
] [ <fcoe_in_octets> ] [ <fcoe_out_pkts> ] [ <fcoe_out_octets> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr_det</i>	Enter interface type and number in module/slot format
counters	Show interface counters
details	Show interface counters in detail
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets

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_runs> ] [ <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
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
<u>__readonly__</u>	(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_runs</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 <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 snmp

```
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	Show SNMP MIB values
<i>__readonly__</i>	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
<i>interface_rx</i>	(Optional) Interface index rx
<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_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
TABLE_tx_counters	(Optional) show Tx counters
<i>interface_tx</i>	(Optional) Interface index tx
<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_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

```
show interface counters snmp [ 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
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
TABLE_rx_counters	(Optional) show Rx counters
<i>interface_rx</i>	(Optional) Interface index
<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_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
TABLE_tx_counters	(Optional) show Tx counters
<i>interface_tx</i>	(Optional) Interface index
<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_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 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 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 table

```
show interface counters table [ __readonly__ { TABLE_counters <interface> <desc> <eth_load_intvl>
<eth_inrate_mbps> <eth_inrate_pcmt> <eth_outrate_mbps> <eth_outrate_pcmt> } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
table	format counters in a table
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_counters</i>	(Optional) Counters table
<i>interface</i>	(Optional) Interface
<i>desc</i>	(Optional) Interface description
<i>eth_load_intvl</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate_mbps</i>	(Optional) interval 1 input rate mbps
<i>eth_inrate_pcmt</i>	(Optional) interval 1 input rate in %
<i>eth_outrate_mbps</i>	(Optional) interval 1 output rate mbps
<i>eth_outrate_pcmt</i>	(Optional) interval 1 output rate in %

Command Mode

- /exec

show interface counters table verbose

```
show interface counters table verbose [ __readonly__ { TABLE_Err_verbose <interface> <overrun> <underrun>
<Etype_Drop> <Proto_Drop> <If_Down_Drop> <RX_discard> <TX_discard> <CRC> <RX_Err> <TX_Err>
} ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
table	format counters in a table
verbose	show errors counts after counters
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_Err_verbose</i>	(Optional) verbose errors table
<i>interface</i>	(Optional) Interface
<i>overrun</i>	(Optional) overrun
<i>underrun</i>	(Optional) underruns
<i>Etype_Drop</i>	(Optional) bad ether type drop
<i>Proto_Drop</i>	(Optional) bad protocol drops
<i>If_Down_Drop</i>	(Optional) Input if-down drops
<i>RX_discard</i>	(Optional) discards
<i>TX_discard</i>	(Optional) output discard
<i>CRC</i>	(Optional) CRC
<i>RX_Err</i>	(Optional) input errors
<i>TX_Err</i>	(Optional) output errors

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
TABLE_interface	(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 dampening

```
show interface dampening [ __readonly__ { [ TABLE_vrf_dampen <vrf> [ TABLE_interface_dampen
<interface> <Flaps> <Penalty> <Supp> <ReuseTm> <HalfL> <ReuseV> <SuppV> <MaxSTm> <MaxP>
<Restart> ] ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
dampening	Show interface dampening info
__readonly__	(Optional) Read Only
TABLE_vrf_dampen	(Optional) show interface vrf dampening
vrf	(Optional) Vrf membership
TABLE_interface_dampen	(Optional) show interface dampening
interface	(Optional) Interface index
Flaps	(Optional) Number of times that an interface has flapped
Penalty	(Optional) Accumulated penalty
Supp	(Optional) Indicates if the interface is dampened
ReuseTm	(Optional) Reuse timer
HalfL	(Optional) Half-life counter
ReuseV	(Optional) Reuse threshold timer
SuppV	(Optional) Suppress threshold
MaxSTm	(Optional) Maximum suppress
MaxP	(Optional) Maximum penalty
Restart	(Optional) Restart timer

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
<i>__readonly__</i>	(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 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 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 <ifid_desc1> description [__readonly__ TABLE_interface <interface_fc> [<desc_fc>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_desc1</i>	Enter interface type and number in module/slot format
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface_fc</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>desc_fc</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 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
__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_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
__readonly__	(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 <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 detail-counters

```
show interface detail-counters [ __readonly__ [ { TABLE_counters <sfp> <in_frames> <in_bytes>
<class_2_frames> <class_2_in_bytes> <class_2_in_discards> <class_2_in_f_bsy_frames>
<class_2_in_f_rgt_frames> <class_2_in_port_reject_frames> <class_3_frames> <class_3_bytes_rcvd>
<class_f_frames> <class_f_bytes_rcvd> <class_f_in_discards> <class_f_errors_rcvd> <class_f_out_discards>
<class_f_errors_trans> <out_frames> <out_bytes> <class_2_out_frames> <class_2_bytes_trans>
<class_3_out_frames> <class_3_bytes_trans> <class_3_out_discards> <class_f_out_frames>
<class_f_bytes_trans> <class_f_discards> <muticast_rcvd> <multicast_trans> <broadcast_rcvd>
<broadcast_trans> <unicast_rcvd> <unicast_trans> <timeout_discards> <credit_loss> <link_faliures>
<sync_loss> <signal_loss> <prm_seq_pro_err> <inv_trans_err> <inv_crc> <delim_err> <addr_iden_err>
<link_reset_rcvd> <link_reset_trans> <off_seq_err_rcvd> <off_seq_err_trans> <frames_rcvd_short>
<frames_rcvd_long> <txwait> <frames_rcvd_greater> <frame_rcvd_short_header> <link_reset_resp_rcvd>
<link_reset_resp_trans> <non_oper_seq_rcvd> <non_oper_seq_trans> <frag_frames_rcvd> <frames_eof_abort>
<unknown_class_frames_rcvd> <8b10b_disparity_err> <frames_discard> <ex_link_param_sw_fab> [
<in_link_ser_req_faliures> ] <b2b_credits_transmit> <b2b_credits_receive> <eisl_frames> <framing_err>
<f8_lip_seq_err_rcvd> <f8_lip_seq_err_issued> <non_f8_lip_seq_err_rcvd> <non_f8_lip_seq_err_issued>
[ <fec_corrected> ] [ <fec_uncorrected> ] } ] [ { TABLE_interface <interface> [ <fcoe_in_pkts> ] [
<fcoe_in_octets> ] [ <fcoe_out_pkts> ] [ <fcoe_out_octets> ] } ] ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
detail-counters	Show interface counters in detail
<i>__readonly__</i>	(Optional)
<i>TABLE_counters</i>	(Optional) show interface counters
<i>sfp</i>	(Optional) SFP
<i>in_frames</i>	(Optional) in frames
<i>in_bytes</i>	(Optional) in bytes
<i>class_2_frames</i>	(Optional) Class 2 frames
<i>class_2_in_bytes</i>	(Optional) Class 2 bytes received
<i>class_2_in_discards</i>	(Optional) Class 2 discards received
<i>class_2_in_f_bsy_frames</i>	(Optional) Class 2 F_BSY frames received
<i>class_2_in_f_rgt_frames</i>	(Optional) Class 2 F_RGT frames
<i>class_2_in_port_reject_frames</i>	(Optional) Class 2 port reject frames
<i>class_3_frames</i>	(Optional) Class 3 frames
<i>class_3_bytes_rcvd</i>	(Optional) Class 3 bytes received

<i>class_f_frames</i>	(Optional) Class f frames
<i>class_f_bytes_rcvd</i>	(Optional) Class F bytes received
<i>class_f_in_discards</i>	(Optional) Class F in discards
<i>class_f_errors_rcvd</i>	(Optional) Class F errors received
<i>class_f_out_discards</i>	(Optional) Class F out discards
<i>class_f_errors_trans</i>	(Optional) Class F errors transmitted
<i>out_frames</i>	(Optional) Out frames
<i>out_bytes</i>	(Optional) Out bytes
<i>class_2_out_frames</i>	(Optional) Class 2 frames transmitted
<i>class_2_bytes_trans</i>	(Optional) Class 2 bytes transmitted
<i>class_3_out_frames</i>	(Optional) Class 3 frames transmitted
<i>class_3_bytes_trans</i>	(Optional) Class 3 bytes transmitted
<i>class_3_out_discards</i>	(Optional) Class 3 out discards
<i>class_f_out_frames</i>	(Optional) Class F out frames
<i>class_f_bytes_trans</i>	(Optional) Class F bytes transmitted
<i>class_f_discards</i>	(Optional) Class F discards
<i>multicast_rcvd</i>	(Optional) Multicast received
<i>multicast_trans</i>	(Optional) Multicast transmitted
<i>broadcast_rcvd</i>	(Optional) Broadcast received
<i>broadcast_trans</i>	(Optional) Broadcast transmitted
<i>unicast_rcvd</i>	(Optional) Unicast received
<i>unicast_trans</i>	(Optional) Unicast transmitted
<i>timeout_discards</i>	(Optional) timeout discards
<i>credit_loss</i>	(Optional) credit loss
<i>link_faliures</i>	(Optional) Link faliures
<i>sync_loss</i>	(Optional) Sync Loss
<i>signal_loss</i>	(Optional) Signal Loss
<i>prm_seq_pro_err</i>	(Optional) primitive sequence protocol errors
<i>inv_trans_err</i>	(Optional) invaid transmission errors

<i>inv_crc</i>	(Optional) Invalid crc
<i>delim_err</i>	(Optional) Delimiter Errors
<i>addr_iden_err</i>	(Optional) Address Identification errors
<i>link_reset_rcvd</i>	(Optional) link reset received
<i>link_reset_trans</i>	(Optional) link reset transmitted
<i>off_seq_err_rcvd</i>	(Optional) Offline sequence error received
<i>off_seq_err_trans</i>	(Optional) Offline sequence Error transmitted
<i>frames_rcvd_short</i>	(Optional) frames received that are shorter than the minimum allowable frame length regardless of the CRC/FCS error
<i>frames_rcvd_long</i>	(Optional) frames received that are longer than the minimum allowable frame length regardless of the CRC/FCS error
<i>txwait</i>	(Optional) TXwait
<i>frames_rcvd_greater</i>	(Optional) frames received with length greater than what was agreed to in FLOGI/PLOGI
<i>frame_rcvd_short_header</i>	(Optional) frames received with length less than the minimum indicated by the frame header
<i>link_reset_resp_rcvd</i>	(Optional) Link reset responses received
<i>link_reset_resp_trans</i>	(Optional) Link reset responses transmitted
<i>non_oper_seq_rcvd</i>	(Optional) Non operational sequence received
<i>non_oper_seq_trans</i>	(Optional) Non operational sequence transmitted
<i>frag_frames_rcvd</i>	(Optional) fragmented frames received
<i>frames_eof_abort</i>	(Optional) frames EOF abort
<i>unknown_class_frames_rcvd</i>	(Optional) unknown class frames received
<i>8b10b_disparity_err</i>	(Optional) 8b10b disparity errors
<i>frames_discard</i>	(Optional) frames discard
<i>ex_link_param_sw_fab</i>	(Optional) external link parameters switch fabric
<i>in_link_ser_req_faliures</i>	(Optional) internal link serial request faliures
<i>b2b_credits_transmit</i>	(Optional) B2B credits transmit
<i>b2b_credits_receive</i>	(Optional) B2B credits receive
<i>eisl_frames</i>	(Optional) EISL frames

<i>framing_err</i>	(Optional) Framing Error
<i>f8_lip_seq_err_rcvd</i>	(Optional) f8 LIP sequence error received
<i>f8_lip_seq_err_issued</i>	(Optional) f8 LIP sequence error issued
<i>non_f8_lip_seq_err_rcvd</i>	(Optional) non f8 LIP sequence error received
<i>non_f8_lip_seq_err_issued</i>	(Optional) non f8 LIP sequence error issued
<i>fec_corrected</i>	(Optional) fec corrected blocks
<i>fec_uncorrected</i>	(Optional) fec uncorrected blocks
TABLE_interface	(Optional) interface
<i>interface</i>	(Optional) interface
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets

Command Mode

- /exec

show interface eltm lif-info

show interface eltm lif-info

Syntax Description

show	Show running system information
eltm	Show ELTM information for interfaces
interface	Interface
lif-info	Show ELTM LIF information for interfaces

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
<i>TABLE_interface</i>	(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 fec

```
show interface fec [ __readonly__ TABLE_interface <interface> [ <ifindex-hex> ] [ <admin_port_fec> ] [ <oper_port_fec> ] [ <state> ] [ <speed> ] [ <type> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
fec	Show interface fec list
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>ifindex-hex</i>	(Optional) If Index in Hex
<i>admin_port_fec</i>	(Optional) Admin port fec state
<i>oper_port_fec</i>	(Optional) Oper port fec state
<i>state</i>	(Optional) Interface state
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

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 hardware-mappings

show interface hardware-mappings [json]

Syntax Description

show	Show running system information
interface	Interface
hardware-mappings	Show hardware port number and unit information for interfaces
json	(Optional) display the output in json format

Command Mode

- /exec

show interface mac-address

```
show interface <ifid_macaddr> mac-address [ __readonly__ TABLE_interface <interface> <address>
<bia_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
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>address</i>	(Optional) MAC Address
<i>bia_address</i>	(Optional) Burn-In MAC Address

Command Mode

- /exec

show interface mac-address

show interface mac-address [*__readonly__* *TABLE_interface* <interface> <address> <bia_address>]

Syntax Description

<i>show</i>	Show running system information
<i>interface</i>	Show interface status and information
<i>mac-address</i>	Show interface MAC address
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_interface</i>	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>address</i>	(Optional) MAC Address
<i>bia_address</i>	(Optional) Burn-In 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>
] [ <rx_ppp_cos_1> ] [ <rx_ppp_cos_2> ] [ <rx_ppp_cos_3> ] [ <rx_ppp_cos_4> ] [ <rx_ppp_cos_5> ] [
<rx_ppp_cos_6> ] [ <rx_ppp_cos_7> ] [ <tx_ppp_cos_0> ] [ <tx_ppp_cos_1> ] [ <tx_ppp_cos_2> ] [
<tx_ppp_cos_3> ] [ <tx_ppp_cos_4> ] [ <tx_ppp_cos_5> ] [ <tx_ppp_cos_6> ] [ <tx_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
__readonly__	(Optional) Read Only
start	(Optional) Start
TABLE_interface_pruning1	(Optional) Interface pruning information in table format
if_index1	(Optional) Trunk
rx_join	(Optional) Vlans pruned for lack of request by neighbor
TABLE_interface_pruning2	(Optional) Interface pruning information in table format
if_index2	(Optional) Trunk
cur_join	(Optional) Vlan traffic requested of neighbor

Command Mode

- /exec

show interface snmp-ifindex

```
show interface snmp-ifindex [ __readonly__ TABLE_interface <interface> <snmp-ifindex> [ <ifindex-hex> ] ]
```

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>ifindex-hex</i>	(Optional) If Index in Hex
<i>snmp-ifindex</i>	(Optional) If Index in Dec

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
<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 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
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>if_index</i>	(Optional) Interface
<i>admin-state</i>	(Optional)
<i>line-proto</i>	(Optional)

Command Mode

- /exec

show interface status

```
show interface status [ down | inactive | module <module> | up | auto-column ] [ __readonly__ TABLE_interface
<interface> [ <name> ] [ <state> ] [ <state_san> ] [ <state_rsn> ] [ <vlan> ] [ <duplex> ] [ <speed> ] [ <type>
] [ <admin_mode> ] [ <vsan> ] [ <bind_info> ] [ <bind_type> ] [ <bind_mac> ] [ <oper_speed> ] ]
```

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>state_san</i>	(Optional) SAN Port State
<i>vlan</i>	(Optional) Vlan
<i>vsan</i>	(Optional) Vsan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type
<i>state_rsn</i>	(Optional) Port State Reason
<i>bind_info</i>	(Optional) bind interface
<i>bind_type</i>	(Optional) bind type
<i>bind_mac</i>	(Optional) bind mac

<i>oper_speed</i>	(Optional) speed
<i>admin_mode</i>	(Optional) admin mode

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
<code>ifid_status</code>	Enter interface type and number in module/slot format
<code>status</code>	Show interface line status
<code>__readonly__</code>	(Optional) Read Only
<code>interface</code>	(Optional) Interface index
<code>TABLE_interface</code>	(Optional) show interface
<code>name</code>	(Optional) Name
<code>state</code>	(Optional) Interface state
<code>vlan</code>	(Optional) Vlan
<code>duplex</code>	(Optional) Duplex
<code>speed</code>	(Optional) Speed
<code>type</code>	(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 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
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-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
<u>__readonly__</u>	(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 switchport

```
show interface switchport [ __readonly__ TABLE_interface <interface> <switchport> [ <switchport_monitor>
] [ <switchport_isolated> ] [ <switchport_block_multicast> ] [ <switchport_block_unicast> ] [ <mac_learning>
] [ <oper_mode> ] [ <access_vlan> ] [ <access_vlan_name> ] [ <native_vlan> ] [ <native_vlan_name> ] [
<trunk_vlans> ] [ <fabricpath_topologies> ] [ <pruning_vlans> ] [ <voice_vlan> ] [ <voice_vlan_name> ] [
<extended_trust> ] [ <extended_trust_name> ] [ <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>TABLE_interface</i>	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>switchport</i>	(Optional) Switchport enabled
<i>switchport_monitor</i>	(Optional) Switchport monitor enabled
<i>switchport_isolated</i>	(Optional) Switchport isolated enabled
<i>mac_learning</i>	(Optional) Mac learning enabled/disabled
<i>switchport_block_multicast</i>	(Optional) Switchport monitor enabled
<i>switchport_block_unicast</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>voice_vlan</i>	(Optional) Voice VLAN

<i>voice_vlan_name</i>	(Optional) Voice VLAN name
<i>extended_trust</i>	(Optional) Extended Trust
<i>extended_trust_name</i>	(Optional) Extended Trust name
<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_multicast> ] [
<switchport_block_unicast> ] [ <oper_mode> ] [ <access_vlan> ] [ <access_vlan_name> ] [ <native_vlan>
] [ <native_vlan_name> ] [ <trunk_vlans> ] [ <fabricpath_topologies> ] [ <pruning_vlans> ] [ <voice_vlan>
] [ <voice_vlan_name> ] [ <extended_trust> ] [ <extended_trust_name> ] [ <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
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<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_multicast</i>	(Optional) Switchport monitor enabled
<i>switchport_block_unicast</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>voice_vlan</i>	(Optional) Voice VLAN

<i>voice_vlan_name</i>	(Optional) Voice VLAN name
<i>extended_trust</i>	(Optional) Extended Trust
<i>extended_trust_name</i>	(Optional) Extended Trust name
<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 backup

```
show interface switchport backup [ detail ] [ __readonly__ { TABLE_pair <ai_name> <bi_name> <ai_state>
<bi_state> <ai_prefer> <bi_prefer> <preempt_mode> <delay_value> <delay_default> <delay_scheduled>
<mcast_fast> <ai_bw> <ai_bw_name> <bi_bw> <bi_bw_name> <mmu_primary> } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
switchport	Show interface switchport information
backup	Show interface backup
detail	(Optional) Backup interface info in detail
__readonly__	(Optional) Read Only
TABLE_pair	(Optional) Show interface backup
ai_name	(Optional) Active Interface name
bi_name	(Optional) Backup Interface name
ai_state	(Optional) Active Interface state
bi_state	(Optional) Backup Interface state
ai_prefer	(Optional) Active Interface prefer VLANs
bi_prefer	(Optional) Backup Interface prefer VLANs
preempt_mode	(Optional) Preempt mode
delay_value	(Optional) Preempt delay
delay_default	(Optional) Preempt delay value is default
delay_scheduled	(Optional) Preemption has been scheduled
mcast_fast	(Optional) Multicast Fast-Convergence
ai_bw	(Optional) Active Interface bandwidth
ai_bw_name	(Optional) Active Interface name for bandwidth
bi_bw	(Optional) Backup Interface bandwidth
bi_bw_name	(Optional) Backup Interface name for bandwidth
mmu_primary	(Optional) MAC Move Update primary VLAN

Command Mode

- /exec

show interface transceiver

```
show interface transceiver [ calibrations | details ] [ __readonly__ TABLE_interface <interface> [ <sf> ] [
<qsf> ] [ <type> ] [ <name> ] [ <partnum> ] [ <rev> ] [ <serialnum> ] [ <nom_bitrate> ] [ <len_9>
] [ <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_type> ] [ <tx_len> ] [ <tx_medium> ] [ <tx_speeds> ] [ <tx_range> ] [ <cable_type> ] [ <ciscoid> ] [
<ciscoid_1> ] [ <cisco_part_number> ] [ <cisco_product_id> ] [ <cisco_vendor_id> ] [ <cisco_ext_id> ] [
<info_not_available> ] [ <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
transceiver	Show interface transceiver information

<i>calibrations</i>	(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>qsfp_or_cfp</i>	(Optional) qsfp_or_cfp
<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_type</i>	(Optional) FC Transmitter type
<i>tx_len</i>	(Optional) FC Transmitter length
<i>tx_medium</i>	(Optional) FC Transmitter medium
<i>tx_speeds</i>	(Optional) Transmission speeds

<i>tx_range</i>	(Optional) Transmission range
<i>cable_type</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>cisco_ext_id</i>	(Optional) Cisco extended ID
<i>info_not_available</i>	(Optional) No info available for this transceiver
<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_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_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_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_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_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_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

```
show interface <ifid_trns_fc> transceiver [ calibrations | details ] [ __readonly__ TABLE_interface
<interface_fc> [ <sfp_fc> ] [ <type_fc> ] [ <name_fc> ] [ <partnum_fc> ] [ <rev_fc> ] [ <serialnum_fc> ] [
<cisco_partnum_fc> ] [ <cisco_pid_fc> ] [ <tx_type_fc> ] [ <tx_len_fc> ] [ <tx_medium_fc> ] [ <tx_speeds_fc> ] [
] [ <nom_bitrate_fc> ] [ <len_9_fc> ] [ <len_50_fc> ] [ <len_625_fc> ] [ <len_50_OM3_fc> ] [
<cisco_ext_id_fc> ] [ <txcvr_type_fc> ] [ <connector_type_fc> ] [ <bit_encoding_fc> ] [ <protocol_type_fc> ] [
] [ <10gbe_code_fc> ] [ <fiber_type_byte0_fc> ] [ <fiber_type_byte1_fc> ] [ <tx_range_fc> ] [
<temp_slope_fc> ] [ <temp_offset_fc> ] [ <volt_slope_fc> ] [ <volt_offset_fc> ] [ <curr_slope_fc> ] [
<curr_offset_fc> ] [ <tx_pwr_slope_fc> ] [ <tx_pwr_offset_fc> ] [ <rx_pwr_4_fc> ] [ <rx_pwr_3_fc> ] [
<rx_pwr_2_fc> ] [ <rx_pwr_1_fc> ] [ <rx_pwr_0_fc> ] [ <temperature_fc> ] [ <temp_flag_fc> ] [
<temp_alarm_hi_fc> ] [ <temp_alarm_lo_fc> ] [ <temp_warn_hi_fc> ] [ <temp_warn_lo_fc> ] [ <voltage_fc> ] [
] [ <volt_flag_fc> ] [ <volt_alarm_hi_fc> ] [ <volt_alarm_lo_fc> ] [ <volt_warn_hi_fc> ] [ <volt_warn_lo_fc> ] [
] [ <current_fc> ] [ <current_flag_fc> ] [ <current_alarm_hi_fc> ] [ <current_alarm_lo_fc> ] [
<current_warn_hi_fc> ] [ <current_warn_lo_fc> ] [ <tx_pwr_fc> ] [ <tx_pwr_flag_fc> ] [ <tx_pwr_alarm_hi_fc> ] [
] [ <tx_pwr_alarm_lo_fc> ] [ <tx_pwr_warn_hi_fc> ] [ <tx_pwr_warn_lo_fc> ] [ <rx_pwr_fc> ] [
<rx_pwr_flag_fc> ] [ <rx_pwr_alarm_hi_fc> ] [ <rx_pwr_alarm_lo_fc> ] [ <rx_pwr_warn_hi_fc> ] [
<rx_pwr_warn_lo_fc> ] [ <xmit_faults_fc> ] [ <sfp_calibration> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_trns_fc</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
__readonly__	(Optional) Read Only
<i>interface_fc</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp_fc</i>	(Optional) sfp
<i>type_fc</i>	(Optional) type
<i>name_fc</i>	(Optional) Name
<i>partnum_fc</i>	(Optional) part number
<i>rev_fc</i>	(Optional) revision
<i>serialnum_fc</i>	(Optional) serial number
<i>cisco_partnum_fc</i>	(Optional) Cisco part number
<i>cisco_pid_fc</i>	(Optional) Cisco PID

<i>tx_type_fc</i>	(Optional) FC Transmitter type
<i>tx_len_fc</i>	(Optional) FC Transmitter length
<i>tx_medium_fc</i>	(Optional) FC Transmitter medium
<i>tx_speeds_fc</i>	(Optional) Transmission speeds
<i>nom_bitrate_fc</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_9_fc</i>	(Optional) Link length supported for 9/125um fiber
<i>len_50_fc</i>	(Optional) Link length supported for 50/125um fiber
<i>len_625_fc</i>	(Optional) Link length supported for 62.5/125um fiber
<i>len_50_OM3_fc</i>	(Optional) Link length supported for 50/125um fiber in m
<i>cisco_ext_id_fc</i>	(Optional) Cisco extended ID
<i>txcvr_type_fc</i>	(Optional) Transceiver type
<i>connector_type_fc</i>	(Optional) Connector type
<i>bit_encoding_fc</i>	(Optional) Bit encoding
<i>protocol_type_fc</i>	(Optional) Protocol type
<i>10gbe_code_fc</i>	(Optional) 10GbE code byte
<i>fiber_type_byte0_fc</i>	(Optional) Fiber Type Byte 0
<i>fiber_type_byte1_fc</i>	(Optional) Fiber Type Byte 1
<i>tx_range_fc</i>	(Optional) Transmission Range
<i>temp_slope_fc</i>	(Optional) Temperature slope
<i>temp_offset_fc</i>	(Optional) Temperature offset
<i>volt_slope_fc</i>	(Optional) Voltage slope
<i>volt_offset_fc</i>	(Optional) Voltage offset
<i>curr_slope_fc</i>	(Optional) Current slope
<i>curr_offset_fc</i>	(Optional) Current offset
<i>tx_pwr_slope_fc</i>	(Optional) Tx power slope
<i>tx_pwr_offset_fc</i>	(Optional) Tx power offset
<i>rx_pwr_4_fc</i>	(Optional) Rx power 4
<i>rx_pwr_3_fc</i>	(Optional) Rx power 3
<i>rx_pwr_2_fc</i>	(Optional) Rx power 2

<i>rx_pwr_1_fc</i>	(Optional) Rx power 1
<i>rx_pwr_0_fc</i>	(Optional) Rx power 0
<i>temperature_fc</i>	(Optional) Temperature
<i>temp_flag_fc</i>	(Optional) Temperature Flag
<i>temp_alarm_hi_fc</i>	(Optional) Temperature Alarm High
<i>temp_alarm_lo_fc</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi_fc</i>	(Optional) Temperature Warning High
<i>temp_warn_lo_fc</i>	(Optional) Temperature Warning Low
<i>voltage_fc</i>	(Optional) Voltage
<i>volt_flag_fc</i>	(Optional) Voltage Flag
<i>volt_alarm_hi_fc</i>	(Optional) Voltage Alarm High
<i>volt_alarm_lo_fc</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi_fc</i>	(Optional) Voltage Warning High
<i>volt_warn_lo_fc</i>	(Optional) Voltage Warning Low
<i>current_fc</i>	(Optional) Current
<i>current_flag_fc</i>	(Optional) Current Flag
<i>current_alarm_hi_fc</i>	(Optional) Current Alarm High
<i>current_alarm_lo_fc</i>	(Optional) Current Alarm Low
<i>current_warn_hi_fc</i>	(Optional) Current Warning High
<i>current_warn_lo_fc</i>	(Optional) Current Warning Low
<i>tx_pwr_fc</i>	(Optional) Tx Power
<i>tx_pwr_flag_fc</i>	(Optional) Tx Power Flag
<i>tx_pwr_alarm_hi_fc</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alarm_lo_fc</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi_fc</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo_fc</i>	(Optional) Tx Power Warning Low
<i>rx_pwr_fc</i>	(Optional) Rx Power
<i>rx_pwr_flag_fc</i>	(Optional) Rx Power Flag
<i>rx_pwr_alarm_hi_fc</i>	(Optional) Rx Power Alarm High

<i>rx_pwr_alrm_lo_fc</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi_fc</i>	(Optional) Rx Power Warning High
<i>rx_pwr_warn_lo_fc</i>	(Optional) Rx Power Warning Low
<i>xmit_faults_fc</i>	(Optional) Transmit Fault Count
<i>sfp_calibration</i>	(Optional) Checking whether sfp is internally calibrated

Command Mode

- /exec

show interface transceiver

```

show interface <ifid_transceiver> transceiver [ calibrations | details | sprom ] [ __readonly__ TABLE_interface
<interface> [ <sfp> ] [ <qsfm_or_cfp> ] [ <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> ] [ <cable_type> ] [ <ciscoid> ] [ <ciscoid_1> ] [
<cisco_part_number> ] [ <cisco_product_id> ] [ <cisco_vendor_id> ] [ <firmware_version> ] [ <identifier>
] [ <ext_identifier> ] [ <connector> ] [ <infiniband_compliance_code> ] [ <sonet_compliance_code> ] [
<gigabit_ethernet_compliance_code> ] [ <fibre_chan_link_length> ] [ <fibre_chan_trans_technology> ] [
<fibre_chan_trans_tech_reserved> ] [ <fibre_chan_transmission_media> ] [ <fibre_chan_speed> ] [ <encoding>
] [ <br_nominal> ] [ <reserved1> ] [ <length_smf> ] [ <length_om5> ] [ <length_om4> ] [ <length_om3> ]
[ <length_om2> ] [ <length_om1> ] [ <length_9u_1> ] [ <length_9u_2> ] [ <length_50u> ] [ <length_60u>
] [ <length_copper> ] [ <reserved3> ] [ <wave_length> ] [ <wave_len_tolerance> ] [ <vendor_oui> ] [
<vendor_part_no> ] [ <vendor_revision> ] [ <reserved4> ] [ <check_code_id> ] [ <options> ] [ <br_max> ]
[ <br_min> ] [ <vendor_serial_no> ] [ <data_code> ] [ <diagnostic_monitoring_type> ] [ <enhanced_options>
] [ <sff8472compliance> ] [ <check_code_ext> ] [ <vendor_specific_data_id_data> ] [ <date_code> ] [
<clei_code> ] [ <power_class> ] [ <max_power> ] [ <cable_attenuation> ] [ <near_end_lanes> ] [
<far_end_lanes> ] [ <media_interface> ] [ <adv_code> ] [ <host_elt_intf_code> ] [ <med_intf_adv_code> ]
[ <host_lane_count> ] [ <med_lane_count> ] [ <max_mod_temp> ] [ <min_mod_temp> ] [ <min_op_volt>
] [ <info_not_available> ] [ <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> ] [

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<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
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>qsfp_or_cfp</i>	(Optional) qsfp_or_cfp
<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>cable_type</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>firmware_version</i>	(Optional) Firmware version
<i>identifier</i>	(Optional) SFP Identifier
<i>ext_identifier</i>	(Optional) SFP Ext Identifier
<i>connector</i>	(Optional) SFP connector
<i>infiniband_compliance_code</i>	(Optional) SFP Infiniband Compliance Code
<i>sonet_compliance_code</i>	(Optional) Sonet Compliance Code
<i>gigabit_ethernet_compliance_code</i>	(Optional) Gigabit Ethernet Compliance Code
<i>fibre_chan_link_length</i>	(Optional) Fibre Chan Link Length
<i>fibre_chan_trans_technology</i>	(Optional) Fibre Chan Trans Technology
<i>fibre_chan_trans_tech_reserved</i>	(Optional) Fibre Chan Trans Tech Reserved
<i>fibre_chan_transmission_media</i>	(Optional) Fibre Chan Transmission Media
<i>fibre_chan_speed</i>	(Optional) Fibre Chan Speed
<i>encoding</i>	(Optional) Encoding
<i>br_nominal</i>	(Optional) BR Nominal
<i>reserved1</i>	(Optional) Reserved1
<i>length_smf</i>	(Optional) Length_SMF

<i>length_om5</i>	(Optional) Length_OM5
<i>length_om4</i>	(Optional) Length_OM4
<i>length_om3</i>	(Optional) Length_OM3
<i>length_om2</i>	(Optional) Length_OM2
<i>length_om1</i>	(Optional) Length_OM1
<i>length_9u_1</i>	(Optional) Length 9u 1
<i>length_9u_2</i>	(Optional) Length 9u 2
<i>length_50u</i>	(Optional) Length 50u
<i>length_60u</i>	(Optional) Length 60u
<i>length_copper</i>	(Optional) Length Copper
<i>reserved3</i>	(Optional) Reserved3
<i>wave_length</i>	(Optional) Nominal transmitter output wavelength
<i>wave_len_tolerance</i>	(Optional) Wavelength tolerance
<i>vendor_oui</i>	(Optional) Vendor OUI
<i>vendor_part_no</i>	(Optional) Vendor Part No
<i>vendor_revision</i>	(Optional) Vendor Revision
<i>reserved4</i>	(Optional) Reserved4
<i>check_code_id</i>	(Optional) Check Code ID
<i>options</i>	(Optional) Options
<i>br_max</i>	(Optional) BR max
<i>br_min</i>	(Optional) BR min
<i>vendor_serial_no</i>	(Optional) Vendor Serial No
<i>data_code</i>	(Optional) Data code
<i>diagnostic_monitoring_type</i>	(Optional) Diagnostic Monitoring Type
<i>enhanced_options</i>	(Optional) Enhanced Options
<i>sff8472compliance</i>	(Optional) SFF8472Compliance
<i>check_code_ext</i>	(Optional) Check code ext
<i>vendor_specific_data_id_data</i>	(Optional) Vendor Specific Data Id Data
<i>date_code</i>	(Optional) date code and lot code

<i>clei_code</i>	(Optional) 10-character CLEI code
<i>power_class</i>	(Optional) power class
<i>max_power</i>	(Optional) maximum power consumption
<i>cable_attenuation</i>	(Optional) copper cable attenuation
<i>near_end_lanes</i>	(Optional) near end lane information
<i>far_end_lanes</i>	(Optional) far end lane information
<i>media_interface</i>	(Optional) media interface technology
<i>adv_code</i>	(Optional) Module Advertising Code
<i>host_elt_intf_code</i>	(Optional) Module Host Electrical Interfaces Code
<i>med_intf_adv_code</i>	(Optional) Media Interface Advertising Code
<i>host_lane_count</i>	(Optional) Host Lane Count
<i>med_lane_count</i>	(Optional) Media Lane Count
<i>max_mod_temp</i>	(Optional) Maximum Module Temperature
<i>min_mod_temp</i>	(Optional) Minimum Module Temperature
<i>min_op_volt</i>	(Optional) Minimum Operating Voltage
<i>info_not_available</i>	(Optional) Info not available
<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>TABLE_lane</i>	(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_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_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_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 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> ] [ <len_50_OM3> ] [ <ciscoid> ] [ <ciscoid_1> ] [ <info_not_available> ] [ <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_alarm_hi> ] [ <temp_alarm_lo> ]
[ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag> ] [ <volt_alarm_hi> ] [ <volt_alarm_lo> ]
] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag> ] [ <current_alarm_hi> ] [
<current_alarm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [ <tx_pwr_flag> ] [
<tx_pwr_alarm_hi> ] [ <tx_pwr_alarm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ] [ <rx_pwr> ] [
<rx_pwr_flag> ] [ <rx_pwr_alarm_hi> ] [ <rx_pwr_alarm_lo> ] [ <rx_pwr_warn_hi> ] [ <rx_pwr_warn_lo> ]
] [ <xmit_faults> ] [ <snr> ] [ <snr_flag> ] [ <snr_alarm_hi> ] [ <snr_alarm_lo> ] [ <snr_warn_hi> ] [
<snr_warn_lo> ] [ <isi> ] [ <isi_flag> ] [ <isi_alarm_hi> ] [ <isi_alarm_lo> ] [ <isi_warn_hi> ] [ <isi_warn_lo> ]
] [ <pam> ] [ <pam_flag> ] [ <pam_alarm_hi> ] [ <pam_alarm_lo> ] [ <pam_warn_hi> ] [ <pam_warn_lo> ] [
<pre_fec_ber> ] [ <pre_fec_ber_flag> ] [ <pre_fec_ber_alarm_hi> ] [ <pre_fec_ber_alarm_lo> ] [
<pre_fec_ber_warn_hi> ] [ <pre_fec_ber_warn_lo> ] [ <uncorrect_ber> ] [ <uncorrect_ber_flag> ] [
<uncorrect_ber_alarm_hi> ] [ <uncorrect_ber_alarm_lo> ] [ <uncorrect_ber_warn_hi> ] [
<uncorrect_ber_warn_lo> ] [ <tec_current> ] [ <tec_current_flag> ] [ <tec_current_alarm_hi> ] [
<tec_current_alarm_lo> ] [ <tec_current_warn_hi> ] [ <tec_current_warn_lo> ] [ <laser_freq> ] [
<laser_freq_flag> ] [ <laser_freq_alarm_hi> ] [ <laser_freq_alarm_lo> ] [ <laser_freq_warn_hi> ] [
<laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [ <laser_temp_alarm_hi> ] [
<laser_temp_alarm_lo> ] [ <laser_temp_warn_hi> ] [ <laser_temp_warn_lo> ] [ <pre_fec_ber_acc> ] [
<pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alarm_hi> ] [ <pre_fec_ber_acc_alarm_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_alarm_hi> ] [ <pre_fec_ber_min_alarm_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_alarm_hi> ] [ <pre_fec_ber_max_alarm_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_alarm_hi> ]
] [ <pre_fec_ber_cur_alarm_lo> ] [ <pre_fec_ber_cur_warn_hi> ] [ <pre_fec_ber_cur_warn_lo> ] [
<uncorrect_ber_acc> ] [ <uncorrect_ber_acc_flag> ] [ <uncorrect_ber_acc_alarm_hi> ] [
<uncorrect_ber_acc_alarm_lo> ] [ <uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [
<uncorrect_ber_min> ] [ <uncorrect_ber_min_flag> ] [ <uncorrect_ber_min_alarm_hi> ] [
<uncorrect_ber_min_alarm_lo> ] [ <uncorrect_ber_min_warn_hi> ] [ <uncorrect_ber_min_warn_lo> ] [
<uncorrect_ber_max> ] [ <uncorrect_ber_max_flag> ] [ <uncorrect_ber_max_alarm_hi> ] [
<uncorrect_ber_max_alarm_lo> ] [ <uncorrect_ber_max_warn_hi> ] [ <uncorrect_ber_max_warn_lo> ] [
<uncorrect_ber_cur> ] [ <uncorrect_ber_cur_flag> ] [ <uncorrect_ber_cur_alarm_hi> ] [
<uncorrect_ber_cur_alarm_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
<i>TABLE_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>len_50_OM3</i>	(Optional) Link length supported for 50/125um fiber in m
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>info_not_available</i>	(Optional) Error case if sfp info not available
<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_alrm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alrm_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_alrm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alrm_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_alrm_hi</i>	(Optional) Current Alarm High
<i>current_alrm_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_alrm_hi</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alrm_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_alrm_hi</i>	(Optional) Rx Power Alarm High
<i>rx_pwr_alrm_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_alrm_hi</i>	(Optional) SNR Alarm High
<i>snr_alrm_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_alrm_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_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_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_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 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
<u>__readonly__</u>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>native</i>	(Optional) Native VLAN
<i>status</i>	(Optional) Status
<i>portchannel</i>	(Optional) Port Channel
TABLE_allowed_vlans	(Optional) show allowed vlans
<i>interface</i>	(Optional) Interface index
<i>allowedvlans</i>	(Optional) VLANs allowed and active in management domain
TABLE_errored_vlans	(Optional) show errored vlans
<i>interface</i>	(Optional) Interface index
<i>erroredvlans</i>	(Optional) Errored VLANs
TABLE_stp_forward	(Optional) show STP forwarding VLANs

<i>interface</i>	(Optional) Interface index
<i>stp fwd_vlans</i>	(Optional) STP Forwarding VLANs
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs
<i>interface</i>	(Optional) Interface index
<i>fabricpath_vlans</i>	(Optional) FabricPath VLANs
TABLE_vtp_pruning	(Optional) show VTP pruning 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
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>native</i>	(Optional) Native VLAN
<i>status</i>	(Optional) Status
<i>portchannel</i>	(Optional) Port Channel
TABLE_allowed_vlans	(Optional) show allowed vlans
<i>interface</i>	(Optional) Interface index
<i>allowedvlans</i>	(Optional) VLANs allowed and active in management domain
TABLE_errored_vlans	(Optional) show errored vlans
<i>interface</i>	(Optional) Interface index
<i>erroredvlans</i>	(Optional) Errored VLANs
TABLE_stp_forward	(Optional) show STP forwarding VLANs
<i>interface</i>	(Optional) Interface index
<i>stpfwd_vlans</i>	(Optional) STP Forwarding VLANs
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs
<i>interface</i>	(Optional) Interface index
<i>fabricpath_vlans</i>	(Optional) FabricPath VLANs
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs

<i>interface</i>	(Optional) Interface index
<i>vtppruning_vlans</i>	(Optional) VTP Pruning VLANs

Command Mode

- /exec

show interface trunk vsan

```
show interface <ifid_trnk> trunk vsan [ <vsan_id> ] [ __readonly__ { TABLE_interface_trunk [ <interface>
] [ <oper_state> ] [ <oper_state_reason> ] [ <bundle_str> ] [ TABLE_vsan_info { [ <vsan_num> ] [
<vsan_state> ] [ <vsan_state_reason> ] [ <fcid> } ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_trnk</i>	Enter interface type and number in module/slot format
trunk	Show interface trunk information
vsan	Show per vsan information for trunk
<i>vsan_id</i>	(Optional) Enter vsan range
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface_trunk	(Optional) interface trunk table
<i>interface</i>	(Optional) fc interface
<i>oper_state</i>	(Optional) the status of trunking
<i>oper_state_reason</i>	(Optional) reason for operation state
<i>bundle_str</i>	(Optional) bundle string
TABLE_vsan_info	(Optional) vsan information
<i>vsan_num</i>	(Optional) the vsan ID
<i>vsan_state</i>	(Optional) the ststus of vsan
<i>vsan_state_reason</i>	(Optional) reason for vsan state
<i>fcid</i>	(Optional) FCID

Command Mode

- /exec

show interface trunk vsan

```
show interface trunk vsan [ <vsan_id> ] [ __readonly__ { TABLE_interface_trunk [ <interface> ] [ <oper_state> ] [ <oper_state_reason> ] [ <bundle_str> ] [ TABLE_vsan_info { [ <vsan_num> ] [ <vsan_state> ] [ <vsan_state_reason> ] [ <fcid> ] } } ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
trunk	Show interface trunk information
vsan	Show per vsan information for trunk
<i>vsan_id</i>	(Optional) Enter vsan range
<i>__readonly__</i>	(Optional)
TABLE_interface_trunk	(Optional) interface trunk table
<i>interface</i>	(Optional) fc interface
<i>oper_state</i>	(Optional) the status of trunking
<i>oper_state_reason</i>	(Optional) reason for operation state
<i>bundle_str</i>	(Optional) bundle string
TABLE_vsan_info	(Optional) vsan information
<i>vsan_num</i>	(Optional) the vsan ID
<i>vsan_state</i>	(Optional) the status of vsan
<i>vsan_state_reason</i>	(Optional) reason for vsan state
<i>fcid</i>	(Optional) FCID

Command Mode

- /exec

show interface untagged-cos

```
show interface untagged-cos [ module <mod_num> ] [ __readonly__ TABLE_interface <interface>
<ucos-value> [ <portmode> ] ]
```

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
TABLE_interface	(Optional) show interface
<i>ucos-value</i>	(Optional) COS value
<i>portmode</i>	(Optional) Port mode

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
<code>__readonly__</code>	(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

<i>global_punt_pkt_cnt</i>	(Optional) Global packet punt count
<i>global_punt_byte_cnt</i>	(Optional) Global byte punt count
<i>global_glean_pkt_cnt</i>	(Optional) Global glean packet count
<i>global_glean_byte_cnt</i>	(Optional) Global glean byte count
<i>glean_pkt_cnt</i>	(Optional) Glean packet count
<i>glean_byte_cnt</i>	(Optional) Glean byte count
<i>normal_pkt_cnt</i>	(Optional) Packet count
<i>normal_byte_cnt</i>	(Optional) Byte count
<i>last_updated</i>	(Optional) Last updated
<i>count-static</i>	(Optional) Count static
<i>count-dynamic</i>	(Optional) Count dynamic
<i>count-others</i>	(Optional) Count others
<i>count-throttle</i>	(Optional) Count throttle
<i>count-total</i>	(Optional) Count total
TABLE_afi	(Optional) TABLR afi
<i>afi</i>	(Optional) afi
<i>count</i>	(Optional) count
TABLE_adj	(Optional) Adjacency table
<i>intf-out</i>	(Optional) Interface
<i>phy-intf</i>	(Optional) Physical interface
<i>ip-addr-out</i>	(Optional) IP address
<i>mac</i>	(Optional) MAC address
<i>pref</i>	(Optional) Preference
<i>owner</i>	(Optional) Owner
<i>pkt-count</i>	(Optional) Packet count
<i>byte-count</i>	(Optional) Byte count
<i>is-best</i>	(Optional) Best
<i>is-thrtld</i>	(Optional) Throttled

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
<u>__readonly__</u>	(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> | <unknown> | <incomplete> } ] [ <phy-intf> ] [ <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) Show VRF table
<i>vrf-name-out</i>	(Optional) Show VRF name
<i>cnt-resolved</i>	(Optional) Show total resolved ARP entries
<i>cnt-incomplete</i>	(Optional) Show total incomplete ARP entreis
<i>cnt-thrtld-incomplete</i>	(Optional) Show total incomplete throttled entries
<i>cnt-unknown</i>	(Optional) Show total unknow entris
<i>cnt-total</i>	(Optional) Show total

<i>TABLE_adj</i>	(Optional) Show IP ARP
<i>intf-out</i>	(Optional) Show interface
<i>ip-addr-out</i>	(Optional) Show ip address
<i>time-stamp</i>	(Optional) Show age of adjacency
<i>mac</i>	(Optional) Show mac
<i>unknown</i>	(Optional) Show unknown entry
<i>incomplete</i>	(Optional) Show incomplete entry
<i>phy-intf</i>	(Optional) Show physical interface
<i>flags</i>	(Optional) Show flags

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)
TABLE_ip_arp_anycast_topo_info	(Optional) Show ip arp anycast topo-info
<i>ip_arp_anycat_topo_id</i>	(Optional) Show ARP anycast topo-id
<i>ip_arp_anycast_feature</i>	(Optional) Show ARP anycast feature
<i>ip_arp_anycast_mode</i>	(Optional) Show ARP anycast mode

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) Number of ARP Clients
TABLE_arp_client_list	(Optional) Show ip arp client
<i>arp-cli-uuid</i>	(Optional) Protocol uuid
<i>l2-client-type</i>	(Optional) Client type
<i>client-flg</i>	(Optional) Flags
<i>mts-addr-sap</i>	(Optional) SAP
<i>cli-msg-cnt</i>	(Optional) Client message count
<i>l2-cli-func-name</i>	(Optional) Received function
<i>l2-cli-dbg-func</i>	(Optional) Debug init function
<i>l2-cli-dbg-un-init-func</i>	(Optional) Debug Un-init function

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) Interface
<i>ip_arp_esi_value</i>	(Optional) Values

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> ] [ [ <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) read only
<i>src_mac_valid</i>	(Optional) source ethernet address in header must be same as sender mac address in arp payload
<i>dest_mac_valid</i>	(Optional) destination ethernet address in header must be same as target mac address in arp payload
<i>ip_addr_valid</i>	(Optional) validate the target ip address to filter broadcast/multicast address in arp payload
TABLE_entry	(Optional)
<i>active_vlan_id</i>	(Optional) active vlan id
<i>is_insp_enabled</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>acl_name</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__ <intf_header> [ TABLE_intf <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) number of entries per log buffer
<i>log_rate_entries</i>	(Optional) number of entries into log buffer per sec
<i>log_rate_interval</i>	(Optional) time after which log buffer is updated in sec
<i>log_frame</i>	(Optional) log frames in buffer

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) ip arp inspection vlan id

Command Mode

- /exec

show ip arp inspection vlan

```
show ip arp inspection { vlan <vlan-range> } [ __readonly__ <src_vlan_mac_valid> <dest_vlan_mac_valid>
<ip_vlan_addr_valid> TABLE_vlan <active_vlan_id> <is_insp_enabled> <oper_state> [ <dhcp_logging> ]
[ <acl_name> ] [ <acl_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_vlan_mac_valid</i>	(Optional) validates header source mac address with sender mac address in arp payload
<i>dest_vlan_mac_valid</i>	(Optional) validates header destination mac address with target mac address in arp payload
<i>ip_vlan_addr_valid</i>	(Optional) filters invalid ip addresses like multicast/broadcast in arp requests/responses
TABLE_vlan	(Optional)
<i>active_vlan_id</i>	(Optional) active vlan id
<i>is_insp_enabled</i>	(Optional) ip arp inspection on vlan
<i>oper_state</i>	(Optional) operational on vlan
<i>acl_name</i>	(Optional) arp inspection access list name
<i>acl_logging</i>	(Optional) acl logging options
<i>dhcp_logging</i>	(Optional) ip arp inspection dhcp-binding logging options

Command Mode

- /exec

show ip arp l2 statistics interface

```
show ip arp l2 statistics interface { <interface> | all } [ __readonly__ { TABLE_ip_arp_l2_statistics
<arp-l2-port-ifname> <arp-l2-port-stats-rx-total> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
l2	Display ARP L2 port level info
statistics	Display ARP statistics
interface	ARP interface
<i>interface</i>	ARP interface
all	Display ARP statistics for all interface
__readonly__	(Optional)
TABLE_ip_arp_l2_statistics	(Optional) Show ip arp l2 stats
<i>arp-l2-port-ifname</i>	(Optional) Interface name
<i>arp-l2-port-stats-rx-total</i>	(Optional) L2 port stats rx toal

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-proc-add-l2rib>
<ps-recv-del-l2rib> <ps-proc-del-l2rib> <ps-recv-pc-shut-l2rib> <ps-proc-pc-shut-l2rib>
<ps-recv-remote-upd-l2rib> <ps-proc-remote-upd-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-sec-del>
<ps-del-err-tl-route> <tl-del-err-psro-route> ]
```

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) VRF table
<i>vrf-name-out2</i>	(Optional) VRF name
TABLE_stat	(Optional) Show ip arp multihoming statistics
<i>ps-recv-add-l2rib</i>	(Optional) Received ADD from L2RIB
<i>ps-recv-del-l2rib</i>	(Optional) Received DEL from L2RIB
<i>ps-recv-remote-upd-l2rib</i>	(Optional) Received remote UPD from L2RIB
<i>ps-recv-pc-shut-l2rib</i>	(Optional) Received PC shut from L2RIB
<i>ps-proc-add-l2rib</i>	(Optional) Processed ADD from L2RIB
<i>ps-proc-del-l2rib</i>	(Optional) Processed DEL from L2RIB
<i>ps-proc-remote-upd-l2rib</i>	(Optional) Processed remote UPD from L2RIB
<i>ps-proc-pc-shut-l2rib</i>	(Optional) Processed PC shut from L2RIB

<i>ps-add-err-invalid-flags</i>	(Optional) Multihoming ADD error invalid flag
<i>ps-del-err-invalid-flags</i>	(Optional) Multihoming DEL error invalid flag
<i>ps-add-err-invalid-curr-state</i>	(Optional) Multihoming ADD error invalid current state
<i>ps-del-err-invalid-curr-state</i>	(Optional) Multihoming DEL error invalid current state
<i>ps-del-err-mac-mismatch</i>	(Optional) Peer sync DEL error MAC mismatch
<i>ps-del-err-tl-route</i>	(Optional) Peer sync DEL error second delete
<i>tl-del-err-psro-route</i>	(Optional) True local DEL error deleteing PS RO route
<i>ps-del-err-sec-del</i>	(Optional) Peer sync DEL error second delete

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) Show ip arp offlist vlan-id
<i>vlan-adj-cnt</i>	(Optional) Show ip arp vlan adjacency count
<i>arp-sync-adj-cnt</i>	(Optional) Show arp sync adjacency count
TABLE_arp_vlan_list	(Optional) Show ip arp vlan list
<i>adj-vlan-id</i>	(Optional) Show ip arp adjacency vlan id
<i>off-adj-ip-addr</i>	(Optional) Show arp offlist adjacency ip address
<i>time-stamp</i>	(Optional) Show duration
<i>arp-mac-addr</i>	(Optional) Show mac address
<i>off-adj-flags</i>	(Optional) show offlist adjacency flgs

Command Mode

- /exec

show ip arp open-flow error-statistics

```
show ip arp open-flow error-statistics [ __readonly__ <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_peer_ip_lookup_rec_phy_iod_err>
<arp_ofa_peer_ip_ipv6_rec_phy_iod_err> <arp_ofa_peer_ip_lookup_adj_phy_iod_err>
<arp_ofa_peer_ip_ipv6_adj_phy_iod_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
<i>__readonly__</i>	(Optional)
<i>arp_ofa_total_err_cnt</i>	(Optional) OFA total error count
<i>arp_ofa_dp_adj_err_on_del</i>	(Optional) Controller Deleting DP adjacency error
<i>arp_ofa_cp_mac_mismatch_err_on_del</i>	(Optional) CP adjacency MAC mismatch error while delete
<i>arp_ofa_cp_null_mac_err_on_del</i>	(Optional) CP adjacency NULL mac error while delete
<i>arp_ofa_cp_no_adj_err_on_del_flag</i>	(Optional) No adjacency found while delete
<i>arp_ofa_cp_cp_nh_mismatch_err_on_del</i>	(Optional) CP adjacency NH mismatch error while delete
<i>arp_ofa_cp_adj_del_failure_err</i>	(Optional) Other errors while deleting
<i>arp_ofa_cp_null_mac_err_on_add</i>	(Optional) CP adjacency NULL mac error while Adding
<i>arp_ofa_cp_dp_mac_mismatch_err_on_add</i>	(Optional) DP adjacency present with different mac
<i>arp_ofa_cp_cp_mac_mismatch_err_on_add</i>	(Optional) CP adjacency present with different mac
<i>arp_ofa_cp_added_first_err</i>	(Optional) CP adjacency added first
<i>arp_ofa_dp_overwrite_cp_err</i>	(Optional) Overwriting CP adjacency with DP
<i>arp_ofa_dp_cp_nh_mismatch_err_on_add</i>	(Optional) DP adjacency already present with different NH
<i>arp_ofa_cp_cp_nh_mismatch_err_on_add</i>	(Optional) CP adjacency already present with different NH

<i>arp_ofa_cp_dp_nh_mismatch_err_on_add</i>	(Optional) Overwriting CP adj with DP with different NH
<i>arp_ofa_cp_adj_add_failure_err</i>	(Optional) Other errors while adding
<i>arp_ofa_peer_ip_lookup_rec_phy_iod_err</i>	(Optional) Peer IP lookup for received physical iod
<i>arp_ofa_peer_ip_ipv6_rec_phy_iod_err</i>	(Optional) Peer is IPv6 for received physical iod
<i>arp_ofa_peer_ip_lookup_adj_phy_iod_err</i>	(Optional) Peer IP lookup for adjacency physical iod
<i>arp_ofa_peer_ip_ipv6_adj_phy_iod_err</i>	(Optional) Peer is IPv6 for adjacecny physical iod
<i>arp_ofa_barrier_response_err</i>	(Optional) Barrier responses

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-fbrcport> ] [ <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-skip-refresh-over-core-and-flood-to-server> <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> ] <recv-glean-count> <refresh-req-from-clients> <l2rib-signals> <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) Table Vrf
<i>vrf-name-out1</i>	(Optional) Show VRF name
TABLE_stat	(Optional) Show IP ARP statistics
<i>tx-total</i>	(Optional) Sent: total
<i>tx-req</i>	(Optional) Sent: request
<i>tx-reply</i>	(Optional) Sent: reply

<i>tx-req-l2</i>	(Optional) Sent: request on L2
<i>tx-reply-l2</i>	(Optional) Sent: replay on L2
<i>tx-grat</i>	(Optional) Sent: gratuitous
<i>tx-tunnel</i>	(Optional) Sent: tunnel packet
<i>tx-drop</i>	(Optional) Sent:Dropped packet
<i>tx-svrport</i>	(Optional) Sent from Server Port
<i>tx-fbrport</i>	(Optional) Sent from Fabric Port
<i>tx-fixup-core</i>	(Optional) Sent: fixup core
<i>tx-fixup-server</i>	(Optional) Sent: fixup server
<i>tx-fixup-rarp</i>	(Optional) Sent: fixup rarp
<i>tx-anycast-glean</i>	(Optional) Sent: modified anycast glean
<i>tx-mbuf-fail</i>	(Optional) Sent:MBUF operation failed
<i>tx-ctxt-not-crtd</i>	(Optional) Sent:Context not yet created
<i>tx-bad-ctxt-id</i>	(Optional) Sent:Invalid context
<i>tx-invalid-ifindex</i>	(Optional) Sent:Invalid ifindex
<i>tx-invalid-sip</i>	(Optional) Sent:Invalid SRC IP
<i>tx-invalid-dip</i>	(Optional) Sent:Invalid DEST IP
<i>tx-own-ip</i>	(Optional) Sent:Destination is our own IP
<i>tx-unattached-ip</i>	(Optional) Sent:Unattached IP
<i>tx-adj-create-fail</i>	(Optional) Sent:Adjacency Couldn't be added
<i>tx-null-sip</i>	(Optional) Sent:Null Source IP
<i>tx-null-smac</i>	(Optional) Sent: Null Source MAC
<i>tx-client-enq-fail</i>	(Optional) Sent: Client Enqueue Failed
<i>tx-dest-unreachable-proxy-arp</i>	(Optional) Sent: Dest. not reachable for proxy arp
<i>tx-dest-unreachable-enhanced-proxy</i>	(Optional) Sent:Dest. unreachable for enhanced proxy
<i>tx-dest-l2port-track</i>	(Optional) Sent:Dest. on L2 port being tracked
<i>tx-invalid-local-proxy</i>	(Optional) Sent:Invalid Local proxy arp
<i>tx-invalid-proxy</i>	(Optional) Sent:Invalid proxy arp
<i>tx-vip-not-active</i>	(Optional) Sent:VIP is not active

<i>tx-skip-refresh-over-core-and-flood-to-server</i>	(Optional) ARP refresh skipped over core and sent on server side
<i>rx-total</i>	(Optional) Received: total
<i>rx-req</i>	(Optional) Received: Requests
<i>rx-reply</i>	(Optional) Received: Replies
<i>rx-req-l2</i>	(Optional) Received: Requests on L2
<i>rx-reply-l2</i>	(Optional) Received: Replies on L2
<i>rx-proxy</i>	(Optional) Received: Proxy arp
<i>rx-local-proxy</i>	(Optional) Received: Local-Proxy arp
<i>rx-enhanced-proxy</i>	(Optional) Received: Enhanced Proxy arp
<i>rx-enhanced-proxy-anycast</i>	(Optional) Received: Anycast proxy Proxy arp
<i>rx-enhanced-proxy-l2port-track</i>	(Optional) Received: L2 Port-track Proxy arp
<i>rx-tunnel</i>	(Optional) Received: Tunneled
<i>rx-fastpath</i>	(Optional) Received: Fastpath
<i>rx-snoop</i>	(Optional) Received: Snooped
<i>rx-drop</i>	(Optional) Received: Dropped
<i>rx-srvrport</i>	(Optional) Received: on Server Port
<i>bad-if</i>	(Optional) Appeared on a wrong interface
<i>bad-len</i>	(Optional) Incorrect length
<i>invalid-prot</i>	(Optional) Invalid protocol packet
<i>invalid-hrd-type</i>	(Optional) Invalid Hardware type
<i>invalid-ctxt</i>	(Optional) Invalid context
<i>ctxt-not-crtid</i>	(Optional) Context not yet created
<i>invalid-l2</i>	(Optional) Invalid layer 2 address length
<i>invalid-l3</i>	(Optional) Invalid layer 3 address length
<i>invalid-sip</i>	(Optional) Invalid source IP address
<i>our-sip</i>	(Optional) Source IP address is our own
<i>arp-if-no-mem</i>	(Optional) No mem to create per intf structure
<i>subnet-mismatch</i>	(Optional) Source address mismatch with subnet
<i>dir-bcast</i>	(Optional) Directed broadcast source

<i>invalid-dip</i>	(Optional) Invalid destination IP address
<i>non-local-dst</i>	(Optional) Non-local destination IP address
<i>non-active-fhrp</i>	(Optional) Non-active FHRP dest IP address. Learn and drop
<i>invalid-smac</i>	(Optional) Invalid source MAC address
<i>our-smac</i>	(Optional) Source MAC address is our own
<i>not-init</i>	(Optional) Received before arp initialization
<i>l2-prxy-en</i>	(Optional) L2 packet on proxy-arp-enabled interface
<i>l2-port-untrusted</i>	(Optional) L2 packet on untrusted L2 port
<i>stbby-fhrp-vip</i>	(Optional) Packet with VIP on standby FHRP
<i>grat-prxy-en</i>	(Optional) Grat arp received on proxy-arp-enabled interface
<i>arp-req-ignore</i>	(Optional) Requests came for existing entries
<i>l2-intf</i>	(Optional) Requests came on a L2 interface
<i>l2fm-query-fail</i>	(Optional) L2FM query failed for a L2 Address
<i>tunnel_fail</i>	(Optional) Dropping due to tunneling failures
<i>hsrp-active-vmac</i>	(Optional) Dropping due to HSRP standby receiving HSRP active vmac
<i>rx-intf-down</i>	(Optional) Received Interface Down
<i>recv-glean-count</i>	(Optional) Glean requests recv count
<i>refresh-req-from-clients</i>	(Optional) Refresh requests received from clients
<i>l2rib-signals</i>	(Optional) Signals received from L2rib
<i>adds</i>	(Optional) Adds
<i>dels</i>	(Optional) Deletes
<i>timeouts</i>	(Optional) Timeouts

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> [ <remote-vtep-addr> | <remote-vtep-v6addr> ] ] [
TABLE_summary <remote-count> <local-count> <total-count> ] [ TABLE_stats TABLE_suppressed <total>
<requests> <requests-on-l2> <gratuitous> <gratuitous-on-l2> TABLE_forwarded <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> <local-requests-recv> <local-replies-recv> <gratuitous-recv>
<dropped-recv> <requests-on-l2-recv> <replies-on-l2-recv> <gratuitous-l2-recv> <dropped-l2-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
<u>__readonly__</u>	(Optional)
TABLE_arp-suppression	(Optional) IP ARP suppression-cache
TABLE_entries	(Optional) IP ARP suppression entries
<i>ip-addr</i>	(Optional) IP address
<i>age</i>	(Optional) Age
<i>mac</i>	(Optional) MAC address
<i>vlan</i>	(Optional) vlan id
<i>physical-iod</i>	(Optional) Physical iod
<i>flag</i>	(Optional) Flags

<i>remote-vtep-addr</i>	(Optional) Remote Vtep Address
TABLE_summary	(Optional) IP ARP suppression-cache Summary
<i>remote-count</i>	(Optional) Remote count
<i>local-count</i>	(Optional) Local count
<i>total-count</i>	(Optional) Total count
TABLE_stats	(Optional) Show IP ARP suppression statistics
TABLE_suppressed	(Optional) Suppressed table
<i>total</i>	(Optional) total
<i>requests</i>	(Optional) request
<i>requests-on-l2</i>	(Optional) requests-on-l2
<i>gratuitous</i>	(Optional) gratuitous
<i>gratuitous-on-l2</i>	(Optional) gratuitous-on-l2
TABLE_forwarded	(Optional) Forwarded table
<i>total-sent</i>	(Optional) total
<i>requests-sent</i>	(Optional) Requests sent on L3
<i>replies-sent</i>	(Optional) Replies sent on L3
<i>requests-on-core-sent</i>	(Optional) Request on core port
<i>replies-on-core-sent</i>	(Optional) Reply on core port
<i>dropped-sent</i>	(Optional) Dropped
<i>requests-on-l2-sent</i>	(Optional) Requests on L2
<i>replies-on-l2-sent</i>	(Optional) Replies on L2
<i>requests-on-core-l2-sent</i>	(Optional) Request on core port L2
<i>replies-on-core-l2-sent</i>	(Optional) Reply on core port L2
<i>dropped-l2-sent</i>	(Optional) Dropped on L2
TABLE_received	(Optional) Received
<i>total-recv</i>	(Optional) Total
<i>requests-recv</i>	(Optional) Requests on L3 mode
<i>replies-recv</i>	(Optional) Replies on L3 mode
<i>local-requests-recv</i>	(Optional) Local Request

<i>local-replies-recv</i>	(Optional) Local Responses
<i>gratuitous-recv</i>	(Optional) Gratuitous on L3 mode
<i>dropped-recv</i>	(Optional) Dropped on L3 mode
<i>requests-on-l2-recv</i>	(Optional) Requests on L2 mode
<i>replies-on-l2-recv</i>	(Optional) Replies on L2 mode
<i>gratuitous-l2-recv</i>	(Optional) Gratuitous on L2 mode
<i>dropped-l2-recv</i>	(Optional) Dropped on L2 mode
TABLE_entrystats	(Optional) ARP suppression-cache Local entry statistics
<i>adds</i>	(Optional) Adds
<i>dels</i>	(Optional) Deletes

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> ] [ <ip_arp_suppression_hmm_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) Show ARP suppression topo_id
<i>ip_arp_suppression_mode</i>	(Optional) Show ARP suppression mode
<i>ip_arp_suppression_hmm_mode</i>	(Optional) Show ARP suppression hmm mode

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-mcccm-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 statistics
<i>arp-tun-pkt-rcv-cnt</i>	(Optional) Total tunneled packets received
<i>arp-tun-pkt-rcv-ing-vpc</i>	(Optional) Tunneled packets rx for ingress vPC
<i>arp-tun-pkt-rcv-ing-gpc</i>	(Optional) Tunneled packets rx for ingress GPC
<i>arp-tun-pkt-rcv-ing-orp-vpc</i>	(Optional) Tunneled Packets rx for ingress orphan vPC
<i>arp-tun-pkt-rcv-ing-orp-vpc-pl</i>	(Optional) Tunneled Packets rx for ingress orphan vPC+
<i>arp-tun-pkt-snd-cnt</i>	(Optional) Total tunneled packets sent
<i>arp-tun-pkt-snd-snoop-cnt</i>	(Optional) Tunneled packets Sent for ARP Snoop
<i>arp-tun-pkt-snd-non-local-vip-cnt</i>	(Optional) Tunneled packets sent for Non-Local VIP
<i>arp-tun-pkt-snd-peer-gate-cnt</i>	(Optional) Tunneled Packets sent for Peer Gateway
<i>arp-tun-pkt-snd-ing-vpc</i>	(Optional) Tunneled packets tx for ingress vPC
<i>arp-tun-pkt-snd-ing-gpc</i>	(Optional) Tunneled packets tx for ingress GPC
<i>arp-tun-pkt-snd-ing-orp-vpc</i>	(Optional) Tunneled Packets tx for ingress orphan vPC

<i>arp-tun-pkt-snd-ing-orp-vpc-pl</i>	(Optional) Tunneled Packets tx for ingress orphan vPC+
<i>arp-tun-pkt-rcv-drp-cnt</i>	(Optional) Total tunnel packets rcv dropped
<i>arp-tun-pkt-snd-drp-cnt</i>	(Optional) Total tunnel packets send dropped
<i>arp-tun-pkt-snd-drp-snd-fail-cnt</i>	(Optional) Drops due to send failed
<i>arp-tun-pkt-rcv-drp-ver-cnt</i>	(Optional) Received packet with invalid version
<i>arp-tun-pkt-rcv-drp-pl-cnt</i>	(Optional) Received packet with invalid payload type
<i>arp-tun-pkt-rcv-drp-ing-non-mct</i>	(Optional) Received packet on non mct interface
<i>arp-tun-pkt-rcv-drp-inv-ing-intf</i>	(Optional) Received packet with invalid ingress port
<i>arp-tun-pkt-snd-drp-inv-ing-intf</i>	(Optional) Drop send packets for invalid ingress port
<i>arp-tun-pkt-rcvdrp-inv-gpc-core-sw</i>	(Optional) Drop rcv pkt, invalid GPC of core switch
<i>arp-tun-pkt-rcvdrp-inv-gpc-peer-sw</i>	(Optional) Drop rcv pkt, invalid GPC of peer switch
<i>arp-tun-pkt-drp-inv-mcec</i>	(Optional) Failed to retrieve vPC ID while processing
<i>arp-tun-pkt-im-api-fail</i>	(Optional) IM api failed while processing
<i>arp-tun-pkt-drp-ctxt-inv</i>	(Optional) Drop tunnel packet as context is invalid
<i>arp-tun-pkt-drp-mct-dwn</i>	(Optional) Drop tunnel packet as mct is down
<i>arp-tun-pkt-rcv-drp-mbuf-op-fail</i>	(Optional) Drop rcv packets as mbuf operation failed
<i>arp-tun-pkt-snd-drp-mbuf-op-fail</i>	(Optional) Drop send packets as mbuf operation failed
<i>arp-tun-pkt-snd-drp-tunnel</i>	(Optional) Cannot tunnel a incoming tunneled packet
<i>arp-tun-pkt-snd-drp-ce</i>	(Optional) Cannot tunnel in a CE network
<i>arp-tun-pkt-snd-drp-inv-gpc</i>	(Optional) Drop send pkt, failed in retrieving the GPC
<i>arp-tun-pkt-rcv-drp-inv-gpc</i>	(Optional) Drop rcv pkt, failed in retrieving the GPC
<i>arp-tun-pkt-sys-mcecm-key-not-found</i>	(Optional) MCEC_ID to PHY_IF_INDEX not found in DB

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-mcecm-ifidx-vpc-fail> ] [
<arp-mcecm-vpc-ifidx-fail> ] [ <arp-periodic-mcecm-ifidx-vpc-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-pkt-vmct-drop-count> ] [ <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-total-cnt>
] [ <arp-dont-drop-total-cnt> ] [ <arp-drp-inval-phy-iod> ] [ <arp-add-adj> ] [ <arp-del-adj> ] [
<arp-adj-already-exist> ] [ <arp-sync-recv-op-add-adj> ] [ <arp-sync-recv-op-del-adj> ] [
<arp-sync-push-msg-adj-cnt> ] [ <arp-sync-send-op-add-adj> ] [ <arp-sync-send-op-del-adj> ] [
<arp-sync-adj-cnt> ] [ <arp-sync-addadj-fail> ] [ <arp-sync-drp-svi-inv> ] [ <arp-sync-drp-svi-dwn> ] [
<arp-sync-drp-ctxt-inv> ] [ <arp-sync-null-adj> ] [ <arp-sync-invalid-ip> ] [ <arp-periodic-sync-adj-l2-supp-cnt>
] [ <arp-periodic-sync-stop-bcast-pkt-sync-count> ] [ <arp-periodic-sync-vmct-stop-orphan-sync-count> ] ]
]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
vpc-statistics	Show vPC global statistics
<i>__readonly__</i>	(Optional)
<i>TABLE_arp_vpc_stats</i>	(Optional) Arp Vpc statistics
<i>arp-mcecm-ifidx-vpc-fail</i>	(Optional) Unable to retrieve VPC id from ifidx
<i>arp-mcecm-vpc-ifidx-fail</i>	(Optional) Unable to retrieve ifidx from VPC id
<i>arp-periodic-mcecm-ifidx-vpc-fail</i>	(Optional) Unable to retrieve ifidx from VPC id during periodic sync
<i>arp-sync-recv-op-add-adj</i>	(Optional) Total adjacencies recieved from peer to add
<i>arp-sync-recv-op-del-adj</i>	(Optional) Total adjacencies received from peer to delete
<i>arp-sync-push-msg-adj-cnt</i>	(Optional) Total gross adjacencies sent periodically
<i>arp-sync-send-op-add-adj</i>	(Optional) Total adjacencies sent to peer to add
<i>arp-sync-send-op-del-adj</i>	(Optional) Total adjacencies sent to peer to delete
<i>arp-sync-adj-cnt</i>	(Optional) Total periodic sync adjacencies

<i>arp-sync-addadj-fail</i>	(Optional) Failure in adding adjacencies while periodic sync send
<i>arp-sync-drp-svi-inv</i>	(Optional) Total drops during periodic sync because of invalid svi
<i>arp-sync-drp-svi-dwn</i>	(Optional) Total drops during periodic sync because of svi down
<i>arp-sync-drp-ctxt-inv</i>	(Optional) Total drops during periodic sync because of invalid context
<i>arp-sync-null-adj</i>	(Optional) Total drops while processing syne of NULL Adjacencies
<i>arp-sync-invalid-ip</i>	(Optional) Total drops while processing sync because of NULL IP
<i>arp-periodic-sync-adj-l2-supp-cnt</i>	(Optional) Total periodic sync adjacenciesadded for L2 suppression case
<i>arp-periodic-sync-stop-bcast-pkt-sync-count</i>	(Optional) Total Bcast packets that was stopped sync to peer
<i>arp-pro-drp-pull-disable</i>	(Optional) Drop the received CFS pull request
<i>arp-pro-drp-push-msg-disable</i>	(Optional) Drop the received CFS push message
<i>arp-pro-ign-snd-pull-disabe</i>	(Optional) Ignore to send pull request using CFSoE
<i>arp-ign-snd-push-disable</i>	(Optional) Ignore to send push message using CFSoE
<i>arp-drp-im-fail</i>	(Optional) IM api failed while processing CFS payload
<i>arp-drp-mcecm-fail</i>	(Optional) MCECM api failed while processing CFS payload
<i>arp-drp-invalid-pc-iod</i>	(Optional) Invalid MCT port-channel iod
<i>arp-drp-pt-lookup-fail</i>	(Optional) PT lookup failed while processing CFS payload
<i>arp-drp-resp-fail-no-mct</i>	(Optional) Sending CFS response failed due to invalid MCT iod
<i>arp-drp-resp-fail</i>	(Optional) Sending CFS response failed
<i>arp-resp-sent</i>	(Optional) Response sent via CFSoE
<i>arp-resp-recvd</i>	(Optional) Response received via CFSoE
<i>arp-resp-recv-err</i>	(Optional) Response received via CFSoE with errors
<i>arp-rcvd-msg</i>	(Optional) Received message via CFSoE
<i>arp-send-fail</i>	(Optional) Send message failed via CFSoE
<i>arp-cfs-rel-dlvry-fail</i>	(Optional) MCECM send api failed via CFSoE
<i>arp-cfs-rel-dnvry-suc</i>	(Optional) Send message succeeded via CFSoE
<i>arp-drp-pt-add-fail</i>	(Optional) PT add failed while processing offlist
<i>arp-drp-no-mem</i>	(Optional) Memory alloc failed while processing offlist databse
<i>arp-drp-tmr-cre-fail</i>	(Optional) Timer create failed while processing offlist database

<i>arp-drp-add-adj-fail</i>	(Optional) Adjacency addition failed while processing offlist database
<i>arp-off-drp-pt-lookup-fail</i>	(Optional) PT lookup failed while processing offlist database
<i>arp-dont-drp-vlan-mismat</i>	(Optional) VLAN mismatch while processing offlist database
<i>arp-drp-svi-invalid</i>	(Optional) SVI is invalid while processing offlist database
<i>arp-dont-drop-sv-down</i>	(Optional) SVI is down while processing offlist database
<i>arp-drp-mct-down</i>	(Optional) MCT is down while processing offlist database
<i>arp-drp-ctxt-invalid</i>	(Optional) Ctxt_type is invalid while processing offlist database
<i>arp-drp-vrf-invalid</i>	(Optional) VRF is invalid while processing offlist database
<i>arp-drp-l3addr-invalid</i>	(Optional) VRF is invalid while processing offlist database
<i>arp-drp-l3addr-sanity-fail</i>	(Optional) IP address sanity failed
<i>arp-drp-mac-sanity-fail</i>	(Optional) MAC address sanity failed
<i>arp-own-rtr-mac</i>	(Optional) Our own router mac
<i>arp-drp-own-ipaddr</i>	(Optional) Our own ip address
<i>arp-drp-own-vipadd</i>	(Optional) Our own virtual ip address
<i>arp-drp-adj-fail</i>	(Optional) Create adjacency failed
<i>arp-drp-subnet-mismatch</i>	(Optional) Subnet mismatch
<i>arp-drp-adj-exist</i>	(Optional) Entry exists
<i>arp-dont-drp-ip-not-enable</i>	(Optional) IP not enabled on interface
<i>arp-drp-inval-phy-iod</i>	(Optional) Physical interface invalid
<i>arp-drp-total-cnt</i>	(Optional) Total drop count
<i>arp-dont-drop-total-cnt</i>	(Optional) Total don't drop count
<i>arp-add-adj</i>	(Optional) Total adjacency additions
<i>arp-del-adj</i>	(Optional) Total adjacency deletions
<i>arp-adj-already-exist</i>	(Optional) Total adjacencies ignored as already exist
<i>arp-pkt-vmct-drop-count</i>	(Optional) Total virtual-mct packets dropped
<i>arp-periodic-sync-vmct-stop-orphan-sync-count</i>	(Optional) Total virtual-mct orphan hosts that was stopped syncing to peer

Command Mode

- /exec

show ip as-path-access-list

```
show ip as-path-access-list [ <aspl-name> | <aspl-cfg-name> ] [ __readonly__ TABLE_aspl <name> <seq>
<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>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

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)
<i>TABLE_ip_clnt</i>	(Optional)
<i>TABLE_clnt</i>	(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> <seq> <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)
TABLE_cl	(Optional)
<i>name</i>	(Optional)
<i>seq</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_relay_disable>
<pkts_dropped_no_binding_entry> <pkts_dropped_interface_error> <pkts_dropped_max_hops_exceeded>
<pkts_dropped_queue_full> ]
```

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) Packets processed
<i>pkts_recvd_through_cfsoe</i>	(Optional) Packets received through cfsoe
<i>pkts_fwded</i>	(Optional) Packets forwarded
<i>pkts_cfsoe_fwded</i>	(Optional) Packets forwarded on cfsoe
<i>pkts_dropped</i>	(Optional) Total packets dropped
<i>pkts_dropped_from_untrusted_ports</i>	(Optional) Packets dropped from untrusted ports
<i>pkts_dropped_src_mac_chk_fail</i>	(Optional) Packets dropped due to MAC address check failure
<i>pkts_dropped_opt82_ins_fail</i>	(Optional) Packets dropped due to Option 82 insertion failure
<i>pkts_dropped_unknown_op_intf</i>	(Optional) Packets dropped due to o/p intf unknown
<i>pkts_dropped_unknown_pkt</i>	(Optional) Packets dropped which were unknown
<i>pkts_dropped_no_trust_inf</i>	(Optional) Packets dropped due to no trusted ports
<i>pkts_dropped_relay_disable</i>	(Optional) Packets dropped due to dhcp relay not enabled
<i>pkts_dropped_no_binding_entry</i>	(Optional) Packets dropped due to no binding entry
<i>pkts_dropped_interface_error</i>	(Optional) Packets dropped due to interface error/no interface
<i>pkts_dropped_max_hops_exceeded</i>	(Optional) Packets dropped due to max hops exceeded
<i>pkts_dropped_queue_full</i>	(Optional) Packets dropped due to queue full

Command Mode

- /exec

show ip dhcp option82 suboption info interface

```
show ip dhcp option82 suboption info interface [ <intf> ] [ __readonly__ <intf_header> { TABLE_intf_option82
<intf_name> <option82_status> <suboption_string> <tx_count> } ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
option82	DHCP option82
suboption	DHCP option82 suboption
info	DHCP option82 suboption information
interface	DHCP option82 suboption information of all interfaces
<i>intf</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>intf_header</i>	(Optional)
TABLE_intf_option82	(Optional)
<i>intf_name</i>	(Optional)
<i>option82_status</i>	(Optional)
<i>suboption_string</i>	(Optional)
<i>tx_count</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> [ TABLE_intf <smart_relay_enabled_intf> ] <subnet_bcast_intf_hdr> [ TABLE_intf
<subnet_bcast_enabled_intf> ] <trusted_port_intf_hdr> [ TABLE_intf <trusted_port_enabled_intf> ]
<relay_src_addr_hsrp_hdr> [ TABLE_intf <src_addr_hsrp_enabled_intf> ] <relay_address_hdr> [ TABLE_intf
<intf> <relay_address> <vrf_name> ] ]
```

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>smart_relay_intf_hdr</i>	(Optional) Smart relay interfaces header
TABLE_intf	(Optional)
<i>smart_relay_enabled_intf</i>	(Optional) smart-relay enabled interfaces
<i>subnet_bcast_intf_hdr</i>	(Optional) Subnet broadcast interfaces header
TABLE_intf	(Optional)
<i>subnet_bcast_enabled_intf</i>	(Optional) subnet_bcast enabled interfaces
<i>trusted_port_intf_hdr</i>	(Optional) Trusted port interfaces header
TABLE_intf	(Optional)

<i>trusted_port_enabled_intfs</i>	(Optional) trusted_port enabled interfaces
<i>relay_src_addr_hsrp_hdr</i>	(Optional) Header for V4 Relay src-addr enabled interfaces
TABLE_intf	(Optional)
<i>src_addr_hsrp_enabled_intfs</i>	(Optional) source-address hsrp enabled interfaces
<i>relay_address_hdr</i>	(Optional) relay address header
TABLE_intf	(Optional) Table for list of interfaces
<i>intf</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 address

```
show ip dhcp relay address [ interface <intf-range> ] [ __readonly__ <intf_header> [ TABLE_intf <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
<i>intf_header</i>	(Optional) interface header
TABLE_intf	(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
__readonly__	(Optional) Read only
TABLE_intf	(Optional) trusted interface table
<i>header</i>	(Optional) interface header
<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_offer>
<offer_rx_pkts> <offer_tx_pkts> <offer_drops> <msg_type_str_request> <request_rx_pkts> <request_tx_pkts>
<request_drops> <msg_type_str_ack> <ack_rx_pkts> <ack_tx_pkts> <ack_drops> <msg_type_str_release>
<release_rx_pkts> <release_tx_pkts> <release_drops> <msg_type_str_decline> <decline_rx_pkts>
<decline_tx_pkts> <decline_drops> <msg_type_str_inform> <inform_rx_pkts> <inform_tx_pkts>
<inform_drops> <msg_type_str_nack> <nack_rx_pkts> <nack_tx_pkts> <nack_drops> <line>
<msg_type_str_total> <total_rx_pkts> <total_tx_pkts> <total_drops> <line_x> ] [ <server_consolidated_hdr>
[ TABLE_server_info <server_helper_addr> <server_vrf> <server_total_request> <server_total_response>
] <line_y> ] [ <l3_fwd_hdr> <l3_fwd_rx_pkts> <l3_fwd_tx_pkts> <l3_fwd_drops> <non_dhcp_hdr>
<non_dhcp_rx_pkts> <non_dhcp_tx_pkts> <non_dhcp_drops> <drop_hdr> <drop_validation_fail>
<drop_relay_disable> <drop_invalid_msg_type> <drop_intf_err> <drop_tx_sock_err>
<drop_tx_fail_client_intf> <drop_unknown_op_intf> <drop_l3_unknown_op_intf> <drop_max_hops>
<drop_opt82_insert_fail> <drop_malformed> <drop_mct_drop> <drop_untrusted_relay_intf> ] [
<server_discover> <server_request> <server_decline> <server_release> <server_inform> <server_ack>
<server_nack> <server_offer> <server_resp_hdr> <drop_unknown> <server_req_hdr> ] <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
__readonly__	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional) dhcp message statistics header
<i>msg_type_str</i>	(Optional) dhcp message type
<i>rx_pkts</i>	(Optional) received dhcp packets
<i>tx_pkts</i>	(Optional) forwarded dhcp packets
<i>drops</i>	(Optional) dhcp packet drops

<i>msg_type_str_offer</i>	(Optional) dhcp message type
<i>offer_rx_pkts</i>	(Optional) received dhcp packets
<i>offer_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>offer_drops</i>	(Optional) dhcp packet drops
<i>msg_type_str_request</i>	(Optional) dhcp message type
<i>request_rx_pkts</i>	(Optional) received dhcp packets
<i>request_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>request_drops</i>	(Optional) dhcp packet drops
<i>msg_type_str_ack</i>	(Optional) dhcp message type
<i>ack_rx_pkts</i>	(Optional) received dhcp packets
<i>ack_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>ack_drops</i>	(Optional) dhcp packet drops
<i>msg_type_str_release</i>	(Optional) dhcp message type
<i>release_rx_pkts</i>	(Optional) received dhcp packets
<i>release_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>release_drops</i>	(Optional) dhcp packet drops
<i>msg_type_str_decline</i>	(Optional) dhcp message type
<i>decline_rx_pkts</i>	(Optional) received dhcp packets
<i>decline_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>decline_drops</i>	(Optional) dhcp packet drops
<i>msg_type_str_inform</i>	(Optional) dhcp message type
<i>inform_rx_pkts</i>	(Optional) received dhcp packets
<i>inform_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>inform_drops</i>	(Optional) dhcp packet drops
<i>msg_type_str_nack</i>	(Optional) dhcp message type
<i>nack_rx_pkts</i>	(Optional) received dhcp packets
<i>nack_tx_pkts</i>	(Optional) forwarded dhcp packets
<i>nack_drops</i>	(Optional) dhcp packet drops
<i>line</i>	(Optional)

<i>msg_type_str_total</i>	(Optional) total dhcp packets of all message types
<i>total_rx_pkts</i>	(Optional) total forwarded dhcp packets
<i>total_tx_pkts</i>	(Optional) total forwarded dhcp packets
<i>total_drops</i>	(Optional) total dhcp drops
<i>line_x</i>	(Optional)
<i>server_consolidated_hdr</i>	(Optional) DHCP server stats
TABLE_server_info	(Optional)
<i>server_helper_addr</i>	(Optional) dhcp server address
<i>server_vrf</i>	(Optional) dhcp server vrf
<i>server_total_request</i>	(Optional) total dhcp requests to server
<i>server_total_response</i>	(Optional) total dhcp responses from server
<i>line_y</i>	(Optional)
<i>l3_fwd_hdr</i>	(Optional) DHCP l3 forward header
<i>l3_fwd_rx_pkts</i>	(Optional) DHCP l3 received packets
<i>l3_fwd_tx_pkts</i>	(Optional) DHCP l3 forwarded packets
<i>l3_fwd_drops</i>	(Optional) DHCP l3 forward drops
<i>non_dhcp_hdr</i>	(Optional) non dhcp packets header
<i>non_dhcp_rx_pkts</i>	(Optional) total non dhcp packets received
<i>non_dhcp_tx_pkts</i>	(Optional) total non dhcp packets forwarded
<i>non_dhcp_drops</i>	(Optional) total non dhcp drops
<i>drop_hdr</i>	(Optional) total dhcp drops in various scenarios
<i>drop_validation_fail</i>	(Optional) drops due to option 82 validation failed
<i>drop_relay_disable</i>	(Optional) drops due to dhcp relay not enabled
<i>drop_invalid_msg_type</i>	(Optional) drops due to invalid message type
<i>drop_intf_err</i>	(Optional) drops due to interface error
<i>drop_tx_sock_err</i>	(Optional) tx failure towards server
<i>drop_tx_fail_client_intf</i>	(Optional) drops due to Tx failure towards client
<i>drop_unknown_op_intf</i>	(Optional) Unknown output interface
<i>drop_l3_unknown_op_intf</i>	(Optional) unknown vrf interface for server

<i>drop_max_hops</i>	(Optional) drops due to max hop exceeded
<i>drop_opt82_insert_fail</i>	(Optional) Insertion of option 82 failed
<i>drop_malformed</i>	(Optional) drops due to packet malformed
<i>drop_mct_drop</i>	(Optional) drops through mct
<i>drop_untrusted_relay_intf</i>	(Optional) drops due to untrusted relay interface
<i>server_discover</i>	(Optional) DHCP discover messages relayed to server
<i>server_request</i>	(Optional) DHCP request messages relayed to server
<i>server_decline</i>	(Optional) DHCP decline messages relayed to server
<i>server_release</i>	(Optional) DHCP release messages relayed to server
<i>server_inform</i>	(Optional) DHCP inform messages relayed to server
<i>server_ack</i>	(Optional) DHCP ack messages relayed from server
<i>server_nack</i>	(Optional) DHCP nack messages relayed from server
<i>server_offer</i>	(Optional) DHCP offer messages relayed from server
<i>server_resp_hdr</i>	(Optional) DHCP server response header
<i>drop_unknown</i>	(Optional) drops due to Unknown Failure
<i>server_req_hdr</i>	(Optional) DHCP server request header
<i>footer</i>	(Optional) footer line

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) is DHCP snooping trusted on the interface
<i>intf_entry_pkt_limit</i>	(Optional) limit for DHCP packets per second on the interface

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) current cli operation
<i>last_cli_op</i>	(Optional) last cli operation
<i>last_cli_stat</i>	(Optional) last cli status

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> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_asn <asn> <router_id> TABLE_vrf <vrf> <eigrp_ptag> <instance_num> <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> <active_interval>
<num_interfaces> <num_lo_interfaces> <num_pass_interfaces> <num_peers> [ { TABLE_redist
<redist_srcproto> <redist_routemap> } ] <tmap_route_map> [ <tmap_filter_configured> ]
<default_info_originate> [ <default_info_route_map> <default_info_originate_always> ] <graceful_restart>
<stub_configured> [ <stub_option_connected> <stub_option_summary> <stub_option_redist>
<stub_option_leak_map> <stub_option_receive_only> ] <isolate> <nsf_converge_time>
<nsf_converge_expires> <nsf_route_hold_time> <nsf_route_hold_expires> <nsf_signal_time>
<nsf_signal_expires> <redist_max_prefix> [ <redist_max_prefix_mode> <redist_prefix_count>
<redist_prefix_max> <redist_limit_threshold> <redist_limit_retry_count> <redist_limit_retry_max>
<redist_limit_timer_left> <redist_limit_timeout> ] <bfd_enabled> <eigrp_mode> [ { TABLE_command_q
<addr> <mask> } ] <await_redist_proto_converge> <suppress_fib_pending> <nsf_in_progress> ]
```

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
__readonly__	(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>eigrp_ptag</i>	(Optional) Process-tag for EIGRP
<i>instance_num</i>	(Optional) EIGRP Instance Number

<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>active_interval</i>	(Optional) Active Interval in minutes
<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>tmap_route_map</i>	(Optional) Tablemap Policy name
<i>tmap_filter_configured</i>	(Optional) Tablemap filter configured?
<i>default_info_originate</i>	(Optional) Default-info Policy Originate?

<i>default_info_route_map</i>	(Optional) Default-info Policy name
<i>default_info_originate_always</i>	(Optional) Default-info Originate always?
<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?
<i>isolate</i>	(Optional) Isolate is enabled
<i>nsf_converge_time</i>	(Optional) NSF converge time limit
<i>nsf_converge_expires</i>	(Optional) NSF converge time expires
<i>nsf_route_hold_time</i>	(Optional) NSF route-hold time limit
<i>nsf_route_hold_expires</i>	(Optional) NSF route-hold time expires
<i>nsf_signal_time</i>	(Optional) NSF signal time limit
<i>nsf_signal_expires</i>	(Optional) NSF signal time expires
<i>redist_max_prefix</i>	(Optional) Redistributed max-prefix enabled?
<i>redist_max_prefix_mode</i>	(Optional) Redistributed max-prefix mode
<i>redist_prefix_count</i>	(Optional) Redistributed prefix count
<i>redist_prefix_max</i>	(Optional) Redistributed prefix max
<i>redist_limit_threshold</i>	(Optional) Redistributed max-prefix warning threshold
<i>redist_limit_retry_count</i>	(Optional) Redistributed max-prefix retries attempted
<i>redist_limit_retry_max</i>	(Optional) Redistributed max-prefix retries allowed
<i>redist_limit_timer_left</i>	(Optional) Redistributed max-prefix timer left
<i>redist_limit_timeout</i>	(Optional) Redistributed max-prefix timeout
<i>bfd_enabled</i>	(Optional) Is BFD enabled?
<i>eigrp_mmode</i>	(Optional) EIGRP MMODE initialized?
TABLE_command_q	(Optional) Network commands table
<i>addr</i>	(Optional) IP address

<i>mask</i>	(Optional) Mask length
<i>await_redist_proto_converge</i>	(Optional) Await-Redist-proto-convergence configured?
<i>suppress_fib_pending</i>	(Optional) Suppress-FIB-Pending configured?
<i>nsf_in_progress</i>	(Optional) NSF in progress?

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 detail

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] detail [ 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
detail	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

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 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> <use_multicast> <classic_metric_peers>
<wide_metric_peers> <bfd_enabled> ] ] ]
```

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
<i>use_multicast</i>	(Optional) Use Multicast?
<i>classic_metric_peers</i>	(Optional) Classical metric peers
<i>wide_metric_peers</i>	(Optional) Wide metric peers
<i>bfd_enabled</i>	(Optional) BFD enabled

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 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
__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
<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)
TABLE_extcl	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

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 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_vrf [ <vrf-name> ] [ <table-name> ] [ <table-id> ] [ <table-wildcard> ] [ <total-num-groups> ] [
TABLE_route_summary [ <vrf-name> ] [ <total-num-routes> ] [ <num-star-g-route> ] [ <num-sg-route> ] [
<num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE_one_route [ <source-addr> ] [ <source-len> ] [
<group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <stats-pkts> ] [ <stats-bytes> ] [
<oif-count> ] [ <oiflist-index> ] [ TABLE_oif [ <oif-name> ] [ <mti-src-intf> ] [ <mti-grp-ip> ] [ <mti-src-ip>
] [ <next-hop> ] ] ] ] ]
```

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)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>table-name</i>	(Optional)
<i>table-id</i>	(Optional)
<i>table-wildcard</i>	(Optional)
<i>total-num-groups</i>	(Optional)
TABLE_route_summary	(Optional)
<i>total-num-routes</i>	(Optional)
<i>num-star-g-route</i>	(Optional)
<i>num-sg-route</i>	(Optional)
<i>num-star-g-prfx</i>	(Optional)

<i>num-group-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>source-addr</i>	(Optional)
<i>source-len</i>	(Optional)
<i>group-addr</i>	(Optional)
<i>group-len</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rpf-intf</i>	(Optional)
<i>flags</i>	(Optional)
<i>stats-pkts</i>	(Optional)
<i>stats-bytes</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oiflist-index</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>mti-src-intf</i>	(Optional)
<i>mti-grp-ip</i>	(Optional)
<i>mti-src-ip</i>	(Optional)
<i>next-hop</i>	(Optional)

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> <state><tc><tpre><tv4ac><tv6ac> { TABLE_fib_state
<tid><tafi><prc><pc><tname> } ]
```

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution info
state	unicast fib state info
<i>__readonly__</i>	(Optional)
<i>slot</i>	(Optional) slot number
TABLE_fib_state	(Optional) fib-state table

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 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> ] [ TABLE_vrf { [ <vrf_name_out> ] [
<table_name> ] [ TABLE_prefix { [ <pfx> ] [ TABLE_path { [ <nexthop> | <special> ] [ <intf> ] } } ] ] ] ] ] ] ] ]
```

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
<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>__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)
TABLE_vrf	(Optional) vrf table
<i>vrf_name_out</i>	(Optional) VRF name
<i>table_name</i>	(Optional) table name
TABLE_prefix	(Optional) all xml prefix entries
<i>px</i>	(Optional) ipv4 prefix
TABLE_path	(Optional) path table
<i>nexthop</i>	(Optional) next hop address
<i>special</i>	(Optional) special adjacencies
<i>intf</i>	(Optional) output interface

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>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 ftp source-interface

```
show ip ftp source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipftpvrf
<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_ipftpvrf	(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> ] [ <join-group-map> ] [ <static-group-map> ] [ <host-proxy> ] [
<host-proxy-group-map> ] [ <un-solicited> ] [ <unsoint> ] [ <v1rr> ] [ <v2qs> ] [ <v2qr> ] [ <v2rs> ] [ <v2rr>
] [ <v2ls> ] [ <v2lr> ] [ <v3qs> ] [ <v3qr> ] [ <v3rs> ] [ <v3rr> ] [ <v2gqdest> ] [ <v3gqdest> ] [ <cse> ] [
<ple> ] [ <lsip> ] [ <scf> ] [ <qnq> ] [ <rvm> ] [ <qvm> ] [ <uit> ] [ <v1gdam> ] [ <v2gdam> ] [ <v3dai> ]
[ <ra> ] ] ] ]
```

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)
<i>TABLE_vrf</i>	(Optional)
<i>vrf</i>	(Optional)
<i>entry-count</i>	(Optional)
<i>TABLE_brief</i>	(Optional)
<i>if-name</i>	(Optional)
<i>addr</i>	(Optional)
<i>querier</i>	(Optional)
<i>mc</i>	(Optional)

<i>ver</i>	(Optional)
TABLE_if	(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>rl</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> ] [ <compare_count>
] [ <match_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)
<i>TABLE_interface</i>	(Optional)
<i>if</i>	(Optional)
<i>TABLE_routemap</i>	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
<i>TABLE_cmd</i>	(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> ] [ TABLE_active_ports [ <actvports> ] ] [ <lkupmode> ] [ <omf_enabled> ] [ <reportfloodenable> ] [ <reportfloodall> ] [ 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)
TABLE_active_ports	(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 [ __readonly__ { TABLE_vlanid <vlan-id>
<access-group> <group-channels-limit> <igmp-min-ver> } ]
```

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
<i>__readonly__</i>	(Optional)
<i>TABLE_vlanid</i>	(Optional)
<i>vlan-id</i>	(Optional)
<i>access-group</i>	(Optional)
<i>group-channels-limit</i>	(Optional)
<i>igmp-min-ver</i>	(Optional)

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 <bidid> ] [ __readonly__ [ <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>bidid</i>	(Optional) Specify BD
<i>__readonly__</i>	(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 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
__readonly__	(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 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>vpccfsrsls</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
__readonly__	(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_intf [ <vrf-name-out> ] [
<intf-name> ] [ <proto-state> ] [ <link-state> ] [ <admin-state> ] [ <iod> ] [ <first_unnum_iod> ] [
TABLE_unnuminf <unnum-child-inf> ] [ <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-forwarding> ] [ <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> ] [ <wccp-outbound> ] [ <wccp-inbound>
] [ <wccp-exclude> ] ] ] ]
```

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)
<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)

<i>intf-name</i>	(Optional)
<i>iod</i>	(Optional)
<i>first_unnum_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_unnuminf	(Optional)
<i>unnum-child-inf</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-forwarding</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)
<i>wccp-outbound</i>	(Optional)
<i>wccp-inbound</i>	(Optional)

<i>wccp-exclude</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 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> ] [ <gre-outer-hash> ] [ <concatenation> ] [ <rotate> ] [
<src-dst-ip-gtpu> ] } ]
```

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)
<i>gre-outer-hash</i>	(Optional)
<i>concatenation</i>	(Optional)
<i>rotate</i>	(Optional)
<i>src-dst-ip-gtpu</i>	(Optional)

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 } | all }
] ] } { route-map { <rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | {
community-list { <commlist-name> | <test_pol_name> } | extcommunity-list { <extcommmlist-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>extcommmlist-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

```
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 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 ] ] | sr | rp | [ summary [ count | software-forwarded | rpf-failed ] ] | { [
[ <source> <group> ] | [ <group> [ <source> ] ] ] [ shared-tree | source-tree | mofrr ] [ [ flags ] | [ detail ] ] [
bitfield ] | [ summary [ software-forwarded | rpf-failed ] ] ] } ] [ 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> [ <source_addr> <group_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> ] [
<translated-route-src> ] [ <translated-route-grp> ] [ <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> ] [
<core-interest> ] [ <fabric-interest> ] ] [ <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>source_addrs</i>	(Optional)
<i>group_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>translated-route-src</i>	(Optional)
<i>translated-route-grp</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>core-interest</i>	(Optional)
<i>fabric-interest</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__ [ TABLE_vrf
[ <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)
TABLE_vrf	(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__
[ TABLE_vrf [ <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)
TABLE_vrf	(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> ] [ <peer-listening> ] [ <state-duration> ]
[ <peer-uptime> ] [ <peer-rr> ] [ <peer-password> ] [ <peer-ki> ] [ <peer-kt> ] [ <peer-ri> ] [ <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> ] [ <in-ctrl-msgs> ] [ <out-ctrl-msgs> ] [ <in-data-msgs>
] [ <out-data-msgs> ] [ <sa-ka-rcvd> ] [ <sa-ka-sent> ] [ <sa-notif-rcvd> ] [ <sa-notif-sent> ] [ <rem-port> ]
[ <local-port> ] [ <rpf-failures> ] [ <cache-lifetime> ] [ <estb-transitions> ] [ <conn-attempts> ] [ <discont-time>
] ] ]
```

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)
<i>rpf-failures</i>	(Optional)

<i>cache-lifetime</i>	(Optional)
<i>estb-transitions</i>	(Optional)
<i>conn-attempts</i>	(Optional)
<i>discont-time</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>
] [ <compare_count> ] [ <match_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__ [ TABLE_rp
[ <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)
TABLE_rp	(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__ [ TABLE_vrf [ <out-vrf>
] [ <total-sa-count> ] [ TABLE_sa [ <src-addr> ] [ <grp-addr> ] [ <rp-addr> ] [ <out-asn> ] [ <uptime> ] [
<peer-addr> ] [ <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
__readonly__	(Optional)
TABLE_vrf	(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__ [ TABLE_VRF [
<out-vrf> ] [ TABLE_source [ <source-addr> ] [ <count> ] [ <is-count-ge-limit> ] [ <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)
TABLE_VRF	(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__ [
TABLE_vrf [ <out-vrf> ] [ <select-err> ] [ <rcv-sel-err> ] [ TABLE_peer [ <peer-address> ] [ <buffer-full>
] [ <rcv-buf-full> ] [ <fatal-err> ] [ <rcv-fat-err> ] [ <would-block> ] [ <rcv-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)
TABLE_vrf	(Optional)
<i>out-vrf</i>	(Optional)
<i>select-err</i>	(Optional)
<i>rcv-sel-err</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-address</i>	(Optional)
<i>buffer-full</i>	(Optional)
<i>rcv-buf-full</i>	(Optional)
<i>fatal-err</i>	(Optional)
<i>rcv-fat-err</i>	(Optional)
<i>would-block</i>	(Optional)
<i>rcv-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__ [ TABLE_VRF [
<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)
TABLE_VRF	(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 nat-alias

```
show ip nat-alias [ __readonly__ [ TABLE_nat_alias_vrf [ { <nat-alias-vrf-name> [ TABLE_each_vrf_alias
{ <nat-alias-addr> <nat-alias-intr> } ] } ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
nat-alias	Display aliases registered by NAT module
__readonly__	(Optional)
TABLE_nat_alias_vrf	(Optional)
<i>nat-alias-vrf-name</i>	(Optional)
TABLE_each_vrf_alias	(Optional)
<i>nat-alias-addr</i>	(Optional)
<i>nat-alias-intr</i>	(Optional)

Command Mode

- /exec

show ip nat max

```
show ip nat max [ __readonly__ <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_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 [ __readonly__ <last_clear_time> <total_active_translations> <static_translations>
<dynamic_translations> <icmp_translations> <total_exp_translations> <syn_exp_translations>
<finrst_exp_translations> <inactive_exp_translations> <total_hits> <total_misses> <io_hits> <io_misses>
<oi_hits> <oi_misses> <total_sw_translated> <io_sw_translated> <oi_sw_translated> <total_sw_dropped>
<io_sw_dropped> <oi_sw_dropped> <addr_alloc_fail_drop> <port_alloc_fail_drop>
<dyn_trans_maxlimit_drop> <icmp_maxlimit_drop> <allhost_maxlimit_drop> <total_tcp_session_created>
<total_tcp_session_closed> [ <Total_NAT_inside_interfaces> ] [ { TABLE_NAT_inside_interfaces [
<nat_inside_interfaces> ] } ] [ <Total_NAT_outside_interfaces> ] [ { TABLE_NAT_outside_interfaces [
<nat_outside_interfaces> ] } ] [ { TABLE_NAT_inside_source_list [ <nat_in_acl_name> ] [
<nat_in_acl_refcount> ] [ <nat_in_pool_name> ] [ <nat_pool_overload> ] [ <in_pool_total_address> ] [
<in_pool_allocated> ] [ <in_pool_missed> ] [ <interface_name> ] [ <interface_status> ] [ <interface_ip_addr>
] } ] [ { TABLE_NAT_outside_source_list [ <nat_out_acl_name> ] [ <nat_out_acl_refcount> ] [
<nat_out_pool_name> ] [ <out_pool_total_address> ] [ <out_pool_allocated> ] [ <out_pool_missed> ] } ] ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
statistics	Translation statistics
<i>__readonly__</i>	(Optional)
<i>last_clear_time</i>	(Optional) Clearable stats collected from
<i>total_active_translations</i>	(Optional) Total active translations
<i>static_translations</i>	(Optional) No. Static Translations
<i>dynamic_translations</i>	(Optional) No. Dynamic Translations
<i>icmp_translations</i>	(Optional) No. ICMP Translations
<i>total_exp_translations</i>	(Optional) Total expired Translations
<i>syn_exp_translations</i>	(Optional) SYN timer expired Translations
<i>finrst_exp_translations</i>	(Optional) FIN-RST timer expired Translations
<i>inactive_exp_translations</i>	(Optional) Inactive timer expired Translations
<i>total_hits</i>	(Optional) Total Hits
<i>total_misses</i>	(Optional) Total Misses
<i>io_hits</i>	(Optional) In-Out Hits
<i>io_misses</i>	(Optional) In-Out Misses

<i>oi_hits</i>	(Optional) Out-In Hits
<i>oi_misses</i>	(Optional) Out-In Misses
<i>total_sw_translated</i>	(Optional) Total SW Translated Packets
<i>io_sw_translated</i>	(Optional) In-Out SW Translated Packets
<i>oi_sw_translated</i>	(Optional) Out-In SW Translated Packets
<i>total_sw_dropped</i>	(Optional) Total SW Dropped Packets
<i>io_sw_dropped</i>	(Optional) In-Out SW Dropped Packets
<i>oi_sw_dropped</i>	(Optional) Out-In SW Dropped Packets
<i>addr_alloc_fail_drop</i>	(Optional) Address alloc. failure dropped Packets
<i>port_alloc_fail_drop</i>	(Optional) Port alloc. failure dropped Packets
<i>dyn_trans_maxlimit_drop</i>	(Optional) Dyn. Translation max limit dropped Packets
<i>icmp_maxlimit_drop</i>	(Optional) ICMP max limit dropped Packets
<i>allhost_maxlimit_drop</i>	(Optional) Allhost max limit dropped Packets
<i>total_tcp_session_created</i>	(Optional) Total tcp session created
<i>total_tcp_session_closed</i>	(Optional) Total tcp session closed
<i>Total_NAT_inside_interfaces</i>	(Optional) Number of NAT inside interfaces
TABLE_NAT_inside_interfaces	(Optional) NAT inside interfaces
<i>nat_inside_interfaces</i>	(Optional) NAT Inside Interfaces
<i>Total_NAT_outside_interfaces</i>	(Optional) Number of NAT outside interfaces
TABLE_NAT_outside_interfaces	(Optional) NAT outside interfaces
<i>nat_outside_interfaces</i>	(Optional) NAT Outside Interfaces
TABLE_NAT_inside_source_list	(Optional) NAT Inside source list
TABLE_NAT_outside_source_list	(Optional) NAT Outside source list
<i>nat_in_acl_name</i>	(Optional) NAT inside access list name
<i>nat_out_acl_name</i>	(Optional) NAT outside access list name
<i>nat_in_acl_refcount</i>	(Optional) NAT inside access list ref. count
<i>nat_out_acl_refcount</i>	(Optional) NAT outside access list ref. count
<i>nat_in_pool_name</i>	(Optional) NAT inside Pool name
<i>nat_out_pool_name</i>	(Optional) NAT outside Pool name

<i>nat_pool_overload</i>	(Optional) NAT Pool overload
<i>in_pool_total_address</i>	(Optional) Total address in the inside pool
<i>out_pool_total_address</i>	(Optional) Total address in the outside pool
<i>in_pool_allocated</i>	(Optional) Total address allocated in the inside pool
<i>out_pool_allocated</i>	(Optional) Total address allocated in the outside pool
<i>in_pool_missed</i>	(Optional) Total failed address allocation in the inside pool
<i>out_pool_missed</i>	(Optional) Total failed address allocation in the outside pool
<i>interface_name</i>	(Optional) NAT source list interface name
<i>interface_status</i>	(Optional) NAT source list interface status
<i>interface_ip_addr</i>	(Optional) NAT source list interface addr

Command Mode

- /exec

show ip nat timeout

```
show ip nat timeout [ __readonly__ <tcp_timeout> <udp_timeout> [ <icmp_timeout> ] <dynamic_timeout>
[ <sampling_timeout> ] [ <syn_timeout> ] [ <finrst_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>icmp_timeout</i>	(Optional) ICMP Timeout
<i>dynamic_timeout</i>	(Optional) Dynamic Timeout
<i>sampling_timeout</i>	(Optional) Sampling Timeout
<i>syn_timeout</i>	(Optional) SYN Timeout
<i>finrst_timeout</i>	(Optional) FINRST Timeout

Command Mode

- /exec

show ip nat translations

```
show ip nat translations [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ verbose ] [ internal-detail ] [
__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> ] [ <VRF> ] [ <In_stats_count> ] [ <Out_stats_count> ] [ <Group_id> ] [ <Time_left>
] [ <Syn> ] [ <Fin_rst> ] [ <Flags> ] [ <Entry_id> ] [ <State> ] } ]
```

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
all	(Optional) Display all vrfs
internal-detail	(Optional) Display internal debugs
<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
<i>Flags</i>	(Optional) Flags

<i>In_stats_count</i>	(Optional) In stats count
<i>Out_stats_count</i>	(Optional) Out stats count
<i>Entry_id</i>	(Optional) Entry ID
<i>State</i>	(Optional) State
<i>Group_id</i>	(Optional) Group ID
<i>VRF</i>	(Optional) VRF
<i>Time_left</i>	(Optional) Time Left (HH:MM:SS)
<i>Syn</i>	(Optional) Syn
<i>Fin_rst</i>	(Optional) FIN RESET

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_id_type> ] [ <domain_id_value> ] [ <domain_tag> ] [
<dn_bit_ignore> ] <stateful_ha> <gr_ha> [ <gr_planned_only> ] [ <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> ] [ {
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> [ <name_lookup> ] <no_discard_rt_ext> <no_discard_rt_int> [ <passive_dflt>
] [ <bfd_enabled> ] [ <segrt_configured> ] [ <segrt_enabled> ] [ { <srgb_min_label> <srgb_max_label> } ]
[ { 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> [ { <area_segrt_configured> | <area_segrt_disabled_by_config> } ] [
<area_segrt_enabled> ] <spf_runs> <last_spf_run_time> [ 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_id_type</i>	(Optional)
<i>domain_id_value</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_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>name_lookup</i>	(Optional)
<i>no_discard_rt_ext</i>	(Optional)
<i>no_discard_rt_int</i>	(Optional)
<i>passive_dflt</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>segrt_configured</i>	(Optional)
<i>segrt_enabled</i>	(Optional)
<i>srgb_min_label</i>	(Optional)
<i>srgb_max_label</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>area_segrt_configured</i>	(Optional)
<i>area_segrt_disabled_by_config</i>	(Optional)
<i>area_segrt_enabled</i>	(Optional)
<i>spf_runs</i>	(Optional)
<i>last_spf_run_time</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

show ip ospf border-routers

```
show ip ospf [ <tag> ] border-routers [ 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
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
border-routers	Border routers
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_br	(Optional)
<i>type</i>	(Optional)
<i>addr</i>	(Optional)
<i>cost</i>	(Optional)
<i>asbr</i>	(Optional)
<i>abr</i>	(Optional)
<i>area</i>	(Optional)
<i>spf_inst</i>	(Optional)
<i>vlink_unresolved</i>	(Optional)
TABLE_br_ubest_nh	(Optional)

<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
[ type { router-information | ext-prefix | ext-link } ] | nssa-external ] [ area <area-id-ip> ] ] | external [ ext_tag
<tag_val> ] | opaque-as ] [ <lsid> ] [ self-originated | adv-router <advid> | 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> ] [ <prefix> ] [
<prefix_mask> ] [ <srgb_base> ] [ <srgb_range> ] [ <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>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>ext_tag</i>	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
<i>type</i>	(Optional) Opaque type
<i>router-information</i>	(Optional) Router Information (RI) Opaque LSA
<i>ext-prefix</i>	(Optional) Extended Prefix Opaque LSA
<i>ext-link</i>	(Optional) Extended Link Opaque LSA
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>TABLE_ctx</i>	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>TABLE_db2_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>cksum</i>	(Optional)
<i>opaque_id</i>	(Optional)
<i>prefix</i>	(Optional)
<i>prefix_mask</i>	(Optional)
<i>srgb_base</i>	(Optional)
<i>srgb_range</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
[ type { router-information | ext-prefix | ext-link } ] | nssa-external ] [ area <area-id-ip> ] ] | external [ ext_tag
<tag_val> ] | opaque-as ] [ <lsid> ] [ self-originated | adv-router <advid> | adv-router-name <adv-name> ]
detail [ private ] [ 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_type_str> ] [ <opaque_id> ] [ <prefix> ] [ <prefix_mask> ] [ <srgb_base> ] [ <srgb_range> ]
<advtr> <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
<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>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
type	(Optional) Opaque type
router-information	(Optional) Router Information (RI) Opaque LSA
ext-prefix	(Optional) Extended Prefix Opaque LSA
ext-link	(Optional) Extended Link Opaque LSA
detail	Display LSA in detail
private	(Optional) Developer-only statistics
<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>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_type_str</i>	(Optional)
<i>opaque_id</i>	(Optional)
<i>prefix</i>	(Optional)
<i>prefix_mask</i>	(Optional)
<i>srgb_base</i>	(Optional)
<i>srgb_range</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 | segrt }

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
segrt	Segment Routing 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 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> ] [ <dc_enabled> ] [ <sid_index> ] [ <sid_n_flag_clear> ] [ <sid_exp_null>
] <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> ] [ <lsu_timer> ]
[ <lsack_timer> ] [ <auth_type> ] [ <keychain_name> ] [ <keychain_ready> ] [ <auth_md5_keyid> ] [
<auth_keyid> ] [ <auth_algo> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <multi_area_cnt> ] [ <multi_area_adj>
] ] ]
```

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>dc_enabled</i>	(Optional)
<i>sid_index</i>	(Optional)
<i>sid_n_flag_clear</i>	(Optional)
<i>sid_exp_null</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>lsu_timer</i>	(Optional)
<i>lsack_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)
<i>multi_area_cnt</i>	(Optional)
<i>multi_area_adj</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

show ip ospf lsa-content-changed-list

```
show ip ospf [ <tag> ] lsa-content-changed-list { <ip-addr> | <neighbor-name> } <interface> [ __readonly__
[ TABLE_ctx <ptag> <cname> [ TABLE_lschg <nbr_rid> <intf> <nbr_addr> [ TABLE_lsa [ <type> ] [
<lsid> ] [ <advrtr> ] [ <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
lsa-content-changed-list	LSAs that changed contents
<i>interface</i>	OSPF enabled interface
<i>ip-addr</i>	Neighbor router ID
<i>neighbor-name</i>	DNS Name of the neighbor
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_lschg	(Optional)
<i>nbr_rid</i>	(Optional)
<i>intf</i>	(Optional)
<i>nbr_addr</i>	(Optional)
TABLE_lsa	(Optional)
<i>type</i>	(Optional)
<i>lsid</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>age</i>	(Optional)

Command Mode

show ip ospf lsa-content-changed-list

- /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> ] <hellooptions> <dbdoptions> <lastnonhello> [ <deadtimer>
] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer>
] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq>
] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [ <sendlsreqreply> ] [ <sradsjsid> ] [ <sradjflags> ] ] ]
```

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>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>paddingtimer</i>	(Optional)
<i>bdrxmtimer</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>dc</i>	(Optional)
<i>sradjsid</i>	(Optional)
<i>sradjflags</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

<code>in</code>	Filter networks sent to this area
<code>out</code>	Filter networks sent from this area
<code>__readonly__</code>	(Optional)
<code>ptag</code>	(Optional)
<code>TABLE_ctx</code>	(Optional)
<code>cname</code>	(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> ] [
<advrtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
request-list	Link state request list
interface	OSPF enabled interface
ip-addr	Neighbor router ID
neighbor-name	DNS Name of the neighbor
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_lsreq	(Optional)
nbr_rid	(Optional)
intf	(Optional)
nbr_addr	(Optional)
total	(Optional)
TABLE_lsa	(Optional)
type	(Optional)
lsid	(Optional)
advrtr	(Optional)
seqno	(Optional)
cksum	(Optional)
age	(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 ] ] [ detail ] [ all_routes ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ <hdr_addr> ] [
<hdr_masklen> ] [ TABLE_route <addr> <masklen> <type> [ <in_ulib> ] <in_rib> <direct> [ <area> ] [
<tag> ] [ <sid> ] [ <in_label> ] [ <vlink_unresolved> ] [ TABLE_route_ubest_nh [ <ubest_nh_addr> ] [
<ubest_nh_intf> ] [ <ubest_cost> ] [ <distance> ] [ <ubest_nh_direct> ] [ <ubest_nh_sham_link> ] [
<ubest_nh_te_tun> ] [ <ubest_nh_in_rib> ] [ <out_label> ] [ <lsa> ] ] [ 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
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
ip-addr	(Optional) Show single OSPF route
ip-prefix	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
detail	(Optional) Detailed information
all_routes	(Optional) Display all OSPF routes
tag	(Optional)
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
hdr_addr	(Optional)
hdr_masklen	(Optional)

TABLE_route	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>type</i>	(Optional)
<i>in_ulib</i>	(Optional)
<i>in_rib</i>	(Optional)
<i>direct</i>	(Optional)
<i>area</i>	(Optional)
<i>sid</i>	(Optional)
<i>in_label</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_sham_link</i>	(Optional)
<i>ubest_nh_te_tun</i>	(Optional)
<i>ubest_nh_in_rib</i>	(Optional)
<i>out_label</i>	(Optional)
<i>lsa</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 segment-routing adj-sid-database

```
show ip ospf [ <tag> ] segment-routing adj-sid-database [ detail ] [ __readonly__ TABLE_ctx <rid> <ptag>
<cname> [ { TABLE_segrt_adj_sid_db <sid_val> <nbr_id> <nbr_addr> <intf> [ <flags> ] [ <lsa> } ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
segment-routing	Segment-Routing information
adj-sid-database	Adjacency SID Database
detail	(Optional) Detailed Information
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_segrt_adj_sid_db	(Optional)
<i>sid_val</i>	(Optional)
<i>nbr_id</i>	(Optional)
<i>nbr_addr</i>	(Optional)
<i>intf</i>	(Optional)
<i>flags</i>	(Optional)
<i>lsa</i>	(Optional)

Command Mode

- /exec

show ip ospf segment-routing global-block

```
show ip ospf [ <tag> ] segment-routing global-block [ <adv-rtr> ] [ detail ] [ __readonly__ TABLE_ctx <rid>
<ptag> <cname> [ { TABLE_segrt_global_block <area> <adv_router_id> <SR_capable> <SR_algo>
<SRGB_base> <SRGB_range> [ <ril_area> ] [ <lsa> } ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
segment-routing	Segment-Routing information
global-block	Global Block
<i>adv-rtr</i>	(Optional) Advertising Router ID
detail	(Optional) Detailed Information
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_segrt_global_block	(Optional)
<i>adv_router_id</i>	(Optional)
<i>SR_capable</i>	(Optional)
<i>SR_algo</i>	(Optional)
<i>SRGB_base</i>	(Optional)
<i>SRGB_range</i>	(Optional)
<i>area</i>	(Optional)
<i>ril_area</i>	(Optional)
<i>lsa</i>	(Optional)

Command Mode

- /exec

show ip ospf segment-routing sid-database

```
show ip ospf [ <tag> ] segment-routing sid-database [ <sid-id> ] [ detail ] [ __readonly__ TABLE_ctx <rid>
<ptag> <cname> [ { TABLE_segrt_sid_db <sid_val> <prefix> <prefix_mask> <own_prefix> [
<adv_rtr_vtx_reachable> ] [ <sid_conflict> ] [ <area> ] [ <route_type> ] [ <pfx_flags> ] [ <sid_flags> ] [
<lsa> ] [ <lsa_ref_count> } } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
segment-routing	Segment-Routing information
sid-database	SID Database
<i>sid-id</i>	(Optional) SID value
detail	(Optional) Detailed Information
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_segrt_sid_db	(Optional)
<i>sid_val</i>	(Optional)
<i>prefix</i>	(Optional)
<i>prefix_mask</i>	(Optional)
<i>own_prefix</i>	(Optional)
<i>adv_rtr_vtx_reachable</i>	(Optional)
<i>sid_conflict</i>	(Optional)
<i>area</i>	(Optional)
<i>route_type</i>	(Optional)
<i>pfx_flags</i>	(Optional)

<i>sid_flags</i>	(Optional)
<i>lsa</i>	(Optional)
<i>lsa_ref_count</i>	(Optional)

Command Mode

- /exec

show ip ospf sham-links

```
show ip ospf [ <tag> ] sham-links [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_slink <name> <if_state> [ <unnumbered> ] <addr> [ <masklen> ] [ <parent_intf>
] <area> [ <if_cfg> ] <state_str> <type_str> <cost> [ <bfd_enabled> ] [ <ldp_sync> ] [ <dc_enabled> ] [
<sid_index> <sid_n_flag_clear> <sid_exp_null> ] <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>
] [ <lsu_timer> ] [ <lsack_timer> ] <auth_type> [ <keychain_name> <keychain_ready> ] [ <auth_md5_keyid>
] [ <auth_keyid> <auth_algo> ] <link_lsa_cnt> <link_lsa_crc> ] [ <dest_ip> ] [ 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> ] [ <pacingtmer> ] [ <dbdrxmtimer>
] [ <reqrxtimer> ] [ <lsutimer> ] [ <rerxmtimer> ] [ <fastrextimer> ] [ <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
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
sham-links	Sham link information
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_slink	(Optional)
name	(Optional)
if_state	(Optional)
unnumbered	(Optional)
addr	(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>dc_enabled</i>	(Optional)
<i>sid_index</i>	(Optional)
<i>sid_n_flag_clear</i>	(Optional)
<i>sid_exp_null</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>lsu_timer</i>	(Optional)
<i>lsack_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)
<i>dest_ip</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>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>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 sham-links brief

```
show ip ospf [ <tag> ] sham-links brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <count> [ TABLE_slink <src_ip> <dest_ip> <ifnum> <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
sham-links	Sham link information
brief	Display summary of OSPF sham links
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>count</i>	(Optional)
TABLE_slink	(Optional)
<i>src_ip</i>	(Optional)
<i>dest_ip</i>	(Optional)
<i>ifnum</i>	(Optional)
<i>area</i>	(Optional)
<i>cost</i>	(Optional)
<i>if_state</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_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> <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
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>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>
[ <pkt_no_vrf> ] [ <bad_reserved> ] <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)
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 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>lsregrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)

<i>lastmonhello</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 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)
<i>TABLE_vrf</i>	(Optional)
<i>out-context</i>	(Optional)
<i>TABLE_RP</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>rperr-count</i>	(Optional)
<i>rp-interface</i>	(Optional)
<i>rp-error</i>	(Optional)
<i>TABLE_ANYCAST</i>	(Optional)
<i>configure-as-RP</i>	(Optional)
<i>arperr-count</i>	(Optional)
<i>anycastrp-addr</i>	(Optional)
<i>arp-interface</i>	(Optional)
<i>arp-error</i>	(Optional)
<i>TABLE_MEMBER</i>	(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

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 host-proxy

show ip pim host-proxy [__readonly__ TABLE_intf <intf-name>]

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
host-proxy	host-proxy
__readonly__	(Optional)
TABLE_intf	(Optional)
<i>intf-name</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> ] [ <ecmp-redirect-sent> ] [ <ecmp-redirect-rcvd> ] ] ] ]
```

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>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-passive</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)
<i>ecmp-redirect-sent</i>	(Optional)
<i>ecmp-redirect-recv</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> ] [ <ecmp-redirect-capable> ] ] ] ]
```

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)
<i>ecmp-redirect-capable</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> } ] [ <sgr-prune-list-count> ] [ { TABLE_sgrprunelist <sgrprunelstoif-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
__readonly__	(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_immediatettimeoutlist	(Optional)
<i>immediatettimeoutoif-name</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
TABLE_sgrprunelist	(Optional)
<i>sgrprunelisoif-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_vrf <vrf_name_stats> { TABLE_routemap <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
pim	PIM global configuration commands
policy	Policy related information
statistics	Policy statistics
register-policy	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_vrf	(Optional)
<i>vrf_name_stats</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 policy statistics jp

```
show ip pim policy statistics { jp-policy | neighbor-policy } <interface> [ __readonly__ { TABLE_routemap
<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
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 [ [ <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> ] [ <intf-name> ] [ <rpf-nbr-1> ] [ <rpf-nbr-addr> ] [ <intf-name-2> ]
[ <rpf-nbr-2> ] [ <uptime> ] [ <is-attached> ] [ <is-static> ] [ <zero-nonpim-oifs> ] [ <is-external> ] [
<otv-decap> ] [ <otv-router-mode> ] [ <non-dr-oifs-only> ] [ <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>
] [ <sg-prune-list-count> ] [ <sg-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>	(Optional) Group address to display
<i>source</i>	(Optional) 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>intf-name</i>	(Optional)
<i>rpf-nbr-1</i>	(Optional)
<i>rpf-nbr-addr</i>	(Optional)
<i>intf-name-2</i>	(Optional)
<i>rpf-nbr-2</i>	(Optional)
<i>uptime</i>	(Optional)
<i>is-attached</i>	(Optional)
<i>is-static</i>	(Optional)
<i>zero-nonpim-oifs</i>	(Optional)
<i>is-external</i>	(Optional)
<i>otv-decap</i>	(Optional)
<i>otv-router-mode</i>	(Optional)
<i>non-dr-oifs-only</i>	(Optional)
<i>data-created</i>	(Optional)
<i>mdt-encap</i>	(Optional)
<i>mdt-decap</i>	(Optional)
<i>vxlan-decap</i>	(Optional)
<i>vxlan-encap</i>	(Optional)
<i>sw-pkts</i>	(Optional)
<i>sw-bytes</i>	(Optional)
<i>hw-pkts</i>	(Optional)
<i>hw-bytes</i>	(Optional)

<i>rpf-src</i>	(Optional)
<i>mrrib-rpf-notify</i>	(Optional)
<i>add-pending</i>	(Optional)
<i>aged-route</i>	(Optional)
<i>sg-expiry-cfg</i>	(Optional)
<i>jp-holdtime</i>	(Optional)
<i>route-metric-internal</i>	(Optional)
<i>metric-pref-internal</i>	(Optional)
<i>delay-register-stop</i>	(Optional)
<i>register-stop-rcvd</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>add-pending</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-learnt> ] [ <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
__readonly__	(Optional)
<i>out-context</i>	(Optional)
<i>rp-found</i>	(Optional)
<i>is-rp-bsr-learnt</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>is_autorp_source</i>	(Optional)

<i>is_bsr_source</i>	(Optional)
<i>is_static_source</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> <count> <table-id> <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_mode <isolate-mode> <mmode> [ TABLE_inst <inst-name> TABLE_vrf [ <vrf> ]
<rip-shut-globally-in-this-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_mode	(Optional)
<i>isolate-mode</i>	(Optional)
<i>mmode</i>	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>rip-shut-globally-in-this-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 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-state> ] [ <last-response-sent> ] [
<last-response-rcvd-state> ] [ <last-response-rcvd> ] [ <last-request-sent-state> ] [ <last-request-sent> ] [
<last-request-rcvd-state> ] [ <last-request-rcvd> ] <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 <asn> | { eigrp | isis | <src-rip> | ospf } <tag>
| direct | static } [ 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
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
__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_rmap	(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
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 the policy
<i>total_reject_count</i>	(Optional) Total number of packets rejected by the policy

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_issummary <is-summary> [ TABLE_route <rt-prefix> <rt-mask>
<rt-numnh> <best-route> [ TABLE_nexthop [ <nh-addr> ] [ <nh-interface> ] [ <nh-metric> ] [ <nh-tag> ] [
<nh-direct> ] [ <nh-redistrib> ] [ <nh-state> ] [ <nh-state-timer> ] ] ] [ TABLE_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
<u>__readonly__</u>	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_issummary	(Optional)
<i>is-summary</i>	(Optional)

TABLE_route	(Optional)
<i>rt-prefix</i>	(Optional)
<i>rt-mask</i>	(Optional)
<i>rt-nummh</i>	(Optional)
<i>best-route</i>	(Optional)
TABLE_nexthop	(Optional)
<i>nh-addr</i>	(Optional)
<i>nh-interface</i>	(Optional)
<i>nh-metric</i>	(Optional)
<i>nh-tag</i>	(Optional)
<i>nh-direct</i>	(Optional)
<i>nh-redistrib</i>	(Optional)
<i>nh-state</i>	(Optional)
<i>nh-state-timer</i>	(Optional)
TABLE_summary	(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 route

```
show ip route [ ip | ipv4 ] [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ip-addr> | {
<ip-prefix> [ { longer-prefixes | shorter-prefixes } ] } ] [ { <protocol> [ all ] } ] { bind-label <bind-lbl> |
next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [ since <stime>
] [ until <utime> ] } } ] + [ summary | detail ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [
__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <uicast-nhops>
<mcast-nhops> <attached> TABLE_path [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl>
] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ] [ <hidden> ] [
<stale-label> ] [ <bgpbackuppath> ] [ <ubest> ] [ <mbest> ] ] [ TABLE_summary <routes> <paths> [
<multicast_paths> ] [ TABLE_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE_route_count [
<mask_len> ] [ <count> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
route	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
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
l3vm-info	(Optional) Display corresponding L3VM information
rpf	(Optional) Display RPF information for multicast source
<i>ip-addr</i>	(Optional) Display single route longest match lookup
<i>ip-prefix</i>	(Optional) Display single exact match route
longer-prefixes	(Optional) Display matching routes with mask-lengths >= prefix
shorter-prefixes	(Optional) Display matching routes with mask-lengths <= prefix
<i>protocol</i>	(Optional) Display routes for protocol (or route type)
all	(Optional) Display routes for protocol for backup next-hops too

bind-label	(Optional) Display routes with this bind-label only
<i>bind-lbl</i>	(Optional) Binding label
next-hop	(Optional) Display routes with this next-hop only
<i>next-hop</i>	(Optional) Next hop address
next-hop-v6	(Optional) Display routes with this V6 next-hop only
interface	(Optional) Display routes with this output interface only
<i>interface</i>	(Optional) Interface Name
updated	(Optional) Display routes filtered by last updated time
since	(Optional) Display those routes updated since this time
<i>stime</i>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
until	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
summary	(Optional) Display route counts
detail	(Optional) Display routes in full detail
<u>__readonly__</u>	(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>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ipnexthop</i>	(Optional)
<i>nexthop-vrf-name</i>	(Optional)
<i>ifname</i>	(Optional)
<i>bindlbl</i>	(Optional)

<i>uptime</i>	(Optional)
<i>pref</i>	(Optional)
<i>metric</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)
<i>bgpbackuppath</i>	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
TABLE_summary	(Optional)
<i>routes</i>	(Optional)
<i>paths</i>	(Optional)
<i>multicast_paths</i>	(Optional)
TABLE_unicast	(Optional)
<i>clientnameuni</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientnamemulti</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_route_count	(Optional)
<i>mask_len</i>	(Optional)
<i>count</i>	(Optional)

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 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> <rttMonApplReset> [ <rttMonApplTimeOfLastSet> ] ]
```

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>feature-name</i>	(Optional)
<i>lowmemorymark</i>	(Optional)
<i>max-entries</i>	(Optional)
<i>probe-cap</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>rttMonApplReset</i>	(Optional) Appl Reset
<i>rttMonApplTimeOfLastSet</i>	(Optional)

Command Mode

- /exec

show ip sla configuration

```
show ip sla configuration [ <entry-num> ] [ __readonly__ { TABLE_configuration [ <index> ] [ <owner> ]
[ <tag> ] [ <timeout> ] [ <oper-type> ] [ <dest-ip> ] [ <source-int> ] [ <source-ip> ] [ <dest-port> ] [
<source-port> ] [ <dns-source-port> ] [ <traffic-class> ] [ <tos> ] [ <dns-name-server> ] [ <flow-label> ] [
<switch-id> ] [ <profile-id> ] [ <interface> ] [ <packet-size> ] [ <packet-interval> ] [ <num-packets> ] [
<codec-type> ] [ <codec-num-packets> ] [ <codec-packet-size> ] [ <codec-packet-interval> ] [
<codec-adv-factor> ] [ <verify-data> ] [ <data-pattern> ] [ <precision> ] [ <packet-priority> ] [
<ntp-sync-tolerance> ] [ <ntp-sync-to-type> ] [ <vrf-name> ] [ <control-enabled> ] [ <http-oper> ] [
<http-version> ] [ <url> ] [ <proxy> ] [ <raw-strings> ] [ <cache-control> ] [ <http-vrf-name> ] [ <http-owner>
] [ <http-tag> ] [ <http-timeout> ] [ <frequency> ] [ <secondary-freq-timeout> ] [ <secondary-freq-loss> ] [
<next-start-time> ] [ <group-scheduled> ] [ <randomly-scheduled> ] [ <low-frequency> ] [ <high-frequency>
] [ <life> ] [ <ageout> ] [ <recurring> ] [ <status-of-entry> ] [ <threshold> ] [ <hours> ] [ <buckets> ] [
<interval> ] [ <einterval> ] [ <ebuckets> ] [ <lives> ] [ <hsbuckets> ] [ <filter> ] }
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
configuration	IP SLA configurtaion
<i>entry-num</i>	(Optional) Entry Number
<i>__readonly__</i>	(Optional)
TABLE_configuration	(Optional) show ip sla configuration information
<i>index</i>	(Optional)
<i>owner</i>	(Optional)
<i>tag</i>	(Optional)
<i>timeout</i>	(Optional)
<i>oper-type</i>	(Optional)
<i>dest-ip</i>	(Optional)
<i>source-int</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>tos</i>	(Optional)
<i>dns-name-server</i>	(Optional)
<i>flow-label</i>	(Optional)
<i>profile-id</i>	(Optional)
<i>switch-id</i>	(Optional)
<i>interface</i>	(Optional)
<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>data-pattern</i>	(Optional)
<i>precision</i>	(Optional)
<i>packet-priority</i>	(Optional)
<i>ntp-sync-tolerance</i>	(Optional)
<i>ntp-sync-toltype</i>	(Optional)
<i>vrf-name</i>	(Optional)
<i>control-enabled</i>	(Optional)
<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)
<i>http-vrf-name</i>	(Optional)

<i>http-owner</i>	(Optional)
<i>http-tag</i>	(Optional)
<i>http-timeout</i>	(Optional)
<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)
<i>threshold</i>	(Optional)
<i>hours</i>	(Optional)
<i>buckets</i>	(Optional)
<i>interval</i>	(Optional)
<i>einterval</i>	(Optional)
<i>ebuckets</i>	(Optional)
<i>lives</i>	(Optional)
<i>hsbuckets</i>	(Optional)
<i>filter</i>	(Optional)

Command Mode

- /exec

show ip sla enhanced-history collection-statistics

```
show ip sla enhanced-history collection-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ [ { TABLE_generic [ <entry-num> ] [ <aggregate-interval> ] [ { TABLE_bkt [ <bkt-index> ]
[ <agg-sti> ] [ <tgt-addr> ] [ <oper-type> ] [ <nofod> ] [ <nofot> ] [ <nofob> ] [ <nofonc> ] [ <nofoie> ] [
<nofose> ] [ <nofove> ] [ <ntp-state> ] [ <icpif> ] [ <mos-score> ] [ <rtt-values> ] [ <num-rtt> ] [ <rtt-avg>
] [ <rtt-min> ] [ <rtt-max> ] [ <rtt-sum> ] [ <rtt-sum2> ] [ <num-out-sync-rtt> ] [ <plsd> ] [ <plds> ] [ <pos>
] [ <pl-mia> ] [ <pla> ] [ <int-err> ] [ <busies> ] [ <pkt-skipped> ] [ <jitter-value-precision> ] [ <min-pos-sd>
] [ <max-pos-sd> ] [ <num-pos-sd> ] [ <sum-pos-sd> ] [ <sum2-pos-sd> ] [ <min-neg-sd> ] [ <max-neg-sd>
] [ <num-neg-sd> ] [ <sum-neg-sd> ] [ <sum2-neg-sd> ] [ <min-pos-ds> ] [ <max-pos-ds> ] [ <num-pos-ds>
] [ <sum-pos-ds> ] [ <sum2-pos-ds> ] [ <min-neg-ds> ] [ <max-neg-ds> ] [ <num-neg-ds> ] [ <sum-neg-ds>
] [ <sum2-neg-ds> ] [ <jitter-avg> ] [ <jitter-sd-avg> ] [ <jitter-ds-avg> ] [ <inter-jit-out> ] [ <inter-jit-in> ]
[ <ow-precision> ] [ <num-ow> ] [ <ow-min-sd> ] [ <ow-max-sd> ] [ <ow-sum-sd> ] [ <ow-sum2-sd> ] [
<ow-min-ds> ] [ <ow-max-ds> ] [ <ow-sum-ds> ] [ <ow-sum2-ds> ] [ <avg-ow-sd> ] [ <avg-ow-ds> ] } ] [
<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)
TABLE_generic	(Optional) Show History Information
<i>entry-num</i>	(Optional)
<i>aggregate-interval</i>	(Optional)
TABLE_bkt	(Optional) Show bucket History Information
<i>bkt-index</i>	(Optional)
<i>agg-sti</i>	(Optional)
<i>tgt-addr</i>	(Optional)
<i>oper-type</i>	(Optional)
<i>nofod</i>	(Optional)

<i>nofot</i>	(Optional)
<i>nofob</i>	(Optional)
<i>nofonc</i>	(Optional)
<i>nofoie</i>	(Optional)
<i>nofose</i>	(Optional)
<i>nofove</i>	(Optional)
<i>ntp-state</i>	(Optional)
<i>icpif</i>	(Optional)
<i>mos-score</i>	(Optional)
<i>rtt-values</i>	(Optional)
<i>num-rtt</i>	(Optional)
<i>rtt-avg</i>	(Optional)
<i>rtt-min</i>	(Optional)
<i>rtt-max</i>	(Optional)
<i>rtt-sum</i>	(Optional)
<i>rtt-sum2</i>	(Optional)
<i>num-out-sync-rtt</i>	(Optional)
<i>plsd</i>	(Optional)
<i>plds</i>	(Optional)
<i>pos</i>	(Optional)
<i>pl-mia</i>	(Optional)
<i>pla</i>	(Optional)
<i>int-err</i>	(Optional)
<i>busies</i>	(Optional)
<i>pkt-skipped</i>	(Optional)
<i>jitter-value-precision</i>	(Optional)
<i>min-pos-sd</i>	(Optional)
<i>max-pos-sd</i>	(Optional)
<i>num-pos-sd</i>	(Optional)

<i>sum-pos-sd</i>	(Optional)
<i>sum2-pos-sd</i>	(Optional)
<i>min-neg-sd</i>	(Optional)
<i>max-neg-sd</i>	(Optional)
<i>num-neg-sd</i>	(Optional)
<i>sum-neg-sd</i>	(Optional)
<i>sum2-neg-sd</i>	(Optional)
<i>min-pos-ds</i>	(Optional)
<i>max-pos-ds</i>	(Optional)
<i>num-pos-ds</i>	(Optional)
<i>sum-pos-ds</i>	(Optional)
<i>sum2-pos-ds</i>	(Optional)
<i>min-neg-ds</i>	(Optional)
<i>max-neg-ds</i>	(Optional)
<i>num-neg-ds</i>	(Optional)
<i>sum-neg-ds</i>	(Optional)
<i>sum2-neg-ds</i>	(Optional)
<i>jitter-avg</i>	(Optional)
<i>jitter-sd-avg</i>	(Optional)
<i>jitter-ds-avg</i>	(Optional)
<i>inter-jit-out</i>	(Optional)
<i>inter-jit-in</i>	(Optional)
<i>ow-precision</i>	(Optional)
<i>num-ow</i>	(Optional)
<i>ow-min-sd</i>	(Optional)
<i>ow-max-sd</i>	(Optional)
<i>ow-sum-sd</i>	(Optional)
<i>ow-sum2-sd</i>	(Optional)
<i>ow-min-ds</i>	(Optional)

<i>ow-max-ds</i>	(Optional)
<i>ow-sum-ds</i>	(Optional)
<i>ow-sum2-ds</i>	(Optional)
<i>avg-ow-sd</i>	(Optional)
<i>avg-ow-ds</i>	(Optional)
<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__ [ <hdr> ] [ { TABLE_generic [ <col1> ] [ <col2> ] [ <col3> ] } ] ]
```

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>hdr</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>col1</i>	(Optional)
<i>col2</i>	(Optional)
<i>col3</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__ [ <outstring> ] ] [ { TABLE_generic [ <index> ] [ <life-index> ] [ <bucket-index> ] [ <col1> ] [ <addr> ] [ <dest-id> ] [ <nsr> ] [ <st> ] [ <latest-rtt> ] [ <latest-ret-code> ] [ <col2> } } ] [ <error> ] ]
```

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>outstring</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>index</i>	(Optional)
<i>life-index</i>	(Optional)
<i>bucket-index</i>	(Optional)
<i>col1</i>	(Optional)
<i>addr</i>	(Optional)
<i>dest-id</i>	(Optional)
<i>nsr</i>	(Optional)
<i>st</i>	(Optional)
<i>latest-rtt</i>	(Optional)
<i>latest-ret-code</i>	(Optional)
<i>col2</i>	(Optional)
<i>error</i>	(Optional)

Command Mode

- /exec

show ip sla reaction-configuration

```
show ip sla reaction-configuration [ <entry-num> ] [ __readonly__ { TABLE_reaction [ <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>TABLE_reaction</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__ { TABLE_trigger [ <entry-number> ] [ <index> ] [ <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>TABLE_trigger</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>index</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__ <rttMonApplResponder> <gen-enabled> [ <ctrl-msg-count> ] [ <errors>
] [ <print-recent-hdr> ] [ { TABLE_recent [ <recent-addr> ] [ <recent-time> ] } ] [ <print-recent-err-hdr> ] [
{ TABLE_recent_error [ <recent-error> ] } ] <perm-enabled> [ { TABLE_permanent_udp [ <print-udp-hdr>
] [ <address> ] [ <port> ] } ] [ { TABLE_permanent_tcp [ <print-tcp-hdr> ] [ <address> ] [ <port> ] } ] ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
responder	IP SLAs Responder Information
<i>__readonly__</i>	(Optional)
<i>rttMonApplResponder</i>	(Optional) rttMonApplResponder
<i>gen-enabled</i>	(Optional)
<i>ctrl-msg-count</i>	(Optional)
<i>errors</i>	(Optional)
<i>print-recent-hdr</i>	(Optional)
TABLE_recent	(Optional) Show recent control message information
<i>recent-addr</i>	(Optional)
<i>recent-time</i>	(Optional)
<i>print-recent-err-hdr</i>	(Optional)
TABLE_recent_error	(Optional) Show recent control error information
<i>recent-error</i>	(Optional)
<i>perm-enabled</i>	(Optional)
TABLE_permanent_udp	(Optional) Show UDP permanent port/address information
<i>print-udp-hdr</i>	(Optional)
<i>address</i>	(Optional)
<i>port</i>	(Optional)
TABLE_permanent_tcp	(Optional) Show TCP permanent port/address information
<i>print-tcp-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__ <print_type> ] [ { TABLE_stats
[ <index> ] [ <top> ] [ { TABLE_detail [ <sti> ] [ <operation-type> ] [ <MINICPIF> ] [ <MAXICPIF> ] [
<MINMOS> ] [ <MAXMOS> ] [ <update-count> ] [ <micro-accuracy> ] [ <nano-accuracy> ] [ <latest-RTT>
] [ <latest-return-code> ] [ <latest-start-time> ] [ <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> ] [ <ntp-sync-state> ] [ <rtt-count>
] [ <rtt-min> ] [ <rtt-avg> ] [ <rtt-max> ] [ <lat-ow-samples> ] [ <sd-lat-ow-min> ] [ <sd-lat-ow-avg> ] [
<sd-lat-ow-max> ] [ <ds-lat-ow-min> ] [ <ds-lat-ow-avg> ] [ <ds-lat-ow-max> ] [ <sd-lat-sum> ] [
<sd-lat-sum2> ] [ <ds-lat-sum> ] [ <ds-lat-sum2> ] [ <sd-jitter-count> ] [ <ds-jitter-count> ] [ <sd-jitter-min>
] [ <sd-jitter-avg> ] [ <sd-jitter-max> ] [ <ds-jitter-min> ] [ <ds-jitter-avg> ] [ <ds-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-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> ] [
<inter-jitter-out> ] [ <inter-jitter-in> ] [ <jitter-avg> ] [ <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> ] [ <dnobs> ] [ <dmam> ] [ <dtoos> ] [ <dmin>
] [ <dmax> ] [ <pnoobs> ] [ <pnmam> ] [ <ptoo> ] [ <pmim> ] [ <pmam> ] [ <nnoobs> ] [ <nmam> ] [ <ntoo> ]
[ <nmin> ] [ <nmax> ] [ <outstring1> ] [ <outstring2> ] [ <nos> ] [ <nof> ] [ <noot> ] [ <nof1> ] [ <nof2>
] [ { TABLE_br [ <br> ] [ <avg-lat> ] [ <potc> ] [ <noc-by-lat> ] [ <sortthigh-by-low> ] [ <operot> } } ] ]
[ <life-left> ] [ <oper-state> ] [ <reset-time> ] [ <nob> ] [ <bbh> ] [ <bbv> } } ] ]
```

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
<u>__readonly__</u>	(Optional)
<i>print_type</i>	(Optional)
TABLE_stats	(Optional) Show ip sla statistics information
<i>index</i>	(Optional)

<i>top</i>	(Optional)
TABLE_detail	(Optional) Show ip sla statistics detail information
<i>sti</i>	(Optional)
<i>operation-type</i>	(Optional)
<i>MINICPIF</i>	(Optional)
<i>MAXICPIF</i>	(Optional)
<i>MINMOS</i>	(Optional)
<i>MAXMOS</i>	(Optional)
<i>update-count</i>	(Optional)
<i>micro-accuracy</i>	(Optional)
<i>nano-accuracy</i>	(Optional)
<i>latest-RTT</i>	(Optional)
<i>latest-return-code</i>	(Optional)
<i>latest-start-time</i>	(Optional)
<i>http-dns-rtt</i>	(Optional)
<i>http-tcp-rtt</i>	(Optional)
<i>http-ttfb</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)
<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-ow-min</i>	(Optional)
<i>sd-lat-ow-avg</i>	(Optional)
<i>sd-lat-ow-max</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-lat-sum</i>	(Optional)
<i>sd-lat-sum2</i>	(Optional)
<i>ds-lat-sum</i>	(Optional)
<i>ds-lat-sum2</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>ds-jitter-min</i>	(Optional)
<i>ds-jitter-avg</i>	(Optional)
<i>ds-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-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>inter-jitter-out</i>	(Optional)
<i>inter-jitter-in</i>	(Optional)
<i>jitter-avg</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>dnobs</i>	(Optional)
<i>dmam</i>	(Optional)
<i>dtoo</i>	(Optional)
<i>dmin</i>	(Optional)
<i>dmax</i>	(Optional)
<i>pnobs</i>	(Optional)
<i>pmam</i>	(Optional)
<i>ptoo</i>	(Optional)
<i>pmin</i>	(Optional)
<i>pmax</i>	(Optional)

<i>nnobs</i>	(Optional)
<i>nmam</i>	(Optional)
<i>ntoo</i>	(Optional)
<i>nmin</i>	(Optional)
<i>nmax</i>	(Optional)
<i>outstring1</i>	(Optional)
<i>outstring2</i>	(Optional)
<i>nos</i>	(Optional)
<i>nof</i>	(Optional)
<i>noot</i>	(Optional)
<i>nofo1</i>	(Optional)
<i>nofo2</i>	(Optional)
TABLE_br	(Optional) Bin range related info
<i>br</i>	(Optional)
<i>avg-lat</i>	(Optional)
<i>potc</i>	(Optional)
<i>noc-by-lat</i>	(Optional)
<i>sorthigh-by-low</i>	(Optional)
<i>operot</i>	(Optional)
<i>life-left</i>	(Optional)
<i>oper-state</i>	(Optional)
<i>reset-time</i>	(Optional)
<i>nob</i>	(Optional)
<i>bbh</i>	(Optional)
<i>bbv</i>	(Optional)

Command Mode

- /exec

show ip sla twamp connection detail

```
show ip sla twamp connection detail [ __readonly__ [ { TABLE_twamp-connection-detail <Connection-Id>
<Client-Addr> <Client-Port> <Client-VRF> <Mode> <Connection-state> <Control-state>
<Number-Of-Test-requests> } ] ]
```

Syntax Description

show	
ip	
sla	
twamp	
connection	
detail	
<i>__readonly__</i>	(Optional)
<i>TABLE_twamp-connection-detail</i>	(Optional) connection related info
<i>Connection-Id</i>	(Optional)
<i>Client-Addr</i>	(Optional)
<i>Client-Port</i>	(Optional)
<i>Client-VRF</i>	(Optional)
<i>Mode</i>	(Optional)
<i>Connection-state</i>	(Optional)
<i>Control-state</i>	(Optional)
<i>Number-Of-Test-requests</i>	(Optional)

Command Mode

- /exec

show ip sla twamp connection requests

```
show ip sla twamp connection requests [ __readonly__ [ { TABLE_twamp-connection-request <Connection-Id>
<Client-Addr> <Client-Port> <Client-VRF> } ] [ <Total-Connections> ] ]
```

Syntax Description

show	
ip	
sla	
twamp	
connection	
requests	
<i>__readonly__</i>	(Optional)
<i>TABLE_twamp-connection-request</i>	(Optional) connection requests related info
<i>Connection-Id</i>	(Optional)
<i>Client-Addr</i>	(Optional)
<i>Client-Port</i>	(Optional)
<i>Client-VRF</i>	(Optional)
<i>Total-Connections</i>	(Optional)

Command Mode

- /exec

show ip sla twamp session

```
show ip sla twamp session [ __readonly__ <twamp-resp-status> [ { TABLE_twamp-session [ <recv-addr> ]
[ <recv-port> ] [ <send-addr> ] [ <send-port> ] [ <send-vrf> ] [ <sess-id> ] [ <conn-id> ] } ] ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
twamp	IP SLAs Twamp Information
session	Display TWAMP Sessions
<i>__readonly__</i>	(Optional)
<i>twamp-resp-status</i>	(Optional)
TABLE_twamp-session	(Optional) session related information
<i>recv-addr</i>	(Optional)
<i>recv-port</i>	(Optional)
<i>send-addr</i>	(Optional)
<i>send-port</i>	(Optional)
<i>send-vrf</i>	(Optional)
<i>sess-id</i>	(Optional)
<i>conn-id</i>	(Optional)

Command Mode

- /exec

show ip sla twamp standards

```
show ip sla twamp standards [ __readonly__ [ { TABLE_twamp-standards <twamp-standard-feature>
<twamp-standard-org> <twamp-standard> } ] ]
```

Syntax Description

show	
ip	
sla	
twamp	
standards	
<i>__readonly__</i>	(Optional)
TABLE_twamp-standards	(Optional) twamp standards for each supported feature
<i>twamp-standard-feature</i>	(Optional)
<i>twamp-standard-org</i>	(Optional)
<i>twamp-standard</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 tcp mss

```
show ip tcp mss [ __readonly__ { <tcp-mss-value> } ]
```

Syntax Description

show	Show running system information
ip	Configure IP features
tcp	Global TCP parameters
mss	Maximum segment size for TCP connections in bytes
__readonly__	(Optional)
<i>tcp-mss-value</i>	(Optional) TCP Maximum Segment Size Value

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_ip telnet <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_ip telnet	(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_ip tftp <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_ip tftp	(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

TABLE_ip_soft_processed_traffic	(Optional)
TABLE_trans_and_reception	(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>ingress-mcecfwd</i>	(Optional)
TABLE_opts	(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-esec</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)
TABLE_errors	(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>vinci</i>	(Optional)
<i>snoop</i>	(Optional)
<i>svi</i>	(Optional)
<i>restart-recovery</i>	(Optional)
<i>mbuf-fail</i>	(Optional)
<i>bad-context</i>	(Optional)
<i>rpf-drops</i>	(Optional)
<i>bad-gw-mac</i>	(Optional)
<i>ing-ips-option-fail</i>	(Optional)
<i>nat-in-drop</i>	(Optional)
<i>nat-out-drop</i>	(Optional)
<i>ing-option-proc-fail</i>	(Optional)
<i>ing-mfrwd-fail</i>	(Optional)
<i>ing-lisp-drop</i>	(Optional)
<i>ing-lisp-decap-drop</i>	(Optional)
<i>ing-lisp-encap-drop</i>	(Optional)
<i>ing-lisp-encap</i>	(Optional)
<i>ing-mfwd-copy-drop</i>	(Optional)
<i>ing-ra-reass-drop</i>	(Optional)
<i>ing-icmp-redirect</i>	(Optional)
<i>ing-drop-ifmgr-init</i>	(Optional)

<i>ing-drop-invld-filter</i>	(Optional)
<i>ing-drop-invld-l2-msg</i>	(Optional)
<i>ingress</i>	(Optional)
<i>egrees</i>	(Optional)
<i>directed_bdcast</i>	(Optional)
TABLE_fragment	(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)
TABLE_icmp_software_proc_traffic	(Optional)
TABLE_transmission	(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>out-drop-badlen</i>	(Optional)
<i>encap-fail</i>	(Optional)
<i>xmit-fail</i>	(Optional)
<i>icmp-originate</i>	(Optional)
<i>redirect-originate-req</i>	(Optional)
<i>originate-deny</i>	(Optional)
<i>short-ip</i>	(Optional)
<i>old-icmp</i>	(Optional)
<i>error-drop</i>	(Optional)
TABLE_reception	(Optional)
<i>rx-redir</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>lisp-processed</i>	(Optional)

<i>lisp-noclient</i>	(Optional)
<i>lisp-consumed</i>	(Optional)
<i>icmp-replies</i>	(Optional)
<i>icmp-reply-drop</i>	(Optional)
<i>icmp-inactive-addr</i>	(Optional)
TABLE_stat_last_never	(Optional)
<i>stat-last-never</i>	(Optional)
TABLE_rfc4293_ip_soft_proc_traffic	(Optional)
TABLE_rfc_reception	(Optional)
<i>inrcv</i>	(Optional)
<i>inoctet</i>	(Optional)
<i>inhdrrr</i>	(Optional)
<i>innoroutes</i>	(Optional)
<i>inaddrerr</i>	(Optional)
<i>innoproto</i>	(Optional)
<i>intruncated</i>	(Optional)
<i>inforw</i>	(Optional)
<i>reasmreqds</i>	(Optional)
<i>reasmoks</i>	(Optional)
<i>reasmfails</i>	(Optional)
<i>indiscards</i>	(Optional)
<i>indelivers</i>	(Optional)
<i>inmcastpkts</i>	(Optional)
<i>inmcastbytes</i>	(Optional)
<i>inbaspkts</i>	(Optional)
TABLE_rfc_transmission	(Optional)
<i>out-req</i>	(Optional)
<i>out-no-route</i>	(Optional)
<i>out-forwdgrams</i>	(Optional)

<i>out-discards</i>	(Optional)
<i>out-frag-req</i>	(Optional)
<i>out-frag-oks</i>	(Optional)
<i>out-frag-fails</i>	(Optional)
<i>out-frag-create</i>	(Optional)
<i>out-transmits</i>	(Optional)
<i>byte-sent</i>	(Optional)
<i>out-mcast-pkts</i>	(Optional)
<i>out-mcast-bytes</i>	(Optional)
<i>out-bcast-pkts</i>	(Optional)
<i>out-bcast-bytes</i>	(Optional)

Command Mode

- /exec

show ip udp relay

```
show ip udp relay [ __readonly__ <udp_relay_service_enable> <udp_relay_hdr> [ { TABLE_default_ports
<port_name> <udp_relay_port_enable> } ] <udp_ports_hdr> [ TABLE_ports <udp_port_num> ]
<udp_intf_hdr> [ TABLE_intf <udp_intf_idx> <udp_sub_bcast> <udp_objgrp> ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
udp	Show items in UDP relay
relay	UDP relay
<i>__readonly__</i>	(Optional) Read only
<i>udp_relay_service_enable</i>	(Optional)
<i>udp_relay_hdr</i>	(Optional)
TABLE_default_ports	(Optional)
<i>port_name</i>	(Optional) UDP Port Name
<i>udp_relay_port_enable</i>	(Optional)
<i>udp_ports_hdr</i>	(Optional)
TABLE_ports	(Optional)
<i>udp_port_num</i>	(Optional)
<i>udp_intf_hdr</i>	(Optional)
TABLE_intf	(Optional)
<i>udp_intf_idx</i>	(Optional) UDP relay interfaces
<i>udp_sub_bcast</i>	(Optional)
<i>udp_objgrp</i>	(Optional) Object-group

Command Mode

- /exec

show ip udp relay interface

```
show ip udp relay interface [ <intf_range> ] [ __readonly__ <udp_intf_hdr> [ TABLE_intf <udp_intf_idx>
<udp_sub_bcast> <udp_objgrp> ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
udp	Show items in UDP relay
relay	UDP relay
interface	Interface ID
<i>intf_range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>udp_intf_hdr</i>	(Optional)
TABLE_intf	(Optional)
<i>udp_intf_idx</i>	(Optional) UDP relay interfaces
<i>udp_sub_bcast</i>	(Optional)
<i>udp_objgrp</i>	(Optional) Object-group

Command Mode

- /exec

show ip udp relay object-group

```
show ip udp relay object-group [ <obj-grp-name> ] [ __readonly__ [ TABLE_objgrp_list [ <udp_objgrp> ]
[ TABLE_objgrp [ <host_addr> ] [ <net_addr> <net_mask> ] [ <prefix_addr> <prefix_len> ] ] <udp_intf_hdr>
[ TABLE_intf <udp_intf_idx> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
udp	Show items in UDP relay
relay	UDP relay
object-group	Object-group
<i>obj-grp-name</i>	(Optional) object-group name
<i>__readonly__</i>	(Optional) Read only
TABLE_objgrp_list	(Optional)
<i>udp_objgrp</i>	(Optional) Object-group
TABLE_objgrp	(Optional)
<i>host_addr</i>	(Optional) Host Address
<i>net_addr</i>	(Optional) Network Address
<i>net_mask</i>	(Optional) Network Mask
<i>prefix_addr</i>	(Optional) Network Address
<i>prefix_len</i>	(Optional) IP Prefix Length
<i>udp_intf_hdr</i>	(Optional)
TABLE_intf	(Optional)
<i>udp_intf_idx</i>	(Optional) UDP relay interfaces

Command Mode

- /exec

show ip verify source

```
show ip verify source [ interface <intf6> ] [ __readonly__ <verify_ipsg_exclude_vlans> [ <verify_hdr> ] [
<verify_intf_ipsg_val> | <verify_ipsg_enable_intfs> ] [ { TABLE_verify_entry <verify_intf>
<verify_intf_ipsg_val> [ { TABLE_verify_entry_intfs <verify_ipsg_enable_intfs> } ] <verify_filter_mode>
<verify_ip_addr> <verify_mac_addr> <verify_vlan> } ] ]
```

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>intf6</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>verify_ipsg_exclude_vlans</i>	(Optional)
<i>verify_hdr</i>	(Optional) IP source guard operational entries
<i>verify_intf_ipsg_val</i>	(Optional) IP source guard value (enabled or disable)
<i>verify_ipsg_enable_intfs</i>	(Optional) IP source guard enabled interfaces names
TABLE_verify_entry	(Optional)
<i>verify_filter_mode</i>	(Optional)
<i>verify_intf</i>	(Optional)
TABLE_verify_entry_intfs	(Optional)
<i>verify_ip_addr</i>	(Optional) verify ip address
<i>verify_mac_addr</i>	(Optional) verify mac address
<i>verify_vlan</i>	(Optional) vlan for interface

Command Mode

- /exec

<i>global_punt_pkt_cnt</i>	(Optional) Global punt packet count
<i>global_punt_byte_cnt</i>	(Optional) Global punt byte count
<i>global_glean_pkt_cnt</i>	(Optional) Global glean packet count
<i>global_glean_byte_cnt</i>	(Optional) Global glean byte count
<i>glean_pkt_cnt</i>	(Optional) Glean packet count
<i>glean_byte_cnt</i>	(Optional) Glean byte count
<i>normal_pkt_cnt</i>	(Optional) Packet count
<i>normal_byte_cnt</i>	(Optional) Byte count
<i>last_updated</i>	(Optional) Lat updated
<i>count-static</i>	(Optional) Static count
<i>count-dynamic</i>	(Optional) Dynamic count
<i>count-others</i>	(Optional) Others count
<i>count-throttle</i>	(Optional) Throttled count
<i>count-total</i>	(Optional) Total count
TABLE_afi	(Optional) AFI table
<i>afi</i>	(Optional) AFI
<i>count</i>	(Optional) Count
TABLE_adj	(Optional) Adjacency table for IPV6
<i>intf-out</i>	(Optional) Interface
<i>phy-intf</i>	(Optional) Physical interface
<i>time-stamp</i>	(Optional) Age
<i>mac</i>	(Optional) MAC address
<i>pref</i>	(Optional) Preference
<i>owner</i>	(Optional) Owner
<i>pkt-count</i>	(Optional) Packet count
<i>byte-count</i>	(Optional) Byte count
<i>is-best</i>	(Optional) Best
<i>is-thrtld</i>	(Optional) Throttled

Command Mode

- /exec

show ipv6 adjacency aggregate-prefix

```
show ipv6 adjacency aggregate-prefix [ [ vlan <vlan-id> ] [ summary ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] ] [ __readonly__ [ TABLE_vlan <vlan-id> { <ipv6-agg-prefix-vlan-count> | <ipv6-agg-prefix>
<ref-count> } ] <ipv6-agg-prefix-total-count> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
adjacency	Display adjacency table
aggregate-prefix	aggregate-prefix PT info
vlan	(Optional) Vlan id
<i>vlan-id</i>	(Optional) Vlan
summary	(Optional) Show aggregate-prefix summary
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
__readonly__	(Optional)
<i>ipv6-agg-prefix-total-count</i>	(Optional) ipv6 aggregate-prefix total count
TABLE_vlan	(Optional) TABLR vlan
<i>vlan-id</i>	(Optional) vlan id
<i>ipv6-agg-prefix-vlan-count</i>	(Optional) show ipv6 aggregate-prefix summary
<i>ipv6-agg-prefix</i>	(Optional) Ipv6 aggregate prefix
<i>ref-count</i>	(Optional) reference-hop count

Command Mode

- /exec

show ipv6 adjacency subnet-prefix

```
show ipv6 adjacency subnet-prefix [ [ vlan <vlan-id> ] [ summary ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] ] [ __readonly__ [ TABLE_vlan <vlan-id> { <ipv6-subnet-prefix-vlan-count> | <ipv6-subnet-prefix>
<agg-len> <nh-count> } ] <ipv6-subnet-prefix-total-count> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
adjacency	Display adjacency table
subnet-prefix	subnet-prefix PT info
vlan	(Optional) Vlan id
<i>vlan-id</i>	(Optional) Vlan
summary	(Optional) Show subnet-prefix summary
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
<i>__readonly__</i>	(Optional)
<i>ipv6-subnet-prefix-total-count</i>	(Optional) ipv6 subnet-prefix total count
TABLE_vlan	(Optional) TABLR vlan
<i>vlan-id</i>	(Optional) vlan id
<i>ipv6-subnet-prefix-vlan-count</i>	(Optional) show ipv6 subnet-prefix summary
<i>ipv6-subnet-prefix</i>	(Optional) Ipv6 subnet prefix
<i>agg-len</i>	(Optional) aggregate-length
<i>nh-count</i>	(Optional) next-hop count

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 } { 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 } ] [
<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 } [ 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 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) IPV6 client table
<i>cli-name</i>	(Optional) client name
<i>cli-stat</i>	(Optional) client state
<i>cli-pid</i>	(Optional) client pid
<i>cli-ext-pid</i>	(Optional) client ext-pid
<i>protocol</i>	(Optional) ipv6 client protocol
<i>pib-index</i>	(Optional) client pib-index
<i>cli-uuid</i>	(Optional) client uuid
<i>rou-vrf</i>	(Optional) client route vrf
<i>rou-flg</i>	(Optional) client route flag
<i>ctrl-sap</i>	(Optional) client control sap
<i>data-sap</i>	(Optional) client data sap
<i>ipc-ctrl-mq</i>	(Optional) client ipc control message queue
<i>ipc-ctrl-fail</i>	(Optional) client ipc control fail
<i>ipc-data-mq</i>	(Optional) client ipc data message queue
<i>ipc-data-fail</i>	(Optional) client ipc data fail
<i>if-ext-ind</i>	(Optional) client if ext indes
<i>recv-fn</i>	(Optional) client receive fn name
<i>recv-hex</i>	(Optional) receive-hexadecimal address

Command Mode

- /exec

show ipv6 dhcp guard policy

```
show ipv6 dhcp guard policy [ <pname> ] [ __readonly__ { TABLE_dhcp_guard_policy <name> <role> [
<target> ] [ <max_pref> ] [ <min_pref> ] [ <match_src_list> ] [ <match_prefix_list> ] } ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>pname</i>	(Optional) Policy name for dhcp guard feature
<i>__readonly__</i>	(Optional)
TABLE_dhcp_guard_policy	(Optional) IPv6 DHCP guard policy
<i>name</i>	(Optional) Policy Name
<i>role</i>	(Optional) Role
<i>target</i>	(Optional) Target
<i>max_pref</i>	(Optional) Max preference
<i>min_pref</i>	(Optional) Min preference
<i>match_src_list</i>	(Optional) Source Address Match Access List
<i>match_prefix_list</i>	(Optional) Prefix List Match Prefix List

Command Mode

- /exec

show ipv6 dhcp relay

```
show ipv6 dhcp relay [ interface <intf-range> ] [ __readonly__ [ <relay_service_enable> [ <gbl_src_intf> ]
<relay_vpn_enable> <relay_cisco_option_enable> ] [ TABLE_intf <interface-name> [ <intf_src_intf> ]
<intf_header> [ TABLE_addr <relay_address> <dst_intf> <vrf_name> ] ] ]
```

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) is dhcpv6 relay service enabled
<i>gbl_src_intf</i>	(Optional) interface name
<i>relay_vpn_enable</i>	(Optional) is dhcpv6 relay insertion of vpn sub options enabled
<i>relay_cisco_option_enable</i>	(Optional) is dhcpv6 relay cisco option enabled
TABLE_intf	(Optional)
<i>interface-name</i>	(Optional) interface name
<i>intf_src_intf</i>	(Optional) interface name
<i>intf_header</i>	(Optional) interface header
TABLE_addr	(Optional)
<i>dst_intf</i>	(Optional) interface name
<i>vrf_name</i>	(Optional) VRF 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> <rx_pkts> <tx_pkts> <drops> <msg_type_str_advertise>
<rx_pkts_advertise> <tx_pkts_advertise> <drops_advertise> <msg_type_str_request> <rx_pkts_request>
<tx_pkts_request> <drops_request> <msg_type_str_confirm> <rx_pkts_confirm> <tx_pkts_confirm>
<drops_confirm> <msg_type_str_renew> <rx_pkts_renew> <tx_pkts_renew> <drops_renew>
<msg_type_str_rebind> <rx_pkts_rebind> <tx_pkts_rebind> <drops_rebind> <msg_type_str_reply>
<rx_pkts_reply> <tx_pkts_reply> <drops_reply> <msg_type_str_release> <rx_pkts_release> <tx_pkts_release>
<drops_release> <msg_type_str_decline> <rx_pkts_decline> <tx_pkts_decline> <drops_decline>
<msg_type_str_reconfigure> <rx_pkts_reconfigure> <tx_pkts_reconfigure> <drops_reconfigure>
<msg_type_str_inforeq> <rx_pkts_inforeq> <tx_pkts_inforeq> <drops_inforeq> <msg_type_str_relay_fwd>
<rx_pkts_relay_fwd> <tx_pkts_relay_fwd> <drops_relay_fwd> <msg_type_str_relay_reply>
<rx_pkts_relay_reply> <tx_pkts_relay_reply> <drops_relay_reply> <msg_type_str_unknown>
<rx_pkts_unknown> <tx_pkts_unknown> <drops_unknown> <msg_type_str_total> <rx_pkts_total>
<tx_pkts_total> <drops_total> ] [ <server_stats_hdr> [ TABLE_server <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) dhcpv6 message statistics header
<i>msg_type_str</i>	(Optional) dhcpv6 message type

<i>rx_pkts</i>	(Optional) dhcpv6 received packets
<i>tx_pkts</i>	(Optional) dhcpv6 forwarded packets
<i>drops</i>	(Optional) dhcpv6 packet drops
<i>msg_type_str_advertise</i>	(Optional)
<i>rx_pkts_advertise</i>	(Optional)
<i>tx_pkts_advertise</i>	(Optional)
<i>drops_advertise</i>	(Optional)
<i>msg_type_str_request</i>	(Optional)
<i>rx_pkts_request</i>	(Optional)
<i>tx_pkts_request</i>	(Optional)
<i>drops_request</i>	(Optional)
<i>msg_type_str_confirm</i>	(Optional)
<i>rx_pkts_confirm</i>	(Optional)
<i>tx_pkts_confirm</i>	(Optional)
<i>drops_confirm</i>	(Optional)
<i>msg_type_str_renew</i>	(Optional)
<i>rx_pkts_renew</i>	(Optional)
<i>tx_pkts_renew</i>	(Optional)
<i>drops_renew</i>	(Optional)
<i>msg_type_str_rebind</i>	(Optional)
<i>rx_pkts_rebind</i>	(Optional)
<i>tx_pkts_rebind</i>	(Optional)
<i>drops_rebind</i>	(Optional)
<i>msg_type_str_reply</i>	(Optional)
<i>rx_pkts_reply</i>	(Optional)
<i>tx_pkts_reply</i>	(Optional)
<i>drops_reply</i>	(Optional)
<i>msg_type_str_release</i>	(Optional)
<i>rx_pkts_release</i>	(Optional)

<i>tx_pkts_release</i>	(Optional)
<i>drops_release</i>	(Optional)
<i>msg_type_str_decline</i>	(Optional)
<i>rx_pkts_decline</i>	(Optional)
<i>tx_pkts_decline</i>	(Optional)
<i>drops_decline</i>	(Optional)
<i>msg_type_str_reconfigure</i>	(Optional)
<i>rx_pkts_reconfigure</i>	(Optional)
<i>tx_pkts_reconfigure</i>	(Optional)
<i>drops_reconfigure</i>	(Optional)
<i>msg_type_str_inforeq</i>	(Optional)
<i>rx_pkts_inforeq</i>	(Optional)
<i>tx_pkts_inforeq</i>	(Optional)
<i>drops_inforeq</i>	(Optional)
<i>msg_type_str_relay_fwd</i>	(Optional)
<i>rx_pkts_relay_fwd</i>	(Optional)
<i>tx_pkts_relay_fwd</i>	(Optional)
<i>drops_relay_fwd</i>	(Optional)
<i>msg_type_str_relay_reply</i>	(Optional)
<i>rx_pkts_relay_reply</i>	(Optional)
<i>tx_pkts_relay_reply</i>	(Optional)
<i>drops_relay_reply</i>	(Optional)
<i>msg_type_str_unknown</i>	(Optional)
<i>rx_pkts_unknown</i>	(Optional)
<i>tx_pkts_unknown</i>	(Optional)
<i>drops_unknown</i>	(Optional)
<i>msg_type_str_total</i>	(Optional) total of all dhcpv6 message types
<i>rx_pkts_total</i>	(Optional)
<i>tx_pkts_total</i>	(Optional)

<i>drops_total</i>	(Optional)
<i>server_stats_hdr</i>	(Optional) per-server statistics header
TABLE_server	(Optional)
<i>server_vrf</i>	(Optional) dhcpv6 server vrf
<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) drops through mct

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
__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_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) IPV6 fragment table
TABLE_ipv6_each_q	(Optional) IPV6 each fragment queue table
<i>frag-id</i>	(Optional) fragment id
<i>frag-off</i>	(Optional) fragment offset
<i>m-flag</i>	(Optional) m flag
<i>nxt-header</i>	(Optional) next header
<i>pay-load</i>	(Optional) fargment payload
<i>expires</i>	(Optional) expiry time

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-prohibit> ] [ <rv-admin-prohibit> ] [ <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> ] [ <ign-fastpath-pkts> ] [ <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) ICMPV6 global statistics
<i>st-total</i>	(Optional) total sent messages
<i>rv-total</i>	(Optional) total receive messages
<i>st-err</i>	(Optional) total sent error message
<i>rv-err</i>	(Optional) total receive error message
<i>st-int-drp-cnt</i>	(Optional) sent interface down drop count
<i>rv-int-drp-cnt</i>	(Optional) receive interface down drop count
<i>st-adj-nt-recov-am-ha</i>	(Optional) sent Adjacency not recovered from AM aft HA
<i>rv-adj-nt-recov-am-ha</i>	(Optional) receive Adjacency not recovered from AM aft HA
<i>st-pkt-allow-inv-ttl-vpc</i>	(Optional) sent Pkts allowed due to inv ttl on vPC-MCT
<i>rv-pkt-allow-inv-ttl-vpc</i>	(Optional) receive Pkts allowed due to inv ttl on vPC-MCT
<i>st-drp-src-mac-own</i>	(Optional) sent packet drop source mac address own

<i>rv-drp-src-mac-own</i>	(Optional) receive packet drop source mac address own
<i>st-drp-tgt-ip-not-own</i>	(Optional) sent drop tgt ip address not own
<i>rv-drp-tgt-ip-not-own</i>	(Optional) receive drop tgt ip address not own
<i>st-drp-src-ip-not-own</i>	(Optional) sent dropped source ip address
<i>rv-drp-src-ip-not-own</i>	(Optional) receive dropped source ip address
<i>st-dest-unreach</i>	(Optional) sent destination unreachable
<i>rv-dest-unreach</i>	(Optional) receive destination unreachable
<i>st-admin-prohibit</i>	(Optional) sent Administratively Prohibited
<i>rv-admin-prohibit</i>	(Optional) receive Administratively Prohibited
<i>st-time-exceed</i>	(Optional) sent time exceeded
<i>rv-time-exceed</i>	(Optional) receive time exceeded
<i>st-para-pbms</i>	(Optional) sent parameter problems
<i>rv-para-pbms</i>	(Optional) receive parameter problems
<i>st-echo-req</i>	(Optional) sent echo request
<i>rv-echo-req</i>	(Optional) receive echo request
<i>st-echo-reply</i>	(Optional) sent echo replies
<i>rv-echo-reply</i>	(Optional) receive echo replies
<i>st-redirect</i>	(Optional) sent redirects
<i>rv-redirect</i>	(Optional) receive redirects
<i>st-pkt-too-big</i>	(Optional) sent packet too big
<i>rv-pkt-too-big</i>	(Optional) receive packet too big
<i>st-rtr-adver</i>	(Optional) sent router advertisements
<i>rv-rtr-adver</i>	(Optional) receive router advertisements
<i>st-rtr-solicit</i>	(Optional) sent router solicitations
<i>rv-rtr-solicit</i>	(Optional) receive router solicitations
<i>st-nei-adver</i>	(Optional) sent neighbor advertisements
<i>rv-nei-adver</i>	(Optional) receive neighbor advertisements
<i>st-nei-solicit</i>	(Optional) sent neighbor solicitations
<i>rv-nei-solicit</i>	(Optional) receive neighbor solicitations

<i>fast-path-pkts</i>	(Optional) fastpath packets
<i>fastpath-disable</i>	(Optional) [fastpath disabled / others]
<i>ign-fastpath-pkts</i>	(Optional) Packets drop request ignore count
<i>dup-rtr-ra-recvd</i>	(Optional) Duplicate router RA sent
<i>rv-dup-rtr-ra-recvd</i>	(Optional) Duplicate router RA received
TABLE_icmpv6_mld_stat	(Optional) ICMPv6 MLD Statistics
<i>st-v1-queries</i>	(Optional) V1 Queries sent
<i>rv-v1-queries</i>	(Optional) V1 Queries recieved
<i>st-v2-queries</i>	(Optional) V2 Queries sent
<i>rv-v2-queries</i>	(Optional) V2 Queries received
<i>st-v1-reports</i>	(Optional) V1 Reports sent
<i>rv-v1-reports</i>	(Optional) V1 Reports received
<i>st-v2-reports</i>	(Optional) V2 Reports sent
<i>rv-v2-reports</i>	(Optional) V2 Reports received
<i>st-v1-leaves</i>	(Optional) V1 Leaves sent
<i>rv-v1-leaves</i>	(Optional) V1 Leaves received

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> [ TABLE_addr <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> [ TABLE_one_int <grp-id> <protocol-one-int> <client-uuid> <client-state-act> <client-in-use> TABLE_vip_list <virt-ipv6> <virt-mac> <context_name> <context_id> <last-solocit-st> <last-nei-ad-st> <last-rtr-adv-st> <nxt-rtr-ad-st> ] <max-dad-attempts> <current-dad-attempts> [ TABLE_route <route> <preference> <lifetime> <info-option> <reachability-verify-enabled> <adv-route-info> <route-zero-lifetime> ] [ TABLE_prefix <prefix> <enabled> <vlaidlife-time> <preferredlife-time> <on-link> <off-link> <autonomous> ] ]
```

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

<i>route</i>	(Optional) Display List of ICMPv6 RA routes
<i>full</i>	(Optional) Display Complete prefix information
<i>detail</i>	(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)
<i>TABLE_vrf</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>TABLE_intf</i>	(Optional)
<i>intf-name</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>TABLE_addr</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-grv</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)
TABLE_one_int	(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)
TABLE_vip_list	(Optional)

<i>virt-mac</i>	(Optional)
<i>context_name</i>	(Optional)
<i>context_id</i>	(Optional)
<i>last-solicit-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>max-dad-attempts</i>	(Optional)
<i>current-dad-attempts</i>	(Optional)
TABLE_route	(Optional)
<i>preference</i>	(Optional)
<i>lifetime</i>	(Optional)
<i>info-option</i>	(Optional)
<i>reachability-verify-enabled</i>	(Optional)
<i>adv-route-info</i>	(Optional)
<i>route-zero-lifetime</i>	(Optional)
TABLE_prefix	(Optional)
<i>enabled</i>	(Optional)
<i>vlaidlif-time</i>	(Optional)
<i>preferredlif-time</i>	(Optional)
<i>on-link</i>	(Optional)
<i>off-link</i>	(Optional)
<i>autonomous</i>	(Optional)

Command Mode

- /exec

show ipv6 icmp l2 statistics

```
show ipv6 { icmp | nd } l2 statistics [ interface <interface> ] [ __readonly__ [ TABLE_intf { <intf_name>
<l2_stats> } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
nd	ICMPv6 Neighbor Discovery commands
interface	(Optional) Interface for which l2 stats to be shown
l2	Display ND info for layer-2 interface
statistics	Display ND statistics for layer 2 interface
<i>interface</i>	(Optional) interface
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional) Layer 2 Interface name
<i>intf_name</i>	(Optional) Interface name
<i>l2_stats</i>	(Optional) layer 2 ND stats on given interface

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) vlan adjacency count
<i>icmpv6-sync-adj-cnt</i>	(Optional) icmpv6 sync adjacency count
TABLE_icmpv6_vlan_list	(Optional) icmpv6 vlan list table
<i>adj-vlan-id</i>	(Optional) adjacency vlan id
<i>icmpv6-time-stamp</i>	(Optional) icmpv6 time stamp
<i>icmpv6-mac-addr</i>	(Optional) icmpv6 mac address
<i>off-adj-flags</i>	(Optional) offlist adjacency flags

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> ] TABLE_one_group { <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-solicit-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
__readonly__	(Optional)
TABLE_pt_tree	(Optional)
<i>v-mac-addr</i>	(Optional)
<i>v-interface</i>	(Optional)
<i>v-client-state</i>	(Optional)
TABLE_vrf_all	(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_one_group	(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-vpc-id-ifindx-sending-pushmsg> ] [ <icmpv6-vpc-id-proc-cfs-payload>
] [ <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-vipv6add> ] [ <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> ] [
<icmpv6-vpc-id-periodic-sync> ] [ <icmpv6-vpc-id-cfs-payload-periodic-sync> ] } ] ]
```

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) icmpv6 protocol drop pull disable
<i>icmpv6-pro-drp-push-msg-disable</i>	(Optional) icmpv6 protocol drop push message disable
<i>icmpv6-pro-ign-snd-pull-disabe</i>	(Optional) icmpv6 protocol ignore send pull disable
<i>icmpv6-ign-snd-push-disable</i>	(Optional) icmpv6 ignore send push disable
<i>icmpv6-drp-im-fail</i>	(Optional) icmpv6 drop im fail
<i>icmpv6-drp-mcecm-fail</i>	(Optional) MCECM api failed while processing CFS payload
<i>icmpv6-drp-invalid-pc-iod</i>	(Optional) Invalid MCT port-channel iod while processing CFS payload
<i>icmpv6-drp-pt-lookup-fail</i>	(Optional) PT lookup failed while processing CFS payload
<i>icmpv6-drp-resp-fail-no-mct</i>	(Optional) invalid MCT iod while processing CFS payload
<i>icmpv6-drp-resp-fail</i>	(Optional) response failed while processing CFS payload
<i>icmpv6-vpc-id-ifindx-sending-pushmsg</i>	(Optional) Unable to retrieve VPC id ifindex while sending push message

<i>icmpv6-vpc-id-proc-cfs-payload</i>	(Optional) Unable to retrieve ifindex from vpc id
<i>icmpv6-vpc-id-periodic-sync</i>	(Optional) unable to retrieve vpc id ifindex for periodic sync
<i>icmpv6-vpc-id-cfs-payload-periodic-sync</i>	(Optional) unable to retrieve ifindex from vpc id while processing cfs payload for periodic sync
<i>icmpv6-resp-sent</i>	(Optional) Response sent via CFSOE
<i>icmpv6-resp-recvd</i>	(Optional) Response received via CFSOE
<i>icmpv6-resp-recv-err</i>	(Optional) Response received via CFSOE with errors
<i>icmpv6-rcvd-msg</i>	(Optional) Received message via CFSOE
<i>icmpv6-send-fail</i>	(Optional) Send message failed via CFSOE
<i>icmpv6-cfs-rel-dlvry-fail</i>	(Optional) MCECM send api failed via CFSOE
<i>icmpv6-cfs-rel-dnvry-suc</i>	(Optional) Send message succeeded via CFSOE
<i>icmpv6-drp-pt-add-fail</i>	(Optional) PT add failed while processing offlist database
<i>icmpv6-drp-no-mem</i>	(Optional) Memory alloc failed while processing offlist database
<i>icmpv6-drp-tmr-cre-fail</i>	(Optional) Timer create failed while processing offlist database
<i>icmpv6-drp-add-adj-fail</i>	(Optional) Adjacency addition failed while processing offlist database
<i>icmpv6-off-drp-pt-lookup-fail</i>	(Optional) PT lookup failed while processing offlist database
<i>icmpv6-dont-drp-vlan-mismat</i>	(Optional) VLAN mismatch while processing offlist database
<i>icmpv6-drp-svi-invalid</i>	(Optional) SVI is invalid while processing offlist database
<i>icmpv6-dont-drop-sv-down</i>	(Optional) SVI is down while processing offlist database
<i>icmpv6-drp-mct-down</i>	(Optional) MCT is down while processing offlist database
<i>icmpv6-drp-ctxt-invalid</i>	(Optional) Ctxt_type is invalid while processing offlist database
<i>icmpv6-drp-vrf-invalid</i>	(Optional) VRF is invalid while processing offlist database
<i>icmpv6-drp-l3addr-invalid</i>	(Optional) IP address is invalid while processing offlist database
<i>icmpv6-drp-l3addr-sanity-fail</i>	(Optional) IP address sanity failed while processing offlist database
<i>icmpv6-drp-mac-sanity-fail</i>	(Optional) MAC address sanity failed while processing offlist database
<i>icmpv6-own-rtr-mac</i>	(Optional) Our own router mac while processing offlist database
<i>icmpv6-drp-own-ipv6addr</i>	(Optional) Our own ip address while processing offlist database
<i>icmpv6-drp-own-vipv6add</i>	(Optional) Our own virtual ip address while processing offlist database
<i>icmpv6-drp-adj-fail</i>	(Optional) Create adjacency failed while processing offlist database

<i>icmpv6-drp-subnet-mismatch</i>	(Optional) Subnet mismatch while processing offlist database
<i>icmpv6-drp-adj-exist</i>	(Optional) Entry exists while processing offlist database
<i>icmpv6-dont-drp-ip-not-enable</i>	(Optional) IPv6 not enabled on interface while processing offlist database
<i>icmpv6-drp-total-cnt</i>	(Optional) Total drop count while processing offlist database
<i>icmpv6-dont-drop-total-cnt</i>	(Optional) Total don't drop count while processing offlist database
<i>icmpv6-add-adj</i>	(Optional) Total adjacency additions in offlist database
<i>icmpv6-del-adj</i>	(Optional) Total adjacency deletions in offlist database
<i>icmpv6-adj-already-exist</i>	(Optional) Total adjacencies ignored as they already exists in offlist database

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_intf <vrf-name-out> <intf-name> [ <proto-state> ] [
<link-state> ] [ <admin-state> ] [ <iod> ] [ TABLE_addr <addr> ] [ <prefix> ] [ { TABLE_sec_addr [
<sec-prefix> ] } ] [ <linklocal-addr> ] [ <linklocal-configured> ] [ { TABLE_vaddr [ <v-addr> ] } ] [
<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-lstype> ] [ <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-dfdrop> ] [ <hw-mbyte-dfdrop> ] [ <unspecified-src> ] [
<total-pkt-recv-tent-addr> ] [ <total-pkts-recv-invalid-addr-state> ] [ <total-pkt-recv-dup-state> ] [
<anycast-pkt-arrived-tcp> ] [ <deliver-intf-down> ] ] ] ]
```

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_addr	(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>addr</i>	(Optional)
<i>prefix</i>	(Optional)
TABLE_sec_addr	(Optional)
<i>sec-prefix</i>	(Optional)
<i>linklocal-configured</i>	(Optional)
TABLE_vaddr	(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)
<i>unspecified-src</i>	(Optional)
<i>total-pkt-recv-tent-addr</i>	(Optional)
<i>total-pkts-recv-invalid-addr-state</i>	(Optional)
<i>total-pkt-recv-dup-state</i>	(Optional)
<i>anycast-pkt-arrived-tcp</i>	(Optional)
<i>deliver-intf-down</i>	(Optional)

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 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) vrf table
<i>vrf-name-out</i>	(Optional) vrf name
<i>entry-count</i>	(Optional) entry count
TABLE_group	(Optional) group table
TABLE_intf	(Optional) interface table
<i>intf-name</i>	(Optional) interface name
<i>icmpv6-disabled</i>	(Optional) icmpv6 disabled
<i>mld-source-unspec</i>	(Optional) mld source unspecified
<i>mld-static</i>	(Optional) mld static
<i>mld-local-group</i>	(Optional) mld local group
<i>mld-translated</i>	(Optional) mld translated
<i>mld-uptime</i>	(Optional) mld uptime

<i>mld-expire</i>	(Optional) mld expire
-------------------	-----------------------

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) vrf table
<i>vrf</i>	(Optional) vrf
TABLE_entry	(Optional) entry table
<i>static-oif</i>	(Optional) static oif
<i>local-group</i>	(Optional) local group
<i>if-name</i>	(Optional) interface name
<i>last-reported</i>	(Optional) last reported

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) mtu statistic table
<i>out-ent</i>	(Optional) outstanding entries
<i>exp-ent</i>	(Optional) expired entries
<i>purge-ent</i>	(Optional) purge entries
<i>int-err</i>	(Optional) internal entries
<i>pkt-too-big</i>	(Optional) packets too big messages received
<i>cache-miss</i>	(Optional) cache misses
<i>cache-upd</i>	(Optional) cache updates
<i>mtu-small</i>	(Optional) too small mtu advertised
<i>cache-no-upd</i>	(Optional) cache no update
TABLE_mtu_vrf	(Optional) MTU vrf table
<i>tot-ipv6-mtu</i>	(Optional) total ipv6 mtu messages
TABLE_one_mtu	(Optional) MTU table

<i>pmtu-cntxt</i>	(Optional) pmtu context
<i>mtu-cache</i>	(Optional) mtu cache
<i>up-time</i>	(Optional) up time
<i>iod-lcache</i>	(Optional) iod lcache

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_name [ <inf-name> ] } ] [ { TABLE_intf [ <dns-recursion-server-list> ] [ <dns-suppression-server-list> ] [ { TABLE_dns_server [ <dns-server-index> ] [ <dns-server-list> ] [ <lifetime> ] [ <second-seqno> ] } ] [ { TABLE_dns_seq [ <dns-server> ] [ <dns-addr> ] [ <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_name	(Optional) interface table
<i>inf-name</i>	(Optional) interface name
TABLE_intf	(Optional)
<i>dns-recursion-server-list</i>	(Optional) DNS recursion server list
<i>dns-suppression-server-list</i>	(Optional) DNS suppression server list
TABLE_dns_server	(Optional) DNS server table
<i>dns-server-index</i>	(Optional) dns server index
<i>dns-server-list</i>	(Optional) dns server list
<i>lifetime</i>	(Optional) server lifetime
<i>second-seqno</i>	(Optional) second sequence number
TABLE_dns_seq	(Optional) DNS sequence table
<i>dns-server</i>	(Optional) dns server
<i>dns-addr</i>	(Optional) dns address
<i>infinite-seq-no</i>	(Optional) infinite sequence number

Command Mode

- /exec

show ipv6 nd raguard policy

```
show ipv6 nd raguard policy [ <name> ] [ __readonly__ { TABLE_raguard_policy <policy> [ <port_type>
] <device_role> [ <min_hop_limit> ] [ <max_hop_limit> ] [ <mgd_conf_flag> ] [ <other_conf_flag> ] [
<rtr_pref_max> ] [ <ra_prefix_list> ] [ <ipv6_acl> ] [ { TABLE_raguard_targets <target> <target_type>
<target_policy> <feature> <target_range> } } ]
```

Syntax Description

<i>name</i>	(Optional) Policy name for feature RA guard
<i>__readonly__</i>	(Optional)
<i>TABLE_raguard_policy</i>	(Optional) IPv6 RA guard policy
<i>policy</i>	(Optional) Policy Name
<i>port_type</i>	(Optional) Port type
<i>device_role</i>	(Optional) Device role
<i>min_hop_limit</i>	(Optional) Minimum hop limit
<i>max_hop_limit</i>	(Optional) Minimum hop limit
<i>mgd_conf_flag</i>	(Optional) Check managed config flag
<i>other_conf_flag</i>	(Optional) Check other config flag
<i>rtr_pref_max</i>	(Optional) Router-preference maximum
<i>ra_prefix_list</i>	(Optional) Match RA prefix list
<i>ipv6_acl</i>	(Optional) Match IPv6 access list
<i>TABLE_raguard_targets</i>	(Optional) RA Guard Targets table
<i>target</i>	(Optional) Target Name
<i>target_type</i>	(Optional) Target Type
<i>target_policy</i>	(Optional) Policy Name
<i>feature</i>	(Optional) Feature
<i>target_range</i>	(Optional) Target Range

Command Mode

- /exec

show ipv6 neighbor binding

```
show ipv6 neighbor binding [ { { vlan <vlanid> [ details ] } | { { address { <ipv6-addr> | all } } { interface <intfid> vlan <vlanid> [ details ] } }
```

Syntax Description

<i>intfid</i>	(Optional) [details]
show	Show running system information
ipv6	Show the IPv6 features of the system
<i>vlanid</i>	(Optional) Vlan number

Command Mode

- /exec

show ipv6 neighbor binding mac

show ipv6 neighbor binding mac <macaddr> { interface <intfid> vlan <vlanid> [details] |

Syntax Description

<i>intfid</i>	[details]
show	Show running system information
ipv6	Show the IPv6 features of the system
<i>macaddr</i>	48-bit hardware address
<i>vlanid</i>	Vlan number

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) ipv6 neighbor table
<i>nei-mac</i>	(Optional) neighbor mac address
<i>nei-iod</i>	(Optional) neighbor iod
<i>nei-if-iod</i>	(Optional) neighbor interface iod
<i>tot-nei-ent</i>	(Optional) total neighbor entries
TABLE_nei_cnt	(Optional) neighbor count table
<i>nei-mac-tot</i>	(Optional) neighbor mac address
<i>nei-iod-tot</i>	(Optional) neighbor iod
<i>nei-if-iod-tot</i>	(Optional) neighbor physical interface iod

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 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
__readonly__	(Optional)
TABLE_legacy_vlan	(Optional)
vlan_id	(Optional)

Command Mode

- /exec

show ipv6 pim group-range

```
show ipv6 pim group-range [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf [ <out-context> ] [ { TABLE_group [ <invalid-grp> ] [ <grp-addr> ] [ <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)
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)

Command Mode

- /exec

show ipv6 pim interface

```
show ipv6 pim interface [ <interface> ] [ brief ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
[ <is-pim-enabled> ] [ TABLE_vrf [ <out-context> ] [ TABLE_brief [ <if-name> ] [ <if-addr> ] [ <if-nbr-count>
] [ <if-is-border> ] [ <if-dr> ] ] [ TABLE_iod [ <if-name> ] [ <if-status> ] [ <if-addr> ] [ <dr> ] [
<is-iface-in-cib> ] [ <if-addr-summary> ] [ <dr-priority> ] [ <no-dr-priority> ] [ <nbr-cnt> ] [
<hello-interval-sec> ] [ <hello-interval-msec> ] [ <hello-timer> ] [ <holdtime-sec> ] [ <holdtime-msec> ] [
<is-border> ] [ <genid> ] [ <isauth-config> ] [ <nbr-policy-name> ] [ <jp-in-policy-name> ] [
<jp-out-policy-name> ] [ <is-passive> ] [ <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>	(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
<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>if-addr</i>	(Optional)
<i>dr</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)
<i>nbr-cnt</i>	(Optional)
<i>is-iface-in-cib</i>	(Optional)
<i>is-border</i>	(Optional)
<i>if-addr-summary</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
<i>__readonly__</i>	(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>sgrprunelisoif-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> ] [ <sgrexpire> ] [
<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>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>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-learnt> ] [ <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-learnt</i>	(Optional)
<i>hash-length</i>	(Optional)
TABLE_rp	(Optional)
<i>hash</i>	(Optional)
<i>isbest_hash</i>	(Optional)

Command Mode

- /exec

<i>bsr-expires</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>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-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__ [ TABLE_context [
<out-context> ] [ <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> ] [ <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)
TABLE_context	(Optional)
<i>out-context</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>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> ] [ <count> ] [ <bfd-enabled> ] [ <table-id> ] [ <state-limit> ] [ <available-states>
] [ <reserved-limit> ] [ <available-reserved> ] [ <reserve-policy> ] [ <register-rate-limit-pps> ] [
<shared-tree-route-map> ] [ TABLE_RANGE [ <shared-tree-ranges> ] ] ] ] ]
```

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)
<i>bfd-enabled</i>	(Optional)
<i>state-limit</i>	(Optional)
<i>available-states</i>	(Optional)
<i>reserved-limit</i>	(Optional)
<i>available-reserved</i>	(Optional)
<i>reserve-policy</i>	(Optional)
<i>register-rate-limit-pps</i>	(Optional)
<i>shared-tree-route-map</i>	(Optional)
TABLE_RANGE	(Optional)

<i>shared-tree-ranges</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
__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 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) IPV6 process table
<i>cnxt-name</i>	(Optional) context name
<i>cnxt-id</i>	(Optional) context name
TABLE_ipv6	(Optional) ipv6 table
<i>ipv6-vrf</i>	(Optional) vrf name
<i>ipv6-vrf-id</i>	(Optional) vrf id
<i>auto-disc</i>	(Optional) auto discard
<i>auto-add</i>	(Optional) auto add
<i>sta-disc</i>	(Optional) static discard
<i>sta-def</i>	(Optional) static def
<i>ipv6-unreach</i>	(Optional) ipv6 unreachable
TABLE_iod	(Optional) IOD table
<i>iod-val</i>	(Optional) iod value
<i>iod-ifind</i>	(Optional) iod if index
TABLE_ipv6_nxt	(Optional) ipv6 next hop table

Command Mode

- /exec

show ipv6 raguard statistics

```
show ipv6 raguard 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
raguard	IPV6 raguard
statistics	RA packet drop count
interface	(Optional) Raguard 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 } ] [ __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
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
__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_rmap	(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
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 the policy
<i>total_reject_count</i>	(Optional) Total number of packets rejected by the policy

Command Mode

- /exec

show ipv6 route

```
show ipv6 route [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ipv6-addr> | { <ipv6-prefix>
[ { longer-prefixes | shorter-prefixes } ] } ] [ { <ipv6-protocol> [ all ] } | { bind-label <bind-lbl> | next-hop
<next-hop> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary |
{ [ detail ] [ deleted ] } ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [ <attached>
] TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ]
<uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <stalelbl> ] [ <hidden> ] ] [
TABLE_summary <routes> <paths> [ <multicast_paths> ] [ TABLE_unicast [ <clientnameuni> ] [ <best-paths>
] [ <backup-paths> ] ] [ TABLE_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_route_count [ <mask_len> ] [ <count> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
route	Display IPv6 routing table
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
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
l3vm-info	(Optional) Display corresponding L3VM information
rpf	(Optional) Display RPF information for multicast source
longer-prefixes	(Optional) Display matching routes with mask-lengths >= prefix
shorter-prefixes	(Optional) Display matching routes with mask-lengths <= prefix
<i>ipv6-protocol</i>	(Optional) Display routes for protocol (or route type)
all	(Optional) Display routes for protocol for backup next-hops too
bind-label	(Optional) Display routes with this bind-label only
<i>bind-lbl</i>	(Optional) Binding label
next-hop	(Optional) Display routes with this next-hop only
interface	(Optional) Display routes with this output interface only

<i>interface</i>	(Optional) Interface Name
updated	(Optional) Display routes filtered by last updated time
since	(Optional) Display those routes updated since this time
<i>stime</i>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
until	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
summary	(Optional) Display route counts
deleted	(Optional) Display delete-pending routes also
detail	(Optional) Display routes in full detail
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(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>nexthop-vrf-name</i>	(Optional)
<i>ifname</i>	(Optional)
<i>bindlbl</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>stalelbl</i>	(Optional)
<i>hidden</i>	(Optional)
TABLE_summary	(Optional)
<i>routes</i>	(Optional)
<i>paths</i>	(Optional)
<i>multicast_paths</i>	(Optional)
TABLE_unicast	(Optional)
<i>clientnameuni</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientnamemulti</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_route_count	(Optional)
<i>mask_len</i>	(Optional)
<i>count</i>	(Optional)

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
<u>__readonly__</u>	(Optional)
TABLE_ipv6_routers	(Optional) ipv6 router table
TABLE_interface_ipv6	(Optional) ipv6 interface table
<i>ipv6-int-addr</i>	(Optional) ipv6 interface address
<i>rtr-flo-time</i>	(Optional) last updated time
<i>curr-hop-lmt</i>	(Optional) current hop limit
<i>life-time</i>	(Optional) life time
<i>addr-flag</i>	(Optional) address flag
<i>other-flg</i>	(Optional) other flag
<i>mtu-rtr</i>	(Optional) router MTU
<i>hm-agent-flg</i>	(Optional) home agent flag
<i>preference</i>	(Optional) preference
<i>reach-time</i>	(Optional) reachable time

<i>retrans-time</i>	(Optional) retransmission time
TABLE_prefix_ipv6	(Optional) ipv6 prefix table
<i>ipv6-prefix</i>	(Optional) ipv6 prefix
<i>buf-ipv6</i>	(Optional) ipv6 buffer
<i>buf-autono</i>	(Optional) ipv6 buffer autonomous flag
<i>valid-life-time</i>	(Optional) ipv6 valid life time
<i>prefer-life</i>	(Optional) ipv6 preferred life time

Command Mode

- /exec

show ipv6 snooping capture-policy

```
show ipv6 snooping capture-policy [ vlan <vlanid> ] [ interface <intf> ] [ __readonly__ <cmdout> ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>vlanid</i>	(Optional) VLAN ID
<i>intf</i>	(Optional) interface
<i>__readonly__</i>	(Optional)
<i>cmdout</i>	(Optional)

Command Mode

- /exec

show ipv6 snooping counters vlan

```
show ipv6 snooping counters { { vlan <vlanid> } | { interface <intf> } } [ __readonly__ [ {
TABLE_target_counters <target> [ { TABLE_protocol_msgs <protocol_name> [ { TABLE_sub_protocol_msgs
[ <subfield_name> ] [ <msg_count> ] } ] ] ] [ { TABLE_bridged_msgs <protocol_name> [ {
TABLE_sub_protocol_msgs [ <subfield_name> ] [ <msg_count> ] } ] ] ] [ { TABLE_dropped_msgs
<feature_name> <protocol_name> [ { TABLE_sub_protocol_msgs [ <subfield_name> ] [ <msg_count> ] [
<drop_reason> ] } ] } ] } ] }
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>vlanid</i>	VLAN ID
<i>intf</i>	interface
<i>__readonly__</i>	(Optional)
TABLE_target_counters	(Optional) Policy counters per target
<i>target</i>	(Optional) Target Name
TABLE_protocol_msgs	(Optional) Protocol messages table
<i>protocol_name</i>	(Optional) Protocol name
TABLE_sub_protocol_msgs	(Optional) Protocol sub-messages table
<i>subfield_name</i>	(Optional) Sub-field name
<i>msg_count</i>	(Optional) Message count
TABLE_bridged_msgs	(Optional) Bridged messages table
<i>protocol_name</i>	(Optional) Protocol name
TABLE_sub_protocol_msgs	(Optional) Protocol sub-messages table
<i>subfield_name</i>	(Optional) Sub-field name
<i>msg_count</i>	(Optional) Message count
TABLE_dropped_msgs	(Optional) Bridged messages table
<i>feature_name</i>	(Optional) Feature name
<i>protocol_name</i>	(Optional) Protocol name
TABLE_sub_protocol_msgs	(Optional) Protocol sub-messages table
<i>subfield_name</i>	(Optional) Sub-field name

<i>msg_count</i>	(Optional) Message count
<i>drop_reason</i>	(Optional) Drop reason

Command Mode

- /exec

show ipv6 snooping events

show ipv6 snooping events [__readonly__ <cmdout>]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
__readonly__	(Optional)
<i>cmdout</i>	(Optional)

Command Mode

- /exec

show ipv6 snooping features

```
show ipv6 snooping features [ __readonly__ { TABLE_features <name> <priority> <state> } ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
__readonly__	(Optional)
TABLE_features	(Optional) IPv6 Snooping Features
<i>name</i>	(Optional) Name
<i>priority</i>	(Optional) Priority
<i>state</i>	(Optional) State

Command Mode

- /exec

show ipv6 snooping messages

show ipv6 snooping messages [detailed <count>] [__readonly__ <cmdout>]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>count</i>	(Optional) Number of messages to display
<i>__readonly__</i>	(Optional)
<i>cmdout</i>	(Optional)

Command Mode

- /exec

show ipv6 snooping policies

```
show ipv6 snooping policies { [ vlan <vlanid> ] | [ interface <intf> ] } [ __readonly__ { TABLE_policies
<target> <target_type> <policy> <feature> <target_range> } ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>vlanid</i>	(Optional) VLAN ID
<i>intf</i>	(Optional) interface
<i>__readonly__</i>	(Optional)
TABLE_policies	(Optional) IPv6 Snooping Policies
<i>target</i>	(Optional) Target Name
<i>target_type</i>	(Optional) Target Type
<i>policy</i>	(Optional) Policy Name
<i>feature</i>	(Optional) Feature
<i>target_range</i>	(Optional) Target Range

Command Mode

- /exec

show ipv6 snooping policy

```
show ipv6 snooping policy [ <policy_name> ] [ __readonly__ { [ TABLE_glean_policy <policy> [ <port_type>
] <sec_lvl> <device_role> [ <data_glean> ] [ <dest_glean> ] [ <glean_type> ] [ <reachable_lifetime> ] [
<stale_lifetime> ] } { [ TABLE_non_glean_protocols | TABLE_glean_protocols # 395
../feature/sisf/core/nxos/src/sisf_glean_dme.cmd <protocol> [ <prefix_list> ] } } [ <limit_address_cnt> ] [
<limit_address_cnt_v4_per_mac> ] [ <limit_address_cnt_v6_per_mac> ] [ <limit_address_cnt_v4_per_target>
] [ <tracking> ] { { [ TABLE_targets <target> <target_type> <target_policy> <feature> <target_range> ] } }
]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>policy_name</i>	(Optional) Policy name for feature snooping
<i>__readonly__</i>	(Optional)
TABLE_glean_policy	(Optional) IPv6 DHCP guard policy
<i>policy</i>	(Optional) Policy Name
<i>port_type</i>	(Optional) Port type
<i>sec_lvl</i>	(Optional) Security level
<i>device_role</i>	(Optional) Device role
<i>data_glean</i>	(Optional) Data glean
<i>dest_glean</i>	(Optional) Destination glean
<i>glean_type</i>	(Optional) Glean type
<i>reachable_lifetime</i>	(Optional) Reachable lifetime
<i>stale_lifetime</i>	(Optional) Stale lifetime
TABLE_non_glean_protocols	(Optional) Non Glean protocols
<i>protocol</i>	(Optional) Protocol
TABLE_glean_protocols	(Optional) Glean protocols
<i>prefix_list</i>	(Optional) Prefix list
<i>limit_address_cnt</i>	(Optional) Limit address count
<i>limit_address_cnt_v4_per_mac</i>	(Optional) Limit address count v4 per mac
<i>limit_address_cnt_v6_per_mac</i>	(Optional) Limit address count v6 per mac
<i>limit_address_cnt_v4_per_target</i>	(Optional) Limit address count v4 per target

<i>tracking</i>	(Optional) Tracking
TABLE_targets	(Optional) Targets table
<i>target</i>	(Optional) Target Name
<i>target_type</i>	(Optional) Target Type
<i>target_policy</i>	(Optional) Policy Name
<i>feature</i>	(Optional) Feature
<i>target_range</i>	(Optional) Target Range

Command Mode

- /exec

show ipv6 snooping pss database

show ipv6 snooping pss database [__readonly__ <cmdout>]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
__readonly__	(Optional)
<i>cmdout</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> ] [ <next-hop-vrf> ] [ <reslv-tid> ] [ <real-nh> ] [ <has-real-intf> ] [ <real-intf-name> ] [ <track-id>
] [ <track-status> ] [ <rnh-status> ] [ <bfd-status> ] ] ]
```

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) VRF table
<i>vrf-name-out</i>	(Optional) vrf name
TABLE_route	(Optional) Route table
<i>intf-name</i>	(Optional) interface name
<i>pref</i>	(Optional) interface prefix
<i>next-hop-vrf</i>	(Optional) next hop vrf
<i>reslv-tid</i>	(Optional) reslv tid
<i>has-real-intf</i>	(Optional) has real interface
<i>real-intf-name</i>	(Optional) real interface name
<i>track-id</i>	(Optional) interface track id
<i>track-status</i>	(Optional) interface track status
<i>rnh-status</i>	(Optional) interface rnh status
<i>bfd-status</i>	(Optional) interface bfd status

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> <rx-pkts-recv> <rx-bytes-recv> <rx-inhderrors> <rx-innoroutes>
<rx-inaddrrerrors> <rx-inunknownprotos> <rx-intruncatedpkts> <rx-inforwdgrams> <rx-reasmreqds>
<rx-reasmoks> <rx-reasmfails> <rx-indiscards> <rx-indelivers> <rx-inmcastpkts> <rx-inmcastbytes>
<tx-pkts-sent> <tx-bytes-sent> <tx-outrequests> <tx-outnoroutes> <tx-outforwdgrams> <tx-outdiscards>
<tx-outfragreqds> <tx-outfragoks> <tx-outfragfails> <tx-outfragcreates> <tx-outtransmits> <tx-outmcastpkts>
<tx-outmcastbytes> ]
```

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) VRF table
<i>vrf-name-out</i>	(Optional) vrf name
TABLE_ipv6_traffic	(Optional) ipv6 traffic table
<i>uptime</i>	(Optional) up time
<i>upkt-fwd</i>	(Optional) unicast packets forward
<i>mpkt-fwd</i>	(Optional) multicast packets forward
<i>ubyte-fwd</i>	(Optional) unicast byte forward
<i>mbyte-fwd</i>	(Optional) multicast byte forward
<i>upkt-orig</i>	(Optional) unicast packet origin
<i>mpkt-orig</i>	(Optional) multicast packet origin
<i>ubyte-orig</i>	(Optional) unicast byte origin

<i>mbyte-orig</i>	(Optional) multicast byte origin
<i>upkt-consumed</i>	(Optional) unicast packet consumed
<i>mpkt-consumed</i>	(Optional) multicast packet consumed
<i>ubyte-consumed</i>	(Optional) unicast byte consumed
<i>mbyte-consumed</i>	(Optional) multicast byte consumed
<i>ufrag-orig</i>	(Optional) unicast fragment origin
<i>mfra-orig</i>	(Optional) multicast fragment origin
<i>ufrag-consumed</i>	(Optional) unicast fragment consumed
<i>mfrag-consumed</i>	(Optional) multicast fragment consumed
<i>bad-version</i>	(Optional) bad version
<i>rt-lookup-fail</i>	(Optional) route lookup fail
<i>hoplimit-excd</i>	(Optional) hoplimit exceeded
<i>opt-header-error</i>	(Optional) opt header error
<i>pld-length-too-small</i>	(Optional) pld length too small
<i>pm-failed</i>	(Optional) packet manager failed
<i>mbuf-error</i>	(Optional) m-buffer error
<i>could-not-enc</i>	(Optional) could not encode
<i>dest-if-down</i>	(Optional) destination if down
<i>rx-pkts-recv</i>	(Optional) packets received
<i>rx-bytes-recv</i>	(Optional) bytes received
<i>rx-inhdrrrors</i>	(Optional) inhdr error
<i>rx-innoroutes</i>	(Optional) in-no routes
<i>rx-inaddrerrors</i>	(Optional) in-address error
<i>rx-inunknownprotos</i>	(Optional) in-unknown protocol
<i>rx-intruncatedpkts</i>	(Optional) in-truncated packets
<i>rx-inforwdgrams</i>	(Optional) in-forward
<i>rx-reasmreqds</i>	(Optional) reasm request
<i>rx-reasmoks</i>	(Optional) reasm ok
<i>rx-reasmfails</i>	(Optional) reasm fail

<i>rx-indiscards</i>	(Optional) in-discards
<i>rx-indelivers</i>	(Optional) in-delivers
<i>rx-inmcastpkts</i>	(Optional) in multicast packets
<i>rx-inmcastbytes</i>	(Optional) in multicast bytes
<i>tx-pkts-sent</i>	(Optional) packets sent
<i>tx-bytes-sent</i>	(Optional) bytes sent
<i>tx-outrequests</i>	(Optional) out request
<i>tx-outnoroutes</i>	(Optional) out no routes
<i>tx-outforwdgrams</i>	(Optional) out forwardgrams
<i>tx-outdiscards</i>	(Optional) out discards
<i>tx-outfragreqds</i>	(Optional) out fragment request
<i>tx-outfragoks</i>	(Optional) out fragment oks
<i>tx-outfragfails</i>	(Optional) out fragment fails
<i>tx-outfragcreates</i>	(Optional) out fragment creates
<i>tx-outtransmits</i>	(Optional) out transmits
<i>tx-outmcastpkts</i>	(Optional) out multicast packets
<i>tx-outmcastbytes</i>	(Optional) out multicast bytes

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> ] [ <srte-registered-out> ] [ TABLE_segment_routing <af-out> <ptag-out> <cfg-out>
<enable-out> [ <exp-null-cfg> ] ] [ TABLE_iib_list_yeild <intf-name-out> ] [ TABLE_auth <auth-lvl-out>
[ <auth-type-no-type> ] [ <auth-type-clear-text> ] [ <auth-type-md5> ] [ <auth-type-key-chain> ] [
<auth-type-none> ] [ <auth-check> ] [ <auth-no-check> ] ] [ TABLE_spf <spf-lvl-out> [ <spf-timer> ] ] [
TABLE_distribute_ls <distribute-linkst-lvl> ] ]
```

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)
<i>srte-registered-out</i>	(Optional)
TABLE_segment_routing	(Optional)
<i>af-out</i>	(Optional)
<i>ptag-out</i>	(Optional)
<i>cfg-out</i>	(Optional)
<i>enable-out</i>	(Optional)
<i>exp-null-cfg</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)
TABLE_distribute_ls	(Optional)
<i>distribute-linkst-lvl</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_adj_sid <adj-sid-value> <adj-sid-f-flag> <adj-sid-b-flag> <adj-sid-v-flag> <adj-sid-l-flag> <adj-sid-s-flag> <adj-sid-p-flag> <adj-sid-weight> } ] } ] } ] [ { 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_adj_sid	(Optional)
<i>adj-sid-value</i>	(Optional)
<i>adj-sid-f-flag</i>	(Optional)
<i>adj-sid-b-flag</i>	(Optional)
<i>adj-sid-v-flag</i>	(Optional)
<i>adj-sid-l-flag</i>	(Optional)
<i>adj-sid-s-flag</i>	(Optional)
<i>adj-sid-p-flag</i>	(Optional)
<i>adj-sid-weight</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> ] [ { TABLE_process_extis [
<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> ] [ <dbase-lsp-cap-rtrid> ] [ <dbase-lsp-cap-flags> ] [ { 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-extip-pfxsid> ] [
<dbase-lsp-extip-pfxsid-algo> ] [ <dbase-lsp-extip-pfxsid-flags> ] [ <dbase-lsp-extip-unknown-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-extipv6-pfxsid> ] [
<dbase-lsp-extipv6-pfxsid-algo> ] [ <dbase-lsp-extipv6-pfxsid-flags> ] [ <dbase-lsp-extipv6-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-extis-p2p-adsid-out> ] [ <dbase-lsp-extis-p2p-adsid-flags> ]
[ <dbase-lsp-extis-p2p-adsid-weight> ] [ <dbase-lsp-extis-lan-adsid-out> ] [ <dbase-lsp-extis-lan-adsid-sysid>
] [ <dbase-lsp-extis-lan-adsid-flags> ] [ <dbase-lsp-extis-lan-adsid-weight> ] [
<dbase-lsp-cap-subtlv-sr-start-sid> ] [ <dbase-lsp-cap-subtlv-sr-end-sid> ] [ <dbase-lsp-cap-subtlv-sr-range>
] [ <dbase-lsp-cap-subtlv-sr-flags> ] [ <dbase-lsp-subtlv-len-out> ] [ <dbase-lsp-subtlv-unknown-out> ] } ]
[ <dbase-lsp-tlv-len-out> ] [ <dbase-lsp-tlv-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
<i>detail</i>	(Optional) Display detailed IS-IS information
<i>advertise</i>	(Optional) Display advertise tlv lsp-memory information
<i>summary</i>	(Optional) Display summary IS-IS information
<i>zero-sequence</i>	(Optional) LSP with zero sequence number
<i>ip</i>	(Optional) IP attribute filter
<i>ipv6</i>	(Optional) IPv6 attribute filter
<i>prefix</i>	(Optional) Prefix filter
<i>ip-prefix</i>	(Optional) Single exact match IP prefix filter
<i>adjacency</i>	(Optional) Adjacency filter
<i>adj-id</i>	(Optional) Single exact match adjacency filter
<i>router-id</i>	(Optional) Router-id filter
<i>rid</i>	(Optional) single exact match router-id filter
<i>__readonly__</i>	(Optional)
<i>TABLE_process_tag</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>dbase-hname-absent-out</i>	(Optional)
<i>TABLE_process_lvl</i>	(Optional)
<i>dbase-level-out</i>	(Optional)
<i>TABLE_process_lsp</i>	(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)
TABLE_process_extis	(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-extip-pfxsid</i>	(Optional)
<i>dbase-lsp-extip-pfxsid-algo</i>	(Optional)
<i>dbase-lsp-extip-pfxsid-flags</i>	(Optional)
<i>dbase-lsp-extip-unknown-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-extipv6-pfxsid</i>	(Optional)
<i>dbase-lsp-extipv6-pfxsid-algo</i>	(Optional)
<i>dbase-lsp-extipv6-pfxsid-flags</i>	(Optional)
<i>dbase-lsp-extipv6-unknown-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-extis-p2p-adjsid-out</i>	(Optional)
<i>dbase-lsp-extis-p2p-adjsid-flags</i>	(Optional)
<i>dbase-lsp-extis-p2p-adjsid-weight</i>	(Optional)
<i>dbase-lsp-extis-lan-adjsid-out</i>	(Optional)
<i>dbase-lsp-extis-lan-adjsid-sysid</i>	(Optional)
<i>dbase-lsp-extis-lan-adjsid-flags</i>	(Optional)
<i>dbase-lsp-extis-lan-adjsid-weight</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)
<i>dbase-lsp-cap-rtrid</i>	(Optional)
<i>dbase-lsp-cap-flags</i>	(Optional)
<i>dbase-lsp-cap-subtlv-sr-start-sid</i>	(Optional)
<i>dbase-lsp-cap-subtlv-sr-end-sid</i>	(Optional)
<i>dbase-lsp-cap-subtlv-sr-range</i>	(Optional)
<i>dbase-lsp-cap-subtlv-sr-flags</i>	(Optional)

Command Mode

- /exec

show isis distribute-ls

```
show isis [ <isis-tag> ] distribute-ls { [ system-id <sid> ] [ lsp-id <lid> ] } [ brief ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <vrf-name-out>
<vrf-id-out> <lslib-connection-out> <client-type-out> <protocol-instance-out> <nxos-instance-out>
<ha-recovery-out> [ <queue-all-out> ] <update-timer-sec-out> <update-timer-msec-out>
<update-timer-running-out> [ <update-timer-due-in> ] [ { TABLE_process_lvl <level-out>
<level-distributing-out> [ { TABLE_ls_node [ <node-id-out> ] [ <node-name-out> ] [ { TABLE_ls_lsp
<lsp-id-out> <lsp-name-out> <lsp-purged-out> [ <node-grpid-out> ] [ <prefix-grpid-out> ] [ <link-grpid-out>
] [ <node-attr-bitfield-out> ] [ <node-flags-out> ] [ <attached-bit-out> ] [ <overloaded-bit-out> ] [ <area-id-out>
] [ <area-length-out> ] [ <name-out> ] [ <ipv4-id-out> ] [ { TABLE_srgb <number-out> <start-out> <size-out>
} ] [ <sr-algo-count-out> ] [ { TABLE_sr_algo <algo-out> } ] [ { TABLE_ls_link <nbr-node-out>
<local-ip-out> <remote-ip-out> [ <link-attr-bitfield-out> ] [ <metric-out> ] [ <local-ip-attr-out> ] [
<remote-ip-attr-out> ] [ <admin-group-out> ] [ <max-link-bw-out> ] [ <max-resv-bw-out> ] [ {
TABLE_unresv_bw <number-out> <bw-out> } ] [ <metric-te-out> ] [ { TABLE_adj_sid <asid-out> <flag-out>
<weight-out> } ] } ] [ { TABLE_ls_prefix <prefix-out> <prefix-len-out> [ <prefix-attr-bitfield-out> ] [
<metric-out> ] [ { TABLE_sid <sid-out> <algo-out> <flags-out> } ] } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
distribute-ls	Link-state distribution database
system-id	(Optional) Hostname or System ID
<i>sid</i>	(Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX)
lsp-id	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
<i>lid</i>	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
brief	(Optional) Short output
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_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>vrf-name-out</i>	(Optional)

<i>vrf-id-out</i>	(Optional)
<i>lslib-connection-out</i>	(Optional)
<i>client-type-out</i>	(Optional)
<i>protocol-instance-out</i>	(Optional)
<i>nxos-instance-out</i>	(Optional)
<i>ha-recovery-out</i>	(Optional)
<i>queue-all-out</i>	(Optional)
<i>update-timer-sec-out</i>	(Optional)
<i>update-timer-msec-out</i>	(Optional)
<i>update-timer-running-out</i>	(Optional)
<i>update-timer-due-in</i>	(Optional)
TABLE_process_lvl	(Optional)
<i>level-out</i>	(Optional)
<i>level-distributing-out</i>	(Optional)
TABLE_ls_node	(Optional)
<i>node-id-out</i>	(Optional)
<i>node-name-out</i>	(Optional)
TABLE_ls_lsp	(Optional)
<i>lsp-id-out</i>	(Optional)
<i>lsp-name-out</i>	(Optional)
<i>lsp-purged-out</i>	(Optional)
<i>node-grpid-out</i>	(Optional)
<i>prefix-grpid-out</i>	(Optional)
<i>link-grpid-out</i>	(Optional)
<i>node-attr-bitfield-out</i>	(Optional)
<i>node-flags-out</i>	(Optional)
<i>attached-bit-out</i>	(Optional)
<i>overloaded-bit-out</i>	(Optional)
<i>area-id-out</i>	(Optional)

<i>area-length-out</i>	(Optional)
<i>name-out</i>	(Optional)
<i>ipv4-id-out</i>	(Optional)
TABLE_srgb	(Optional)
<i>number-out</i>	(Optional)
<i>start-out</i>	(Optional)
<i>size-out</i>	(Optional)
<i>sr-algo-count-out</i>	(Optional)
TABLE_sr_algo	(Optional)
<i>algo-out</i>	(Optional)
TABLE_ls_link	(Optional)
<i>nbr-node-out</i>	(Optional)
<i>local-ip-out</i>	(Optional)
<i>remote-ip-out</i>	(Optional)
<i>link-attr-bitfield-out</i>	(Optional)
<i>metric-out</i>	(Optional)
<i>local-ip-attr-out</i>	(Optional)
<i>remote-ip-attr-out</i>	(Optional)
<i>admin-group-out</i>	(Optional)
<i>max-link-bw-out</i>	(Optional)
<i>max-resv-bw-out</i>	(Optional)
TABLE_unresv_bw	(Optional)
<i>number-out</i>	(Optional)
<i>bw-out</i>	(Optional)
<i>metric-te-out</i>	(Optional)
TABLE_adj_sid	(Optional)
<i>asid-out</i>	(Optional)
<i>flag-out</i>	(Optional)
<i>weight-out</i>	(Optional)

TABLE_ls_prefix	(Optional)
<i>prefix-out</i>	(Optional)
<i>prefix-len-out</i>	(Optional)
<i>prefix-attr-bitfield-out</i>	(Optional)
<i>metric-out</i>	(Optional)
TABLE_sid	(Optional)
<i>sid-out</i>	(Optional)
<i>algo-out</i>	(Optional)
<i>flags-out</i>	(Optional)

Command Mode

- /exec

show isis dynamic-flooding

```
show isis [ <isis-tag> ] dynamic-flooding [ tree-1 | tree-2 ] [ detail ] [ __readonly__ [ <df-process-tag-out> ]
[ <df-vrf-name-out> ] [ { TABLE_df_level [ <df-level-out> ] [ <df-level-config-out> ] [ <df-area-leader-cap-out> ]
[ <df-area-leader-level-out> ] [ <df-algo-name-out> ] [ <df-algorithm-out> ] [ <df-priority-out> ] [
<df-primary-leader-level-out> ] [ <df-primary-leader-algo-name-out> ] [ <df-primary-leader-algo-out> ] [
<df-primary-leader-priority-out> ] [ <df-primary-leader-sysid-out> ] [ <df-secondary-leader-level-out> ] [
<df-secondary-leader-algo-name-out> ] [ <df-secondary-leader-algo-out> ] [ <df-secondary-leader-priority-out> ]
] [ <df-secondary-leader-sysid-out> ] [ <df-reach-matrix-level-out> ] [ { TABLE_source_info [
<df-reach-source-id-info> ] [ { TABLE_neighbor_info [ <df-reach-neighbor-id-out> ] [
<df-neighbor-overall-out> ] [ <df-neighbor-tree1-out> ] [ <df-neighbor-tree2-out> ] [
<df-neighbor-interface-id-out> ] [ <df-neighbor-name-out> ] } } ] [ { TABLE_FT_interface_info [
<df-ft-interface-name-out> ] } ] [ { TABLE_Temp_interface_info [ <df-temp-ft-interface-name-out> ] } ] [
{ TABLE_broadcast_interfaceinfo [ <df-interface-name-out> ] } } ] ] ] ]
```

Syntax Description

show	Show running system information
isis	IS-IS events
<i>isis-tag</i>	(Optional) Routing process tag
dynamic-flooding	Display IS-IS information for Dynamic Flooding
tree-1	(Optional) Display dynamic-flooding information for tree-1
tree-2	(Optional) Display dynamic-flooding information for tree-2
detail	(Optional) Detail to show the Dynamic Flooding area leader
<i>__readonly__</i>	(Optional)
<i>df-process-tag-out</i>	(Optional)
<i>df-vrf-name-out</i>	(Optional)
TABLE_df_level	(Optional)
<i>df-level-out</i>	(Optional)
<i>df-level-config-out</i>	(Optional)
<i>df-area-leader-cap-out</i>	(Optional)
<i>df-area-leader-level-out</i>	(Optional)
<i>df-algo-name-out</i>	(Optional)
<i>df-algorithm-out</i>	(Optional)
<i>df-priority-out</i>	(Optional)
<i>df-primary-leader-level-out</i>	(Optional)

<i>df-primary-leader-algo-name</i>	(Optional)
<i>df-primary-leader-algo-out</i>	(Optional)
<i>df-primary-leader-priority-out</i>	(Optional)
<i>df-primary-leader-sysid-out</i>	(Optional)
<i>df-secondary-leader-level-out</i>	(Optional)
<i>df-secondary-leader-algo-name-out</i>	(Optional)
<i>df-secondary-leader-algo-out</i>	(Optional)
<i>df-secondary-leader-priority-out</i>	(Optional)
<i>df-secondary-leader-sysid-out</i>	(Optional)
<i>df-reach-matrix-level-out</i>	(Optional)
TABLE_source_info	(Optional)
<i>df-reach-source-id-info</i>	(Optional)
TABLE_neighbor_info	(Optional)
<i>df-reach-neighbor-id-out</i>	(Optional)
<i>df-neighbor-overall-out</i>	(Optional)
<i>df-neighbor-tree1-out</i>	(Optional)
<i>df-neighbor-tree2-out</i>	(Optional)
<i>df-neighbor-interface-id-out</i>	(Optional)
<i>df-neighbor-name-out</i>	(Optional)
TABLE_FT_interface_info	(Optional)
<i>df-ft-interface-name-out</i>	(Optional)
TABLE_Temp_interface_info	(Optional)
<i>df-temp-ft-interface-name-out</i>	(Optional)
TABLE_broadcast_interfaceinfo	(Optional)
<i>df-interface-name-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__ TABLE_vrf <vrf-name-out> <tag-out>
<hname-enabled-out> <hname-detail-out> [ TABLE_hostname <hname-id-out> <hname-level-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)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>tag-out</i>	(Optional)
<i>hname-enabled-out</i>	(Optional)
<i>hname-detail-out</i>	(Optional)
TABLE_hostname	(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)

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> } ] [ <intf-admin-group-out> <intf-admin-group-stale-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)
<i>intf-admin-group-out</i>	(Optional)
<i>intf-admin-group-stale-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 [ topology { [
base ] | mt-ipv6 } ] [ 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-topo-id> ] [ <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
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
direct-mask	(Optional) Display routes with direct-mask set
__readonly__	(Optional)
TABLE_process_tag	(Optional)

<i>process-tag-out</i>	(Optional)
<i>redist-route-ipv6-vrf</i>	(Optional)
<i>redist-route-ipv6-topo-id</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 | private | <ipv6-addr> [ detail | private ] | <ipv6-prefix> [ detail | private |
longer-prefixes [ summary | detail | private ] ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
{ TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [ <topo-id-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
private	(Optional) Show detail and internal information
<u>__readonly__</u>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>topo-id-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

<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 lslib

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] lslib [ cache [ nodes | links | prefixes
| node <s0> | link <s1> | prefix <s2> | links-of-node <s3> | prefixes-of-node <s4> ] [ detail ] ] [ 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
lslib	LSLIB client information
cache	(Optional) Link-state cache in LSLIB
nodes	(Optional) All Node objects
links	(Optional) All Link objects
prefixes	(Optional) All Prefix objects
node	(Optional) One node object information
<i>s0</i>	(Optional) Node information
link	(Optional) One link object information
<i>s1</i>	(Optional) Link information
prefix	(Optional) One prefix object information
<i>s2</i>	(Optional) Prefix information
links-of-node	(Optional) All links information of a node
<i>s3</i>	(Optional) Node information
prefixes-of-node	(Optional) All prefixes information of a node
<i>s4</i>	(Optional) Node information
detail	(Optional) Detailed 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

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__ TABLE_vrf <vrf-name-out> <tag-out> [
<mesh-id-set-out> ] [ <mesh-id-invalid-out> ] [ <mesh-id-none-out> ] [ { TABLE_meshid <mesh-set-id-out>
[ { TABLE_if <mesh-id-intf-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
mesh-group	Display IS-IS mesh-groups
<i>mesh-id</i>	(Optional) Display a single mesh-group
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>tag-out</i>	(Optional)
<i>mesh-id-set-out</i>	(Optional)
<i>mesh-id-invalid-out</i>	(Optional)
<i>mesh-id-none-out</i>	(Optional)
TABLE_meshid	(Optional)
<i>mesh-set-id-out</i>	(Optional)
TABLE_if	(Optional)
<i>mesh-id-intf-name-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
<u>__readonly__</u>	(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 | private
| <ip-addr> [ detail | private ] | <ip-prefix> [ detail | private | longer-prefixes [ summary | detail | private ] ] ]
[ 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
private	(Optional) Show detail and internal information

<code>__readonly__</code>	(Optional)
<code>TABLE_process_tag</code>	(Optional)
<code>process-tag-out</code>	(Optional)
<code>TABLE_vrf</code>	(Optional)
<code>vrf-name-out</code>	(Optional)
<code>afi-safi-out</code>	(Optional)
<code>TABLE_prefix</code>	(Optional)
<code>route-prefix-out</code>	(Optional)
<code>route-mask-len-out</code>	(Optional)
<code>route-level-out</code>	(Optional)
<code>route-summ-discard-addr-out</code>	(Optional)
<code>route-summ-discard-mask-len-out</code>	(Optional)
<code>route-discard-addr-out</code>	(Optional)
<code>route-discard-mask-len-out</code>	(Optional)
<code>route-addr-print-out</code>	(Optional)
<code>route-mask-len-print-out</code>	(Optional)
<code>route-direct-print-out</code>	(Optional)
<code>TABLE_direct_path</code>	(Optional)
<code>route-direct-out</code>	(Optional)
<code>route-direct-via-out</code>	(Optional)
<code>route-direct-if-name-out</code>	(Optional)
<code>route-direct-metric-out</code>	(Optional)
<code>route-direct-level-out</code>	(Optional)
<code>route-direct-instance-out</code>	(Optional)
<code>TABLE_best_path</code>	(Optional)
<code>route-no-def-prefix-out</code>	(Optional)
<code>route-def-prefix-out</code>	(Optional)
<code>route-addr-valid-out</code>	(Optional)
<code>route-marker-out</code>	(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 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-limit> <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
<i>__readonly__</i>	(Optional)
<i>TABLE_process_tag</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>rrm-if-name</i>	(Optional)
<i>TABLE_rrm</i>	(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-limit</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 segment-routing mapcache

```
show isis [ <isis-tag> ] segment-routing mapcache [ level-1 | level-2 ] [ <ipv4-prefix> ] [ sid <sr-sid> ] [ vrf
{ <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> {
TABLE_vrf <vrf-name-out> <srmap-v4-state> <srmap-v6-state> [ { TABLE_srmap_level <srmap-level> [
{ TABLE_srmap_pfxsid <srmap-pfxsid> <srmap-lsp-id> <srmap-pfxsid-valid> <srmap-pfxsid-flags>
<srmap-prefix> } ] } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
segment-routing	show segment-routing information
mapcache	prefix-sid mappings
level-1	(Optional) show information for level 1 only
level-2	(Optional) show information for level 2 only
<i>ipv4-prefix</i>	(Optional) Display single exact match IP route
sid	(Optional) show information for this SR SID value
<i>sr-sid</i>	(Optional) SR SID 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
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>srmap-v4-state</i>	(Optional)
<i>srmap-v6-state</i>	(Optional)
TABLE_srmap_level	(Optional)
<i>srmap-level</i>	(Optional)

TABLE_srmap_pfxsid	(Optional)
<i>srmap-pfxsid</i>	(Optional)
<i>srmap-lsp-id</i>	(Optional)
<i>srmap-pfxsid-valid</i>	(Optional)
<i>srmap-pfxsid-flags</i>	(Optional)
<i>srmap-prefix</i>	(Optional)

Command Mode

- /exec

show isis segment-routing remote-srgb

```
show isis [ <isis-tag> ] segment-routing remote-srgb [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <sr-v4-state>
<sr-v6-state> [ { TABLE_srgb_lsp <srgb-level> <srgb-lspid> <srgb-num-entries> <srgb-flags> [ {
TABLE_srgb_label <srgb-start-label> <srgb-range> } ] } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
segment-routing	show segment-routing information
remote-srgb	remote SR 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
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>sr-v4-state</i>	(Optional)
<i>sr-v6-state</i>	(Optional)
TABLE_srgb_lsp	(Optional)
<i>srgb-level</i>	(Optional)
<i>srgb-lspid</i>	(Optional)
<i>srgb-num-entries</i>	(Optional)
<i>srgb-flags</i>	(Optional)
TABLE_srgb_label	(Optional)
<i>srgb-start-label</i>	(Optional)

<i>srgb-range</i>	(Optional)
-------------------	------------

Command Mode

- /exec

show isis segment-routing sids

```
show isis [ <isis-tag> ] segment-routing sids [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
{ TABLE_process_tag <process-tag-out> <vrf-name-out> [ { TABLE_sr_sids <sr-sid> [ <sr-prefix> ] [
<sr-local-flag> ] [ <sr-conflict-flag> ] } } ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
segment-routing	show segment-routing information
sids	sid database
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_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_sr_sids	(Optional)
<i>sr-sid</i>	(Optional)
<i>sr-prefix</i>	(Optional)
<i>sr-local-flag</i>	(Optional)
<i>sr-conflict-flag</i>	(Optional)

Command Mode

- /exec

<i>date-out</i>	(Optional)
TABLE_lvl_detail	(Optional)
<i>lvld-out</i>	(Optional)
<i>instance-out</i>	(Optional)
<i>init-ts-out</i>	(Optional)
<i>ts-lvl-out</i>	(Optional)
<i>ts-is-out</i>	(Optional)
<i>ts-urib-out</i>	(Optional)
<i>ts-elapsed-out</i>	(Optional)
TABLE_lvl_second	(Optional)
<i>lvls-out</i>	(Optional)
<i>spf-node-out</i>	(Optional)
<i>spf-cnt-out</i>	(Optional)
<i>changed-cnt-out</i>	(Optional)
<i>spf-reason-out</i>	(Optional)
TABLE_log_brief	(Optional)
<i>ago-time-out</i>	(Optional)
TABLE_lvl	(Optional)
<i>lvl-out</i>	(Optional)
<i>reason-out</i>	(Optional)
<i>count-out</i>	(Optional)
<i>elapsed-ts-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
<i>__readonly__</i>	(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> <snif-name> [ { TABLE_ssn <sn-level> <sn-psnp-eligible> <sn-next-psnp> <sn-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>snif-name</i>	(Optional)
TABLE_ssn	(Optional)
<i>sn-level</i>	(Optional)
<i>sn-psnp-eligible</i>	(Optional)
<i>sn-next-psnp</i>	(Optional)
<i>sn-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__ [ { TABLE_interface_set [ <stat-if-out> ] [
<process-tag-out> ] [ <vrf-name-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)
TABLE_interface_set	(Optional)
<i>stat-if-out</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>vrf-name-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

<i>addr-lvl-out</i>	(Optional)
<i>addr-num-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 [ base | mt-ipv6 ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <topology-vrf>
<topo-id-out> [ { 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
base	(Optional) Display routes for BASE topology
mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology
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
<u>__readonly__</u>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>topology-vrf</i>	(Optional)
<i>topo-id-out</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

show itd

```
show itd [<svc-name>][brief][__readonly__<is_detail>[TABLE_summary<is_active><service_name>
<is_include_acl><probe><lb_scheme><state><buckets>[<interface_num>][<interface>][
TABLE_interface<interface_grp>][<reason>][<src_interface>][<vrf_name>][<excludeACL>][
<peer_status>][TABLE_device<device_grp><dg_probe><dg_probe_port>][<is_firstentry_routemap>
][TABLE_route_map[<route_map>][TABLE_rmap_interface[<r_interface>][<r_status>][
<int_track_id>]]][TABLE_vip[<vip_acl_key>][<vip_probe>][<vip_port>][<ace_buckets>][
<vip_dgname>][<is_firstentry_vip_node>][TABLE_vip_node<is_vip_node_ipv6><vip_node>
<vip_config><vip_weight><vip_node_probe><vip_node_probe_port><vip_node_probe_ip><vip_status>
<vip_track_id><vip_ip_sla_id>[<is_firstentry_standby>][TABLE_vip_standby
<is_standby_vip_node_ipv6><vip_standby_ip><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>][<is_firstentry_acl>][TABLE_vip_acl[<vip_access_list>
]]][<is_firstentry>][TABLE_node<is_node_ipv6><node><config><weight><node_probe>
<node_probe_port><node_probe_ip><status><track_id><ip_sla_id>[<is_first_def_stdby>][
TABLE_standby<is_standby_node_ipv6><standby_ip><standby_config><standby_weight>
<standby_probe><standby_probe_port><standby_probe_ip><standby_status><standby_track_id>
<standby_sla_id>][<is_first_defdg_acl>][TABLE_acl[<access_list>]]][<is_lastentry>]]
```

Syntax Description

show	Show running system information
itd	ITD service
<i>svc-name</i>	(Optional) ITD service name
brief	(Optional) brief
<i>__readonly__</i>	(Optional) Read Only
<i>is_firstentry</i>	(Optional) First entry
<i>is_firstentry_vip_node</i>	(Optional) First VIP node entry
<i>is_detail</i>	(Optional) In detail
<i>is_active</i>	(Optional) Is active
<i>is_firstentry_routemap</i>	(Optional) Is first route-map entry
<i>is_firstentry_acl</i>	(Optional) Is first acl entry
<i>is_firstentry_standby</i>	(Optional) Is first standby entry
<i>is_include_acl</i>	(Optional) Is include acl
<i>is_first_defdg_acl</i>	(Optional) Is first default dg acl
TABLE_summary	(Optional)
<i>service_name</i>	(Optional) service_name

<i>probe</i>	(Optional) probe
<i>lb_scheme</i>	(Optional) lb scheme
<i>interface_num</i>	(Optional) Number of ingress interfaces
<i>interface</i>	(Optional) interface
TABLE_interface	(Optional)
<i>interface_grp</i>	(Optional) interface_grp
<i>src_interface</i>	(Optional) source interface for probe
<i>state</i>	(Optional) state
<i>buckets</i>	(Optional) buckets
<i>reason</i>	(Optional) inactive reason
<i>vrf_name</i>	(Optional) VRF-Name
<i>excludeACL</i>	(Optional) exclude 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
TABLE_rmap_interface	(Optional)
<i>r_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_acl_key</i>	(Optional) vip ip or acl name
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
<i>vip_dgname</i>	(Optional) vip device group
<i>ace_buckets</i>	(Optional) ace active buckets

TABLE_vip_node	(Optional)
<i>is_vip_node_ipv6</i>	(Optional) is node ipv6
<i>vip_node</i>	(Optional) service node ip
<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>is_standby_vip_node_ipv6</i>	(Optional) is standby node ipv6
<i>vip_standby_ip</i>	(Optional) standby node ip
<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>is_node_ipv6</i>	(Optional) is node ipv6
<i>node</i>	(Optional) service node ip
<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
<i>is_first_def_stdby</i>	(Optional) first default dg standby
TABLE_standby	(Optional)
<i>is_standby_node_ipv6</i>	(Optional) is standby node ipv6
<i>standby_ip</i>	(Optional) standby node ip
<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
<i>is_lastentry</i>	(Optional) last entry

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 { <svc-name> | all } [ { src { <src-ip> | <src-IPv6> } } | { dst { <dst-ip> | <dst-IPv6> } } ] statistics
[ brief ] [ __readonly__ [ TABLE_nice [ <is_for_ace> ] <service_name> <dev_grp> [ <vip> ] [ <ace_seq> ]
[ <ace_ip> ] <vip_pkt> <percentage> [ TABLE_node <node_num> [ TABLE_bucket <bucket_acl> <node>
<mode> <orig_node> <acl_pkt> <bucket_per> ] ] ] ] ]
```

Syntax Description

show	Show running system information
__readonly__	(Optional) Read Only
itd	ITD service
statistics	ITD statistics
brief	(Optional) brief
<i>svc-name</i>	ITD 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
TABLE_nice	(Optional)
<i>is_for_ace</i>	(Optional)
<i>service_name</i>	(Optional) ITD service name
<i>dev_grp</i>	(Optional) device group
<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>percentage</i>	(Optional) Packet percentage
TABLE_node	(Optional)
<i>node_num</i>	(Optional) Node number
TABLE_bucket	(Optional)

<i>bucket_acl</i>	(Optional) access list
<i>node</i>	(Optional) service node ip
<i>mode</i>	(Optional) Redirect mode
<i>orig_node</i>	(Optional) original node ip
<i>acl_pkt</i>	(Optional) acl pkt count
<i>bucket_per</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



K Show Commands

- [show key chain, on page 1594](#)
- [show key chain mode decrypt, on page 1595](#)
- [show keystore, on page 1596](#)
- [show kim inconsistency, on page 1597](#)
- [show kubernetes containers, on page 1598](#)

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)
<i>TABLE_keychain</i>	(Optional)
<i>TABLE_key</i>	(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)
<i>TABLE_keychain_decrypt</i>	(Optional)
<i>TABLE_key</i>	(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 Checksums
<i>rx_bad_fragment_lengths</i>	(Optional) Bad fragment lengths 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 kubernetes containers

show kubernetes containers [brief | interface <if_name>]

Syntax Description

show	Show running system information
kubernetes	Show kubernetes
containers	containers
brief	(Optional) Show brief information
interface	(Optional) Interface name
<i>if_name</i>	(Optional) Physical interface

Command Mode

- /exec



L Show 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
<i>__readonly__</i>	(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 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 cmcast topology

```
show l2route cmcast { topology <topo-id> | all } [ detail ] [ __readonly__ TABLE_l2route_cmcast <topo-id>
<src-ip-addr> <grp-ip-addr> <peer-ip-addr> [ <peer-type> ] [ <prod-type> ] [ <peer-id> ] [ <vrf-id> ] [
<l3vni-id> ] ]
```

Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
cmcast	CMCAST Route
topology	Filter on topology ID
<i>topo-id</i>	topology ID
all	Display all routes without filtering
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_cmcast	(Optional) L2RIB CMCAST Table
<i>topo-id</i>	(Optional) Topology ID
<i>src-ip-addr</i>	(Optional) SRC IP Address
<i>grp-ip-addr</i>	(Optional) GRP IP Address
<i>peer-ip-addr</i>	(Optional) PEER IP Address
<i>peer-type</i>	(Optional) Peer Type
<i>prod-type</i>	(Optional) Producer Type
<i>peer-id</i>	(Optional) Peer ID
<i>vrf-id</i>	(Optional) VRF ID
<i>l3vni-id</i>	(Optional) L3VNI ID

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>
<host-ip> <prod-type> <flags> <seq-num> <next-hop1> [ <next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [
<rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id> ] [ <soo> ] [ <pcinfo> ] [ <vrf-id> ] [
<encap-type> ] ]
```

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>host-ip</i>	(Optional) Host IP
<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>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
<i>vrf-id</i>	(Optional) vrf id associated with route
<i>encap-type</i>	(Optional) Overlay encap type

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> <host-ip> <prod-type> <flags> <seq-num> <next-hop1>
[ <next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [ <rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id>
] [ <soo> ] [ <pcinfo> ] [ <vrf-id> ] [ <encap-type> ] ]
```

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
__readonly__	(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>host-ip</i>	(Optional) Host IP
<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>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
<i>vrf-id</i>	(Optional) vrf-id associated with route
<i>encap-type</i>	(Optional) Overlay encap type

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> ] [ <encap-type> ] ]
```

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>encap-type</i>	(Optional) Overlay encap type
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2

Command Mode

- /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> ] [ <encap-type>
] ]
```

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
<i>encap-type</i>	(Optional) Overlay encap-type

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 { mac-ip | openflow mac-ip } { topology <topo-id> | all } [ detail ] [ __readonly__
TABLE_l2route_mac_ip <topo-id> <mac-addr> <host-ip> <prod-type> <flags> <seq-num> <next-hop1> [
<next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [ <rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id>
] [ <soo> ] [ <pcinfo> ] [ <vrf-id> ] [ <encap-type> ] ]
```

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	(Optional) L2RIB Mac-IP Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>host-ip</i>	(Optional) Host IP
<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>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
<i>vrf-id</i>	(Optional) vrf-id associated with route
<i>encap-type</i>	(Optional) Ovaerlay encap type

Command Mode

- /exec

show l2route topology

```
show l2route topology [ <topo_id> ] [ detail ] [ __readonly__ TABLE_l2route_topology <topo-id> <topo-name>
<topo-type> [ <vni> ] [ <evi> ] [ <encap-type> ] [ <iod> ] [ <if-hdl> ] [ <vtep-ip> ] [ <emulated-ip> ] [
<emulated-ro-ip> ] [ <tx-id> ] [ <rcvd-flag> ] [ <rmac> ] [ <vrf-id> ] [ <vmac> ] [ <vmac-ro> ] [ <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>evi</i>	(Optional) EVI
<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>vmac-ro</i>	(Optional) Local Virtual MAC Re-Orig(For Multi-site)
<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> ] [ <encap-type> ] ]
```

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)
<i>TABLE_l2route_mac</i>	(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
<i>encap-type</i>	(Optional) Overlay encap type

Command Mode

- /exec

show lacp counters

```
show lacp counters [ interface <if0> ] [ detail ] [ __readonly__ TABLE_interface <interface> TABLE_member
<port> <pdu-sent> <pdu-rcvd> <marker-rcvd> <marker-resp-sent> [ <marker-sent> ] [ <marker-resp-rcvd>
] <pkt-errors> [ <pdu-timeout-count> ] [ <flap-count> ] [ <illegal-rcvd> ] [ <unknown-rcvd> ] ]
```

Syntax Description

show	Show running system information
lacp	LACP protocol
counters	LACP counters
interface	(Optional) Specify a port-channel
detail	(Optional) For more counters
<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-sent</i>	(Optional) Number of Marker PDUs sent
<i>marker-rcvd</i>	(Optional) Number of Marker PDUs received
<i>marker-resp-sent</i>	(Optional) Number of Marker response PDUs sent
<i>marker-resp-rcvd</i>	(Optional) Number of Marker response PDUs received
<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
<i>pdu-timeout-count</i>	(Optional) Number of PDU timeouts
<i>flap-count</i>	(Optional) Number of flaps

Command Mode

- /exec

show lacp interface

```
show lacp interface [ <if0> ] [ __readonly__ { TABLE_lacp_intf <interface> <operational-state>
<channel-group> <port-channel> <p dus-sent> <p dus-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)
TABLE_lacp_intf	(Optional) Table of LACP interfaces
<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>p dus-rcvd</i>	(Optional) PDUs received
<i>p dus-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
localport	(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
partnerport	(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> [ <failed_interface> ] [ <intf_issu_ready> ] ]
```

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
<i>failed_interface</i>	(Optional) ISSU failed interface
<i>intf_issu_ready</i>	(Optional) interfaces ready for issu

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)
TABLE_interface	(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 lcmd stats interface

show lcmd stats interface <interface>

Syntax Description

show	Show running system information
lcmd	lcmd
stats	statistics
interface	get interface related stats at lcmd level
<i>interface</i>	Interface name to display

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
<i>TABLE_ldap_searchmaps</i>	(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> <h_referral_disable> } ]
```

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>h_referral_disable</code>	(Optional) Ldap host referral chasing disable
<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 group 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_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
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
monitoring_statistics	(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
auth_statistics	(Optional) Authentication Statistics
acct_statistics	(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_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 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
__readonly__	(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 default

```
show license default [ __readonly__ { TABLE_lic_default <feature_name> <def_lic_count> } ]
```

Syntax Description

show	Show running system information
license	show the contents of all the license files
default	Show services using default license
<i>__readonly__</i>	(Optional) Read Only
<i>feature_name</i>	(Optional) Licensed Feature Name
TABLE_lic_default	(Optional)
<i>def_lic_count</i>	(Optional) Default License Count

Command Mode

- /exec

show license feature package mapping

```
show license feature package mapping [ __readonly__ { [ <app_name> [ <lc_type> <flags> <pkg_name>
<version> ]+ ] + } [ <null_map> ] } ]
```

Syntax Description

show	Show running system information
license	show the contents of all the license files
feature	Show application name
package	Show license package name
mapping	Show mapping between application and package name
<i>__readonly__</i>	(Optional) Read only
<i>app_name</i>	(Optional) Name of the application
<i>lc_type</i>	(Optional) Lincard type
<i>flags</i>	(Optional) Are all licenses required
<i>pkg_name</i>	(Optional) License Package Name
<i>version</i>	(Optional) License version
<i>null_map</i>	(Optional) No mappings defined

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.
__readonly__	(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 tech support

show license tech support

Syntax Description

show	show commands
license	Display licensing information
tech	Gather information for troubleshooting
support	Gather information for troubleshooting

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> ]
+ } ] ] [ <auth_status> [ TABLE_show_smart_lic_usage { <smart_feature_name> <smart_description>
<smart_count> <smart_version> <smart_status> } ] ] } ]
```

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 usage of this license package
<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
<i>auth_status</i>	(Optional) Brief about smart license usage
TABLE_show_smart_lic_usage	(Optional) Smart License usage
<i>smart_feature_name</i>	(Optional) Name of the feature
<i>smart_description</i>	(Optional) Description of the entitlement
<i>smart_count</i>	(Optional) License count
<i>smart_version</i>	(Optional) License version
<i>smart_status</i>	(Optional) License status

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
__readonly__	(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
<i>__readonly__</i>	(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 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 <if_in> [ __readonly__ <if_out> <cfg_proto> <det_proto> [ <l_op_ver> <l_max_ver>
<l_seq_no> <l_ack_no> ] [ <l_feature> <l_feat_len> <l_cfg> ] + [ <p_op_ver> <p_max_ver> <p_seq_no>
<p_ack_no> ] [ <p_tlv_type> <p_tlv_ctrl> <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>if_in</i>	Enter interface
<i>__readonly__</i>	(Optional)
<i>if_out</i>	(Optional) Interface ID
<i>cfg_proto</i>	(Optional) Configured DCBX Protocol
<i>det_proto</i>	(Optional) DCBX Protocol detected
<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_feat_len</i>	(Optional) Local Feature 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_ctrl</i>	(Optional) peer TLV control info
<i>p_tlv_len</i>	(Optional) Peer TLV Length
<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> <hold_time> [ <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>hold_time</i>	(Optional) Hold time
<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> } { <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>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> <power-management> <system-capabilities> <system-description> <system-name>
<dcbxp-cin-cee> [ <dcbxp-cn> ] [ <dcbxp-ets-cfg> ] [ <dcbxp-ets-reco> ] [ <dcbxp-pfc-cfg> ] [
<dcbxp-app-pri> ] [ <dcbxp-app-vlan> ] ]
```

Syntax Description

show	Show running system information
lldp	Show information about lldp
tlv-select	Show lldp tlv-select
__readonly__	(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>power-management</i>	(Optional) IEEE 802.3 DTE Power via MDI TLV
<i>system-capabilities</i>	(Optional) System capabilities
<i>system-description</i>	(Optional) System description
<i>system-name</i>	(Optional) System name
<i>dcbxp-cin-cee</i>	(Optional) DCBXP CIN or CEE
<i>dcbxp-cn</i>	(Optional) DCBXP Congestion Notification
<i>dcbxp-ets-cfg</i>	(Optional) DCBXP ETS Configuration
<i>dcbxp-ets-reco</i>	(Optional) DCBXP ETS Recommendation
<i>dcbxp-pfc-cfg</i>	(Optional) DCBXP PFC Configuration
<i>dcbxp-app-pri</i>	(Optional) DCBXP Application Priorities
<i>dcbxp-app-vlan</i>	(Optional) DCBXP Application VLAN's

Command Mode

- /exec

show lldp traffic

```
show lldp traffic [ __readonly__ <tx_cnt> <aged_cnt> <rx_cnt> <rx_err> <disc_cnt> <unrecognized_tlv>
<flap_cnt> ]
```

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
<i>flap_cnt</i>	(Optional) flap 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> <flap_cnt> ]
```

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
<i>flap_cnt</i>	(Optional) flap count

Command Mode

- /exec

show lldp traffic interface all

```
show lldp traffic interface all [ __readonly__ TABLE_lldp_traffic_interface <interface> <tx_cnt> <aged_cnt>
<rx_cnt> <rx_err> <disc_cnt> <unrecognized_tlv> <flap_cnt> ]
```

Syntax Description

show	Show running system information
lldp	Show information about lldp
traffic	Show lldp counters
interface	Show lldp traffic counters on an interface
all	Get status for all interfaces
<i>__readonly__</i>	(Optional)
<i>TABLE_lldp_traffic_interface</i>	(Optional) LLDP traffic interface table
<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
<i>flap_cnt</i>	(Optional) flap count

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
__readonly__	(Optional)
TABLE_loc_led_stat	(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 dropcount

show logging dropcount

Syntax Description

show	logging dropcount
logging	Show logging drop count of syslogs
dropcount	Show logging dropcount

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> [
<transport> ] } ] } { <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>transport</i>	(Optional) remote server transport
<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 } ] [ __readonly__ { TABLE_facility <fac_name>
<def_level> <cur_level> } ]
```

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
__readonly__	(Optional)

<i>fac_name</i>	(Optional) facility names
TABLE_facility	(Optional)
<i>def_level</i>	(Optional) default severity
<i>cur_level</i>	(Optional) current severity

Command Mode

- /exec

show logging level

show logging level

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 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 assoc_mgr

show logging level assoc_mgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
assoc_mgr	Show Association Manager Logging Configuration

Command Mode

- /exec

show logging level backup

show logging level { backup | flexlink }

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
backup	Show Switchport Backup logging level
flexlink	Show Switchport Backup logging level

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 catena

show logging level catena

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
catena	Show catena 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 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 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 ecp

show logging level ecp

Syntax Description

show	Show running system information
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ecp	Set syslog filter level for ECP

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
eltm	Show eltm logging configuration

Command Mode

- /exec

show logging level epp

show logging level epp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
epp	Show epp 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 fcoe_mgr

show logging level fcoe_mgr

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
fcoe_mgr	Show fcoe_mgr 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 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 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 hardware-telemetry

show logging level hardware-telemetry

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
hardware-telemetry	Show hardware-telemetry 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 icam

show logging level icam

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
icam	Show icam 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 imp

show logging level imp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
imp	Show imp 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 ip sla twamp-server

show logging level ip sla twamp-server

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)
twamp-server	Show sla-twamp-server 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 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 ngmvpn

show logging level ngmvpn

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ngmvpn	Show ngmvpn 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 npv

show logging level npv

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
npv	Show npv logging configuration

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 openflow

show logging level openflow

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
openflow	Show OpenFlow agent logging configuration

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 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 [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 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 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 plbm

show logging level plbm

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
plbm	Show plbm 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 poed

show logging level poed

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
poed	Show PoE Daemon 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-resources

show logging level port-resources

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
port-resources	Show port-resources logging configuration

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 port

show logging level port

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
port	Show port 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 san-port-channel

show logging level san-port-channel

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
san-port-channel	Show san-port-channel logging configuration

Command Mode

- /exec

show logging level san-port-channel

show logging level san-port-channel

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
san-port-channel	Show san-port-channel 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 segment-routing

show logging level segment-routing

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
segment-routing	Show SR 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 smartc

show logging level smartc

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
smartc	Show smartc 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 template_manager

show logging level template_manager

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
template_manager	Show template manager logging configuration

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 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 vsan

show logging level vsan

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
vsan	Show vsan logging 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 wwn

show logging level wwn

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
wwn	Show wwn 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
s0	(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
i0	(Optional)
common_options	(Optional) give the options
port1	(Optional) Show OBFL error statistics for a port
i1	(Optional)
module	(Optional) Show OBFL information for Module
module	(Optional) Enter module number
endtime1	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
s1	(Optional) End time format - mm/dd/yy-HH:MM:SS
port3	(Optional) Show OBFL error statistics for a port
i3	(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 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 rate-limit

show logging rate-limit

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
rate-limit	Show rate limit configuration

Command Mode

- /exec

show logging rfc-strict

show logging rfc-strict

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
rfc-strict	Show RFC to which messages are compliant

Command Mode

- /exec

show logging server

```
show logging server [ __readonly__ [ <server_status> ] [ { TABLE_logserv <server> <forwarding> <severity>
<facility> <vrf> <port> [ <transport> ] } ] ]
```

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>server_status</code>	(Optional) logging server 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
<code>transport</code>	(Optional) remote server transport

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 { [ { <maclist-name> | <maclist-cfg-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>maclist-name</i>	(Optional) Name of mac-list
<i>maclist-cfg-name</i>	(Optional) Known mac-list name
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>fe1</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-ipv4> |
peer-ipv6 <peer-ipv6> ] ] + } | { [ address3 <mac-addr> | interface2 <interface-name> | vni1 <vni-id> | es {
<esid-opt1> | <esid-opt2> | all } ] + } ] [ __readonly__ [ { 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
peer-ipv6	(Optional) VXLAN Peer IPv6 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
__readonly__	(Optional)
TABLE_mac_address	(Optional) Mac address table
<i>disp_is_static</i>	(Optional) Static/Dynamic

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> | peer-ipv6 <peer-ipv6> ] ] + } ] [ __readonly__ TABLE-macaddtblcount [ <id-out> ] [ <count_str>
] [ <total_cnt> ] [ <dyn_cnt> ] [ <otv_cnt> ] [ <static_cnt> ] [ <secure_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
peer-ipv6	(Optional) VXLAN Peer IPv6 Address
<i>__readonly__</i>	(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>otv_cnt</i>	(Optional) OTV count
<i>static_cnt</i>	(Optional) Static count
<i>secure_cnt</i>	(Optional) Secure count

Command Mode

- /exec

show mac address-table count es

```
show mac address-table count es { <es-id> | <es-id2> | all } [ __readonly__ { [ <es-id> ] [ <count> ] [
TABLE_macaddtblcount <es-idx> <es-count> ] } ]
```

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:EE ESID
<i>es-id2</i>	EEEE.EEEE.EEEE.EEEE.EEEE ESID
all	all ESIs
__readonly__	(Optional)
<i>es-id</i>	(Optional) Specific ESID
<i>count</i>	(Optional) Number of entries for specific ESID
TABLE_macaddtblcount	(Optional) Display all ESID and its count in mac table
<i>es-idx</i>	(Optional) ESID
<i>es-count</i>	(Optional) Number of entries

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 limit

show mac address-table limit { all | system | vlan | interface } [__readonly__ <limit_str> <limit>]

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
limit	Configured/default mac limit
__readonly__	(Optional)
<i>limit_str</i>	(Optional) Limit info
<i>limit</i>	(Optional) Mac limit
all	Display Mac Limit All
system	System-wide
vlan	VLAN
interface	Interface

Command Mode

- /exec

show mac address-table limit user-defined

show mac address-table limit user-defined [*__readonly__* <*user_cnt*> <*fhrp_cnt*>]

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
limit	mac limit
user-defined	limit the number of unique mac addresses used on any type of L3 interface
<i>__readonly__</i>	(Optional)
<i>user_cnt</i>	(Optional) user defined mac limit
<i>fhrp_cnt</i>	(Optional) fhrp limit

Command Mode

- /exec

show mac address-table loop-detect

```
show mac address-table loop-detect [ __readonly__ <port_loop_detect> ]
```

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
loop-detect	Display Action for Mac Loop Detection
<i>__readonly__</i>	(Optional)
<i>port_loop_detect</i>	(Optional) Display Port Down Action Mac Loop Detect is enabled or disabled

Command Mode

- /exec

show mac address-table multicast

```
show mac address-table multicast [ vlan <vlan> | bridge-domain <bdid> ] [ __readonly__ [ TABLE_mac [
<vlan-id> ] [ <mac-addr> ] [ <type> ] [ <age> ] [ 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
<i>__readonly__</i>	(Optional)
TABLE_mac	(Optional)
<i>vlan-id</i>	(Optional)
<i>mac-addr</i>	(Optional)
<i>type</i>	(Optional)
<i>age</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 configuration commands
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 scalar

```
show mac scalar [ __readonly__ <cmnMACMoveAddress> <cmnMACMoveVlanNumber>
<cmnMACMoveFromPortId> <cmnMACMoveToPortId> <cmnMACMoveTime> ]
```

Syntax Description

show	Show running system information
mac	MAC configuration commands
scalar	cmn mib scalars
__readonly__	(Optional)
<i>cmnMACMoveAddress</i>	(Optional) mac move address
<i>cmnMACMoveVlanNumber</i>	(Optional) mac vlan number
<i>cmnMACMoveFromPortId</i>	(Optional) from port id
<i>cmnMACMoveToPortId</i>	(Optional) to port id
<i>cmnMACMoveTime</i>	(Optional) move time

Command Mode

- /exec

show macsec mka

```
show macsec mka [ summary ] [ __readonly__ [ <macsec_status> ] [ TABLE_mka_summary <ifname>
<status> <cipher> <keyserver> <policy> <keychain> <fallback_keychain> ] ]
```

Syntax Description

show	Show running system information
macsec	Show MACSEC information
mka	Show MKA information
summary	(Optional) Show MKA summary information
__readonly__	(Optional)
<i>macsec_status</i>	(Optional) Macsec status
TABLE_mka_summary	(Optional)
<i>ifname</i>	(Optional) Interface
<i>status</i>	(Optional) MACSEC Session status
<i>cipher</i>	(Optional) Operational MACSEC Cipher-suite
<i>keyserver</i>	(Optional) Is this acting as interface key-server
<i>policy</i>	(Optional) MACSEC Policy applied to interface
<i>keychain</i>	(Optional) Keychain associated with interface
<i>fallback_keychain</i>	(Optional) Keychain associated with interface

Command Mode

- /exec

<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>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>peer_count</i>	(Optional) Peer Count
<i>mac_addr</i>	(Optional) Eapol Dest mac
<i>ether_type</i>	(Optional) Eapol ether type
TABLE_mka_peer_status	(Optional)
<i>peer_mi</i>	(Optional) Peer MI
<i>rxsci</i>	(Optional) RxSCI
<i>icv_status</i>	(Optional) Peer CAK
<i>last_rx_time</i>	(Optional) Latest Rx MKPDU
TABLE_mka_fallback	(Optional)
<i>fallback_ckn</i>	(Optional) Fallback CAK Name
<i>fallback_mi</i>	(Optional) Fallback Member Identifier

<i>fallback_mn</i>	(Optional) Fallback Message Number
TABLE_mka_fallback_peer	(Optional)
<i>fallback_peer_mi</i>	(Optional) Peer MI
<i>fallback_rxsci</i>	(Optional) RxSCI
<i>fallback_icv_status</i>	(Optional) Peer CAK
<i>fallback_last_rx_time</i>	(Optional) Latest Rx MKPDU
<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

show macsec mka statistics

```

show macsec mka statistics [ interface <iname> ][ __readonly__ [ <macsec_status> ] [ TABLE_mka_intf_stats
[ [ <iname2> ] [ TABLE_ca_stats [ [ <ca_stat_ckn> ] [ <ca_stat_pairwise_cak_rekey> ] [
<sa_stat_sak_generated> ] [ <sa_stat_sak_rekey> ] [ <sa_stat_sak_received> ] [ <sa_stat_sak_response_rx>
] [ <mkpdu_stat_mkpdu_tx> ] [ <mkpdu_stat_mkpdu_tx_distsak> ] [ <mkpdu_stat_mkpdu_rx> ] [
<mkpdu_stat_mkpdu_rx_distsak> ] ] ] [ TABLE_idb_stats [ [ <ca_stat_pairwise_cak_rekey> ] [
<sa_stat_sak_generated> ] [ <sa_stat_sak_rekey> ] [ <sa_stat_sak_received> ] [ <sa_stat_sak_response_rx>
] [ <mkpdu_stat_mkpdu_tx> ] [ <mkpdu_stat_mkpdu_tx_distsak> ] [ <mkpdu_stat_mkpdu_rx> ] [
<mkpdu_stat_mkpdu_rx_distsak> ] [ <idb_stat_mkpdu_tx_success> ] [ <idb_stat_mkpdu_tx_fail> ] [
<idb_stat_mkpdu_tx_pkt_build_fail> ] [ <idb_stat_mkpdu_no_tx_on_intf_down> ] [
<idb_stat_mkpdu_no_rx_on_intf_down> ] [ <idb_stat_mkpdu_rx_ca_notfound> ] [ <idb_stat_mkpdu_rx_error>
] [ <idb_stat_mkpdu_rx_success> ] [ <idb_stat_mkpdu_failure_rx_integrity_check_error> ] [
<idb_stat_mkpdu_failure_invalid_peer_mn_error> ] [ <idb_stat_mkpdu_failure_nonrecent_peerlist_mn_error>
] [ <idb_stat_mkpdu_failure_sakuse_kn_mismatch_error> ] [
<idb_stat_mkpdu_failure_sakuse_rx_not_set_error> ] [
<idb_stat_mkpdu_failure_sakuse_key_mi_mismatch_error> ] [
<idb_stat_mkpdu_failure_sakuse_an_not_in_use_error> ] [
<idb_stat_mkpdu_failure_sakuse_ks_rx_tx_not_set_error> ] [
<idb_stat_mkpdu_failure_sakuse_eapol_ethertype_mismatch_error> ] [
<idb_stat_mkpdu_failure_sakuse_eapol_destmac_mismatch_error> ] [
<idb_stat_sak_failure_sak_generate_error> ] [ <idb_stat_sak_failure_hash_generate_error> ] [
<idb_stat_sak_failure_sak_encryption_error> ] [ <idb_stat_sak_failure_sak_decryption_error> ] [
<idb_stat_sak_failure_ick_derivation_error> ] [ <idb_stat_sak_failure_kek_derivation_error> ] [
<idb_stat_sak_failure_invalid_macsec_capability_error> ] [ <idb_stat_macsec_failure_rx_sa_create_error>
] [ <idb_stat_macsec_failure_tx_sa_create_error> ] ] ] [ TABLE_mka_gbl_stats [ [ <session_secured> ] [
<session_deleted> ] [ <session_keepalive_timeout> ] [ <ca_stat_pairwise_cak_rekey> ] [
<sa_stat_sak_generated> ] [ <sa_stat_sak_rekey> ] [ <sa_stat_sak_received> ] [ <sa_stat_sak_response_rx>
] [ <mkpdu_stat_mkpdu_rx> ] [ <mkpdu_stat_mkpdu_rx_distsak> ] [ <mkpdu_stat_mkpdu_tx> ] [
<mkpdu_stat_mkpdu_tx_distsak> ] [ <mka_error_session_failure_bring_up_error> ] [
<mka_error_sak_failure_sak_generate_error> ] [ <mka_error_sak_failure_hash_generate_error> ] [
<mka_error_sak_failure_sak_encryption_error> ] [ <mka_error_sak_failure_sak_decryption_error> ] [
<mka_error_sak_failure_sak_cipher_mismatch_error> ] [ <mka_error_ca_failure_ick_derivation_error> ] [
<mka_error_ca_failure_kek_derivation_error> ] [ <mka_error_ca_failure_invalid_macsec_capability_error>
] [ <mka_error_macsec_failure_rx_sa_create_error> ] [ <mka_error_macsec_failure_tx_sa_create_error> ] [
<mka_error_mkpdu_failure_mkpdu_tx_error> ] [
<mka_error_mkpdu_failure_mkpdu_rx_integrity_check_error> ] [
<mka_error_mkpdu_failure_mkpdu_invalid_peer_mn_error> ] [
<mka_error_mkpdu_failure_mkpdu_nonrecent_peerlist_mn_error> ] [
<mka_error_mkpdu_failure_sakuse_kn_mismatch_error> ] [
<mka_error_mkpdu_failure_sakuse_rx_not_set_error> ] [
<mka_error_mkpdu_failure_sakuse_key_mi_mismatch_error> ] [
<mka_error_mkpdu_failure_sakuse_an_not_in_use_error> ] [
<mka_error_mkpdu_failure_sakuse_ks_rx_tx_not_set_error> ] [ <global_stats_mkpdu_rx_invalid_ckn> ] [
<global_stats_mkpdu_tx_pkt_build_fail> ] ] ] ] ] ]

```

Syntax Description

show	Show running system information
macsec	Show MACSEC information

mka	Show MKA information
statistics	Show MKA statistics
interface	(Optional) Specify interface
<i>ifname</i>	(Optional) Interface list
<i>__readonly__</i>	(Optional)
<i>macsec_status</i>	(Optional) Macsec status
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>iclb_stat_mkpdu_failure_rx_integrity_check_error</i>	(Optional) IDB Statistics - MKPDU failure - Rx integrity check error
<i>iclb_stat_mkpdu_failure_invalid_peer_mn_error</i>	(Optional) IDB Statistics - MKPDU failure - invalid peer MN error
<i>iclb_stat_mkpdu_failure_nonrecent_peerlist_mn_error</i>	(Optional) IDB Statistics - MKPDU failure - non recent peerlist MN error
<i>iclb_stat_mkpdu_failure_sakuse_kn_mismatch_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse KN mismatch error
<i>iclb_stat_mkpdu_failure_sakuse_rx_not_set_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse Rx not set error
<i>iclb_stat_mkpdu_failure_sakuse_key_mi_mismatch_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse key MI mismatch error
<i>iclb_stat_mkpdu_failure_sakuse_an_not_in_use_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse AN not in use error
<i>iclb_stat_mkpdu_failure_sakuse_ks_rx_tx_not_set_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse KS Rx Tx not set error
<i>iclb_stat_mkpdu_failure_sakuse_eapol_etype_mismatch_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse EAPOL ethertype mismatch error
<i>iclb_stat_mkpdu_failure_sakuse_eapol_destmac_mismatch_error</i>	(Optional) IDB Statistics - MKPDU failure - SAKuse EAPOL destMAC 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 Events
<i>session_deleted</i>	(Optional) Session deleted Events
<i>session_keepalive_timeout</i>	(Optional) Session keepalive timeout Events
<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_enor_mkpdu_failure_mkpdu_invalid_peer_mn_enor</i>	(Optional) MKA Error - MKPDU failure - invalid peer MN error
<i>mka_enor_mkpdu_failure_mkpdu_nonrecent_peerlist_mn_enor</i>	(Optional) MKA Error - MKPDU failure - non recent peerlist MN error
<i>mka_enor_mkpdu_failure_sakuse_kn_mismatch_enor</i>	(Optional) MKA Error - MKPDU failure - SAKuse KN mismatch error
<i>mka_enor_mkpdu_failure_sakuse_rx_not_set_enor</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_ckn</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>
<include_icv_indicator> } ]
```

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
<i>include_icv_indicator</i>	(Optional) Include ICV indicator in MKPDUs

Command Mode

- /exec

show macsec secy statistics

```
show macsec secy statistics [ interface <ifname> ] [ __readonly__ [ <macsec_status> ] [ 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_pkts_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_pkts_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)
<i>macsec_status</i>	(Optional) Macsec status
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_pkts_controlled</i>	(Optional) In Pkts 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_pkts_controlled</i>	(Optional) Out Pkts 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 maint-delay

```
show maintenance maint-delay [ __readonly__ <delay> ]
```

Syntax Description

show	Show running system information
maintenance	maintenance
maint-delay	maintenance mode CLI release delay value
__readonly__	(Optional)
<i>delay</i>	(Optional) delay value in seconds

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 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
<i>__readonly__</i>	(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 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> | warp | range <session_range> } [ { drops | brief } ] [
__readonly__ [ TABLE_session <session_number> [ <description> ] [ <type> ] [ <version> ] [ <state> ] [
<state_reason> ] [ <err_desc> ] [ <flow_id> ] [ <switch_id> ] [ <erspan_granularity> ] [ <vrf_name> ] [
<acl_name> ] [ <erspan_ttl> ] [ <erspan_dscp> ] [ <header_type> ] [ <span_mtu> ] [ <span_sampling> ] [
<ip_filter> ] + [ <dst_ip> ] [ <origin_ip> ] [ <src_ip> ] [ <control_pkt_filter> ] [ TABLE_sources_rx [
<sources_rx> ] ] [ TABLE_sources_tx [ <sources_tx> ] ] [ TABLE_sources_both [ <sources_both> ] ] [
<source_vlans_rx> ] [ <source_vlans_tx> ] [ <source_vlans_both> ] [ <source_vsans_rx> ] [ <tree-id>
<switchid> ] + [ <filter_vlans> ] [ <destinations> ] + [ <acl_destinations> ] + [ <rate_limit_cap> ] + [
<mtu_capability> ] + [ <sampling_capability> ] + [ <mcbce> ] + [ <l3_egress_span> ] + [ <erspan_acl> ] + [
<erspan_v3_cap> ] + [ <erspan_v2_cap> ] + [ <erspan_gran_cap> ] + [ <fex_ingress_intf> ] + [ <sources_rx_2>
] + [ <marker_time_intv> ] [ <marker_pkt_count> ] [ <marker_pkt_fail> ] [ <erspan_egress_if> ] [ <drops>
] [ <inactive> ] ] ]
```

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
session	Show session info
all	All sessions
<i>session_number</i>	
warp	warp session
range	Specify a range
<i>session_range</i>	
brief	(Optional) Brief information
drops	(Optional) show drop count
<u>__readonly__</u>	(Optional) Read only
TABLE_session	(Optional) show monitor
<i>session_number</i>	(Optional) session number
<i>description</i>	(Optional) Session Description
<i>type</i>	(Optional) Session type
<i>version</i>	(Optional) Erspan source version: v2/v3
<i>state</i>	(Optional) State
<i>state_reason</i>	(Optional) State reason
<i>err_desc</i>	(Optional) Error Description

<i>flow_id</i>	(Optional) erspan-id
<i>switch_id</i>	(Optional) erspan_switch-id
<i>erspan_granularity</i>	(Optional) ERSPAN Type III Granularity
<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>header_type</i>	(Optional) ERSPAN Header Type
<i>span_mtu</i>	(Optional) SPAN MTU value
<i>span_sampling</i>	(Optional) SPAN sampling range
<i>ip_filter</i>	(Optional) IP filter value
<i>dst_ip</i>	(Optional) ERSPAN destination IP
<i>origin_ip</i>	(Optional) ERSPAN origin IP at source router
<i>src_ip</i>	(Optional) ERSPAN source IP
<i>control_pkt_filter</i>	(Optional) Control packet filter value
TABLE_sources_rx	(Optional) ingress intf table
<i>sources_rx</i>	(Optional) List of ingress sources
TABLE_sources_tx	(Optional) egress intf table
<i>sources_tx</i>	(Optional) List of egress sources
TABLE_sources_both	(Optional) bi-direction intf table
<i>sources_both</i>	(Optional) List of sources in both directions
<i>source_vlans_rx</i>	(Optional) Source ingress vlan
<i>source_vsans_rx</i>	(Optional) Source ingress vsan
<i>source_vlans_tx</i>	(Optional) Source egress vlan
<i>source_vlans_both</i>	(Optional) Source vlans in both directions
<i>tree-id</i>	(Optional) proxy layer2 gateway source tree-id
<i>switchid</i>	(Optional) proxy layer2 gateway source switchid
<i>filter_vlans</i>	(Optional) Filter vlans
<i>destinations</i>	(Optional) List of destinations

<i>acl_destinations</i>	(Optional) List of interfaces that wont work for acl capture
<i>rate_limit_cap</i>	(Optional) List of modules that support Rate Limit
<i>mtu_capability</i>	(Optional) List of modules that support MTU
<i>sampling_capability</i>	(Optional) List of modules that support Sampling
<i>mcbe</i>	(Optional) List all modules that support multicast best effort
<i>l3_egress_span</i>	(Optional) List of modules that support L3 Multicast Egress SPAN
<i>erspan_acl</i>	(Optional) List of modules that support ERSPAN ACL filtering
<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_gran_cap</i>	(Optional) List of modules that support the granularity set
<i>fex_ingress_intf</i>	(Optional) List of fex interfaces that wont work for ingress span
<i>erspan_egress_if</i>	(Optional) Egress interface for ERSPAN SRC session
<i>sources_rx_2</i>	(Optional) List of ingress sources
<i>marker_time_intv</i>	(Optional) Marker packet interval
<i>marker_pkt_count</i>	(Optional) Marker packet count
<i>marker_pkt_fail</i>	(Optional) Marker packet fail count
<i>drops</i>	(Optional) Drop count
<i>inactive</i>	(Optional) Session is inactive

Command Mode

- /exec

show mpls extended-ecmp

show mpls extended-ecmp

Syntax Description

show	Show running system information
mpls	MPLS routing ECMP mode
extended-ecmp	extended-ecmp mode (default)

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
__readonly__	(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 load-sharing

show mpls load-sharing [*__readonly__* *TABLE_mpls_load_sharing* [*<label-ip>*] [*<label-only>*]]

Syntax Description

show	Show running system information
mpls	MPLS information
load-sharing	Show mpls load sharing options
<i>__readonly__</i>	(Optional)
<i>TABLE_mpls_load_sharing</i>	(Optional) Table for MPLS Load Sharing
<i>label-ip</i>	(Optional) Label IP load sharing
<i>label-only</i>	(Optional) Label only load sharing

Command Mode

- /exec

show mpls oam echo statistics

```
show mpls oam echo statistics [ summary ] [ __readonly__ <rq_sent> <rq_timeout> <rq_unsent> <rq_rcvd>
<rx_sent> <rx_unsent> <rx_rcvd> <rc_zero> <rc_one> <rc_two> <rc_three> <rc_four> <rc_five> <rc_six>
<rc_seven> <rc_eight> <rc_nine> <rc_ten> <rc_eleven> <rc_twelve> <rc_thirteen> <rc_fourteen>
<summary_flag> ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
oam	Display OAM information
echo	Echo request information
statistics	Detailed Echo packet statistics
summary	(Optional) Echo packet statistics summary
<i>__readonly__</i>	(Optional)
<i>rq_sent</i>	(Optional) Requests sent
<i>rq_timeout</i>	(Optional) Requests timeout
<i>rq_unsent</i>	(Optional) Requests unsent
<i>rq_rcvd</i>	(Optional) Requests received
<i>rx_sent</i>	(Optional) Replies sent
<i>rx_unsent</i>	(Optional) Replies unsent
<i>rx_rcvd</i>	(Optional) Replies received
<i>rc_zero</i>	(Optional) Return code zero
<i>rc_one</i>	(Optional) Return code one
<i>rc_two</i>	(Optional) Return code two
<i>rc_three</i>	(Optional) Return code three
<i>rc_four</i>	(Optional) Return code four
<i>rc_five</i>	(Optional) Return code five
<i>rc_six</i>	(Optional) Return code six
<i>rc_seven</i>	(Optional) Return code seven
<i>rc_eight</i>	(Optional) Return code eight

<i>rc_nine</i>	(Optional) Return code nine
<i>rc_ten</i>	(Optional) Return code ten
<i>rc_eleven</i>	(Optional) Return code eleven
<i>rc_twelve</i>	(Optional) Return code twelve
<i>rc_thirteen</i>	(Optional) Return code thirteen
<i>rc_fourteen</i>	(Optional) Return code fourteen
<i>summary_flag</i>	(Optional) Summary flag

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	MPLS information
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
<i>disp_summary</i>	(Optional) Summary
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

Command Mode

- /exec

show mpls switching

```
show mpls switching [ labels <label> [ <max-label> ] | interface <intf> | { <ip-addr> | <ipv4-prefix> } [ vrf
{ <vrf-name> | <vrf-known-name> | all } ] | <ipv6-prefix> [ vrf { <vrf-name> | <vrf-known-name> | all } ] |
traffic-eng srpath [ <srte-path-id> ] | aggregate [ ipv4 | ipv6 ] [ vrf { <vrf-name> | <vrf-known-name> | all }
] | { fec { ipv4_prefix [ vrf { <vrf-name> | <vrf-known-name> | all } ] | ipv6_prefix [ vrf { <vrf-name> |
<vrf-known-name> | all } ] | deagg [ vrf { <vrf-name> | <vrf-known-name> | all | ias_vpnv4 | ias_vpnv6 } ]
| per-bd <per-bd-vlan-id> } } | { summary } ] [ detail ] [ private ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] [ _readonly_ [ [ TABLE_vrf [ <vrf_name> ] [ [ TABLE_inlabel <in_label> [ [ { <out_label_stack>
+ } ] ] { <srte_path_id> | <ipv4_prefix> | <ipv6_prefix> } [ <out_interface> ] { <ipv4_next_hop> |
<ipv6_next_hop> } [ <weight> ] ] [ <deagg_vrf> [ <deagg_af> ] ] [ { <tunnel_v4_mid_source> |
<tunnel_v6_mid_source> } <tunnel_id> { <ext_v4_tunnel_id> | <ext_v6_tunnel_id> } <tunnel_instance>
<tunnel_head> ] [ <nhlfe_p2p_flag> ] [ <nhlfe_fr_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> ] [ <per_bd_vlan_id> ] [ <table_name> ] ] [
TABLE_adj_sid_inlabel <adj_sid_in_label> <out_label> { <ipv4_addr> | <ipv6_addr> } <out_interface> {
<adj_sid_ipv4_next_hop> | <adj_sid_ipv6_next_hop> } [ <in_packets> <in_bytes> ] [ [ <out_label> + ]
<out_packets> + <out_bytes> + ] ] ] [ TABLE_block <blockid> <lbl_range> ] ] ] ]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
traffic-eng	(Optional) Show traffic-engineering related entries
srpath	(Optional) Show traffic-engineering segment-routing path entries
<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
per-bd	(Optional) BD FEC
ias_vpnv4	(Optional) Display Inter-AS V4 information
ias_vpnv6	(Optional) Display Inter-AS V6 information
<i>srtc-path-id</i>	(Optional) Traffic-engineering segment-routing path id
<i>per-bd-vlan-id</i>	(Optional) Per BD 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_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>weight</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)
<i>srte_path_id</i>	(Optional)
<i>per_bd_vlan_id</i>	(Optional)
TABLE_adj_sid_inlabel	(Optional)
<i>adj_sid_in_label</i>	(Optional)
<i>out_label</i>	(Optional)
<i>ipv4_addr</i>	(Optional)
<i>out_interface</i>	(Optional)
<i>adj_sid_ipv4_next_hop</i>	(Optional)
<i>adj_sid_ipv6_next_hop</i>	(Optional)

<i>in_packets</i>	(Optional)
<i>in_bytes</i>	(Optional)
<i>out_packets</i>	(Optional)
<i>out_bytes</i>	(Optional)
TABLE_block	(Optional)
<i>blockid</i>	(Optional)
<i>lbl_range</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 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)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_encap	(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 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
__readonly__	(Optional)
TABLE_mvr_vlan	(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> ] ]
```

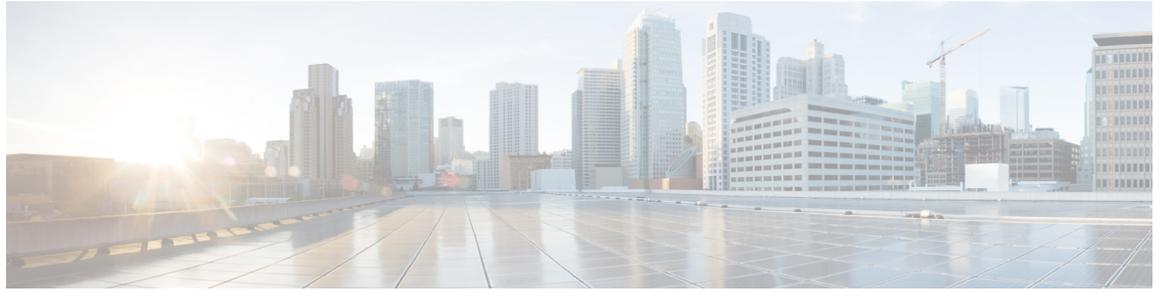
Syntax Description

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

show mvr source-ports



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show nat itd

```
show nat itd [ __readonly__ [ { TABLE_NAT_ITD_configurations [ <nat_itd_acl_name> ] [ <nat_itd_globalip> ] [ <nat_itd_globalport> ] [ <nat_itd_localip> ] [ <nat_itd_localport> ] [ <nat_itd_proto> ] } ] ]
```

Syntax Description

show	Show running system information
nat	IP NAT information
itd	IP NAT ITD
<i>__readonly__</i>	(Optional)
<i>TABLE_NAT_ITD_configurations</i>	(Optional) NAT ITD Configurations
<i>nat_itd_acl_name</i>	(Optional) NAT ITD ACL name
<i>nat_itd_globalip</i>	(Optional) NAT ITD Global Ip address
<i>nat_itd_globalport</i>	(Optional) NAT ITD Global port
<i>nat_itd_localip</i>	(Optional) NAT ITD Local Ip address
<i>nat_itd_localport</i>	(Optional) NAT ITD Local port
<i>nat_itd_proto</i>	(Optional) NAT ITD protocol

Command Mode

- /exec

show nbm defaults

```
show nbm defaults [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<vrfName> { <contextId> <bandwidthInKbps> <dscp> <qid> <policer> <operModeCache> <operMode>
<unicastFabricBandwidth> <numAsmGroup> } [ TABLE_ASM <groupId> { <groupPrefix> <groupMaskLen>
} ] { <senderPolicy> <localReceiverPolicy> <externalReceiverPolicy> } ]
```

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
defaults	Default config
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrfName</i>	(Optional) VRF name
<i>contextId</i>	(Optional) Context ID
<i>bandwidthInKbps</i>	(Optional) Bandwidth in Kbps
<i>dscp</i>	(Optional) DSCP
<i>qid</i>	(Optional) Queue ID
<i>policer</i>	(Optional) Policer
<i>operModeCache</i>	(Optional) Operation Mode Cache
<i>operMode</i>	(Optional) Operation Mode
<i>unicastFabricBandwidth</i>	(Optional) Unicast fabric bandwidth
<i>numAsmGroup</i>	(Optional) Number of ASM Groups
TABLE_ASM	(Optional) ASM Group Table
<i>groupId</i>	(Optional) Group number
<i>groupPrefix</i>	(Optional) Group Prefix
<i>groupMaskLen</i>	(Optional) Group Mask Length

<i>senderPolicy</i>	(Optional) Sender Policy
<i>localReceiverPolicy</i>	(Optional) Local Receiver Policy
<i>externalReceiverPolicy</i>	(Optional) External Receiver Policy (PIM)

Command Mode

- /exec

show nbm flow-policy

```
show nbm flow-policy [ name { <policy-name> } ] [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [
__readonly__ TABLE_vrf { <vrfName> [ <policyName> ] [ { <defaultBandwidthKbps> <defaultDscp>
<defaultQos> <defaultPolicer> } ] [ { TABLE_flow_policy <groupRange> <bandwidthKbps> <dscp> <qos>
<policer> <policyName> } ] <numGroupRanges> <numPolicies> } ]
```

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flow-policy	Flow policy show command
name	(Optional) Policy name
<i>policy-name</i>	(Optional) Policy name value
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrfName</i>	(Optional) VRF name
<i>policyName</i>	(Optional) Policy name
<i>defaultBandwidthKbps</i>	(Optional) Default Bandwidth in Kbps
<i>defaultDscp</i>	(Optional) Default DSCP
<i>defaultQos</i>	(Optional) Default QOS
<i>defaultPolicer</i>	(Optional) Default Policer
TABLE_flow_policy	(Optional) Flow policies in VRF
<i>groupRange</i>	(Optional) Group range
<i>bandwidthKbps</i>	(Optional) Bandwidth in Kbps
<i>dscp</i>	(Optional) DSCP
<i>qos</i>	(Optional) QOS
<i>policer</i>	(Optional) Policer

<i>policyName</i>	(Optional) Policy Name
<i>numGroupRanges</i>	(Optional) Number of group or group-range
<i>numPolicies</i>	(Optional) Number of flow policies

Command Mode

- /exec

show nbm flows

```
show nbm flows [ group-based [ group <group-ip> ] | { flow-policy { <cfg-pol-name> | <unknown-pol-name>
} } | source <source-ip> [ group <group-ip> ] | group <group-ip> [ source <source-ip> ] | interface <if-name>
| logical-id { none | any | <lid-val> } | profile-id <prof-id> ] [ all | active | inactive | no-receiver ] [ detail ] [
vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ _readonly_ ] [ TABLE_vrf <vrf-name> [ TABLE_flows
{ <mcast_grp> <src_ip> [ <start_time> ] <uptime> <src_intf> <src_nbr_device> [ <lid> <profile> <status>
] <num_rx> <bw_mbps> [ <cfg_mbps> ] <src_slot> <src_unit> <src_slice> } [ { <act_slot> <act_unit>
<stdby_slot> <stdby_unit> } ] { <dscp> <qos> [ <owner_type> ] <policed> [ <is_fhr> ] <pol_name> } [
<flag> ] [ TABLE_num_int_links { <n_link> <num_links> } ] [ TABLE_int_links { <iiod> <ilink> <i_ifidx>
<fab_iiod> <fab_oiod> <fab_ifidx> <oiod> <olink> <i_ieth_port> <fab_ieth_port> } ] [ TABLE_oifs { [
<oif_num> ] <oif_slot> <oif_unit> <oif_slot_unit_num_rx> <oif_if_idx> <oif_ioid> <oif_name>
<oif_nbr_device> } ] [ { <end_timestr> <flow_rate_bps> <packets> <bytes> } ] ] ] ] ]
```

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM flows (default will be active flows)
active	(Optional) Active flows (default)
inactive	(Optional) Inactive flows
no-receiver	(Optional) Flows without any receiver
all	(Optional) Both active and inactive flows
group-based	(Optional) Multicast group based (*,G) flows to IGMP receivers
flow-policy	(Optional) Flow policy
<i>cfg-pol-name</i>	(Optional) Policy name
<i>unknown-pol-name</i>	(Optional) Policy name
source	(Optional) Source IP address
<i>source-ip</i>	(Optional) Source IP address
group	(Optional) Multicast group
<i>group-ip</i>	(Optional) Multicast group address
interface	(Optional) Ingress interface
logical-id	(Optional) Logical ID (LID)
<i>lid-val</i>	(Optional) Logical ID (LID) value
any	(Optional) Any Logical ID (LID)

<i>none</i>	(Optional) Without any Logical ID (LID)
<i>profile-id</i>	(Optional) Profile ID
<i>prof-id</i>	(Optional) Profile ID value
<i>detail</i>	(Optional) Detailed output
<i>if-name</i>	(Optional) Interface name
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
<i>TABLE_flows</i>	(Optional) Flow table
<i>mcast_grp</i>	(Optional) Multicast group IP
<i>src_ip</i>	(Optional) Source IP
<i>start_time</i>	(Optional) Start time for the flow
<i>uptime</i>	(Optional) Uptime for the flow
<i>src_intf</i>	(Optional) Ingress source interface
<i>src_nbr_device</i>	(Optional) Ingress neighbor device name
<i>lid</i>	(Optional) Logical internal flow ID
<i>profile</i>	(Optional) Profile ID
<i>status</i>	(Optional) Flow status
<i>num_rx</i>	(Optional) Number of receivers (OIFs)
<i>bw_mbps</i>	(Optional) Set bandwidth
<i>cfg_mbps</i>	(Optional) Configured bandwidth
<i>src_slot</i>	(Optional) Source (RPF) slot
<i>src_unit</i>	(Optional) Source (RPF) unit
<i>src_slice</i>	(Optional) Source (RPF) slice
<i>dscp</i>	(Optional) Flow DSCP
<i>qos</i>	(Optional) Flow QOS group
<i>owner_type</i>	(Optional) Flow Owner type
<i>policed</i>	(Optional) Flow is policed or not
<i>is_fhr</i>	(Optional) This node is FHR (First-Hop Router) for the Flow

<i>pol_name</i>	(Optional) Flow Policy name
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>act_slot</i>	(Optional) Active FM Slot
<i>act_unit</i>	(Optional) Active FM Unit
<i>stdby_slot</i>	(Optional) Standby FM Slot
<i>stdby_unit</i>	(Optional) Standby FM Unit
<i>flag</i>	(Optional) Flow not guarantee flag
TABLE_num_int_links	(Optional) Internal link number table
<i>n_link</i>	(Optional) N Link
<i>num_links</i>	(Optional) Number of Links
TABLE_int_links	(Optional) Internal link table
<i>iiod</i>	(Optional) IIOD
<i>ilink</i>	(Optional) Ilink
<i>i_ifidx</i>	(Optional) Internal IF IDX
<i>fab_iiod</i>	(Optional) Fabric IIOD
<i>fab_oiod</i>	(Optional) Fabric OIOD
<i>fab_ifidx</i>	(Optional) Fabric IFIDX
<i>oiod</i>	(Optional) OIOD
<i>olink</i>	(Optional) OLink
<i>i_ieth_port</i>	(Optional) Internal IEth Link
<i>fab_ieth_port</i>	(Optional) Fabric IEth Port
TABLE_oifs	(Optional) OIF table
<i>oif_num</i>	(Optional) Receiver serial number
<i>oif_slot</i>	(Optional) Slot
<i>oif_unit</i>	(Optional) Unit
<i>oif_slot_unit_num_rx</i>	(Optional) Number of Receivers for slot/unit

<i>oif_if_idx</i>	(Optional) Receiver interface index
<i>oif_iod</i>	(Optional) Outgoing IOD
<i>oif_name</i>	(Optional) Outgoing interface name
<i>oif_nbr_device</i>	(Optional) Outgoing neighbor device name
<i>end_timestr</i>	(Optional) Deleted flow end time
<i>flow_rate_bps</i>	(Optional) Deleted flow flow rate in bps
<i>packets</i>	(Optional) Deleted flow packets
<i>bytes</i>	(Optional) Deleted flow bytes

Command Mode

- /exec

show nbm flows static

```
show nbm flows static [ group <grp> ] [ source <src> ] [ stitched | unstitched ] [ vrf { <vrf-name> |
<nbm-vrf-known-name> | all } ] [ __readonly__ { [ TABLE_vrf <vrf-name> [ TABLE_stitched { <stitchedSrc>
<stitchedGrp> [ TABLE_stitchedEgress { <stitchedEgressIntf> } ] [ TABLE_stitchedHost { <stitchedHostIp>
} ] } ] [ TABLE_unstitched { <unstitchedSrc> <unstitchedGrp> [ TABLE_unstitchedEgress {
<unstitchedEgressIntf> } ] [ TABLE_unstitchedHost { <unstitchedHostIp> } ] } ] } ] ]
```

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM flows (default will be active flows)
static	Static NBM Flows
group	(Optional) Multicast group
<i>grp</i>	(Optional) Multicast group address
source	(Optional) Source ip of sender
<i>src</i>	(Optional) Source address
stitched	(Optional) Show only successfully provisioned oif
unstitched	(Optional) Show only failed to provision oif
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
TABLE_stitched	(Optional) Static Flows stitched table
<i>stitchedSrc</i>	(Optional) Source IP address stitched
<i>stitchedGrp</i>	(Optional) Multicast Group address stitched
TABLE_stitchedEgress	(Optional) Egress Interface table stitched flows
<i>stitchedEgressIntf</i>	(Optional) Egress Interface for stitched flows
TABLE_stitchedHost	(Optional) Host IP table for stitched flows

<i>stitchedHostIp</i>	(Optional) Host IP address for stitched flows
TABLE_unstitched	(Optional) Static Flows unstitched
<i>unstitchedSrc</i>	(Optional) Source IP address unstitched
<i>unstitchedGrp</i>	(Optional) Multicast Group address unstitched
TABLE_unstitchedEgress	(Optional) Egress Interface table unstitched flows
<i>unstitchedEgressIntf</i>	(Optional) Egress Interface for unstitched flows
TABLE_unstitchedHost	(Optional) Host IP table for unstitched flows
<i>unstitchedHostIp</i>	(Optional) Host IP address for unstitched flows

Command Mode

- /exec

show nbm flows statistics

```
show nbm flows statistics [ group-based [ group <group-ip> ] | source <source-ip> [ group <group-ip> ] |
group <group-ip> [ source <source-ip> ] | { flow-policy { <cfg-pol-name> | <unknown-pol-name> } } |
interface <if-name> | logical-id { none | any | <lid-val> } | profile-id <prof-id> ] [ vrf { <vrf-name> |
<nbm-vrf-known-name> | all } ] [ __readonly__ { [ TABLE_vrf <vrf-name> [ TABLE_stats { <mcast_grp>
<src_ip> [ <start_time> ] <uptime> <src_intf> <packets> <bytes> <allow_bytes> <drop_bytes> } ] ] } ]
```

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
source	(Optional) Source IP address
<i>source-ip</i>	(Optional) Source IP address value
group	(Optional) Multicast group
<i>group-ip</i>	(Optional) Multicast group address value
flow-policy	(Optional) Flow policy
<i>cfg-pol-name</i>	(Optional) Policy name
<i>unknown-pol-name</i>	(Optional) Policy name
interface	(Optional) Ingress interface
<i>if-name</i>	(Optional) Interface interface name
logical-id	(Optional) Logical ID (LID)
<i>lid-val</i>	(Optional) Logical ID (LID) value
any	(Optional) Any Logical ID (LID)
none	(Optional) Without any Logical ID (LID)
profile-id	(Optional) Profile ID
<i>prof-id</i>	(Optional) Profile ID value
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name

<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
<i>TABLE_stats</i>	(Optional) Flow stats table
<i>mcast_grp</i>	(Optional) Multicast group IP
<i>src_ip</i>	(Optional) Source IP
<i>start_time</i>	(Optional) Start time for the flow
<i>uptime</i>	(Optional) Uptime for the flow
<i>src_intf</i>	(Optional) Ingress source interface
<i>packets</i>	(Optional) Packets
<i>bytes</i>	(Optional) Bytes
<i>allow_bytes</i>	(Optional) Allowed bytes
<i>drop_bytes</i>	(Optional) Dropped bytes

Command Mode

- /exec

show nbm flows summary

```
show nbm flows summary [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ][ __readonly__ [ TABLE_vrf
<vrf-name> [ TABLE_flows_summary <flow_type> <starg> <sg> <total> ] [ TABLE_flows_summary_per_rpf
<if-name> <starg> <sg> <total> ] ] ]
```

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM Flows
summary	NBM Flow Summary
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
<i>TABLE_flows_summary</i>	(Optional) Flow summary table
<i>flow_type</i>	(Optional) Type of Flow Summary
<i>sg</i>	(Optional) (S,G) number of flows
<i>starg</i>	(Optional) (*,G) number of flows
<i>total</i>	(Optional) Total Flows
<i>TABLE_flows_summary_per_rpf</i>	(Optional) Flow summary table per RPF
<i>if-name</i>	(Optional) RPF Interface name
<i>sg</i>	(Optional) (S,G) number of flows
<i>starg</i>	(Optional) (*,G) number of flows
<i>total</i>	(Optional) Total Flows

Command Mode

- /exec

show nbm host-policy all

```
show nbm host-policy all { sender | { receiver { local | external } } } [ vrf { <vrf-name> |
<nbm-vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf <vrf-name> <policyType> <defaultHostPolicy>
[ TABLE_host_policies <seqNum> <source> <group> <groupMask> [ <host> ] <permission> ] <numPolicies>
]]
```

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
host-policy	Host policy
all	All policies on switch
sender	Sender Policy
receiver	Receiver Policy
local	Local receiver policy
external	External receiver policy
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
<i>policyType</i>	(Optional) Type of Policy
<i>defaultHostPolicy</i>	(Optional) Default Permission for Host Policy
TABLE_host_policies	(Optional) Host policy table
<i>seqNum</i>	(Optional) Sequence number
<i>source</i>	(Optional) Source IP
<i>group</i>	(Optional) Multicast group IP
<i>groupMask</i>	(Optional) Group mask length
<i>host</i>	(Optional) Reporter or Host IP

<i>permission</i>	(Optional) Permission for this Policy
<i>numPolicies</i>	(Optional) Number of Policies

Command Mode

- /exec

show nbm host-policy applied receiver

```
show nbm host-policy applied receiver { { local { all | wildcard } | external } [ vrf { <vrf-name> |
<nbm-vrf-known-name> | all } ] } | { local interface <if-name> } } [ __readonly__ [ TABLE_vrf <vrf-name>
<policyType> <defaultHostPolicy> [ TABLE_interface <ifName> [ TABLE_host_policies <seqNum>
<source> <group> <groupMask> <permission> <denyCounter> ] ] [ TABLE_wildcard_policies
<seqNumWildcard> <sourceWildcard> <groupWildcard> <groupMaskWildcard> <permissionWildcard>
<denyCounterWildcard> ] <numPolicies> ] ]
```

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
host-policy	Host policy
applied	Applied policies only
receiver	Receiver Policy
local	Local receiver policy
all	All policies on switch
wildcard	All wildcard policies
external	External receiver policy
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
all	(Optional) Display all VRFs
interface	Interface
<i>if-name</i>	Interface name
__readonly__	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
<i>policyType</i>	(Optional) Type of Policy
<i>defaultHostPolicy</i>	(Optional) Default Permission for Host Policy
TABLE_interface	(Optional) Interface table
<i>ifName</i>	(Optional) Interface name

TABLE_host_policies	(Optional) Host policy table
<i>seqNum</i>	(Optional) Sequence number
<i>source</i>	(Optional) Source IP
<i>group</i>	(Optional) Multicast group IP
<i>groupMask</i>	(Optional) Group mask length
<i>permission</i>	(Optional) Permission for this Policy
<i>denyCounter</i>	(Optional) Deny Counter
TABLE_wildcard_policies	(Optional) Wildcard policy table
<i>seqNumWildcard</i>	(Optional) Sequence number
<i>sourceWildcard</i>	(Optional) Source IP
<i>groupWildcard</i>	(Optional) Multicast group IP
<i>groupMaskWildcard</i>	(Optional) Group mask length
<i>permissionWildcard</i>	(Optional) Permission for this Policy
<i>denyCounterWildcard</i>	(Optional) Deny Counter
<i>numPolicies</i>	(Optional) Number of Policies

Command Mode

- /exec

show nbm host-policy applied sender

```
show nbm host-policy applied sender { { all | wildcard } [ vrf { <vrf-name> | <nbm-vrf-known-name> | all
} ] } [ interface <if-name> ] [ __readonly__ [ TABLE_vrf <vrf-name> <policyType> <defaultHostPolicy>
[ TABLE_interface <ifName> [ TABLE_host_policies <seqNum> <source> <group> <groupMask>
<permission> ] ] [ TABLE_wildcard_policies <seqNumWildcard> <sourceWildcard> <groupWildcard>
<groupMaskWildcard> <permissionWildcard> ] <numPolicies> ] ]
```

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
host-policy	Host policy
applied	Applied policies only
sender	Sender Policy
all	All policies on switch
wildcard	Wildcard host policy
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name
interface	Interface
<i>if-name</i>	Interface name
__readonly__	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name</i>	(Optional) VRF name
<i>policyType</i>	(Optional) Type of Policy
<i>defaultHostPolicy</i>	(Optional) Default Permission for Host Policy
TABLE_interface	(Optional) Interface table
<i>ifName</i>	(Optional) Interface name
TABLE_host_policies	(Optional) Host policy table
<i>seqNum</i>	(Optional) Sequence number
<i>source</i>	(Optional) Source IP

<i>group</i>	(Optional) Multicast group IP
<i>groupMask</i>	(Optional) Group mask length
<i>permission</i>	(Optional) Permission for this Policy
TABLE_wildcard_policies	(Optional) Wildcard policy table
<i>seqNumWildcard</i>	(Optional) Sequence number
<i>sourceWildcard</i>	(Optional) Source IP
<i>groupWildcard</i>	(Optional) Multicast group IP
<i>groupMaskWildcard</i>	(Optional) Group mask length
<i>permissionWildcard</i>	(Optional) Permission for this Policy
<i>numPolicies</i>	(Optional) Number of Policies

Command Mode

- /exec

show nbm interface bandwidth

```
show nbm interface bandwidth [ __readonly__ [ TABLE_bw { <index> <ifname> <iod> <slot> <unit> <slice>
<ingr_fl_bw_available> <ingr_fl_bw_usable> <ingr_fl_bw_capacity> <egr_fl_bw_available>
<egr_fl_bw_usable> <egr_fl_bw_capacity> <nbr_dev_id> <nbr_dev_name> <external> } ] ]
```

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
interface	interface
bandwidth	Bandwidth interface table
__readonly__	(Optional)
TABLE_bw	(Optional) TABLE Bandwidth
<i>index</i>	(Optional) Index
<i>ifname</i>	(Optional) Interface
<i>iode</i>	(Optional) IOD
<i>slot</i>	(Optional) SLOT
<i>unit</i>	(Optional) UNIT
<i>slice</i>	(Optional) SLICE
<i>ingr_fl_bw_available</i>	(Optional) Ingress Flow BW available
<i>ingr_fl_bw_usable</i>	(Optional) Ingress Flow BW usable
<i>ingr_fl_bw_capacity</i>	(Optional) Ingress Flow BW capacity
<i>egr_fl_bw_available</i>	(Optional) Egress Flow BW available
<i>egr_fl_bw_usable</i>	(Optional) Egress Flow BW usable
<i>egr_fl_bw_capacity</i>	(Optional) Egress Flow BW capacity
<i>nbr_dev_id</i>	(Optional) Neighbor device ID
<i>nbr_dev_name</i>	(Optional) Neighbor device name
<i>external</i>	(Optional) External

Command Mode

- /exec

show ngoam interface statistics

```
show ngoam interface statistics [ __readonly__ [ TABLE_stats { <interface-name> <tx> <rx> } <statistics-end> ] ]
```

Syntax Description

TABLE_stats	(Optional) interface statistics table
<i>interface-name</i>	(Optional) interface namestring
<i>tx</i>	(Optional) ngoam probe transmit on the interface
<i>rx</i>	(Optional) ngoam probe receive on the interface
show	Show running system information
ngoam	ngoam
interface	probe packet interface
statistics	ngoam probe interface statistics
__readonly__	(Optional) Read Only
<i>statistics-end</i>	(Optional) statistics table end marker

Command Mode

- /exec

show ngoam loopback

```
show ngoam loopback { { statistics { session { <handle> | all } | summary } } | { status { session { <handle>
| all } } } } [ _readonly_ [ TABLE_statistics { <sender-handle> [ <connect-check-id> ] <last-clear-stats>
TABLE_stats_attr { <stat-attr> <stat-value> } } ] [ TABLE_status { <st-sender-handle> <type> <state> } ]
[ TABLE_statistics_summary { <last-clear-summary-stats> <tx> <rx> <timeout> <unsent> <req-sw-fwd>
<req-drop> <resp-tx> <resp-rx> <resp-unsent> <resp-dup> <resp-sw-fwd> <resp-drop> } ] ]
```

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>connect-check-id</i>	(Optional) connect check id
<i>last-clear-stats</i>	(Optional) last clear time for statistics
TABLE_stats_attr	(Optional) Stats attributes table
<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
<i>req-sw-fwd</i>	(Optional) Request pkts sw fwded
<i>resp-sw-fwd</i>	(Optional) Response pkts sw fwded
<i>req-drop</i>	(Optional) Requests dropped
<i>resp-drop</i>	(Optional) Responses dropped
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 mct-stats

show ngoam mct-stats [*__readonly__* <sent> <rcvd> <resp-sent> <resp-rcvd> <send-fail> <rcv-fail> <send-rel-fail>]

Syntax Description

show	Show running system information
ngoam	Configure ngoam
mct-stats	Print MCT stats
<i>__readonly__</i>	(Optional) Read Only
<i>sent</i>	(Optional) Counters
<i>rcvd</i>	(Optional) Counters
<i>resp-sent</i>	(Optional) Counters
<i>resp-rcvd</i>	(Optional) Counters
<i>send-fail</i>	(Optional) Counters
<i>rcv-fail</i>	(Optional) Counters
<i>send-rel-fail</i>	(Optional) Counters

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> [
TABLE_stats_fields { <stat-attr> <stat-value> } ] } ] [ { TABLE_summary <last-clear-summary-stats> <tx>
<rx> <timeout> <unsent> <req-sw-fwd> <req-drop> <resp-tx> <resp-rx> <resp-unsent> <resp-dup>
<resp-sw-fwd> <resp-drop> } ] [ { TABLE_database <db-sender-handle> <db-start-time> <db-end-time>
<db-last-clear-stats> <db-tx> <db-rx> <db-timeout> <db-unsent> <db-req-sw-fwd> <db-req-drop> <db-resp-tx>
<db-resp-rx> <db-resp-unsent> <db-resp-dup> <db-resp-sw-fwd> <db-resp-drop> { TABLE_db_reply
<seq-number> <cli-status> [ <reply-ip> ] [ <ingress-if> ] [ <ingress-if-state> ] [ <egress-if> ] [ <egress-if-state>
] [ { TABLE_ifstats <if-name> <rx-len> <rx-bytes> <rx-pkt-rate> <rx-byte-rate> <rx-load> <rx-ucast>
<rx-mcast> <rx-bcast> <rx-discards> <rx-errors> <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> } ] [ <end-row> ] + } } ] ]
```

Syntax Description

show	Show running system information
ngoam	ngoam
pathtrace	ngoam pathtrace
statistics	ngoam pathtrace statistics
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
__readonly__	(Optional) Read Only
TABLE_stats	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>last-clear-stats</i>	(Optional) last clear time for statistics
TABLE_stats_fields	(Optional) statistics entries
<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>req-sw-fwd</i>	(Optional) Request pkts sw fwded
<i>req-drop</i>	(Optional) Requests dropped
<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
<i>resp-sw-fwd</i>	(Optional) Response pkts sw fwded
<i>resp-drop</i>	(Optional) Responses dropped
TABLE_database	(Optional) pathtrace database
<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-req-sw-fwd</i>	(Optional) Request pkts sw fwded
<i>db-req-drop</i>	(Optional) Requests dropped
<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
<i>db-resp-sw-fwd</i>	(Optional) Response pkts sw fwded
<i>db-resp-drop</i>	(Optional) Responses dropped
TABLE_db_reply	(Optional) Replies
<i>seq-number</i>	(Optional) Sequence number
<i>cli-status</i>	(Optional) ngoam pathtrace status
<i>reply-ip</i>	(Optional) ngoam pathtrace reply ip
<i>ingress-if</i>	(Optional) Ingress interface
<i>ingress-if-state</i>	(Optional) Ingress interface state
<i>egress-if</i>	(Optional) Egress interface
<i>egress-if-state</i>	(Optional) Egress interface state
<i>end-row</i>	(Optional) Row end
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

Command Mode

- /exec

show ngoam probe

```
show ngoam probe { { statistics { summary | { session { <handle> | all } } } } [ __readonly__ [ TABLE_stats
{ <sender-handle> <transaction-id> <dst-vip> <vni> <oam-type> <flow-str> <last-clear-stats> <req-sent>
<req-not-sent> } <statistics-end> ] [ TABLE_summary { <last-clear-summary-stats> <tx> <rx> <timeout>
<unsent> <resp-tx> <resp-rx> <resp-unsent> } ] ]
```

Syntax Description

show	Show running system information
ngoam	ngoam
probe	ngoam probe
statistics	ngoam probe statistics
summary	ngoam probe statistics summary
session	ngoam probe session
<i>handle</i>	ngoam probe session handle
all	Display results for all probe sessions
TABLE_stats	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>transaction-id</i>	(Optional) Transaction Identifier
<i>dst-vip</i>	(Optional) Destination Vtep ip address
<i>vni</i>	(Optional) vxlan header vni
<i>oam-type</i>	(Optional) draft pang oam type
<i>flow-str</i>	(Optional) 128 byte flow string.
<i>last-clear-stats</i>	(Optional) last clear time for statistics
<i>req-sent</i>	(Optional) request sent
<i>req-not-sent</i>	(Optional) request not sent or failed
<i>statistics-end</i>	(Optional) statistics table end marker
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>__readonly__</i>	(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> TABLE_stats_attr { <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
TABLE_stats_attr	(Optional) Stats attributes table
<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
<i>__readonly__</i>	(Optional) Read Only

Command Mode

- /exec

show ngoam xconnect session

```
show ngoam xconnect session { <id> [ iodb ] | all [ dbdump ] } [ __readonly__ [ TABLE_xc_db_summary
{ [ <legend> ] <vlan-id> <peer-ip> <vni> <db-state> <local-if> <local-if-state> <remote-if> <remote-if-state>
[ <end-row> ] + } + ] [ ENTRY_xc_db_detail { <detail> <d-vlan-id> <d-peer-ip> [ <peer-name> ] <d-vni>
<d-db-state> <last-state-change-ts> <d-local-if> <d-local-if-state> <vpc-if> <vpc-if-state> <remote-if-detail>
<remote-if-detail-state> <remote-vpc-if> <remote-vpc-if-state> [ <d-end-row> ] + } ] ]
```

Syntax Description

show	Show running system information
ngoam	ngoam information
xconnect	crossconnect info
session	xc session id
<i>id</i>	Vlan-id of the xc
iodb	(Optional) Iodb
all	show summary info for all sessions
<u>__readonly__</u>	(Optional) Read Only
TABLE_xc_db_summary	(Optional) XC Db table
ENTRY_xc_db_detail	(Optional) XC Db detail
<i>detail</i>	(Optional) Detail or not
<i>vlan-id</i>	(Optional) Vlan id
<i>d-vlan-id</i>	(Optional) Vlan id
<i>vni</i>	(Optional) vni
<i>d-vni</i>	(Optional) vni
<i>local-if</i>	(Optional) Interface
<i>d-local-if</i>	(Optional) Interface
<i>local-if-state</i>	(Optional) Interface state
<i>d-local-if-state</i>	(Optional) Interface state
<i>remote-if</i>	(Optional) Remote interface
<i>remote-if-state</i>	(Optional) Remote interface state
<i>remote-if-detail</i>	(Optional) Remote interface
<i>remote-if-detail-state</i>	(Optional) Remote interface state

<i>vpc-if</i>	(Optional) Interface
<i>vpc-if-state</i>	(Optional) Interface state
<i>remote-vpc-if</i>	(Optional) Remote vpc interface
<i>remote-vpc-if-state</i>	(Optional) Remote vpc interface state
<i>db-state</i>	(Optional) XC state
<i>d-db-state</i>	(Optional) XC state
<i>last-state-change-ts</i>	(Optional) Last state change timestamp
<i>peer-ip</i>	(Optional) Peer ip
<i>d-peer-ip</i>	(Optional) Peer ip
<i>peer-name</i>	(Optional) Peer name
<i>end-row</i>	(Optional) end row
<i>d-end-row</i>	(Optional) end row
<i>legend</i>	(Optional) legend
<i>dbdump</i>	(Optional) Dump the whole database

Command Mode

- /exec

show npv external-interface-usage

```
show npv external-interface-usage [ server-interface <if0> ] [ __readonly__ { TABLE_intf_usage <svr_intf>
<ext_intf> } ]
```

Syntax Description

show	Show running system information
npv	Show information about NPV
external-interface-usage	Show external interface usage by server interfaces
server-interface	(Optional) Show external interface usage by a server interface
<i>if0</i>	(Optional)
__readonly__	(Optional) Read Only
TABLE_intf_usage	(Optional) External Interfaces Usage Table
<i>svr_intf</i>	(Optional) Server Interface
<i>ext_intf</i>	(Optional) External Interface

Command Mode

- /exec

show npv flogi-table

```
show npv flogi-table [ { interface <iif0> | vsan <iid> } ] [ __readonly__ [ [ TABLE_flogi <svr_intf> <vsan_id>
<fcid> <pwwn> <ext_intf> <nwwn> ] [ <flogi_count> ] ] ]
```

Syntax Description

show	Show running system information
npv	Show information about NPV
flogi-table	Show information about FLOGI sessions
interface	(Optional) Show information about FLOGI sessions for a server interface
<i>if0</i>	(Optional)
vsan	(Optional) Show information about FLOGI sessions for a VSAN
<i>id</i>	(Optional)
__readonly__	(Optional) Read Only
TABLE_flogi	(Optional) FLOGI Table
<i>svr_intf</i>	(Optional) Server Interface
<i>vsan_id</i>	(Optional) VSAN ID
<i>fcid</i>	(Optional) FLOGI FCID
<i>pwwn</i>	(Optional) The PWWN
<i>ext_intf</i>	(Optional) External Interface
<i>nwwn</i>	(Optional) The NWWN
<i>flogi_count</i>	(Optional) Total FLOGI Count

Command Mode

- /exec

show npv status

```
show npv status [ vsan <i0> ] [ __readonly__ [ [ <npiv_status> ] [ <load_balance> ] [ { TABLE_extintf
<ext_intf> [ <ext_vsan> ] [ <ext_fcid> ] <ext_state> [ { TABLE_vsan <vsan_vsan> <vsan_state> [ <vsan_fcid>
] } ] ] ] <ext_intf_count> [ { TABLE_svrntf <svr_intf> <svr_vsan> <svr_state> } ] <svr_intf_count> ] ]
```

Syntax Description

show	Show running system information
npv	Show information about NPV
status	Show NPV status
vsan	(Optional) Show NPV status for a specific VSAN
i0	(Optional)
__readonly__	(Optional) Read Only
npiv_status	(Optional) NPIV enable/disable status
load_balance	(Optional) disruptive load balance status
TABLE_extintf	(Optional) External Interfaces Table
ext_intf	(Optional) External Interface
ext_vsan	(Optional) External Interface VSAN
ext_fcid	(Optional) External Interface FCID
ext_state	(Optional) External Interface State
TABLE_vsan	(Optional) External Interfaces VSAN Table
vsan_vsan	(Optional) External Interface VSAN
vsan_state	(Optional) VSAN State
vsan_fcid	(Optional) VSAN FCID
ext_intf_count	(Optional) External Interface count
TABLE_svrntf	(Optional) Server Interfaces Table
svr_intf	(Optional) Server Interface
svr_vsan	(Optional) Server Interface VSAN
svr_state	(Optional) Server Interface State
svr_intf_count	(Optional) Server Interface count

Command Mode

- /exec

show npv traffic-map

```
show npv traffic-map [ server-interface <if0> ] [ __readonly__ [ { TABLE_traffic_map <svr_intf> <ext_intf>
} ] ]
```

Syntax Description

show	Show running system information
npv	Show information about NPV
traffic-map	Show information about Traffic Map
server-interface	(Optional) Show information about Traffic map for a server interface
<i>if0</i>	(Optional)
__readonly__	(Optional) Read Only
TABLE_traffic_map	(Optional) Traffic Map Table
<i>svr_intf</i>	(Optional) Server Interface
<i>ext_intf</i>	(Optional) External Interface

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
__readonly__	(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__ [ { TABLE_sourceip <sourceip> } ] ]
```

Syntax Description

show	Show running system information
ntp	Show NTP information
source	Source IP address configured
__readonly__	(Optional)
TABLE_sourceip	(Optional) source ip table
<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>	
<i>__readonly__</i>	(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 packetsent</i>	(Optional) peername packetsent
<i>peername packetsreceived</i>	(Optional) peername packetsreceived
<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 adjacency mpls

```
show nve adjacency mpls [ __readonly__ TABLE_nve_mpls_adj [ { <peer-ip> | <peer-ipv6> } <evi> <label-sr>
<learn-mask> <pending-state> <adj-state> ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
adjacency	Downstream Adjacencies
mpls	Segment routing
<i>__readonly__</i>	(Optional)
<i>TABLE_nve_mpls_adj</i>	(Optional) xml schema for sr nve parameters
<i>peer-ip</i>	(Optional) Peer IP address v4
<i>evi</i>	(Optional) EVI value
<i>label-sr</i>	(Optional) SR Label
<i>learn-mask</i>	(Optional) Learn mask for the peer
<i>pending-state</i>	(Optional) Peer adjacency pending state
<i>adj-state</i>	(Optional) Peer adjacency state

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

<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 evi

show nve evi [*__readonly__* *TABLE_nve_evi* [*<evi>* *<sw-bd>* *<label-sr>* *<oper-state>* *<evi-state>*]]

Syntax Description

show	Display NVE information
nve	Configure NVE information
evi	Ethernet Virtual Identifier
<i>__readonly__</i>	(Optional)
<i>TABLE_nve_evi</i>	(Optional) xml schema for nve evis
<i>evi</i>	(Optional) EVI value
<i>sw-bd</i>	(Optional) VLAN information
<i>label-sr</i>	(Optional) SR Label
<i>oper-state</i>	(Optional) EVI up or down
<i>evi-state</i>	(Optional) EVI state

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> | <primary-ipv6> } [
<secondary-ip> | <secondary-ipv6> } ] [ { <anycast-if> } { <anycast-ip> | <anycast-ipv6> } ] [ { <src-if-state>
[ <anyc-if-state> ] <adv-vmac> <nve-flags> <nve-if-handle> <src-if-holddown-tm> <src-if-holdup-tm>
<src-if-holddown-left> <vpc-compat-check> <vip-rmac> [ <vip-rmac-ro> ] <sm-state> [
<es-delay-restore-time> <es-delay-restore-time-left> ] [ <multisite-convergence-time>
<multisite-convergence-time-left> ] [ <multisite-bgw-if> <multisite-bgw-if-ip> <multisite-bgw-if-admin-state>
<multisite-bgw-if-oper-state> <multisite-bgw-if-oper-state-down-reason> } } ] ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
interface	Interface
<i>nve-if</i>	(Optional) NVE interface
detail	(Optional) Detailed information
<u>__readonly__</u>	(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>vpc-capability</i>	(Optional) vpc capability
<i>local-rmac</i>	(Optional) local router mac
<i>host-reach-mode</i>	(Optional) host reach mode
<i>source-if</i>	(Optional) source-interface
<i>primary-ip</i>	(Optional) primary-ip
<i>secondary-ip</i>	(Optional) secondary-ip
<i>anycast-if</i>	(Optional) anycast-interface
<i>anycast-ip</i>	(Optional) anycast-ip
<i>src-if-state</i>	(Optional) source-interface state
<i>anyc-if-state</i>	(Optional) anycast-interface state
<i>adv-vmac</i>	(Optional) advertise virtual rmac

<i>nve-flags</i>	(Optional) nve-flags
<i>nve-if-handle</i>	(Optional) interface handle
<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>vpc-compat-check</i>	(Optional) vpc-compat-check
<i>vip-rmac</i>	(Optional) Generated VIP MAC
<i>vip-rmac-ro</i>	(Optional) Generated VIP MAC Re-origination
<i>sm-state</i>	(Optional) sm state
<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>multisite-convergence-time</i>	(Optional) multisite convergence time
<i>multisite-convergence-time-left</i>	(Optional) multisite convergence time left
<i>multisite-bgw-if</i>	(Optional) multisite border gateway interface
<i>multisite-bgw-if-ip</i>	(Optional) multisite if ip
<i>multisite-bgw-if-admin-state</i>	(Optional) multisite if admin state
<i>multisite-bgw-if-oper-state</i>	(Optional) multisite if oper state
<i>multisite-bgw-if-oper-state-down-reason</i>	(Optional) multisite if oper state down reason

Command Mode

- /exec

show nve mpls

```
show nve mpls [ __readonly__ [ TABLE_nve_mpls { <source-if> { <primary-ip> | <primary-ipv6> } {
<secondary-ip> | <secondary-ipv6> } <sm-state> [ <down-reason> ] } ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
mpls	Segment routing
__readonly__	(Optional)
TABLE_nve_mpls	(Optional) xml schema for sr nve parameters
<i>source-if</i>	(Optional) source-interface
<i>primary-ip</i>	(Optional) primary-ip
<i>secondary-ip</i>	(Optional) secondary-ip
<i>sm-state</i>	(Optional) sm state
<i>down-reason</i>	(Optional) down reason

Command Mode

- /exec

show nve multisite dci-links

```
show nve multisite dci-links [ __readonly__ [ TABLE_multisite_dci_link <if-name> [ { <if-state> } ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
multisite	multisite
dci-links	dci-links
__readonly__	(Optional)
TABLE_multisite_dci_link	(Optional) xml schema for show nve multisite dci-links
<i>if-name</i>	(Optional) dci-link interface name
<i>if-state</i>	(Optional) dci-link interface oper state

Command Mode

- /exec

show nve multisite fabric-links

```
show nve multisite fabric-links [ __readonly__ [ TABLE_multisite_fabric_link <if-name> [ { <if-state> } ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
multisite	multisite
fabric-links	fabric-links
__readonly__	(Optional)
TABLE_multisite_fabric_link	(Optional) xml schema for show nve multisite fabric-links
<i>if-name</i>	(Optional) fabric-link interface name
<i>if-state</i>	(Optional) fabric-link interface oper state

Command Mode

- /exec

show nve peers

```
show nve peers [ [ interface <nve-if> | peer-ip { <user-peer-ip> | <user-peer-ipv6> } | control-plane | data-plane
] [ detail ] ] [ control-plane-vni [ vni <vni-id> | peer-ip { <user-peer-ip> | <user-peer-ipv6> } ] ] [ controller
] [ __readonly__ TABLE_nve_peers [ [ <detail> ] [ <control-plane-vni> ] [ <if-name> ] { <peer-ip> |
<peer-ipv6> } [ <peer-state> ] [ <learn-type> ] [ <uptime> ] [ <router-mac> ] [ { <first-vni> <create-ts>
<config-vnis> <provision-state> <cp-vni> <vni-assignment-mode> <dci-fabric-location> [ <stale-timer> ] }
] [ { <vni> <learn-src> <vni-gw-mac> <peer-type> } ] ] ] ]
```

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
<i>__readonly__</i>	(Optional)
<i>detail</i>	(Optional) detail
<i>control-plane-vni</i>	(Optional) control-plane-vni
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>router-mac</i>	(Optional) router-mac
<i>first-vni</i>	(Optional) first-vni
<i>create-ts</i>	(Optional) create-timestamp
<i>config-vnis</i>	(Optional) config-vnis
<i>provision-state</i>	(Optional) provision-state
<i>cp-vni</i>	(Optional) cp-vni
<i>vni-assignment-mode</i>	(Optional) vni assignment mode
<i>dci-fabric-location</i>	(Optional) dci-fabric-location
<i>stale-timer</i>	(Optional) stale-timer
<i>vni</i>	(Optional) vni value
<i>learn-src</i>	(Optional) learn source
<i>vni-gw-mac</i>	(Optional) vni gateway mac
<i>peer-type</i>	(Optional) peer location wan/fabric

Command Mode

- /exec

show nve peers interface counters

```
show nve peers { <addr> | <addr-v6> } interface <nve-if> counters [ __readonly__ { <peer-ip> | <peer-ipv6>
} <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
counters	Counters
interface	Interface
<i>nve-if</i>	NVE 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 mpls

```
show nve peers mpls [ peer-ip { <user-peer-ip> | <user-peer-ipv6> } ] [ detail ] [ __readonly__
TABLE_nve_mpls_peers [ [ <detail> ] { <peer-ip> | <peer-ipv6> } [ <peer-state> ] [ <uptime> ] [ <create-ts>
] [ <provision-state> ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
peers	Show peers
mpls	Segment routing peers
detail	(Optional) Detailed information
peer-ip	(Optional) Show a specific peer
<i>user-peer-ip</i>	(Optional) Remote Peer IP address
<i>__readonly__</i>	(Optional)
<i>detail</i>	(Optional) detail
TABLE_nve_mpls_peers	(Optional) schema peer
<i>peer-ip</i>	(Optional) peer-ip
<i>peer-state</i>	(Optional) peer-state
<i>uptime</i>	(Optional) uptime
<i>create-ts</i>	(Optional) create-timestamp
<i>provision-state</i>	(Optional) provision-state

Command Mode

- /exec

show nve peers vni interface counters

```
show nve peers { { <addr> | <addr-v6> } | all } vni { <vni-id> | all } interface <nve-if> counters [ __readonly__
TABLE_nve_peer_vni_counters { <peer-ip> | <peer-ipv6> } <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
counters	Counters
interface	Interface
<i>nve-if</i>	NVE interface
__readonly__	(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
__readonly__	(Optional)
TABLE_nve_replication_servers	(Optional) replcation 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 [ [ <detail> ] [ <if-name> <vni> <mcast> <vni-state> <mode> <type>
<flags> [ { <prvsn-state> <vlan-bd> <svi-state> <vpc-compat-check> } ] ] ] [ <summary> ] <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>detail</i>	(Optional) detail
<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>vpc-compat-check</i>	(Optional) vpc-compat-check
<i>summary</i>	(Optional) summary
<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> | <repl-ipv6> } <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)
TABLE_nve_vrf	(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__ <nxapi_status> [ configuration_error <c_error> ] [ <http_port> ] [ <https_port>
<ssl_issuer> <ssl_enddate> ] ]
```

Syntax Description

show	Show running system information
nxapi	Show nxapi status
__readonly__	(Optional)
<i>nxapi_status</i>	(Optional) NX-API enabled status
configuration_error	(Optional) config syntax error
<i>c_error</i>	(Optional) config syntax error
<i>http_port</i>	(Optional) Configured HTTP port
<i>https_port</i>	(Optional) Configured HTTPS port
<i>ssl_issuer</i>	(Optional) Issuer information for current certificate
<i>ssl_enddate</i>	(Optional) Expiration date of current certificate

Command Mode

- /exec

show nxapi syntax

show nxapi syntax <cli>

Syntax Description

show	Show running system information
nxapi	Show nxapi status
syntax	Display syntax for given command
<i>cli</i>	the exact cli to look-up

Command Mode

- /exec

show nxapi syntax



0 Show Commands

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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> | <hostipv6> | <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 openflow hardware capabilities

show openflow hardware capabilities [pipeline <pipeline-id>]

Syntax Description

show	Show running system information
openflow	Show OpenFlow information
hardware	Hardware
capabilities	Capabilities
pipeline	(Optional) Pipeline id
<i>pipeline-id</i>	(Optional) Pipeline id

Command Mode

- /exec

show openflow switch

```
show openflow switch <switch-id> [ { controllers [ stats | { role { master | slave | equal } } ] | ports } ] [
__readonly__ <cli_output> <ctrlv4> <ctrlport> ]
```

Syntax Description

show	Show running system information
openflow	Show OpenFlow information
switch	Logical switch id
<i>switch-id</i>	Logical switch-id to enter
controllers	(Optional) Controllers
stats	(Optional) Stats
ports	(Optional) Ports
role	(Optional) Controller role
master	(Optional) Master
slave	(Optional) Slave
equal	(Optional) Equal
<i>__readonly__</i>	(Optional)
<i>cli_output</i>	(Optional)
<i>ctrlv4</i>	(Optional)
<i>ctrlport</i>	(Optional)

Command Mode

- /exec

show openflow switch flows

```
show openflow switch <switch-id> flows [ [ table-id <table-id> ] [ [ pending | pending-del | controller |
configured | default | fixed ] [ brief | list | summary ] ] | stats | compare statistics { snapshot | report [ brief |
list ] } ]
```

Syntax Description

show	Show running system information
openflow	Show OpenFlow information
switch	Logical switch id
<i>switch-id</i>	Logical switch-id to enter
flows	Flows
brief	(Optional) Brief
summary	(Optional) Summary
pending	(Optional) Pending
pending-del	(Optional) Pending delete
controller	(Optional) Controller
configured	(Optional) Configured
default	(Optional) Default
fixed	(Optional) Fixed
stats	(Optional) Stats
compare	(Optional) Compare Flow Statistics
statistics	(Optional) Flow Statistics
snapshot	(Optional) Create a reference point to compare flow stats counters
report	(Optional) Dump difference of flow stats counters from snapshot
table-id	(Optional) Table-id for the pipeline
list	(Optional) List
<i>table-id</i>	(Optional) Table ID

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_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> ] [ { 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> [ <name_lookup> ] <no_discard_rt_ext> <no_discard_rt_int> [ <passive_dflt>
] [ <bfd_enabled> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ { 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> [
<ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] <spf_runs> <last_spf_run_time> [
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
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
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
instance_number	(Optional)
cname	(Optional)
rid	(Optional)

<i>stateful_ha</i>	(Optional)
<i>gr_ha</i>	(Optional)
<i>gr_planned_only</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>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>name_lookup</i>	(Optional)
<i>no_discard_rt_ext</i>	(Optional)
<i>no_discard_rt_int</i>	(Optional)
<i>passive_dflt</i>	(Optional)
<i>bfd_enabled</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_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>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>spf_runs</i>	(Optional)
<i>last_spf_run_time</i>	(Optional)

TABLE_range	(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
<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
border-routers	Border routers
all_routes	(Optional) Display all OSPFv3 routes
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_br	(Optional)
<i>type</i>	(Optional)
<i>addr</i>	(Optional)
<i>cost</i>	(Optional)
<i>asbr</i>	(Optional)
<i>abr</i>	(Optional)
<i>area</i>	(Optional)
<i>spf_inst</i>	(Optional)
<i>vlink_unresolved</i>	(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
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
database-summary	Summary of database
__readonly__	(Optional)
TABLE_ctx	(Optional)
rid	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_dbsum	(Optional)
TABLE_dbsum_area	(Optional)
area	(Optional)
TABLE_dbsum_area_lsa	(Optional)
area_lsa_name	(Optional)
area_lsa_count	(Optional)
area_lsa_total	(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 ospfv3 database detail

```
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> ] detail [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_db3_lsa [ <name>
] [ <area> ] [ TABLE_lsd <age> <maxage> <wrapping> <dummy> <flush_pending> <type> [ <intf> ] <id>
<advtr> <seqno> <cksum> <len> [ <corrupt> ] [ <rtr_abr> ] [ <rtr_asbr> ] [ <rtr_translate> ] [ <rtr_vlink_end>
] [ <rtr_options> ] [ <rtr_num_links> ] [ TABLE_rlsa [ <rtr_link_type> ] [ <rtr_link_metric> ] [ <rtr_link_ifid>
] [ <rtr_link_nbr_ifid> ] [ <rtr_link_nbr_rid> ] ] [ <net_options> ] [ TABLE_nlsa [ <net_rtr> ] ] [ <ia_prefix>
] [ <ia_prefix_options> ] [ <ia_prefix_metric> ] [ <ia_rtr_options> ] [ <ia_rtr_metric> ] [ <ia_rtr_rid> ] [
<asext_prefix> ] [ <asext_options> ] [ <asext_metric_type2> ] [ <asext_metric> ] [ <asext_fwd_addr> ] [
<asext_tag> ] [ <asext_ref_lstype> ] [ <asext_ref_lsid> ] [ <link_priority> ] [ <link_options> ] [ <link_laddr>
] [ <link_num_prefix> ] [ TABLE_linklsa [ <link_prefix> ] [ <link_prefix_options> ] ] [ <intra_num_prefix>
] [ <intra_ref_lstype> ] [ <intra_ref_lsid> ] [ <intra_ref_advtr> ] [ TABLE_iaplsa [ <intra_prefix> ] [
<intra_prefix_options> ] [ <intra_prefix_metric> ] [ <corrupted_length> ] ] [ <tlv_type> ] [ <tlv_len> ] [
<tlv_data> ] [ <tlv_unknown> ] [ <gr_interval> ] [ <gr_reason> ] [ <unknown> ] [ <data_len> ] [ <data> ] ]
] ]
```

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
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
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 database 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 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> [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ <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> ] [ <lsu_timer> ] [ <lsack_timer>
] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <multi_area_cnt> ] [ <multi_area_adj> ] ] ]
```

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>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>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>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)

<i>link_lsa_crc</i>	(Optional)
<i>multi_area_cnt</i>	(Optional)
<i>multi_area_adj</i>	(Optional)

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
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
neighbors	Neighbor list
interface	(Optional) OSPF enabled interface
neighbor	(Optional) Router ID of neighbor
neighbor-name	(Optional) DNS Name of the neighbor
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
nbrcount	(Optional)
TABLE_nbr	(Optional)
rid	(Optional)
priority	(Optional)
state	(Optional)
drstate	(Optional)
uptime	(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> ] [ <sradsid> ] [ <sradjflags> ] ] ]
```

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
neighbors	Neighbor list
interface	(Optional) OSPF enabled interface
neighbor	(Optional) Router ID of neighbor
detail	Show detailed neighbor display
private	(Optional) Developer-only statistics
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_nbr	(Optional)
rid	(Optional)
area	(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>lsre rxmts</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>re rxmtimer</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>sradjsid</i>	(Optional)
<i>sradjflags</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
<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 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

show ospfv3 retransmission-list

```
show [ ipv6 ] ospfv3 [ <tag> ] retransmission-list { <routerid> | <router-name> } <interface> [ __readonly__
[ TABLE_ctx <ptag> <cname> [ TABLE_rxmit <nbr_rid> <intf> <nbr_addr> [ <timer_running> ] [
<timer_due> ] [ TABLE_lsa [ <type> ] [ <lsid> ] [ <advrtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ]
```

Syntax Description

<code>show</code>	Show running system information
<code>ipv6</code>	(Optional) Display IPv6 information
<code>ospfv3</code>	Display OSPFv3 status and configuration
<code>tag</code>	(Optional) Process tag
<code>retransmission-list</code>	Link state retransmission list
<code>routerid</code>	Neighbor router ID
<code>router-name</code>	DNS Name of the router
<code>interface</code>	OSPF enabled interface
<code>__readonly__</code>	(Optional)
<code>TABLE_ctx</code>	(Optional)
<code>ptag</code>	(Optional)
<code>cname</code>	(Optional)
<code>TABLE_rxmit</code>	(Optional)
<code>nbr_rid</code>	(Optional)
<code>intf</code>	(Optional)
<code>timer_running</code>	(Optional)
<code>timer_due</code>	(Optional)
<code>TABLE_lsa</code>	(Optional)
<code>type</code>	(Optional)
<code>lsid</code>	(Optional)
<code>advrtr</code>	(Optional)
<code>seqno</code>	(Optional)
<code>cksum</code>	(Optional)
<code>age</code>	(Optional)

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_ulib>
] <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_sham_link> ] [
<ubest_nh_te_tun> ] [ <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
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
all_routes	(Optional) Display all OSPFv3 routes
tag	(Optional)
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
hdr_masklen	(Optional)
TABLE_route	(Optional)
masklen	(Optional)
type	(Optional)
in_ulib	(Optional)
in_rib	(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_sham_link</i>	(Optional)
<i>ubest_nh_te_tun</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
<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
summary	Show route counts
__readonly__	(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 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> ] <hello_in> <dbds_in> <lsreqs_in> <lsus_in> <lsacks_in> <hello_out>
<dbds_out> <lsreqs_out> <lsus_out> <lsacks_out> [ <hello_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
tag	(Optional) Process tag
interface	(Optional) OSPF enabled interface
detail	(Optional) Display detailed information
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
traffic	Packet counters
__readonly__	(Optional)
TABLE_traf	(Optional)
ptag	(Optional)
cname	(Optional)
last_clear	(Optional)
ifname	(Optional)
pkt_in	(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> ] [ <hellooptions> ] [ <dbdoptions> ] [
<lastnonhello> ] [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [
<rerxmtimer> ] [ <fastrerxmtimer> ] [ <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>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>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
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
brief	Display summary of OSPFv3 virtual links
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
vlink_count	(Optional)
TABLE_vlink	(Optional)
nbr_rid	(Optional)
vlink_num	(Optional)
transit_area	(Optional)
cost	(Optional)
if_state	(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



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show param-list

```
show param-list [ param-list-name <plistname> ] [ show-instance ] [ __readonly__ TABLE_param_list
<param_list_name> [ <param_list_var> ] [ <param_list_type> ] [ TABLE_instance <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)
TABLE_param_list	(Optional)
<i>param_list_name</i>	(Optional) Parameter List Name
<i>param_list_var</i>	(Optional) Parameter Name
<i>param_list_type</i>	(Optional) Param Type
TABLE_instance	(Optional)
<i>param_instance_name</i>	(Optional) Instance Name
<i>param_instance_var</i>	(Optional) Instance Variable Name
<i>param_instance_val</i>	(Optional) Instance Variable Value

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 pending

show [pending]

Syntax Description

show	Display region configurations
pending	(Optional) Display the new mst configuration to be applied

Command Mode

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

show plb

```
show plb [ service <service-name> ] [ brief ] [ __readonly__ <is_firstentry> <is_detail> <is_active>
<is_firstentry_routemap> <is_firstentry_standby> <is_firstentry_acl> <is_lastentry> [ TABLE_summary
<service_name> <state> [ <reason> ] <lb_scheme> [ <interface> ] <buckets> [ <vrf_name> ] [ <excl_acl> ]
[ <src_interface> ] [ TABLE_device <device_grp> <dg_probe> <dg_probe_port> ] [ TABLE_route_map [
<route_map> ] <interface> <r_status> ] [ 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
plb	Display PLB service details
service	(Optional) PLB details for specific service
<i>service-name</i>	(Optional) Specify PLB service name
brief	(Optional) Display PLB service in 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) PLB service name
<i>lb_scheme</i>	(Optional) lb scheme
<i>interface</i>	(Optional) interface

<i>src_interface</i>	(Optional) source interface for probe
<i>state</i>	(Optional) state
<i>buckets</i>	(Optional) buckets
<i>reason</i>	(Optional) inactive reason
<i>vrf_name</i>	(Optional) VRF-Name
<i>excl_acl</i>	(Optional) exclude access-list
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
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

show plb analytics

```
show plb analytics [ service <service-name> ] [ src { <sip> | <sipv6> } | node { <nip> | <nipv6> } | vip {
<vip> | <vipv6> } | device-group <group-name> ] [ brief ] [ __readonly__ <plbshowinfo-stats-svc-hdr> [
TABLE_stats_svc <plbshowinfo-stats-service_name> <plbshowinfo-stats-dev-grp> <plbshowinfo-stats-vip>
<plbshowinfo-stats-vip-pkts> <plbshowinfo-stats-vip-pkts-percentage> [ <plbshowinfo-stats-ace-seq> ] [
<plbshowinfo-stats-ace-ip> ] <plbshowinfo-stats-bkt-hdr> [ TABLE_stats_bkt <plbshowinfo-stats-acl> [
<plbshowinfo-stats-oper-node> ] <plbshowinfo-stats-node-mode> <plbshowinfo-stats-orig-node>
<plbshowinfo-stats-node-pkts> <plbshowinfo-stats-node-pkts-percentage> [ <plbshowinfo-stats-acl-pkts> ]
[ <plbshowinfo-for-ace> ] ] ] <plb-show-end> [ <plb-true-end> ] ]
```

Syntax Description

show	Show running system information
plb	PLB service
analytics	PLB analytics information
service	(Optional) PLB analytics for specific service
<i>service-name</i>	(Optional) Specify plb service name
src	(Optional) Analytics information for source (bucket) ip
node	(Optional) Analytics information for destination device group node/server ip
vip	(Optional) Analytics information for virtual ip
device-group	(Optional) Analytics information of specified device group
<i>group-name</i>	(Optional) Specify device group name
<i>sip</i>	(Optional) Specify source ipv4 address
<i>nip</i>	(Optional) Specify destination ipv4 address
<i>vip</i>	(Optional) Specify virtual ipv4 address
brief	(Optional) Brief analytics information
<i>__readonly__</i>	(Optional) Read Only
<i>plbshowinfo-stats-svc-hdr</i>	(Optional) PLB analytics service header
TABLE_stats_svc	(Optional) plb stats service
<i>plbshowinfo-stats-service_name</i>	(Optional) PLB analytics service name
<i>plbshowinfo-stats-dev-grp</i>	(Optional) PLB analytics device group
<i>plbshowinfo-stats-vip</i>	(Optional) PLB analytics VIP IP

<i>plbshowinfo-stats-vip-pkts</i>	(Optional) PLB analytics virtual ip pkt_count
<i>plbshowinfo-stats-vip-pkts-percentage</i>	(Optional) PLB analytics virtual ip pkts percentage
<i>plbshowinfo-stats-ace-seq</i>	(Optional) PLB analytics ACE name and sequence number
<i>plbshowinfo-stats-ace-ip</i>	(Optional) PLB analytics ACE ip/mask/prefix
<i>plbshowinfo-stats-bkt-hdr</i>	(Optional) PLB analytics bucket header
TABLE_stats_bkt	(Optional) plb stats bucket
<i>plbshowinfo-stats-acl</i>	(Optional) PLB analytics bucket/acl name
<i>plbshowinfo-stats-oper-node</i>	(Optional) PLB analytics Operational node ip
<i>plbshowinfo-stats-node-mode</i>	(Optional) PLB analytics node mode
<i>plbshowinfo-stats-orig-node</i>	(Optional) PLB analytics Original node ip
<i>plbshowinfo-stats-node-pkts</i>	(Optional) PLB analytics node pkts count
<i>plbshowinfo-stats-node-pkts-percentage</i>	(Optional) PLB analytics node pkts percentage
<i>plbshowinfo-stats-acl-pkts</i>	(Optional) PLB analytics acl pkts
<i>plbshowinfo-for-ace</i>	(Optional) PLB analytics for ACE
<i>plb-show-end</i>	(Optional) Show plb end marker
<i>plb-true-end</i>	(Optional) show plb true end marker

Command Mode

- /exec

show plb vrf

```
show plb vrf [ <vrf-name> ] [ __readonly__ <plbshowinfo-vrf-hdr> { TABLE_svc
<plbshowinfo-vrf-service_name> <plbshowinfo-vrf-name> <plbshowinfo-vrf-id> } <plb-show-end> [
<plb-true-end> ] ]
```

Syntax Description

show	Show running system information
plb	PLB service
vrf	PLB service vrf
<i>vrf-name</i>	(Optional) VRF name
<i>__readonly__</i>	(Optional) Read Only
<i>plbshowinfo-vrf-hdr</i>	(Optional) PLB info vrf header
TABLE_svc	(Optional) PLB Service VRF details
<i>plbshowinfo-vrf-service_name</i>	(Optional) PLB service name
<i>plbshowinfo-vrf-name</i>	(Optional) PLB vrf name
<i>plbshowinfo-vrf-id</i>	(Optional) PLB vrf id
<i>plb-show-end</i>	(Optional) Show plb end marker
<i>plb-true-end</i>	(Optional) show plb true end marker

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 [<iface-list>] [input | output] [type <qos-or-q>] [detail] |

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)
detail	(Optional) Detailed QoS or Queuing statistics

Command Mode

- /exec

show pnp lease

show pnp lease

Syntax Description

show	Show running system information
pnp	Plug and Play
lease	Show PnP lease information

Command Mode

- /exec

show pnp posix_pi configs

show pnp posix_pi configs

Syntax Description

show	Show running system information
pnp	Plug and Play
posix_pi	Posix PnP PI agent
configs	Posix PnP PI configuration

Command Mode

- /exec

show pnp posix_pi tech-support

show pnp posix_pi tech-support

Syntax Description

show	Show running system information
pnp	Plug and Play
posix_pi	Posix PnP PI agent
tech-support	Technical Support

Command Mode

- /exec

show pnp profiles

show pnp profiles

Syntax Description

show	Show running system information
pnp	Plug and Play
profiles	Show POSIX PnP Profile

Command Mode

- /exec

show pnp status

show pnp status

Syntax Description

show	Show running system information
pnp	Plug and Play
status	Show POSIX PnP Status

Command Mode

- /exec

show pnp summary

show pnp summary

Syntax Description

show	Show running system information
pnp	Plug and Play
summary	Show POSIX PnP Summary

Command Mode

- /exec

show pnp version

show pnp version

Syntax Description

show	Show running system information
pnp	Plug and Play
version	Show POSIX PnP Version

Command Mode

- /exec

show policy-map

```
show policy-map [ { [ type qos ] [ <pmap-name-qos> ] } | { type queuing [ <pmap-name-que> ] } ] [
__readonly__ { [ <display-all> ] [ TABLE_pmap [ <pmap-key> ] [ <type-spec> ] [ <yqos-or-q> ] [ <options>
] [ <pmap-name-out> [ <nq-xpmap-name> ] [ <desc> ] [ <nq-desc> ] [ TABLE_cmap [ <cmap-key> ] [
<type-cmap-spec> ] [ <xqos-or-q> ] [ <cmap-name> ] [ <nq-xcmap-name> ] [ TABLE_action [ <action-key>
] [ <nq-action-key> ] [ <serv-pol-type> ] [ <serv-pol-name> ] [ <cos-list> ] [ <qos-group-list> ] [ <protocol>
] [ <nq-pause> <timeout> <nq-size-in-bytes> <nq-xoff-bytes> <nq-xon-bytes> ] [ <pfc-cos-list> ] [
<pfc_rx_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [
<mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold> ] [ <queue-limit> ] [ <inner> ] [ <dlb-disable> ] [ <cos>
] [ <exp-val-imposition> ] [ <exp-val-topmost> ] [ <dscp-enum> ] [ <dscp> ] [ <prec-enum> ] [ <prec> ] [
<disc-class> ] [ <qos-group> ] [ <tmap-from> ] [ <tmap-to> ] [ <tmap-name> ] [ <avg-rate-type> ] [ <rate-units>
] [ <shape-rate> ] [ <min-rate-type> ] [ <min-rate-units> ] [ <shape-min-rate> ] [ <max-rate-type> ] [
<max-rate-units> ] [ <shape-max-rate> ] [ <rise-threshold-units> ] [ <fall-threshold-units> ] [ <prio-level> ]
] [ <qlim-param-type> ] [ <qlim-param-val> ] [ <ooo> ] [ <size-units> ] [ <qlim-size> ] [ <qlim-enum-spec>
] [ <rdet-agg> ] [ <rdet-mode> ] [ <rdet-burst-opt> ] [ <rdet-mesh-opt> ] [ <rdet-ecn> ] [ TABLE_rdet
<rdet-key> [ <rdet-values> ] [ <rdet-min-thresh> ] [ <rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob>
] [ <rdet-weight> ] [ <rdet-cap-average> ] [ <rdet-nonecn-mode> ] [ TABLE_rdet_nonecn <rdet-nonecn-key>
] [ <rdet-nonecn-min-thresh> ] [ <rdet-nonecn-size-units> ] [ <rdet-nonecn-max-thresh> ] [
<rdet-nonecn-drop-prob> ] [ <afd-mode> ] [ TABLE_afd <afd-key> [ <afd-values> ] [ <afd-queue-desired>
] [ <afd-size-units> ] [ <afd-ecn> ] ] [ <pause> <size-in-bytes> <xoff-bytes> <xon-bytes> ] [
<priority-group-number> ] [ <bw-units> ] [ <bw-rate> ] [ <rem-bw-units> ] [ <rem-bw-rate> ] [
<agg-policer-name> ] [ <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_police <police-key> [ <cnf-act> ] [ <exc-act> ] [ <vio-act> ] [ <set-type> ] [ <enum-spec> ] [ <set-val>
] [ <ptmap-from> ] [ <ptmap-to> ] [ <ptmap-name> ] ] [ <burst-detect-enable> ] ] ] ] }
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	(Optional) Type of the policy-map
qos	(Optional) type qos
queuing	(Optional) type queuing
<i>pmap-name-qos</i>	(Optional) policy map name (type qos)
<i>pmap-name-que</i>	(Optional) policy map name (type queuing)
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all kinds of class-maps
TABLE_pmap	(Optional) all pmap xml sessions
<i>pmap-key</i>	(Optional) Policy-map name: xml key
TABLE_rdet	(Optional) all WRED sessions

TABLE_rdet_nonecn	(Optional) all WRED non ECN sessions
TABLE_afd	(Optional) all AFD sessions
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>nq-action-key</i>	(Optional) Actions xcount: 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>nq-desc</i>	(Optional) Description xstring
<i>cmap-name</i>	(Optional) Class-map name
<i>nq-xpmap-name</i>	(Optional) Policy-map xname
<i>nq-xcmap-name</i>	(Optional) Class-map xname
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
<i>protocol</i>	(Optional) protocol
<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

<i>dctcp-threshold</i>	(Optional) DCTCP threshold in bytes
<i>queue-limit</i>	(Optional) Queue size for the class
<i>pfrc_rx_only</i>	(Optional) Pause receive only mode is enabled
<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>nq-pause</i>	(Optional) NQ 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
<i>burst-detect-enable</i>	(Optional) Burst detect feature is enabled

Command Mode

- /exec

show policy-map interface control-plane

```
show policy-map interface control-plane { [ module <slot-no-in> [ class <omap-name> ] ] [ class <omap-name>
[ module <slot-no-in> ] ] } [ __readonly__ [ <scale-factor-cmd> ] <pmap-name> [ 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> ] ] + ] [
<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_be> ] [ <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>omap-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_omap	(Optional) all omap xml sessions
<i>omap-key</i>	(Optional) Class-map key : XML output
<i>omap-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 system

```
show policy-map system [ type { network-qos | qos [ input2 ] | queuing [ input | output ] } ] [ __readonly__
{ [ <display-all> ] [ TABLE_xpmap <xpmap-name> [ <desc> ] [ TABLE_xcmap <xcmap-name> [
TABLE_xaction <xaction-key> [ <cos-list> ] [ <qos-group-list> ] [ <protocol> ] [ <pause> <timeout>
<size-in-bytes> <xoff-bytes> <xon-bytes> ] [ <pfc-cos-list> ] [ <pfc_rx_only> ] [ <cc> ] [ <thresh-units> ] [
<min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold>
] [ <queue-limit> ] [ <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> [ <slot-num> ] [ <class-pkts> ] [ <agg-forward> ] [ TABLE_match <match-key>
[ <not> ] [ <inner> ] [ <cos-list> ] [ <dscp-list> ] [ <exp-value-top> ] [ <protocol-name> ] [
<match-cmap-xqos-or-q> ] [ <match-cmap-opts> ] [ <match-cmap-name> ] ] [ TABLE_action <action-key>
[ <set-inner> ] [ <cos> ] [ <qos-group> ] [ <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> ] [ <rdet-agg> ] [ <rdet-mode> ] [
<rdet-burst-opt> ] [ <rdet-mesh-opt> ] [ TABLE_rdet <rdet-key> [ <rdet-values> ] [ <rdet-min-thresh> ] [
<rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob> ] [ <rdet-weight> ] [ <rdet-cap-average> ] ] [
<rdet-ecn> ] [ 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
TABLE_xpmap	(Optional) all xpmap xml sessions
<i>xpmap-name</i>	(Optional) Policy-map name
TABLE_xcmap	(Optional) all xcmap xml sessions

<i>xcmmap-name</i>	(Optional) Class-map name
TABLE_xaction	(Optional) all network-qos actions
<i>xaction-key</i>	(Optional) network-qos actions count: xml key
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>desc</i>	(Optional) Description string
<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>pfc_rx_only</i>	(Optional) Pause receive only mode enabled
<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>queue-limit</i>	(Optional) Queue size for the class
<i>protocol-name</i>	(Optional) protocol name
<i>protocol</i>	(Optional) protocol
<i>dctcp-threshold</i>	(Optional) DCTCP threshold in bytes
<i>cos-list</i>	(Optional) List of class-of-service values
<i>dscp-list</i>	(Optional) List of DSCP values
<i>exp-value-top</i>	(Optional) List of MPLS exp values
<i>qos-group</i>	(Optional) QoS Group Value
<i>qos-group-list</i>	(Optional) List of qos-group values
<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-agg</i>	(Optional) Are the params for aggregate flow
<i>rdet-mode</i>	(Optional) Random-detect mode
<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
<i>slot-num</i>	(Optional) the slot number
<i>agg-forward</i>	(Optional) prints out aggregate forward

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> ] [ TABLE_xpmap
<xpmap-name> [ <desc> ] [ TABLE_xcmap <xcmap-name> [ TABLE_action <action-key> [ <cos-list> ] [
<qos-group-list> ] [ <protocol> ] [ <pause> <timeout> <size-in-bytes> <xoff-bytes> <xon-bytes> ] [
<pfc-cos-list> ] [ <pfc_rx_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob>
] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold> ] [ <queue-limit> ] ] ] ] ] }
```

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
TABLE_xpmap	(Optional) all xpmap xml sessions
<i>xpmap-name</i>	(Optional) Policy-map name
TABLE_xcmap	(Optional) all xcmap xml sessions
<i>xcmap-name</i>	(Optional) Class-map name
TABLE_action	(Optional) all actions
<i>action-key</i>	(Optional) Actions count: xml key
<i>desc</i>	(Optional) Description string
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
<i>protocol</i>	(Optional) protocol
<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
<i>dctcp-threshold</i>	(Optional) DCTCP threshold in bytes
<i>queue-limit</i>	(Optional) Queue size for the class
<i>pfc_rx_only</i>	(Optional) Pause receive only mode is enabled

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__* { *TABLE_compatibility* <parameter> <description> } +]

Syntax Description

show	Show running system information
port-channel	Show port-channel information
compatibility-parameters	Show compatibility parameters
<i>__readonly__</i>	(Optional)
<i>TABLE_compatibility</i>	(Optional) Port-channel compatibility table
<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

- /exec

show port-channel fast-convergence

show port-channel fast-convergence [__readonly__ { port-channel fast-convergence <fastconvergence> }]

Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
fast-convergence	Show port-channel fast-convergence status
__readonly__	(Optional)
<i>fastconvergence</i>	(Optional) port channel fast convergence enable/disable

Command Mode

- /exec

show port-channel load-balance

```
show port-channel load-balance { [ module <module> ] | { fex { all } } } [ __readonly__ [ <sys-cfg> ] +
<sys-cfg-sel> [ { <module-cfg> } ] + <non-ip-val> <non-ip-sel> <ipv4-val> <ipv4-sel> [ <ipv6-val> ] [
<ipv4-encap> ] { TABLE_mod_configs [ <mod-number> ] <mod-non-ip-val> <mod-non-ip-sel>
<mod-ipv4-val> <mod-ipv4-sel> [ <mod-ipv4-encap> ] } ]
```

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>sys-cfg-sel</i>	(Optional) system config
<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
<i>ipv4-encap</i>	(Optional) encapsulation
TABLE_mod_configs	(Optional) module configurations
<i>mod-number</i>	(Optional) module number
<i>mod-non-ip-val</i>	(Optional) load balance setting for non-ip traffic
<i>mod-non-ip-sel</i>	(Optional) non ip select
<i>mod-ipv4-val</i>	(Optional) load balance setting for ipv4 traffic
<i>mod-ipv4-sel</i>	(Optional) ip select

<i>mod-ipv4-encap</i>	(Optional) encapsulation
-----------------------	--------------------------

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> | gtp-teid <gtp-teid> } + [ 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>	
gtp-teid	gtp-teid
<i>gtp-teid</i>	gtp-teid
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)
<i>__readonly__</i>	(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 scale-fanout

```
show port-channel scale-fanout [ __readonly__ { port-channel high-density <scalefanout> } ]
```

Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
scale-fanout	Enable/disable port-channel scale-fanout when ports span more than 16 ASIC units
__readonly__	(Optional)
high-density	(Optional) port channel high density
<i>scalefanout</i>	(Optional) port channel scale fanout enable/disable

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-license

```
show port-license [ __readonly__ <consumed_port_licenses> [ TABLE_portlicense <interface> <cookie>
<port_activation_license> ] ]
```

Syntax Description

show	Show running system information
port-license	Show port license information
<i>__readonly__</i>	(Optional)
<i>consumed_port_licenses</i>	(Optional) Consumed port licenses
TABLE_portlicense	(Optional) port and licenses
<i>interface</i>	(Optional) interface name
<i>cookie</i>	(Optional) cookie
<i>port_activation_license</i>	(Optional) license state

Command Mode

- /exec

show port-profile

```
show port-profile [ name <all_profile_name> ] [ __readonly__ TABLE_port_profile_all <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)
TABLE_port_profile_all	(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__ TABLE_port_profile
<profile_name> [ TABLE_interface <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)
TABLE_port_profile	(Optional)
<i>profile_name</i>	(Optional)
TABLE_interface	(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> + [ <inherit> ] <status> + [
<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__ [ <total_addr> ] [ <max_sys_limit> ] [ { TABLE_eth_port_sec_interfaces
<secure_port> <port_state> <max_secure_addr> <security_violation> <security_action> <current_addr>
<num_val> <num_elems> <cmdid_show_index> } ] ]
```

Syntax Description

port-security	Show secure port information
<i>__readonly__</i>	(Optional)
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port
TABLE_eth_port_sec_interfaces	(Optional) Displays the secured interfaces
<i>secure_port</i>	(Optional) Interface Index
<i>port_state</i>	(Optional) Port security enabled or disabled
<i>max_secure_addr</i>	(Optional) Maximum 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>current_addr</i>	(Optional) Number of secured MAC addresses
<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

Command Mode

- /exec

show port-security address

```
show port-security address [ __readonly__ [ <total_addr> ] [ <max_sys_limit> ] [ {
TABLE_eth_port_sec_mac_addrs <if_index> <vlan_id> <type> <mac_addr> <remain_age> <remote_learnt>
<remote_aged> <num_elems> <cmd_addr_index> } ] ]
```

Syntax Description

port-security	Show secure port information
address	Show secure address
<i>__readonly__</i>	(Optional)
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port
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>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>mac_addr</i>	(Optional) 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

Command Mode

- /exec

show port-security address interface

```
show port-security address interface <interface-id> [ __readonly__ { TABLE_eth_port_sec_mac_addr
<if_index> <vlan_id> <type> <mac_addr> <remain_age> <remote_learnt> <remote_aged> <num_elems>
<cmd_addr_index> } [ <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_addr	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>mac_addr</i>	(Optional) 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
<i>first</i>	(Optional) To identify the first entry

Command Mode

- /exec

show port-security interface

```
show port-security interface <interface-id> [ __readonly__ <port_status> <config_port_security>
<oper_port_security> <violation_mode> <aging_time> <aging_type> <max_mac_addr> <total_sec_addrs>
<conf_num_addrs> <num_sticky_addrs> <trap_count> ]
```

Syntax Description

<code>port-security</code>	Show secure port information
<code>interface</code>	Show secure interface
<i>interface-id</i>	ethernet
<code>__readonly__</code>	(Optional)
<i>port_status</i>	(Optional) Secure Up/Down
<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>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 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 naming

show port naming

Syntax Description

show	Show running system information
port	Show port information
naming	Show port naming information

Command Mode

- /exec

show postcard-telemetry exporter

```
show postcard-telemetry exporter [ name ] [ <exportername> ] [ __readonly__ <exporter> <description>
<dest> <vrf> <vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <seq_num> ]
```

Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
exporter	Show POSTCARD Exporter Configuration
name	(Optional) Show a specific POSTCARD 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>seq_num</i>	(Optional)

Command Mode

- /exec

show postcard-telemetry flow-profile

```
show postcard-telemetry flow-profile [ name ] [ <flow-profilename> ] [ __readonly__ <flow-profile>
<description> <age> <latency> ]
```

Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
flow-profile	Show POSTCARD flow Profile Configuration
name	(Optional) Show a specific POSTCARD flow Profile
<i>flow-profilename</i>	(Optional) Specify an flow Profile
<i>__readonly__</i>	(Optional)
<i>flow-profile</i>	(Optional)
<i>description</i>	(Optional)
<i>age</i>	(Optional)
<i>latency</i>	(Optional)

Command Mode

- /exec

show postcard-telemetry monitor

```
show postcard-telemetry monitor [ name ] [ <monitorname> [ cache [ detailed ] ] ] [ __readonly__ <monitor>
<use_count> <description> <event> <exporter> <bucket_id> <src_addr> <dest_addr> <watchlist> ]
```

Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
monitor	Show Monitor Configuration
name	(Optional) Show a specific POSTCARD 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>event</i>	(Optional)
<i>exporter</i>	(Optional)
<i>bucket_id</i>	(Optional)
<i>src_addr</i>	(Optional)
<i>dest_addr</i>	(Optional)
<i>watchlist</i>	(Optional)

Command Mode

- /exec

show postcard-telemetry queue-profile

```
show postcard-telemetry queue-profile [ name ] [ <queue-profilename> ] [ __readonly__ <queue-profile>
<description> <depth> <latency> ]
```

Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
queue-profile	Show POSTCARD Queue Profile Configuration
name	(Optional) Show a specific POSTCARD Queue Profile
<i>queue-profilename</i>	(Optional) Specify an Queue Profile
<i>__readonly__</i>	(Optional)
<i>queue-profile</i>	(Optional)
<i>description</i>	(Optional)
<i>depth</i>	(Optional)
<i>latency</i>	(Optional)

Command Mode

- /exec

show postcard-telemetry sessions

show postcard-telemetry sessions [<monitorname>] [__readonly__ <monitor>]

Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
sessions	Show Session Configuration
<i>monitorname</i>	(Optional) Specify a monitor
__readonly__	(Optional)
<i>monitor</i>	(Optional)

Command Mode

- /exec

show postcard-telemetry watchlist

```
show postcard-telemetry watchlist [ name ] [ { <watchlistname> } ] [ __readonly__ <watchlist> <use_count>
<description> <num_aces> <ace_seq_num> <ace_action> <ace_type> <ace_sip> <ace_sip_len> <ace_dip>
<ace_dip_len> ]
```

Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
watchlist	Show watchlist Configuration
name	(Optional) Show the configuration for a specific POSTCARD Record
<i>watchlistname</i>	(Optional) Specify a watchlist
<i>__readonly__</i>	(Optional)
<i>watchlist</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>num_aces</i>	(Optional)
<i>ace_seq_num</i>	(Optional)
<i>ace_action</i>	(Optional)
<i>ace_type</i>	(Optional)
<i>ace_sip</i>	(Optional)
<i>ace_sip_len</i>	(Optional)
<i>ace_dip</i>	(Optional)
<i>ace_dip_len</i>	(Optional)

Command Mode

- /exec

show power inline

```
show power inline [ __readonly__ { TABLE_fex_info <module_id> <avail_pwr> <used_pwr> <rem_pwr>
} { TABLE_intf_info <intf_name> <admin> <oper> <supp_pwr> <del_pwr> <device> <class> <max> } ]
```

Syntax Description

show	Show running system information
power	Power over Ethernet
__readonly__	(Optional)
TABLE_fex_info	(Optional) FEX information
<i>module_id</i>	(Optional) FEX id
<i>avail_pwr</i>	(Optional) Available power
<i>used_pwr</i>	(Optional) Used power
<i>rem_pwr</i>	(Optional) Free power
TABLE_intf_info	(Optional) Interface information
<i>intf_name</i>	(Optional) Interface name
<i>admin</i>	(Optional) Port mode
<i>oper</i>	(Optional) Oper mode
<i>supp_pwr</i>	(Optional) Supplied power
<i>del_pwr</i>	(Optional) delivered power
<i>device</i>	(Optional) Device information
<i>class</i>	(Optional) POE Class
<i>max</i>	(Optional) Max power

Command Mode

- /exec

show power inline

```
show power inline <if0> [ __readonly__ { TABLE_intf_info <intf_name> <admin> <oper> <supp_pwr>
<del_pwr> <device> <class> <max> } ]
```

Syntax Description

show	Show running system information
power	Power over Ethernet
<i>if0</i>	
<i>__readonly__</i>	(Optional)
TABLE_intf_info	(Optional) Interface information
<i>intf_name</i>	(Optional) Interface name
<i>admin</i>	(Optional) Port mode
<i>oper</i>	(Optional) Oper mode
<i>supp_pwr</i>	(Optional) Supplied power
<i>del_pwr</i>	(Optional) delivered power
<i>device</i>	(Optional) Device information
<i>class</i>	(Optional) POE Class
<i>max</i>	(Optional) Max power

Command Mode

- /exec

show power inline police

```
show power inline police [ __readonly__ { TABLE_police <intf_name> <admin> <oper> <admin_police>
<oper_police> <cutoff_pwr> <oper_pwr> } ]
```

Syntax Description

show	Show running system information
power	Power over Ethernet
police	Show per-port policing
<i>__readonly__</i>	(Optional)
<i>TABLE_police</i>	(Optional) Police information
<i>intf_name</i>	(Optional) Interface name
<i>admin</i>	(Optional) Port mode
<i>oper</i>	(Optional) Oper mode
<i>admin_police</i>	(Optional) Configured admin police
<i>oper_police</i>	(Optional) Current police
<i>cutoff_pwr</i>	(Optional) Cutoff power
<i>oper_pwr</i>	(Optional) Oper power

Command Mode

- /exec

show power inline priority

show power inline priority [*__readonly__* { *TABLE_priority* <intf_name> <admin> <oper> <priority> }]

Syntax Description

show	Show running system information
power	Power over Ethernet
priority	Show per-port priority
<i>__readonly__</i>	(Optional)
<i>TABLE_priority</i>	(Optional) Port priority information
<i>intf_name</i>	(Optional) Interface name
<i>admin</i>	(Optional) Port mode
<i>oper</i>	(Optional) Oper mode
<i>priority</i>	(Optional) port priority

Command Mode

- /exec

show privilege

show privilege [*__readonly__* <user_name> <cur_priv_level> <feature_priv_status>]

Syntax Description

show	Show running system information
privilege	Display privilege information
<i>__readonly__</i>	(Optional)
<i>user_name</i>	(Optional) Current user name
<i>cur_priv_level</i>	(Optional) Current privilege level
<i>feature_priv_status</i>	(Optional) Status of feature privilege

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 history data

show processes cpu history data [*__readonly__* { [*TABLE_processes_cpu_history* <*cpu_avg_sec*>] }]

Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
history	Show processes CPU Util History
data	Display the CPU util as data, instead of graph
<i>__readonly__</i>	(Optional)
<i>TABLE_processes_cpu_history</i>	(Optional) 60 sec cpu history
<i>cpu_avg_sec</i>	(Optional) cpu avg for a sec

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 physical

```
show processes memory physical [ __readonly__ { TABLE_process_physical_memory <processid> <virtual>
<physical> <rss> <processname> } ]
```

Syntax Description

show	Show running system information
processes	Show processes
memory	Show processes Memory Info
physical	Show processes physical Memory
__readonly__	(Optional)
TABLE_process_physical_memory	(Optional) all process physical memory
<i>processid</i>	(Optional) process id
<i>virtual</i>	(Optional) virtual allocated memory
<i>physical</i>	(Optional) physical memory used
<i>rss</i>	(Optional) rss memory
<i>processname</i>	(Optional) name of the process

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> [ __readonly__ { TABLE_processes_vdc <pid> <state> <pc> <start_cnt> <tty>
<p_type> <process> } ]
```

Syntax Description

<i>show</i>	Show running system information
<i>processes</i>	Show processes
<i>vdc</i>	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_processes_vdc</i>	(Optional) All process information
<i>pid</i>	(Optional) PID of process
<i>state</i>	(Optional) State of process
<i>pc</i>	(Optional) PC in which process exists
<i>start_cnt</i>	(Optional) TBD
<i>tty</i>	(Optional) TBD
<i>p_type</i>	(Optional) Type of Process
<i>process</i>	(Optional) Process Name

Command Mode

- /exec

show processes vdc cpu

```
show processes vdc <e-vdc2> cpu [ __readonly__ [ TABLE_process_vdc_cpu <pid> <runtime> <invoked>
<usecs> <onsec> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] ]
```

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
<i>__readonly__</i>	(Optional) Readonly table for cpu log
TABLE_process_vdc_cpu	(Optional) All cpu process logs of vdc
<i>pid</i>	(Optional) PID of process
<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 process
<i>user_percent</i>	(Optional) user
<i>kernel_percent</i>	(Optional) kernel
<i>idle_percent</i>	(Optional) idle

Command Mode

- /exec

show processes vdc log

```
show processes vdc <e-vdc2> log [ __readonly__ { [ TABLE_processes_vdc_log <vdc> <process> <pid>
<normal_exit> <stack> <core> <create_time> ] } ]
```

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
<i>__readonly__</i>	(Optional) Read only table
<i>TABLE_processes_vdc_log</i>	(Optional) Table for log of all VDC Processes
<i>pid</i>	(Optional) PID of process
<i>vdc</i>	(Optional) VDC Number
<i>process</i>	(Optional) Process name
<i>normal_exit</i>	(Optional) Normal Exit status
<i>stack</i>	(Optional) Stack
<i>core</i>	(Optional) Core
<i>create_time</i>	(Optional) Time stamp of log

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__ <gntp-flag> [ TABLE_ptp <ptp-ifindex> <state> [ <dot1as-capable> ] ]
<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>gntp-flag</code>	(Optional) GPTP mode
<code>TABLE_ptp</code>	(Optional) ptp table
<code>ptp-ifindex</code>	(Optional) ptp ifindex
<code>state</code>	(Optional) BMC state
<code>dot1as-capable</code>	(Optional) Dot1AS capable
<code>ptp-end</code>	(Optional) End of table

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>
<device-type> <encap> <slave-clock-oper> <master-clock-oper> <src-ip> <slave-only> [
<correction-threshold> ] [ <mean-path-delay-threshold> ] [ <gmTimeBaseIndicator> ] [
<last_gm_phase_change> ] [ <master_cum_scaled_rate_offset> ] [ <scaled_last_gm_freq_change> ] [
<cum_scaled_rate_offset> ] <local-clock-time> <bs-status> ]
```

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
<i>device-type</i>	(Optional) Device Type
<i>encap</i>	(Optional) Encapsulation
<i>src-ip</i>	(Optional) IPv4 address (A.B.C.D) of source (in layer-3 encapsulation)
<i>slave-clock-oper</i>	(Optional) Slave clock operation
<i>master-clock-oper</i>	(Optional) Master clock operation
<i>slave-only</i>	(Optional) Slave-only mode
<i>correction-threshold</i>	(Optional) correction-threshold
<i>mean-path-delay-threshold</i>	(Optional) mean-path-delay threshold

<i>gmTimeBaseIndicator</i>	(Optional) time base indicator for current GM
<i>last_gm_phase_change</i>	(Optional) time difference of current and previous GM
<i>master_cum_scaled_rate_offset</i>	(Optional) cumulative scaled rate offset received from master
<i>scaled_last_gm_freq_change</i>	(Optional) scaled last GM frequency change
<i>cum_scaled_rate_offset</i>	(Optional) cumulative scaled rate offset
<i>local-clock-time</i>	(Optional) Local clock time
<i>bs-status</i>	(Optional) Broadsync status enable/disable

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

ptp	Precision Time Protocol (IEEE 1588) Subsystem
clock	Set local clock attributes
foreign-masters	foreign-masters
record	record
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_ptp</i>	(Optional) ptp table
<i>interface-name</i>	(Optional) interface name
<i>clock-id</i>	(Optional) Clock Id
<i>priority1</i>	(Optional) Priority 1
<i>priority2</i>	(Optional) Priority 2
<i>class</i>	(Optional) Class
<i>accuracy</i>	(Optional) Clock accuracy
<i>scaled-log-variance</i>	(Optional) scaled log variance
<i>steps-removed</i>	(Optional) Steps removed
<i>is-gm</i>	(Optional) Is Grandmaster
<i>ptp-end</i>	(Optional) End of table

Command Mode

- /exec

show ptp corrections

```
show ptp corrections [ entries <val> ] [ __readonly__ <ptp-header> [ TABLE_ptp <intf-name> <sup-time>
<correction-val> <mean-path-delay> ] <ptp-end> ]
```

Syntax Description

<i>ptp</i>	Precision Time Protocol (IEEE 1588) Subsystem
<i>__readonly__</i>	(Optional) Read Only
<i>corrections</i>	Display last few corrections
<i>entries</i>	(Optional) Latest entries to display
<i>val</i>	(Optional) Number of latest entries to display
<i>ptp-header</i>	(Optional) Start of table
<i>TABLE_ptp</i>	(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 cost

```
show ptp cost [ interface <if0> ] [ __readonly__ [ TABLE_ptp <ptp-ifindex> <cost> ] <ptp-end> ]
```

Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>cost</code>	port costs
<code>if0</code>	(Optional)
<code>__readonly__</code>	(Optional) Read Only
<code>TABLE_ptp</code>	(Optional) ptp table
<code>ptp-ifindex</code>	(Optional) ptp ifindex
<code>cost</code>	(Optional) cost
<code>ptp-end</code>	(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 delay summary

```
show ptp delay summary [ __readonly__ [ TABLE_ptp <intf-name-port> <device-type> <state> <link-delay>
] [ <ptp-end> ] [ <gntp-not-supported> ] ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
delay	delay
summary	summary
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_ptp</i>	(Optional) ptp table
<i>intf-name-port</i>	(Optional) interface name and port
<i>device-type</i>	(Optional) Device Type
<i>state</i>	(Optional) BMC state
<i>link-delay</i>	(Optional) link delay
<i>ptp-end</i>	(Optional) End of table
<i>gntp-not-supported</i>	(Optional) GPTP not supported

Command Mode

- /exec

show ptp domain data

```
show ptp domain data [ __readonly__ [ TABLE_ptp <multidom_cap> <gm_cap> <gm_convergence_time>
<def_dom> <transition_priority1> <transition_priority2> [ TABLE_ptp_domain <domain_number>
<domain_priority> <ptp_clock_class_threshold> <ptp_clock_accuracy_threshold> <ptp-ifindex> ] ] <ptp-end>
]
```

Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>domain</code>	ptp domain number
<code>data</code>	ptp domain data
<code>__readonly__</code>	(Optional) Read Only
<code>TABLE_ptp</code>	(Optional) ptp table
<code>multidom_cap</code>	(Optional) Multidomain state ENABLED/DISABLED
<code>gm_cap</code>	(Optional) GM state ENABLE/DISABLED
<code>gm_convergence_time</code>	(Optional) ptp grandmaster convergence time
<code>def_dom</code>	(Optional) ptp default domain
<code>transition_priority1</code>	(Optional) ptp multi-domain transition priority1
<code>transition_priority2</code>	(Optional) ptp multi-domain transition priority2
<code>TABLE_ptp_domain</code>	(Optional)
<code>domain_number</code>	(Optional) ptp domain number
<code>domain_priority</code>	(Optional) ptp domain priority
<code>ptp_clock_class_threshold</code>	(Optional) ptp domain class
<code>ptp_clock_accuracy_threshold</code>	(Optional) ptp domain accuracy
<code>ptp-ifindex</code>	(Optional) ptp ifindex
<code>ptp-end</code>	(Optional) End of table

Command Mode

- /exec

show ptp interface domain

show ptp interface domain [__readonly__ [TABLE_ptp <ptp-ifindex> <interface-domain>] <ptp-end>]

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
interface	port
domain	ptp port domain
__readonly__	(Optional) Read Only
TABLE_ptp	(Optional) ptp table
<i>ptp-ifindex</i>	(Optional) ptp ifindex
<i>interface-domain</i>	(Optional) ptp port domain
<i>ptp-end</i>	(Optional) End of table

Command Mode

- /exec

show ptp packet-trace

```
show ptp packet-trace [ __readonly__ <ptp-header> [ TABLE_ptp <intf-name> <sup-time> <pkt_dir>
<pkt_type> <pkt_info> ] <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>ptp-header</code>	(Optional) Start of table
<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-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>
[ TABLE-path-trace <path-trace-index> <path-trace-clock-id> ] ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
parent	parent clock
<i>__readonly__</i>	(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
TABLE-path-trace	(Optional) ptp path trace table
<i>path-trace-index</i>	(Optional) Clock Identity index
<i>path-trace-clock-id</i>	(Optional) Clock Identity in path trace

Command Mode

- /exec

show ptp port interface

```
show ptp port interface <if0> [ __readonly__ [ TABLE_ptp <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> ] [ <device-type> ] [ <encap> ] [
<prop-delay-thresh> ] [ <neighbor-rate-ratio> ] <cost> <int-domain-id> ] <ptp-end> ]
```

Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>port</code>	port
<code>interface</code>	Enter the port interface
<i>if0</i>	
<code>__readonly__</code>	(Optional) Read only
<code>TABLE_ptp</code>	(Optional) ptp table
<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
<i>device-type</i>	(Optional) Device Type
<i>encap</i>	(Optional) Encapsulation

<i>prop-delay-thresh</i>	(Optional) propagation delay threshold
<i>neighbor-rate-ratio</i>	(Optional) Neighbor rate-ratio
<i>cost</i>	(Optional) Cost
<i>int-domain-id</i>	(Optional) domain id
<i>ptp-end</i>	(Optional) End of Table

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

<i>ptp</i>	Precision Time Protocol (IEEE 1588) Subsystem
<i>time-property</i>	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 ptp time-property



Q Show Commands

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- [show queuing tabular](#), on page 2279
- [show queuing tah-pfc-queue](#), on page 2281

show qos dcbxp incompatibility interface

```
show qos dcbxp incompatibility interface <iface-num> [ __readonly__ { [ { TABLE_local_pfc <vl_id_lpfce>
[ <lpfc> ] } ] [ { TABLE_remote_pfc <vl_id_rpfce> [ <rpfc> ] } ] [ <mtu> ] [ { TABLE_lpg <vl_id_lpg> [
<cos_list_lpg> ] [ <bandwidth_lpg> ] } ] [ { TABLE_rpg <vl_id_rpg> [ <cos_list_rpg> ] [ <bandwidth_rpg>
] } ] [ <bw> ] [ <lfcoe> ] [ <rfcoe> ] [ <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)
TABLE_local_pfc	(Optional) local pfc table
<i>vl_id_lpfce</i>	(Optional) vl ID for local PFC
<i>lpfc</i>	(Optional) local pfc
TABLE_remote_pfc	(Optional) remote pfc table
<i>vl_id_rpfce</i>	(Optional) vl ID for remote PFC
<i>rpfc</i>	(Optional) remote pfc
<i>mtu</i>	(Optional) MTU Value
TABLE_lpg	(Optional) LPG Table
<i>vl_id_lpg</i>	(Optional) vl ID for LPG
<i>cos_list_lpg</i>	(Optional) cos list for LPG
<i>bandwidth_lpg</i>	(Optional) bandwidth for LPG
TABLE_rpg	(Optional) RPG Table
<i>vl_id_rpg</i>	(Optional) vl ID for RPG
<i>cos_list_rpg</i>	(Optional) cos list for RPG
<i>bandwidth_rpg</i>	(Optional) bandwidth for RPG
<i>bw</i>	(Optional) CIN: bandwidth/priority
<i>lfcoe</i>	(Optional) local fcoe

<i>rfcoe</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__ { TABLE_dcbxp <intf> <pfer> <pfcc> <pgr> <pgc> <mtur> <mtuc>
<fcoer> <fcoec> <iscsir> <iscsic> } ]
```

Syntax Description

show	Show running system information
dcbxp	DCBXP
info	information
__readonly__	(Optional)
TABLE_dcbxp	(Optional) dxcbsp info
<i>intf</i>	(Optional) Interface
<i>pfer</i>	(Optional) pfc recvd
<i>pfcc</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 dcbxp interface

```
show qos dcbxp interface [ <iface> ] [ __readonly__ [ <intf> { <info_absent> | { [ <local_pfc_cap>
<local_pfc_enable_list> ] [ <peers_pfc_cap> <peers_pfc_enable_list> ] [ <local_ets_maxtc>
<local_ets_priority_list> <local_ets_bandwidth_list> <local_ets_tsa_list> ] [ <peers_ets_maxtc>
<peers_ets_priority_list> <peers_ets_bandwidth_list> <peers_ets_tsa_list> ] [ <local_app_pri>
<local_app_type> <local_app_num> ] + [ <peers_app_pri> <peers_app_type> <peers_app_num> ] + [
<local_map_pri> <local_map_dscp> ] + [ <peers_map_pri> <peers_map_dscp> ] + } } ] + ]
```

Syntax Description

show	Show running system information
qos	QoS
dcbxp	DCBXP
interface	Per-interface information
<i>iface</i>	(Optional) Interface
<i>__readonly__</i>	(Optional)
<i>intf</i>	(Optional) Interface
<i>info_absent</i>	(Optional) No information is present for this Interface.
<i>local_pfc_cap</i>	(Optional) Number of Local Flows
<i>local_pfc_enable_list</i>	(Optional) List of Local Flows Enabled
<i>peers_pfc_cap</i>	(Optional) Number of Peer Flows
<i>peers_pfc_enable_list</i>	(Optional) List of Peer Flows Enabled
<i>local_ets_maxtc</i>	(Optional) Local ETS Maximum Traffic Classes
<i>local_ets_priority_list</i>	(Optional) Local ETS Priority List
<i>local_ets_bandwidth_list</i>	(Optional) Local ETS Bandwidth List
<i>local_ets_tsa_list</i>	(Optional) Local ETS TSA List
<i>peers_ets_maxtc</i>	(Optional) Peer ETS Maximum Traffic Classes
<i>peers_ets_priority_list</i>	(Optional) Peer ETS Priority List
<i>peers_ets_bandwidth_list</i>	(Optional) Peer ETS Bandwidth List
<i>peers_ets_tsa_list</i>	(Optional) Peer ETS TSA List
<i>local_app_pri</i>	(Optional) Local Application Priority
<i>local_app_type</i>	(Optional) Local Application Number Type

<i>local_app_num</i>	(Optional) Local Application Number
<i>peers_app_pri</i>	(Optional) Peer Application Priority
<i>peers_app_type</i>	(Optional) Peer Application Number Type
<i>peers_app_num</i>	(Optional) Peer Application Number
<i>local_map_pri</i>	(Optional) Local Map Priority
<i>local_map_dscp</i>	(Optional) Local Map DSCP Value
<i>peers_map_pri</i>	(Optional) Peer Map Priority
<i>peers_map_dscp</i>	(Optional) Peer Map DSCP Value

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 queuing

```
show queuing [ interface [ <if_list> ] ] [ summary ] [ module <module> ] [ __readonly__ [
TABLE_interface_mtu <intf_name> <mtu_val> ] [ TABLE_queuing_interface <dir> <if_name_str> [
TABLE_qosgrp_cfg <qosgrp> [ <bandwidth> ] [ <priority> ] [ <shape-min> ] [ <shape-max> ] [ <shape-units>
] [ <buffer-size> ] [ <pause-threshold> ] [ <resume-threshold> ] [ <q-limit> ] [ <q-limit-type> ] ] [
<mc-drop-pkt> ] [ 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_egress_stats_entry <ep-stat-type> <ep-stat-units> <ep-stat-value> ] [ TABLE_ingress_stats_entry
<ip-stat-type> <ip-stat-units> <ip-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	(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)
TABLE_interface_mtu	(Optional) mtu values of each interface
<i>intf_name</i>	(Optional) interface name
<i>mtu_val</i>	(Optional) mtu val of interface
TABLE_queuing_interface	(Optional) Queuing information of an interface
<i>dir</i>	(Optional) Direction
<i>if_name_str</i>	(Optional) interface name
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_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_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_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

<i>vl-bmp</i>	(Optional) VL Bitmap
<i>qosgrp_7_state</i>	(Optional) Qos group 7 state
<i>qosgrp_6_state</i>	(Optional) Qos group 6 state
<i>qosgrp_5_state</i>	(Optional) Qos group 5 state
<i>qosgrp_4_state</i>	(Optional) Qos group 4 state
<i>qosgrp_3_state</i>	(Optional) Qos group 3 state
<i>qosgrp_2_state</i>	(Optional) Qos group 2 state
<i>qosgrp_1_state</i>	(Optional) Qos group 1 state
<i>qosgrp_0_state</i>	(Optional) Qos group 0 state
TABLE_qosgrp_stats	(Optional) Qos-group egress statistics
<i>eq-qosgrp</i>	(Optional) Qos-group value
<i>eq-qosgrp-state</i>	(Optional) Qos-group state
<i>pfc-configured</i>	(Optional) PFC configuration
<i>pfc-cos</i>	(Optional) PFC Cos value
TABLE_qosgrp_stats_entry	(Optional) Qos-group egress statistics entry
<i>q-stat-type</i>	(Optional) Queue stat

Command Mode

- /exec

show queuing pfc-queue interface snmp watchdogIfQueueTable ifIndex

```
show queuing pfc-queue interface snmp watchdogIfQueueTable ifIndex <ifindex> [ __readonly__ [
TABLE_watchdogIfQueueTable <ifindex> [ TABLE_qosgrp_stats <eq-qosgrp> <state> <shutdowns>
<restores> <dropPkts> <totaldropPkts> <ingDropPkts> <totalIngDropPkts> ] ] ]
```

Syntax Description

show	commands to display
queuing	Queuing related information
pfc-queue	PFC Queuing related information
interface	Interface for displaying queuing config
snmp	commands for snmp
watchdogIfQueueTable	Table
ifIndex	port ifIndex
<i>ifindex</i>	interfaces ifIndex
<i>__readonly__</i>	(Optional)
TABLE_watchdogIfQueueTable	(Optional) PFC Queuing information of an interface
<i>ifindex</i>	(Optional) interface ifindex
TABLE_qosgrp_stats	(Optional) Qos-group egress statistics
<i>eq-qosgrp</i>	(Optional) Qos-group value
<i>state</i>	(Optional) Queue state
<i>shutdowns</i>	(Optional) Number of times queue is shutdown
<i>restores</i>	(Optional) Number of times queue is restored
<i>dropPkts</i>	(Optional) Total Number of packets drained + dropped since last shutdown
<i>totaldropPkts</i>	(Optional) Number of aggregate packets dropped during shutdowns
<i>ingDropPkts</i>	(Optional) Total Number of packets dropped in the ingress direction since last shutdown
<i>totalIngDropPkts</i>	(Optional) Number of aggregate packets dropped in the ingress direction during shutdowns

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
<i>TABLE-cpfcWatchdogIfQueueInfoTable</i>	(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_uc_ecn_pkt_qos_0>
<tx_uc_ecn_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
<i>__readonly__</i>	(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 tah-pfc-queue

```
show queuing tah-pfc-queue [ interface <if_list> ] [ module <module> ] [ detail ] [ __readonly__ [
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-total-pkt-dropped>
<q-aggr-pkt-dropped> <q-ingr-pkt-dropped> <q-aggr-ingr-pkt-dropped> ] ] [ TABLE_qosgrp_stats_summary
<qosgrp-summary> ] ] ]
```

Syntax Description

show	commands to display
queuing	Queuing related information
tah-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>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 tah-pfc-queue



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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 radius
<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 radius client
<i>timeout</i>	(Optional) Timeout for this radius 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 { <host> } [ __readonly__ { <host1> } [ <authen_port> ] [ <account_port> ] [ <share_key> ] [ <timeout> ] [ <retries> ] [ <secure_radius> ] [ <aid> ] <idle_tim> <test_user_name> <test_pwd> ]
```

Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
<i>host</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>host1</i>	(Optional) DNS name or IP address
<i>authen_port</i>	(Optional) RADIUS server's port for authentication
<i>account_port</i>	(Optional) RADIUS server's port for accounting
<i>timeout</i>	(Optional) radius server timeout
<i>retries</i>	(Optional) radius server retry count
<i>secure_radius</i>	(Optional) secure radius enabled or not
<i>aid</i>	(Optional) Authority identity
<i>share_key</i>	(Optional) RADIUS shared secret
<i>test_user_name</i>	(Optional) User name in test packets
<i>test_pwd</i>	(Optional) User password in test packets
<i>idle_tim</i>	(Optional) Time interval for monitoring the server

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 radius
<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 radius client
<i>timeout</i>	(Optional) Timeout for this radius 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
monitoring_statistics	(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
auth_statistics	(Optional) Authentication Statistics
acct_statistics	(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 reload

show reload [__readonly__ <reload-schedule>]

Syntax Description

show	Show running system information
reload	Display information about scheduled reload
__readonly__	(Optional)
<i>reload-schedule</i>	(Optional) Reload scheduling info

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-alarum-str> <ev-desc-str> <ev-fir-cause> <last-fired> } ] [ TABLE_rmon_hcala { <hc-alarum-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
<i>__readonly__</i>	(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-alarum-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-alarum-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_vlan_id> ] [ <permit_interface> ] [ <permit_interface_slot>
] [ <permit_vrf> ] [ TABLE_vrf<permit_vrf_name> ] [ { 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_vlan_id</i>	(Optional)
<i>permit_interface</i>	(Optional)
<i>permit_interface_slot</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>
<action> <seq> [ <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>action</i>	(Optional)
<i>seq</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__ TABLE_rmap
{ TABLE_pbr <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)
TABLE_rmap	(Optional)
TABLE_pbr	(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> ] [ __readonly__ [ TABLE_vlanid { <vlanid>
<globally-enabled-switch-port> } [ TABLE_if [ <disabled-if> ] ] ] ]
```

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
<i>__readonly__</i>	(Optional)
TABLE_vlanid	(Optional)
<i>vlanid</i>	(Optional)
<i>globally-enabled-switch-port</i>	(Optional)
TABLE_if	(Optional)
<i>disabled-if</i>	(Optional)

Command Mode

- /exec

show routing-context

show routing-context [__readonly__ <routing-con>]

Syntax Description

show	Show running system information
routing-context	Display the current routing context
__readonly__	(Optional)
<i>routing-con</i>	(Optional)

Command Mode

- /exec

show routing

```
show routing [ ip | ipv4 ] [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ip-addr> | {
<ip-prefix> [ { longer-prefixes | shorter-prefixes } ] ] [ { <protocol> [ all ] } | { bind-label <bind-lbl> |
next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [ since <stime>
] [ until <utime> ] } } ] + [ summary | detail ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [
__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <ucast-nhops>
<mcast-nhops> <attached> TABLE_path [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl>
] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ] [ <hidden> ] [
<stale-label> ] [ <bgpbackuppath> ] [ <ubest> ] [ <mbest> ] ] [ TABLE_summary <routes> <paths> [
<multicast_paths> ] [ TABLE_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE_route_count [
<mask_len> ] [ <count> ] ] ] ] ]
```

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
l3vm-info	(Optional) Display corresponding L3VM information
rpf	(Optional) Display RPF information for multicast source
<i>ip-addr</i>	(Optional) Display single route longest match lookup
<i>ip-prefix</i>	(Optional) Display single exact match route
longer-prefixes	(Optional) Display matching routes with mask-lengths \geq prefix
shorter-prefixes	(Optional) Display matching routes with mask-lengths \leq prefix
<i>protocol</i>	(Optional) Display routes for protocol (or route type)
all	(Optional) Display routes for protocol for backup next-hops too

bind-label	(Optional) Display routes with this bind-label only
<i>bind-lbl</i>	(Optional) Binding label
next-hop	(Optional) Display routes with this next-hop only
<i>next-hop</i>	(Optional) Next hop address
next-hop-v6	(Optional) Display routes with this V6 next-hop only
interface	(Optional) Display routes with this output interface only
<i>interface</i>	(Optional) Interface Name
updated	(Optional) Display routes filtered by last updated time
since	(Optional) Display those routes updated since this time
<i>stime</i>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
until	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
summary	(Optional) Display route counts
detail	(Optional) Display routes in full detail
<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>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ipnexthop</i>	(Optional)
<i>nexthop-vrf-name</i>	(Optional)
<i>ifname</i>	(Optional)
<i>bindlbl</i>	(Optional)

<i>uptime</i>	(Optional)
<i>pref</i>	(Optional)
<i>metric</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)
<i>bgpbackuppath</i>	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
TABLE_summary	(Optional)
<i>routes</i>	(Optional)
<i>paths</i>	(Optional)
<i>multicast_paths</i>	(Optional)
TABLE_unicast	(Optional)
<i>clientnameuni</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientnamemulti</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_route_count	(Optional)
<i>mask_len</i>	(Optional)
<i>count</i>	(Optional)

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>rnh</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

ufdm-detail	UFDM Detail
ufdm-summary	UFDM Summary
filter	(Optional) Filter event log
vrf	(Optional) Filter VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Filter for all VRFs
client	(Optional) Filter by client
<i>client</i>	(Optional) Filter by single urib client
<i>protocol</i>	(Optional) Filter by single urib client
prefix-list	(Optional) Filter by IPv4 prefix-list
<i>pxlist-name</i>	(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> ] { [ gtpu-teid <gtpu-teid> ] } { [ <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

<code>gtpu-teid</code>	(Optional) GTPu TEID for the packet
<code>gtpu-teid</code>	(Optional) GTPu TEID for the packet
<code>module</code>	(Optional) Module
<code>module-id</code>	(Optional) Module
<code>__readonly__</code>	(Optional)
<code>TABLE_vrf</code>	(Optional)
<code>vrf-name-out</code>	(Optional)
<code>TABLE_addrf</code>	(Optional)
<code>addrf</code>	(Optional)
<code>TABLE_hashpath</code>	(Optional)
<code>mcast</code>	(Optional)
<code>hashpath</code>	(Optional)
<code>hash-val</code>	(Optional)
<code>TABLE_prefix</code>	(Optional)
<code>ipprefix</code>	(Optional)
<code>ucast-nhops</code>	(Optional)
<code>mcast-nhops</code>	(Optional)
<code>attached</code>	(Optional)
<code>TABLE_path</code>	(Optional)
<code>ubest</code>	(Optional)
<code>mbest</code>	(Optional)
<code>ipnexthop</code>	(Optional)
<code>ifname</code>	(Optional)
<code>pref</code>	(Optional)
<code>metric</code>	(Optional)
<code>uptime</code>	(Optional)
<code>clientname</code>	(Optional)
<code>type</code>	(Optional)
<code>tag</code>	(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> <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
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>rn timer</i>	(Optional)
<i>rn timer_mask_len</i>	(Optional)

Command Mode

- /exec

show routing ipv6

```
show routing ipv6 [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ipv6-addr> | { <ipv6-prefix>
[ { longer-prefixes | shorter-prefixes } ] } ] [ { <ipv6-protocol> [ all ] } | { bind-label <bind-lbl> | next-hop
<next-hop> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary |
{ [ detail ] [ deleted ] } ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [ <attached>
] TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ]
<uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <stalelbl> ] [ <hidden> ] ] [
TABLE_summary <routes> <paths> [ <multicast_paths> ] [ TABLE_unicast [ <clientnameuni> ] [ <best-paths>
] [ <backup-paths> ] ] [ TABLE_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_route_count [ <mask_len> ] [ <count> ] ] ] ]
```

Syntax Description

show	Show running system information
routing	Display routing 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
vrf-all	(Optional) Display information for all VRFs
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
l3vm-info	(Optional) Display corresponding L3VM information
rpf	(Optional) Display RPF information for multicast source
longer-prefixes	(Optional) Display matching routes with mask-lengths >= prefix
shorter-prefixes	(Optional) Display matching routes with mask-lengths <= prefix
<i>ipv6-protocol</i>	(Optional) Display routes for protocol (or route type)
all	(Optional) Display routes for protocol for backup next-hops too
bind-label	(Optional) Display routes with this bind-label only
<i>bind-lbl</i>	(Optional) Binding label
next-hop	(Optional) Display routes with this next-hop only
interface	(Optional) Display routes with this output interface only

<i>interface</i>	(Optional) Interface Name
updated	(Optional) Display routes filtered by last updated time
since	(Optional) Display those routes updated since this time
<i>stime</i>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
until	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
summary	(Optional) Display route counts
deleted	(Optional) Display delete-pending routes also
detail	(Optional) Display routes in full detail
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(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>nexthop-vrf-name</i>	(Optional)
<i>ifname</i>	(Optional)
<i>bindlbl</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>stalelbl</i>	(Optional)
<i>hidden</i>	(Optional)
TABLE_summary	(Optional)
<i>routes</i>	(Optional)
<i>paths</i>	(Optional)
<i>multicast_paths</i>	(Optional)
TABLE_unicast	(Optional)
<i>clientnameuni</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientnamemulti</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_route_count	(Optional)
<i>mask_len</i>	(Optional)
<i>count</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 <u6ribtibtype_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>plib_index</i>	(Optional)
<i>plib_state</i>	(Optional)
<i>plib_id</i>	(Optional)
<i>multicast_or_unicast_plib</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>plib_stale_time</i>	(Optional)
TABLE_nib_node	(Optional)
<i>u6ribtibtype_contextname</i>	(Optional)
<i>routes</i>	(Optional)
<i>rnhs</i>	(Optional)
TABLE_notifecce_mask	(Optional)
<i>u6plib_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_plib_u6plib_index</i>	(Optional)
TABLE_notifecce_nib	(Optional)
<i>notifecce_plib_u6plib_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 | dme | 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
dme	Dme
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> <uicast-nhops> <mcast-nhops> <attached> TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <ifname> ] <uptime> <pref> <metric> <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> <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
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>rnh</i>	(Optional)
<i>rnh_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)
<i>TABLE_shrd_mem</i>	(Optional)
<i>TABLE_u6rib_slabs</i>	(Optional)
<i>TABLE_u6rib_blks</i>	(Optional)
<i>TABLE_u6rib_routes_rnhs</i>	(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_mrout_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)
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_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
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_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 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>
<nh-unique> ] [ next-hops-v6 <nh6-count> <nh6-unique> ] [ next-hops-srte <srte-count> <srte-unique> ] ] [
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
<i>nh-unique</i>	(Optional) Number of unique next-hops (between 1 and route-count*nh-count)
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
<i>nh6-unique</i>	(Optional) Number of unique V6 next-hops (between 1 and route-count*nh6-count)
next-hops-srte	(Optional) Display urib memory estimate for # srte next-hops per route
<i>srte-count</i>	(Optional) Number of srte next-hops per route
<i>srte-unique</i>	(Optional) Number of unique srte next-hops (between 1 and route-count*srte-count)
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 [ debug ] [ __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
debug	(Optional) Display debugging data
__readonly__	(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> [ <expyr_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> [ <source_addr> <group_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> ] [
<translated-route-src> ] [ <translated-route-grp> ] [ <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> ] [ <core-interest>
] [ <fabric-interest> ] ] <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>expiry_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-addr</i>	(Optional)

<i>source_addrs</i>	(Optional)
<i>group_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>translated-route-src</i>	(Optional)
<i>translated-route-grp</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>core-interest</i>	(Optional)
<i>fabric-interest</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> <internal_notify>
<non-internal_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
<i>__readonly__</i>	(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>internal-notify</i>	(Optional)
<i>otv-decap-notify</i>	(Optional)
<i>no-vxlan-decap-notify</i>	(Optional)
<i>mdt-decap-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>vlan_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_mrib_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_mrib_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
__readonly__	(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 } ] [ __readonly__ [
TABLE_vrf <vrf-name> <mode> <mac-rewrite> [ TABLE_route <interface> <in-group-range>
<to-group-range> <group-mask> <in-source-range> <to-source-range> <source-mask> ] ] ]
```

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
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>mode</i>	(Optional)
<i>mac-rewrite</i>	(Optional)
TABLE_route	(Optional)
<i>interface</i>	(Optional)
<i>in-group-range</i>	(Optional)
<i>to-group-range</i>	(Optional)
<i>group-mask</i>	(Optional)
<i>in-source-range</i>	(Optional)
<i>to-source-range</i>	(Optional)
<i>source-mask</i>	(Optional)

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) Address type
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>
] [ <inner-src-ip6> <inner-dst-ip6> ] [ 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 routing vxlan-hash peer-ipv6

```
show routing vxlan-hash peer-ipv6 <peer-ipv6> <inner-src-mac> <inner-dst-mac> [ <inner-src-ip>
<inner-dst-ip> ] [ <inner-src-ip6> <inner-dst-ip6> ] [ 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-ipv6	Peer IPv6 address
<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 analytics

show running-config { analytics | nfm } [all]

Syntax Description

show	Show running system information
running-config	Show running system information
analytics	Show NetFlow configuration
nfm	Show NFM configuration
all	(Optional) Show config with defaults

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 assoc

show running-config assoc [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
assoc	Original ID to Translated ID Association
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config backup

show running-config { backup | flexlink } [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
backup	Show running config for Switchport Backup
flexlink	Show running config for Switchport Backup
all	(Optional) Show config with defaults

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 catena

show running-config catena

Syntax Description

show	show running-cfg
running-config	show running system information
catena	catena instances

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 config-template

show running-config config-template

Syntax Description

show	Show running system information
running-config	Current operationg configuration
config-template	Display config-template configuration

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 ecp

show running-config ecp [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
ecp	ECP (Edge Control Protocol)
all	(Optional) Display 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 operationng 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 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 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 fabric multicast

show running-config fabric multicast [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
fabric	Fabric
multicast	Multicast information
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 operationng configuration
fabricpath	fabricpath Module Information
topology	Fabricpath topology Information
all	(Optional) Display running config with defaults clis

Command Mode

- /exec

show running-config fcoe_mgr

show running-config fcoe_mgr [all]

Syntax Description

show	show running-cfg
running-config	show running system information
fcoe_mgr	Display fcoe_mgr configuration
all	(Optional) show running config with defaults

Command Mode

- /exec

show running-config hardware-telemetry

show running-config hardware-telemetry [all]

Syntax Description

running-config	Current operating configuration
hardware-telemetry	show running config for hardware-telemetry
all	(Optional) show running config with 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 icam

show running-config icam

Syntax Description

show	show running-cfg
running-config	show running system information
icam	icam services

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 imp

show running-config imp [all]

Syntax Description

show	Show system information
running-config	System running configuration
imp	IMP running configuration
all	(Optional) Show IMP running configuration defaults

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 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	MPLS information
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 mts

show running-config mts

Syntax Description

show	Show system information
running-config	Show running system information
mts	Display mts configuration

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	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 openflow

show running-config openflow [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
openflow	Show running config for OpenFlow agent
all	(Optional) Show 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 plb-services

show running-config plb-services

Syntax Description

show	show running-cfg
running-config	show running system information
plb-services	PLB services

Command Mode

- /exec

show running-config poe

show running-config poe [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
poe	Power over Ethernet
all	(Optional) show running config with defaults

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 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 operationng 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 scheduler

show running-config scheduler [all]

Syntax Description

show	show running-cfg
running-config	show running system information
scheduler	Show scheduler config or data
all	(Optional) show running config with defaults

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 segment-routing

show running-config segment-routing [all]

Syntax Description

show	Show running system information
running-config	Show running configuration
segment-routing	Display segment-routing running 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 sla twamp-server

show running-config sla twamp-server

Syntax Description

show	show running-cfg
running-config	show running system information
sla	Service Level Agreement (SLA)
twamp-server	Show IPSLA IPPM TWAMP server configuration

Command Mode

- /exec

show running-config smart-channel

show running-config smart-channel

Syntax Description

show	show running-cfg
running-config	show running system information
smart-channel	smart channel services

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 srte

show running-config srte

Syntax Description

show	Show running system information
running-config	Current operating configuration
srte	SRTE

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

Syntax Description

show	Show running system information
running-config	Current operating configuration
vlan	Vlan commands

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 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 wwnm

show running-config wwnm

Syntax Description

show	Show running system information
running-config	Current running configuration
wwnm	Display WWN Manager running configuration

Command Mode

- /exec

■ show running-config wwnm



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show san-port-channel compatibility-parameters

```
show san-port-channel compatibility-parameters [ __readonly__ [ { TABLE_compatibility_params <parameter>
<description> } ] ]
```

Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
compatibility-parameters	Show san-port-channel compatibility-parameters
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_compatibility_params</i>	(Optional) Table with compatibility params
<i>parameter</i>	(Optional) Compatibility parameter
<i>description</i>	(Optional) Parameter description

Command Mode

- /exec

show san-port-channel consistency

```
show san-port-channel consistency [ __readonly__ [ <msg> ] [ { [ <error_msg> ] [ <consistency_state> ] [
<module> ] [ { TABLE_inconsistent_database [ <database> ] [ { [ <total_port_channels> ] [ {
TABLE_san_port_channel_database [ <interface> ] [ <total_ports> ] [ <first_operational_port> ] [ {
TABLE_san_port_channel_member <port> <state> } ] [ <db_error_str> } ] } ] } ] } ] }
```

Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
consistency	Show san-port-channel distributed database consistency
<i>__readonly__</i>	(Optional) Read Only
<i>msg</i>	(Optional) Message string
<i>error_msg</i>	(Optional) Prints consistency errors, if any
<i>consistency_state</i>	(Optional) Consistency state
<i>module</i>	(Optional) Module no
TABLE_inconsistent_database	(Optional) Table with details of inconsistent dbs
<i>database</i>	(Optional) Inconsistent database
TABLE_san_port_channel_database	(Optional) san-po Table
<i>total_port_channels</i>	(Optional) Total port channels
<i>interface</i>	(Optional) san-port-channel interface
<i>first_operational_port</i>	(Optional) First oper port in san-po
<i>total_ports</i>	(Optional) Total number of ports in the san-po
TABLE_san_port_channel_member	(Optional) san-po member Table
<i>port</i>	(Optional) san-po member port
<i>state</i>	(Optional) san-po member port state
<i>db_error_str</i>	(Optional) prints cmd errors, if any

Command Mode

- /exec

show san-port-channel consistency detail

```
show san-port-channel consistency detail [ __readonly__ [ <sup_total_port_channels> ] [ { [ <sup_db_error_str> ] [ { TABLE_sup_san_port_channel_database <sup_interface> [ <sup_total_ports> ] [ <sup_first_operational_port> ] [ { TABLE_sup_san_port_channel_member <sup_port> <sup_state> } ] } ] } ] [ <msg> ] [ { [ <error_msg> ] [ <db_index> ] [ <module> ] [ { [ <total_port_channels> ] [ { TABLE_san_port_channel_database [ <interface> ] [ <total_ports> ] [ <first_operational_port> ] [ { TABLE_san_port_channel_member <port> <state> } ] [ <db_error_str> ] } ] } ] } ] [ <consistency_state> ] ]
```

Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
consistency	Show san-port-channel distributed database consistency
detail	Show san-port-channel distributed databases of all modules
__readonly__	(Optional) Read Only
sup_total_port_channels	(Optional) Authoritative po db - Total POs
TABLE_sup_san_port_channel_database	(Optional) Table with details of auth po db
sup_interface	(Optional) san-port-channel interface
sup_first_operational_port	(Optional) First oper port in san-po
sup_total_ports	(Optional) Total number of ports in the san-po
TABLE_sup_san_port_channel_member	(Optional) san-po member Table
sup_port	(Optional) san-po member port
sup_state	(Optional) san-po member port state
sup_db_error_str	(Optional) prints cmd errors, if any
msg	(Optional) Msg string
error_msg	(Optional) Prints errors, if any
db_index	(Optional) Database index
module	(Optional) Module no
total_port_channels	(Optional) Authoritative po db - Total POs
TABLE_san_port_channel_database	(Optional) Table with details of auth po db
interface	(Optional) san-port-channel interface
first_operational_port	(Optional) First oper port in san-po

<i>total_ports</i>	(Optional) Total number of ports in the san-po
TABLE_san_port_channel_member	(Optional) san-po member Table
<i>port</i>	(Optional) san-po member port
<i>state</i>	(Optional) san-po member port state
<i>db_error_str</i>	(Optional) prints cmd errors, if any
<i>consistency_state</i>	(Optional) Consistency state

Command Mode

- /exec

show san-port-channel database

```
show san-port-channel database [ interface <ifid> | all ] [ __readonly__ [ <error_str> ] [ {
TABLE_san_port_channel_database <interface> <admin_chan_mode> <oper_chan_mode>
<last_membership_update> [ <last_membership_update_fail_reason> ] [ <pcm_interface_flag> ] [
<vlan_interfaces> ] [ <first_operational_port> ] [ <total_ports> ] [ <total_oper_ports> ] [ {
TABLE_san_port_channel_member <port> <state> } } ] [ <cmd_error_str> ] ]
```

Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
database	Show san-port-channel database
interface	(Optional) Specify a port-channel
<i>ifid</i>	(Optional)
all	(Optional) Display all port-channel
<i>__readonly__</i>	(Optional) Read Only
<i>error_str</i>	(Optional) Prints errors,if any
TABLE_san_port_channel_database	(Optional) san-port-channel database Table
<i>interface</i>	(Optional) san-po Interface
<i>admin_chan_mode</i>	(Optional) san-po administrative channel mode
<i>oper_chan_mode</i>	(Optional) san-po operational channel mode
<i>last_membership_update</i>	(Optional) Last membership update status
<i>last_membership_update_fail_reason</i>	(Optional) Membership update status casue
<i>pcm_interface_flag</i>	(Optional) san-po interface flag
<i>vlan_interfaces</i>	(Optional) san-po vlan interfaces
<i>first_operational_port</i>	(Optional) First oper port in san-po
<i>total_ports</i>	(Optional) Total number of ports in the san-po
<i>total_oper_ports</i>	(Optional) Total oper ports in the san-po
TABLE_san_port_channel_member	(Optional) san-po member Table
<i>port</i>	(Optional) san-po member port
<i>state</i>	(Optional) san-po member port state
<i>cmd_error_str</i>	(Optional) prints cmd errors,if any

Command Mode

- /exec

show san-port-channel summary

```
show san-port-channel summary [ __readonly__ [ { TABLE_san_port_channel_summary <interface>
<total_ports> <total_oper_ports> <first_operational_port> } ] [ <cmd_error_str> ] ]
```

Syntax Description

<code>show</code>	Show running system information
<code>san-port-channel</code>	Show san-port-channel information
<code>summary</code>	Show san-port-channel summary
<code>__readonly__</code>	(Optional) Read Only
<code>TABLE_san_port_channel_summary</code>	(Optional) san-port-channel Summary Table
<code>interface</code>	(Optional) san-po Interface
<code>total_ports</code>	(Optional) Total number of ports in the san-po
<code>total_oper_ports</code>	(Optional) Total oper ports in the san-po
<code>first_operational_port</code>	(Optional) First oper port in san-po
<code>cmd_error_str</code>	(Optional) Prints cmd error,if any

Command Mode

- /exec

show san-port-channel usage

```
show san-port-channel usage [ __readonly__ [ <total_channel_numbers_used> { <used_range> } + {
<unused_range> } + ] [ <error_str> ] ]
```

Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
usage	Show san-port-channel usages
<i>__readonly__</i>	(Optional) Read Only
<i>total_channel_numbers_used</i>	(Optional) Total used number of port-channels
<i>used_range</i>	(Optional) Used range
<i>unused_range</i>	(Optional) Un-used range
<i>error_str</i>	(Optional) Prints error if any

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
<i>__readonly__</i>	(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
<i>__readonly__</i>	(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
<i>__readonly__</i>	(Optional)
<i>TABLE_joblog</i>	(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> ] [ <scheduletype> ] [ <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
scheduletype	(Optional) scheduletype
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 segment-routing

```
show segment-routing [ detail ] [ __readonly__ <srvname> <state> <process_id> [ <srgb_min_label>
<srgb_max_label> <srgb_alloc_status> [ <oper_srgb_min_label> <oper_srgb_max_label> ] <cleanup_intvl>
<retry_intvl> [ <num_retries> ] [ <srgb_alloc_hdl> ] [ <cleanup_timer_state> <retry_timer_state> ] ] [
<ulib_reg_status> [ <ulib_pib_hdl> ] ] ]
```

Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
detail	(Optional) Show detailed information
__readonly__	(Optional)
<i>srvname</i>	(Optional) Service name
<i>state</i>	(Optional) Process state
<i>process_id</i>	(Optional) Process id
<i>srgb_min_label</i>	(Optional) Configured SRGB min label
<i>srgb_max_label</i>	(Optional) Configured SRGB max label
<i>srgb_alloc_status</i>	(Optional) SRGB allocation status
<i>oper_srgb_min_label</i>	(Optional) Operational SRGB min label
<i>oper_srgb_max_label</i>	(Optional) Operational SRGB max label
<i>cleanup_intvl</i>	(Optional) SRGB cleanup interval
<i>retry_intvl</i>	(Optional) SRGB alloc retry interval
<i>num_retries</i>	(Optional) SRGB alloc retries done
<i>srgb_alloc_hdl</i>	(Optional) SRGB alloc handle
<i>cleanup_timer_state</i>	(Optional) SRGB cleanup timer state
<i>retry_timer_state</i>	(Optional) SRGB retry timer state
<i>ulib_reg_status</i>	(Optional) ULIB registration done
<i>ulib_pib_hdl</i>	(Optional) ULIB PIB handle

Command Mode

- /exec

show segment-routing clients

```
show segment-routing clients [ __readonly__ [ { TABLE_client <client_pib_name> <client_pib_index>
<client_uuid> <client_pid> <client_sap> [ { TABLE_tib <vrf_name> <tib_name> [ <pfxsid_cleanup_status>
] } ] } ] <total_clients> ]
```

Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
clients	Show client info
<i>__readonly__</i>	(Optional)
TABLE_client	(Optional)
<i>client_pib_name</i>	(Optional) Client name
<i>client_pib_index</i>	(Optional) Client pib index
<i>client_uuid</i>	(Optional) Client UUID
<i>client_pid</i>	(Optional) Client PID
<i>client_sap</i>	(Optional) Client SAP
TABLE_tib	(Optional)
<i>vrf_name</i>	(Optional) VRF name
<i>tib_name</i>	(Optional) Table name
<i>pfxsid_cleanup_status</i>	(Optional) Prefixsid Cleanup Pending?
<i>total_clients</i>	(Optional) Total number of clients

Command Mode

- /exec

show segment-routing ipv4 connected-prefix-sid-map

```
show segment-routing ipv4 connected-prefix-sid-map [ __readonly__ [ { TABLE_tib <vrf_name> <tib_name>
[ { TABLE_pfxsid <prefix> <index> <absolute> <range> <valid> } ] } ] ] ]
```

Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
ipv4	Show info for IPv4 address-family
connected-prefix-sid-map	Show prefix-sid mapping
<i>__readonly__</i>	(Optional)
<i>TABLE_tib</i>	(Optional)
<i>vrf_name</i>	(Optional) Vrf name
<i>tib_name</i>	(Optional) Table name
<i>TABLE_pfxsid</i>	(Optional)
<i>prefix</i>	(Optional) Prefix
<i>index</i>	(Optional) Segment ID
<i>absolute</i>	(Optional) Segment ID is absolute?
<i>range</i>	(Optional) Range of Segment IDs from index
<i>valid</i>	(Optional) Segment ID is valid?

Command Mode

- /exec

show segment-routing mpls

```
show segment-routing mpls [ detail ] [ __readonly__ <srvname> <state> <process_id> [ <srgb_min_label>
<srgb_max_label> <srgb_alloc_status> [ <oper_srgb_min_label> <oper_srgb_max_label> ] <cleanup_intvl>
<retry_intvl> [ <num_retries> ] [ <srgb_alloc_hdl> ] [ <cleanup_timer_state> <retry_timer_state> ] ] [
<ulib_reg_status> [ <ulib_pib_hdl> ] ] ]
```

Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
mpls	Show segment-routing mpls info
detail	(Optional) Show detailed information
__readonly__	(Optional)
<i>srvname</i>	(Optional) Service name
<i>state</i>	(Optional) Process state
<i>process_id</i>	(Optional) Process id
<i>srgb_min_label</i>	(Optional) Configured SRGB min label
<i>srgb_max_label</i>	(Optional) Configured SRGB max label
<i>srgb_alloc_status</i>	(Optional) SRGB allocation status
<i>oper_srgb_min_label</i>	(Optional) Operational SRGB min label
<i>oper_srgb_max_label</i>	(Optional) Operational SRGB max label
<i>cleanup_intvl</i>	(Optional) SRGB cleanup interval
<i>retry_intvl</i>	(Optional) SRGB alloc retry interval
<i>num_retries</i>	(Optional) SRGB alloc retries done
<i>srgb_alloc_hdl</i>	(Optional) SRGB alloc handle
<i>cleanup_timer_state</i>	(Optional) SRGB cleanup timer state
<i>retry_timer_state</i>	(Optional) SRGB retry timer state
<i>ulib_reg_status</i>	(Optional) ULIB registration done
<i>ulib_pib_hdl</i>	(Optional) ULIB PIB handle

Command Mode

- /exec

show segment-routing mpls clients

```
show segment-routing mpls clients [ __readonly__ [ { TABLE_client <client_pib_name> <client_pib_index>
<client_uuid> <client_pid> <client_sap> [ { TABLE_tib <vrf_name> <tib_name> [ <pxsid_cleanup_status>
] } ] } ] <total_clients> ]
```

Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
mpls	Show segment-routing mpls info
clients	Show client info
<i>__readonly__</i>	(Optional)
TABLE_client	(Optional)
<i>client_pib_name</i>	(Optional) Client name
<i>client_pib_index</i>	(Optional) Client pib index
<i>client_uuid</i>	(Optional) Client UUID
<i>client_pid</i>	(Optional) Client PID
<i>client_sap</i>	(Optional) Client SAP
TABLE_tib	(Optional)
<i>vrf_name</i>	(Optional) VRF name
<i>tib_name</i>	(Optional) Table name
<i>pxsid_cleanup_status</i>	(Optional) Prefixsid Cleanup Pending?
<i>total_clients</i>	(Optional) Total number of clients

Command Mode

- /exec

show segment-routing mpls ipv4 connected-prefix-sid-map

```
show segment-routing mpls ipv4 connected-prefix-sid-map [ __readonly__ [ { TABLE_tib <vrf_name>
<tib_name> [ { TABLE_pfxsid <prefix> <index> <absolute> <range> <valid> } ] } ] ] ]
```

Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
mpls	Show segment-routing mpls info
ipv4	Show info for IPv4 address-family
connected-prefix-sid-map	Show prefix-sid mapping
<i>__readonly__</i>	(Optional)
<i>TABLE_tib</i>	(Optional)
<i>vrf_name</i>	(Optional) Vrf name
<i>tib_name</i>	(Optional) Table name
<i>TABLE_pfxsid</i>	(Optional)
<i>prefix</i>	(Optional) Prefix
<i>index</i>	(Optional) Segment ID
<i>absolute</i>	(Optional) Segment ID is absolute?
<i>range</i>	(Optional) Range of Segment IDs from index
<i>valid</i>	(Optional) Segment ID is valid?

Command Mode

- /exec

show sflow

```
show sflow [ __readonly__ <sampling-rate> <max-sampled-size> <counter-poll-interval> <max-datagram-size>
<collector-vrf> <collector-ip> [ <source-ip> ] <collector-port> <agent-ip> [ <data-source-interface> ] ]
```

Syntax Description

show	Show running system information
sflow	Display sFlow global configuration
<i>__readonly__</i>	(Optional) Read only
<i>sampling-rate</i>	(Optional) Sampling Rate
<i>max-sampled-size</i>	(Optional) Max Sampled Size
<i>counter-poll-interval</i>	(Optional) Counter Poll Interval
<i>max-datagram-size</i>	(Optional) Max Datagram Size
<i>collector-vrf</i>	(Optional) Collector VRF
<i>collector-ip</i>	(Optional) Collector IP
<i>source-ip</i>	(Optional) Source IP
<i>collector-port</i>	(Optional) Collector Port
<i>agent-ip</i>	(Optional) Agent IP
<i>data-source-interface</i>	(Optional) Data Source Interface

Command Mode

- /exec

show sflow statistics

```
show sflow statistics [ __readonly__ <total-packets> <total-samples> <processed-samples> <dropped-samples>
[ <rate-limiter-drops> ] [ <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>rate-limiter-drops</i>	(Optional) Rate-Limiter Drops
<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

<i>reason</i>	(Optional) inactive reason
<i>vrf_name</i>	(Optional) VRF-Name
<i>userACL</i>	(Optional) user access-list
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
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 snapshots

show snapshots [__readonly__ TABLE_snapshot <snap_name> <snap_ctime> <description>]

Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
__readonly__	(Optional)
TABLE_snapshot	(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_value <tag> <val1> <val2> ] [ TABLE_subrow <subrowkey> <subrowval> [ <substate1> <substate2>
] [ TABLE_subvalue <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
<i>__readonly__</i>	(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_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
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_subvalue	(Optional)
<i>tag</i>	(Optional) subrow tag
<i>val1</i>	(Optional) subrow value for tag in snapshot1
<i>val2</i>	(Optional) subrow 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> <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 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 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 key1
<i>sectkey2</i>	(Optional) snapshot section key2

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
<i>__readonly__</i>	(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>plo_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

show	Show running system information
snmp	show snmp information
community	show snmp community strings
__readonly__	(Optional) Read Only
TABLE_snmp_community	(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
__readonly__	(Optional)
TABLE_snmp_contexts	(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_vlan_id> ] [ <permit_interface> ] [ <permit_interface_slot> ]
[ <permit_vrf> ] [ TABLE_vrf<permit_vrf_name> ] [ { 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
TABLE_role	(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_vlan_id</i>	(Optional)
<i>permit_interface</i>	(Optional)
<i>permit_interface_slot</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 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
vrf	(Optional) VRF Name
vrf_filter	(Optional) vrf filters
src_intf	(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>
<igmpCacheVersion1HostTimer> ]
```

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>igmpCacheVersion1HostTimer</i>	(Optional) mib object igmpCacheVersion1HostTimer

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 nms-statistics

```
show snmp nms-statistics [ __readonly__ <header> [ <nms_stats> ] ]
```

Syntax Description

show	Show running system information
snmp	Show snmp information
nms-statistics	Show SNMP NMS statistics
__readonly__	(Optional) Read Only
<i>header</i>	(Optional) NMS Statistics header
<i>nms_stats</i>	(Optional) NMS Statistics

Command Mode

- /exec

show snmp oid-statistics

```
show snmp oid-statistics [ last-access ] [ __readonly__ <header> { TABLE_snmp_gen <oid_stats> |
TABLE_snmp_la <oid_last_access_stats> } ]
```

Syntax Description

show	Show running system information
snmp	Show snmp information
oid-statistics	Show SNMP oid statistics
last-access	(Optional) Show SNMP oid statistics of last-access
__readonly__	(Optional) Read Only
<i>header</i>	(Optional) OID Statistics header
TABLE_snmp_gen	(Optional) contains all snmp oid statistics
<i>oid_stats</i>	(Optional) OID Statistics
TABLE_snmp_la	(Optional) contains all snmp oid last access statistics
<i>oid_last_access_stats</i>	(Optional) OID Last Access Statistics

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 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> [ <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
<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 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>
] [ <ioclt-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> ] [ <ioclt-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> ] [ <pplis-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> ] [
<psend-no-soc-err> ] [ <psend-inval-iiov> ] [ <psend-getsoc-err> ] [ <psend-msg-ctrl-err> ] [
<psend-sockarg-err> ] [ <psend-pru-sosend> ] [ <precv-nosock-err> ] [ <precv-inval-iioflen> ] [
<precv-pru-sorecv> ] [ <precv-cp-msg-err> ] [ <precv-cp-msg-nlen> ] [ <precv-cp-data-err> ] [
<pbrcv-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> ] [ <lxc-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) total clients
no-total-clients	(Optional) number of total clients
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) Fast tcp mts control queue
cancel-requests	(Optional) cancel requests
cancel-unblocks	(Optional) cancel unblocks
cancel-misses	(Optional) cancel misses
select-drops	(Optional) select drops
select-wakes	(Optional) select wakes
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) sockets calls
bind-calls	(Optional) socket bind calls
listen-calls	(Optional) socket listen calls

<i>accept-calls</i>	(Optional) socket accept calls
<i>acc-dispat-err</i>	(Optional) socket accept dispatch error
<i>connect-calls</i>	(Optional) socket connect calls
<i>connec-dispatch</i>	(Optional) socket dispatch calls
<i>recvmsg-dispatch</i>	(Optional) receive msg dispatch
<i>recv-dis-nblock</i>	(Optional) receive dispatch nonblock
<i>recvmsg-call</i>	(Optional) receive message call
<i>brecv-dispatch</i>	(Optional) broadcast receive dispatch
<i>fsendmsg-calls</i>	(Optional) forward send message dispatch
<i>sendmsg-dispatch</i>	(Optional) send message dispatch
<i>sendmsg-calls</i>	(Optional) send message calls
<i>msendmsg-calls</i>	(Optional) multicast send message calls
<i>select-calls</i>	(Optional) select calls
<i>select-dispatch</i>	(Optional) select dispatch
<i>select-need-work</i>	(Optional) select need work
<i>sh-calls</i>	(Optional) show calls
<i>close-calls</i>	(Optional) close calls
<i>fctl-calls</i>	(Optional) fctl calls
<i>ioctl-calls</i>	(Optional) ioctl calls
<i>setsock-calls</i>	(Optional) setsock calls
<i>getsock-calls</i>	(Optional) getsock calls
<i>getsockname-calls</i>	(Optional) get socket name calls
<i>getpeer-calls</i>	(Optional) get peer calls
<i>fork-calls</i>	(Optional) fork calls
<i>execve-calls</i>	(Optional) execve calls
<i>dup-calls</i>	(Optional) duplicate calls
<i>can-calls</i>	(Optional) cancel calls
<i>can-miss</i>	(Optional) cancel miss
<i>can-unblk-sele</i>	(Optional) cancel unblock select

<i>soc-ha-calls</i>	(Optional) socket ha calls
<i>pfork-client</i>	(Optional) pfork client
<i>read-fd</i>	(Optional) socket read fd
<i>write-fd</i>	(Optional) socket write fd
<i>read-fd-set</i>	(Optional) socket read fd set
<i>write-fd-set</i>	(Optional) socket write fd set
<i>fast-tcp-send-req</i>	(Optional) socket fast tcp send request
<i>fast-tcp-send-suc</i>	(Optional) socket fast tcp send success
<i>fast-tcp-ack</i>	(Optional) socket fast tcp ack
TABLE_sterr	(Optional) Client Socket Error Statistics
<i>sock-err</i>	(Optional) socket error
<i>sock-nodev-err</i>	(Optional) socket nodev error
<i>bind-err</i>	(Optional) socket bind error
<i>lis-err</i>	(Optional) socket listen error
<i>accept-err</i>	(Optional) socket accept error
<i>connect-err</i>	(Optional) socket connect error
<i>recvmsg-err</i>	(Optional) socket receive message error
<i>brcvmsg-err</i>	(Optional) socket broadcast receive message error
<i>fsendmsg-err</i>	(Optional) socket forward send message error
<i>sendmsg-err</i>	(Optional) socket send message error
<i>msndmsg-err</i>	(Optional) socket multicast send message error
<i>select-err</i>	(Optional) socket select error
<i>sel-nomem-err</i>	(Optional) socket select no member error
<i>shut-err</i>	(Optional) socket shutdown error
<i>close-err</i>	(Optional) socket close error
<i>fcntl-err</i>	(Optional) socket fcntl error
<i>ioctl-err</i>	(Optional) socket ioctl error
<i>setsoc-err</i>	(Optional) set socket error
<i>getsoc-err</i>	(Optional) get socket error

<i>getsocname-err</i>	(Optional) get socket name error
<i>getpeername-err</i>	(Optional) get peer name error
<i>fork-err</i>	(Optional) socket fork error
<i>execve-err</i>	(Optional) socket execve error
<i>dup-err</i>	(Optional) socket duplicate error
<i>psoc-vrf-err</i>	(Optional) psocket vrf error
<i>psoc-nosoc-err</i>	(Optional) psocket nosoc error
<i>psoc-sock-null-err</i>	(Optional) psocket socket null error
<i>psoc-socre-err</i>	(Optional) psocket socre error
<i>pbind-nsock-err</i>	(Optional) pbind nsock error
<i>pbd-getsocaddr</i>	(Optional) pbd getsocaddr
<i>pbind-sobind-err</i>	(Optional) pbind sobind error
<i>plisten-nsoc-err</i>	(Optional) plisten nsoc error
<i>plis-solis-err</i>	(Optional) plisten socket listen error
<i>pacc-nsoc-err</i>	(Optional) paccept new socket error
<i>pacc-no-nsoc-err</i>	(Optional) paccept no new socket error
<i>pacc-sock-null-err</i>	(Optional) paccept socket null error
<i>pacc-copy-err</i>	(Optional) paccept copy error
<i>pacc-no-acc-err</i>	(Optional) paccept no accept error
<i>pacc-woublo-err</i>	(Optional) paccept would block error
<i>pacc-connabo-err</i>	(Optional) paccept connect abort error
<i>pacc-cond-wait-err</i>	(Optional) paccept condition wait error
<i>pacc-so-err-err</i>	(Optional) paccept socket error
<i>pacc-err-err</i>	(Optional) paccept error
<i>pcon-no-soc-err</i>	(Optional) pconnect no socket error
<i>pcon-ealready-err</i>	(Optional) pconnect ready error
<i>pconn-getsock</i>	(Optional) pconnect get socket
<i>pconn-socon-err</i>	(Optional) pconnect socket on error
<i>pconn-einpro-err</i>	(Optional) pconnect einprogress error

<i>pconn-con-wait-err</i>	(Optional) pconnect condition wait error
<i>psend-no-soc-err</i>	(Optional) psend no socket error
<i>psend-inval-iov</i>	(Optional) psend invalidate iov
<i>psend-getsoc-err</i>	(Optional) psend getsocket error
<i>psend-msg-ctrl-err</i>	(Optional) psend message control error
<i>psend-sockarg-err</i>	(Optional) psend socket argument error
<i>psend-pru-sosend</i>	(Optional) psend pru socket send
<i>precv-nosock-err</i>	(Optional) preceive no socket error
<i>precv-inval-iovlen</i>	(Optional) preceive invalidate iovlen
<i>precv-pru-sorecv</i>	(Optional) preceive pru so receive
<i>precv-cp-msg-err</i>	(Optional) preceive copy message error
<i>precv-cp-msg-nlen</i>	(Optional) preceive copy message new length
<i>precv-cp-data-err</i>	(Optional) preceive copy data error
<i>pbrecv-rcvmsg-err</i>	(Optional) preceive receive message error
<i>pshut-no-soc-err</i>	(Optional) pshutdown no socket error
<i>psetsoc-val-err</i>	(Optional) pset socket value error
<i>psetsoc-inv-val</i>	(Optional) pset socket invalidate error
<i>psetsoc-no-soc-err</i>	(Optional) pset socket no socket error
<i>psetsoc-sosetopt</i>	(Optional) pset socket set opt
<i>pgetsoc-no-socerr</i>	(Optional) pget socket no socket error
<i>pgetsoc-cp-err</i>	(Optional) pget socket copy error
<i>pgetsoc-val-err</i>	(Optional) pget socket validate error
<i>pgetsoc-sogt-err</i>	(Optional) pget socket sogt error
<i>pgetsoc-no-soc-err</i>	(Optional) pget socket no socket error
<i>pgetsoc-cp-err</i>	(Optional) pget socket copy error
<i>pgetsoc-pru-soc-err</i>	(Optional) pget socket pru socket error
<i>pgetsoc-cpout-err</i>	(Optional) pget socket copy out error
<i>pgtprne-no-soc-err</i>	(Optional) pget peer name no socket error
<i>pgtprne-enot-err</i>	(Optional) pget peer name enot connect error

<i>pgtprne-cp-err</i>	(Optional) pget peer name copy error
<i>pgtprne-pru-pradd</i>	(Optional) pget peer name pru peer address
<i>pgtprne-cpout-err</i>	(Optional) pget peer name copy out error
<i>pclose-no-soc-err</i>	(Optional) pclose no socket error
<i>pclose-socnull-err</i>	(Optional) pclose socket null error
<i>pclose-p-cls2-err</i>	(Optional) pclose p close2 error
<i>pfcntl-no-soc-err</i>	(Optional) pfcntl no socket error
<i>pfcntl-soc-null</i>	(Optional) pfcntl socket null
<i>pfcntl-enotsup</i>	(Optional) pfcntl enotsupport errors
<i>pfcntl-einval-err</i>	(Optional) pfcntl invalidate error
<i>pioctl-no-soc-err</i>	(Optional) pioctl no socket error
<i>pioctl-enotsup</i>	(Optional) pioctl enotsup
<i>pioctl-pru-cntl</i>	(Optional) pioctl pru cntl
<i>pfork-enomem-err</i>	(Optional) pfork eno-memory error
<i>pdup-no-soc-err</i>	(Optional) pudp no socket error
<i>pdup-soc-null-err</i>	(Optional) pudp socket null error
<i>ha-nomem-err</i>	(Optional) ha no memory error
<i>ha-tlv-err</i>	(Optional) ha tlv error
<i>ha-soc-arg-err</i>	(Optional) ha socket argument error
<i>ha-cli-tlv-err</i>	(Optional) ha cli tlv error
<i>ha-pss-upd-err</i>	(Optional) ha pss udp error
<i>ha-no-soc-err</i>	(Optional) ha no socket error
<i>ha-soc-tlv-err</i>	(Optional) ha socket tlv error
<i>ha-soc-pss-upd</i>	(Optional) ha socket pss udp
<i>ha-inpcb-tlv</i>	(Optional) ha inpcb tlv value
<i>ha-inpcb-pssky</i>	(Optional) ha inpcb pssky value
<i>ha-ip-mopt-tlv</i>	(Optional) ha ip mopt tlv value
<i>ha-ip-mopt-pss</i>	(Optional) ha ip mopt pss value
<i>ha-ip6-mopt-tlv</i>	(Optional) ha ip6 mopt tlv value

<i>ha-ip6-mopt-pss</i>	(Optional) ha ip6 mopt pss value
<i>ha-tcpb-tlv</i>	(Optional) ha socket update tcpb to tlv error
<i>ha-tcpb-pss</i>	(Optional) ha socket update tcpb psskey update error
<i>ft-tcp-wblock</i>	(Optional) fast tcp send would block error
<i>ft-send-p-sndmsg</i>	(Optional) fast tcp send p_sendmsg errors
<i>ft-ack-rcv-no-soc</i>	(Optional) fast ack receive no socket
<i>lxc-tgid-err</i>	(Optional) Containers tgid err
TABLE_sp_cl	(Optional) Sock specific Ctrl statistics
<i>can-requests</i>	(Optional) socket control cancel request
<i>can-unblocks</i>	(Optional) socket cancel unblocks
<i>can-misses</i>	(Optional) socket cancel misses
<i>sel-drops</i>	(Optional) select drops
<i>sel-wakes</i>	(Optional) select wakes

Command Mode

- /exec

show sockets connection

```
show sockets connection [ pid <pid> | tcp | udp | raw ] [ local { <srcIP> | <srcIP6> } ] [ foreign { <dstIP> | <dstIP6> } ] [ detail ] [ keydetails ] [ __readonly__ ] [ { TABLE_sockets <protocol> [ <total-conn-count> ] [ { TABLE_conn <afi> [ <laddr> ] [ <lport> ] [ <faddr> ] [ <fport> ] [ <prot> ] [ <type> ] [ <ttl> ] [ <tos> ] [ <options> ] [ <state> ] [ <rcv-count> ] [ <rcv-hiwat> ] [ <rcv-lowat> ] [ <rcv-flags> ] [ <snd-count> ] [ <snd-hiwat> ] [ <snd-lowat> ] [ <snd-flags> ] [ <iss> ] [ <snd-una> ] [ <snd-nxt> ] [ <snd_wnd> ] [ <irs> ] [ <rcv-nxt> ] [ <rcv-wnd> ] [ <snd-cwnd> ] [ <ooo_pkt_rcv> ] [ <ooo_pkt_drpd> ] [ <ooo_pkt_rqc> ] [ <rtt> ] [ <rttvar> ] [ <krtd> ] [ <rttmin> ] [ <mss> ] [ <dur> ] [ <tcp-state> ] [ <flags> ] [ <md5-cnt> ] [ <md5-host> ] [ <md5-err> ] [ <tcp-count> ] [ <udp-count> ] [ <raw-count> ] [ <vrf-name> ] [ <intf> } ] ] ]
```

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_sockets	(Optional) sockets table
<i>protocol</i>	(Optional) socket protocol
<i>total-conn-count</i>	(Optional) socket connection table
TABLE_conn	(Optional)
<i>afi</i>	(Optional) socket family

<i>prot</i>	(Optional) socket protocol
<i>tcp-state</i>	(Optional) socket tcp state
<i>rcv-count</i>	(Optional) socket connection receive count
<i>laddr</i>	(Optional) socket connection laddr
<i>lport</i>	(Optional) socket connection lport
<i>faddr</i>	(Optional) socket connection faddr
<i>fport</i>	(Optional) socket connection fport
<i>intf</i>	(Optional) socket connection interface
<i>vrf-name</i>	(Optional) socket vrf name
<i>snd-count</i>	(Optional) socket connection send count
<i>type</i>	(Optional) socket connection type
<i>ttl</i>	(Optional) socket connection ttl
<i>tos</i>	(Optional) socket connection tos
<i>options</i>	(Optional) socket connection option
<i>state</i>	(Optional) socket connection state
<i>iss</i>	(Optional) socket connection iss
<i>snd-una</i>	(Optional) socket connection send unavailable
<i>snd-nxt</i>	(Optional) socket connection send next
<i>snd_wnd</i>	(Optional) socket connection send window
<i>irs</i>	(Optional) socket connection irs
<i>rcv-nxt</i>	(Optional) socket connection receive next
<i>rcv-wnd</i>	(Optional) socket connection receive window
<i>snd-cwnd</i>	(Optional) socket connection close sent window
<i>ooo_pkt_rcv</i>	(Optional) socket connection out-of-order packet received
<i>ooo_pkt_drp</i>	(Optional) socket connection out-of-order packet dropped
<i>ooo_pkt_rqc</i>	(Optional) socket connection out-of-order reassembly queue count
<i>srtt</i>	(Optional) socket connection srtt
<i>rtt</i>	(Optional) socket connection rtt
<i>rttvar</i>	(Optional) socket connection rttvar

<i>krtt</i>	(Optional) socket connection krtt
<i>rttmin</i>	(Optional) socket connection rtt mintues
<i>mss</i>	(Optional) socket connection mss
<i>dur</i>	(Optional) socket connection duration
<i>flags</i>	(Optional) socket connection flags
<i>md5-cnt</i>	(Optional) socket connection md5 count
<i>md5-host</i>	(Optional) socket connection md5 host
<i>md5-err</i>	(Optional) socket connection md5 error
<i>rcv-hiwat</i>	(Optional) socket connection receive hiwat
<i>rcv-lowat</i>	(Optional) socket connection receive lowat
<i>rcv-flags</i>	(Optional) socket connection receive flags
<i>snd-hiwat</i>	(Optional) socket connection send hiwat
<i>snd-lowat</i>	(Optional) socket connection send lowat
<i>snd-flags</i>	(Optional) socket connection send flags
<i>tcp-count</i>	(Optional) socket connection tcp count
<i>udp-count</i>	(Optional) socket connection udp count
<i>raw-count</i>	(Optional) socket connection raw count

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> <nat_local_port_range_start>
<nat_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
<i>nat_local_port_range_start</i>	(Optional) Nat local port range start
<i>nat_local_port_range_end</i>	(Optional) Nat local port range end

Command Mode

- /exec

show sockets ns-port-kiosk

```
show sockets ns-port-kiosk [ __readonly__ [ TABLE_port_kiosk { <client-process-id> <client-name> } [
TABLE_port_state_pro_name { <entry-counter> [ <listening-port> ] [ <fwd-port> ] [ <tcp-state> ] [ <mts-sap>
] [ <protocol-name> } ] ] ] ]
```

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
ns-port-kiosk	Display port kiosk for netstack socket clients
<i>__readonly__</i>	(Optional)
<i>TABLE_port_kiosk</i>	(Optional) Sockets ns port kiosk information
<i>client-process-id</i>	(Optional) Client Process ID
<i>client-name</i>	(Optional) Client Name
<i>TABLE_port_state_pro_name</i>	(Optional) Sockets ns port state protocol information
<i>entry-counter</i>	(Optional) Table Entry Counter
<i>listening-port</i>	(Optional) Listening Port
<i>fwd-port</i>	(Optional) FWD Port
<i>tcp-state</i>	(Optional) TCP State
<i>mts-sap</i>	(Optional) MTS SAP
<i>protocol-name</i>	(Optional) Protocol Name

Command Mode

- /exec

show sockets statistics

```

show sockets statistics [ all | tcp | tcp6 | tcpsum | udp | udp6 | udpsum | raw | raw6 | rawsum ] [ __readonly__
[ { TABLE_stat [ <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-oo-drop-cnt> ] [ <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> ] [ <rx-rcv-memdrop>
] [ <rx-dig-mssing> ] [ <rx-dig-unexpected> ] [ <rx-dig-notused> ] [ <rx-dig-valid> ] [ <rx-dig-invalid> ] [
<rx-get-passwd-fail> ] [ <rx-md5-mbuf-exded> ] [ <rx-uspec-src-recv> ] [ <rx-pkt-too-short> ] [ <rx-sin-finest>
] [ <rx-black-hole-syn> ] [ <rx-black-hole> ] [ <rx-drop-no-inpcb> ] [ <rx-drop-notcpcb> ] [
<rx-drp-sock-closed> ] [ <rx-syn-with-rst> ] [ <rx-syn-drop> ] [ <rx-bandlim> ] [ <rx-forged-pkt> ] [
<rx-drp-mbcast> ] [ <rx-drp-syn-add> ] [ <rx-drp-syn-recvd> ] [ <rx-drp-cc-sent> ] [ <rx-drp-rst-ccsent> ] [
<rx-frecv-enqueue> ] [ <rx-frecv-enqueue-fail> ] [ <rx-ftcp-cant-rcv-more> ] [ <rx-ftcp-data-ack-toapp-fail>
] [ <rx-ftcp-data-ack-toapp> ] [ <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-encrypt> ] [ <tx-unencrypt> ] [ <tx-md5rst> ] [ <tx-conn-init> ] [ <tx-conn-accepted> ] [ <tx-conn-estd>
] [ <closed> ] [ <dropped> ] [ <emb-dropped> ] [ <tx-rxmt-timeout> ] [ <tx-rxmt-timeout-dropped> ] [
<tx-ka-timeout> ] [ <tx-ka-probe> ] [ <tx-ka-drop> ] [ <gen-seg-timed> ] [ <gen-rtt-updated> ] [ <gen-delack>
] [ <gen-persist-timeout> ] [ <gen-paws-drop> ] [ <gen-predack> ] [ <gen-preddat> ] [ <gen-pcb-cachemiss>
] [ <gen-cache-drtt> ] [ <gen-cache-drttvar> ] [ <gen-cached-ssthresh> ] [ <gen-usedrtt> ] [ <gen-usedrttvar>
] [ <gen-usedssthresh> ] [ <gen-persistdrop> ] [ <gen-badsyn> ] [ <gen-mturesent> ] [ <gen-list-endrop> ] [
<gen-rpm-bind-synsock> ] [ <gen-rpm-bindsynadd> ] [ <gen-rpm-bindlookup> ] [ <gen-rpm-bindsetsock>
] [ <gen-rpm-unbind-getpass> ] [ <gen-rpm-unbinduser1> ] [ <gen-rpm-unbinduser2> ] [
<gen-rpm-unbindrollover> ] [ <gen-rpm-unbind-synfree> ] [ <gen-rpm-unbind-tpfree> ] [ <syn-sc-added> ]
[ <syn-retransmitted> ] [ <syn-dupsyn> ] [ <syn-dropped> ] [ <syn-completed> ] [ <syn-bucket-overflow> ]
[ <syn-cache-overflow> ] [ <syn-sc-reset> ] [ <syn-sc-stale> ] [ <syn-sc-aborted> ] [ <syn-sc-badack> ] [
<syn-sc-unreach> ] [ <syn-sc-zonefail> ] [ <syn-sc-sendcookie> ] [ <syn-sc-recvcookie> ] [ <syn-sc-crosshits>
] [ <syn-sc-supsyncrosshits> ] [ <syn-sc-removecrosshits> ] [ <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-version> ] [
<raw-rx-rcvd> ] [ <raw-rx-no-port> ] [ <raw-rx-full-socket-drop> ] [ <raw-tx-sent> ] [ <inpcb-tot-alloc> ] [
<inpcb-tot-bind> ] [ <inpcb-tot-laddr> ] [ <inpcb-tot-connect> ] [ <inpcb-tot-disconnect> ] [ <inpcb-tot-detach>
] [ <inpcb-tot-detach-noinc> ] [ <inpcb-tot-detach-rort> ] [ <inpcb-tot-rtfree> ] [ <inpcb-tot-setsock-addr> ]
[ <inpcb-tot-setpeeraddr> ] [ <inpcb-tot-notify> ] [ <inpcb-tot-lookup-npacl-deny> ] [
<inpcb-tot-lookup-npacl-allow> ] [ <inpcb-tot-inshash-ipv4> ] [ <inpcb-tot-inshash-ipv6> ] [
<inpcb-tot-brehash-ipv4> ] [ <inpcb-tot-brehash-ipv6> ] [ <inpcb-tot-bremhash> ] [ <inpcb-err-allocnomem>
] [ <inpcb-err-bindeinavl> ] [ <inpcb-err-eaddrinuse> ] [ <inpcb-err-eagain> ] [ <inpcb-err-eagain2> ] [
<inpcb-err-eaddrnotavail> ] [ <inpcb-err-eafnosupport> ] [ <inpcb-err-enomem> ] [ <inpcb-err-ehostunreach>
] [ <inpcb-err-laddr-enoent> ] [ <inpcb-err-laddr-ehostunreach2> ] [ <inpcb-err-connectladdr> ] [
<inpcb-err-connect-eaddrinuse> ] [ <inpcb-err-connbind> ] [ <inpcb-err-sockaddressnomem> ] [
<inpcb-err-sockaddressreconnreset> ] [ <inpcb-err-peeraddr-enomem> ] [ <inpcb-err-econnrest> ] [
<inpcb-err-respond-enobufs> ] [ <inpcb-err-binshash-enobufs> ] [ <in6pcb-tot-setport> ] [ <in6pcb-tot-bind>
] [ <in6pcb-tot-laddr> ] [ <in6pcb-tot-connect> ] [ <in6pcb-tot-disconnect> ] [ <in6pcb-tot-detach> ] [
<in6pcb-tot-sockaddr> ] [ <in6pcb-tot-peeraddr> ] [ <in6pcb-tot-notify> ] [ <in6pcb-tot-lookuplocal> ] [
<in6pcb-tot-hashnpacl-deny> ] [ <in6pcb-err-setporteagain> ] [ <in6pcb-err-setporteagain2> ] [
<in6pcb-err-seteagain3> ] [ <in6pcb-bind-eafnosupport> ] [ <in6pcb-err-bindeaddrinuse> ] [
<in6pcb-err-bindeaddrinuse2> ] [ <in6pcb-err-bindeaddrinuse3> ] [ <in6pcb-err-bindeaddrinuse4> ] [
<in6pcb-err-bindsetport> ] [ <in6pcb-err-bindeagain> ] [ <in6pcb-err-laddr-eafnosupport> ] [
<in6pcb-err-eaddrnotavail> ] [ <in6pcb-err-laddr-enomem> ] [ <in6pcb-err-laddr-ehostreach> ] [

```

```
<in6pcb-err-laddr-ehostunreach2> ] [ <in6pcb-err-laddr-ehostunreach3> ] [ <in6pcb-err-laddr-ehostunreach4>
] [ <in6pcb-err-laddr-enxio> ] [ <in6pcb-err-connladdr> ] [ <in6pcb-err-conneaddrinuse> ] [
<in6pcb-err-connbind> ] [ <in6pcb-err-sockaddr-enomem> ] [ <in6pcb-err-v4maps-enomem> ] [
<in6pcb-err-setsock-noinp> ] [ <in6pcb-err-setpeer-noinp> ] [ <in6pcb-err-sockaddr-noinp> ] [
<in6pcb-err-peeraddr-noinp> ] [ <in6pcb-err-notify-einavl> ] [ <in6pcb-err-ctloutput-nosoopt> ] } } ] ]
```

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_stat	(Optional) sockets statistics table
<i>rx-total</i>	(Optional) total packets received
<i>rx-bad-csum</i>	(Optional) packets received with ccksum errs
<i>rx-bad-offset</i>	(Optional) packets received with bad offset
<i>rx-too-short</i>	(Optional) packets received too short
<i>rx-bad-md5</i>	(Optional) Recieved bad digest
<i>rx-inseq-pack</i>	(Optional) packets received in sequence
<i>rx-inseq-bytes</i>	(Optional) bytes received in sequence
<i>rx-dup-pack</i>	(Optional) duplicate-only packets received
<i>rx-dup-bytes</i>	(Optional) duplicate-only bytes received
<i>rx-partdup-pack</i>	(Optional) packets with some duplicate data

<i>rx-partdup-bytes</i>	(Optional) dup. bytes in part-dup. packets
<i>rx-oo-pack</i>	(Optional) out-of-order packets received
<i>rx-oo-bytes</i>	(Optional) out-of-order bytes received
<i>rx-oo-drop-cnt</i>	(Optional) out-of-order drop count
<i>rx-afterwin-pack</i>	(Optional) packets with data after window
<i>rx-afterwin-bytes</i>	(Optional) bytes rcvd after window
<i>rx-afterclose-pack</i>	(Optional) packets rcvd after close
<i>rx-winprobe-pack</i>	(Optional) rcvd window probe packets
<i>rx-winupdate-pack</i>	(Optional) rcvd window update packets
<i>rx-dupack-pack</i>	(Optional) rcvd duplicate acks
<i>rx-dupack-unsent-pack</i>	(Optional) rcvd acks for unsent data
<i>rx-ack-pack</i>	(Optional) rcvd ack packets
<i>rx-ack-bytes</i>	(Optional) bytes acked by rcvd acks
<i>rx-rcv-memdrop</i>	(Optional) packets dropped for lack of memory
<i>rx-dig-mssing</i>	(Optional) digest missing
<i>rx-dig-unexpected</i>	(Optional) digest unexpected
<i>rx-dig-notused</i>	(Optional) digest not used
<i>rx-dig-valid</i>	(Optional) digest valid
<i>rx-dig-invalid</i>	(Optional) digest invalid
<i>rx-get-passwd-fail</i>	(Optional) get pass failed for RST
<i>rx-md5-mbuf-exded</i>	(Optional) md5 passwd exceeds mbuf
<i>rx-uspec-src-recv</i>	(Optional) Dropped Unspecified src pkt recieved
<i>rx-pkt-too-short</i>	(Optional) Dropped Packet too short
<i>rx-sin-finest</i>	(Optional) Dropped packet set with SYN/FIN
<i>rx-black-hole-syn</i>	(Optional) Dropped black hole SYN
<i>rx-black-hole</i>	(Optional) Dropped black hole
<i>rx-drop-no-inpcb</i>	(Optional) Dropped no inpcb
<i>rx-drop-notpcb</i>	(Optional) Dropped no tcpcb
<i>rx-drp-sock-closed</i>	(Optional) Dropped socket closed

<i>rx-syn-with-rst</i>	(Optional) Dropped SYN with reset
<i>rx-syn-drop</i>	(Optional) Dropped SYN
<i>rx-bandlim</i>	(Optional) Dropped Bandlim rst open port
<i>rx-forged-pkt</i>	(Optional) Dropped Same src/dst
<i>rx-drp-mbcast</i>	(Optional) Dropped Broadcast/Multicast
<i>rx-drp-syn-add</i>	(Optional) Dropped Adding SYN failed
<i>rx-drp-syn-recvd</i>	(Optional) ACK recvd not for our SYN
<i>rx-drp-cc-sent</i>	(Optional) Dropped cc sent
<i>rx-drp-rst-ccsent</i>	(Optional) Dropped cc sent with reset
<i>rx-frecv-enqueue</i>	(Optional) Fast recv packets enqueued
<i>rx-frecv-enqueue-fail</i>	(Optional) Fast recv enqueue failed
<i>rx-ftcp-cant-rcv-more</i>	(Optional) Fast TCP can not recv more
<i>rx-ftcp-data-ack-toapp-fail</i>	(Optional) Fast TCP data ACK to app failed
<i>rx-ftcp-data-ack-toapp</i>	(Optional) Fast TCP data ACK to app
<i>tx-total</i>	(Optional) total packets sent
<i>tx-urg</i>	(Optional) packets sent with URG only
<i>tx-ctrl</i>	(Optional) control (SYN FIN RST) packets sent
<i>tx-data-pack</i>	(Optional) data packets sent
<i>tx-data-bytes</i>	(Optional) data bytes sent
<i>tx-reasm-pack</i>	(Optional) data packets retransmitted
<i>tx-reasm-bytes</i>	(Optional) data bytes retransmitted
<i>tx-ackonly-pack</i>	(Optional) ack-only packets sent
<i>tx-winprobe-pack</i>	(Optional) window probes sent
<i>tx-winupdate-bytes</i>	(Optional) window update-only packets sent
<i>tx-encrypt</i>	(Optional) Encrypted packets sent
<i>tx-unencrypt</i>	(Optional) Unencrypted packets sent
<i>tx-md5rst</i>	(Optional) No of encrypted RST packets
<i>tx-conn-init</i>	(Optional) connections initiated
<i>tx-conn-accepted</i>	(Optional) connections accepted

<i>tx-conn-estd</i>	(Optional) connections established
<i>closed</i>	(Optional) conn. closed (includes drops)
<i>dropped</i>	(Optional) connections dropped
<i>emb-dropped</i>	(Optional) embryonic connections dropped
<i>tx-rxmt-timeout</i>	(Optional) total rxmt timeout
<i>tx-rxmt-timeout-dropped</i>	(Optional) connections dropped in rxmt timeout
<i>tx-ka-timeout</i>	(Optional) keepalive timeouts
<i>tx-ka-probe</i>	(Optional) keepalive probes sent
<i>tx-ka-drop</i>	(Optional) connections dropped in keepalive
<i>gen-seg-timed</i>	(Optional) segs where we tried to get rtt
<i>gen-rtt-updated</i>	(Optional) times we succeeded to get rtt
<i>gen-delack</i>	(Optional) delayed acks sent
<i>gen-persist-timeout</i>	(Optional) persist timeouts
<i>gen-paws-drop</i>	(Optional) segments dropped due to PAWS
<i>gen-predack</i>	(Optional) hdr predict ok for acks
<i>gen-preddat</i>	(Optional) hdr predict ok for data pkts
<i>gen-pcb-cachemiss</i>	(Optional) PCB cache miss
<i>gen-cache-drtt</i>	(Optional) times cached RTT in route updated
<i>gen-cache-drttvar</i>	(Optional) times cached rttvar updated
<i>gen-cached-ssthresh</i>	(Optional) times cached ssthresh updated
<i>gen-usedrtt</i>	(Optional) times RTT initialized from route
<i>gen-usedrttvar</i>	(Optional) times RTTVAR initialized from rt
<i>gen-usedssthresh</i>	(Optional) times ssthresh initialized from rt
<i>gen-persistdrop</i>	(Optional) timeout in persist state
<i>gen-badsyn</i>	(Optional) bogus SYN, e.g. premature ACK
<i>gen-mturedsent</i>	(Optional) resends due to MTU discovery
<i>gen-list-endrop</i>	(Optional) listen queue overflows
<i>gen-rpm-bind-synsock</i>	(Optional) rpm bind in synsock
<i>gen-rpm-bindsynadd</i>	(Optional) rpm bind in synadd

<i>gen-rpm-bindlookup</i>	(Optional) rpm bind in lookup
<i>gen-rpm-bindsetsock</i>	(Optional) rpm bind in setsock
<i>gen-rpm-unbind-getpass</i>	(Optional) rpm unbind get pass
<i>gen-rpm-unbinduser1</i>	(Optional) rpm unbind by user
<i>gen-rpm-unbinduser2</i>	(Optional) rpm unbind by user1
<i>gen-rpm-unbindrollover</i>	(Optional) rpm unbind during rollover
<i>gen-rpm-unbind-synfree</i>	(Optional) rpm unbind in syn free
<i>gen-rpm-unbind-tpfree</i>	(Optional) rpm unbind in tp free
<i>syn-sc-added</i>	(Optional) entry added to syncache
<i>syn-retransmitted</i>	(Optional) syncache entry was retransmitted
<i>syn-dupsyn</i>	(Optional) duplicate SYN packet
<i>syn-dropped</i>	(Optional) could not reply to packet
<i>syn-completed</i>	(Optional) successful extraction of entry
<i>syn-bucket-overflow</i>	(Optional) syncache per-bucket limit hit
<i>syn-cache-overflow</i>	(Optional) syncache cache limit hit
<i>syn-sc-reset</i>	(Optional) RST removed entry from syncache
<i>syn-sc-stale</i>	(Optional) timed out or listen socket gone
<i>syn-sc-aborted</i>	(Optional) syncache entry aborted
<i>syn-sc-badack</i>	(Optional) removed due to bad ACK
<i>syn-sc-unreach</i>	(Optional) ICMP unreachable received
<i>syn-sc-zonefail</i>	(Optional) zalloc() failed
<i>syn-sc-sendcookie</i>	(Optional) SYN cookie sent
<i>syn-sc-recvcookie</i>	(Optional) SYN cookie received
<i>syn-sc-crosshits</i>	(Optional) crosshits on the SC blocks
<i>syn-sc-supsyncrosshits</i>	(Optional) crosshits dup SYN on SC block
<i>syn-sc-removecrosshits</i>	(Optional) crosshits on SC blocks to remove
<i>udp-rx-total</i>	(Optional) total udp packets
<i>udp-rx-bad-csum</i>	(Optional) udp checksum error
<i>udp-rx-no-csum</i>	(Optional) udp no checksum

<i>udp-rx-too-short</i>	(Optional) udp packets drops
<i>udp-rx-bad-len</i>	(Optional) udp bad length
<i>udp-rx-no-port</i>	(Optional) udp no port
<i>udp-rx-no-port-bcast</i>	(Optional) udp no port broadcast
<i>udp-rx-no-port-mcast</i>	(Optional) udp no port multicast
<i>udp-rx-full-socket-drop</i>	(Optional) udp dropped full socket
<i>udp-tx-total</i>	(Optional) udp total packets
<i>raw-rx-version</i>	(Optional) raw sockets version
<i>raw-rx-rcvd</i>	(Optional) raw sockets connection received
<i>raw-rx-no-port</i>	(Optional) raw socket no port
<i>raw-rx-full-socket-drop</i>	(Optional) raw socket full sockets drop
<i>raw-tx-sent</i>	(Optional) raw socket connection sent
<i>inpcb-tot-alloc</i>	(Optional) inpcb allocation
<i>inpcb-tot-bind</i>	(Optional) inpcb bind
<i>inpcb-tot-laddr</i>	(Optional) inpcb laddr
<i>inpcb-tot-connect</i>	(Optional) inpcb connect
<i>inpcb-tot-disconnect</i>	(Optional) inpcb disconnect
<i>inpcb-tot-detach</i>	(Optional) inpcb detach
<i>inpcb-tot-detach-noinc</i>	(Optional) inpcb detaach no increment
<i>inpcb-tot-detach-rort</i>	(Optional) inpcb detach no return
<i>inpcb-tot-rtfree</i>	(Optional) inpcb rt free
<i>inpcb-tot-setsock-addr</i>	(Optional) inpcb set socket address
<i>inpcb-tot-setpeeraddr</i>	(Optional) inpcb set peer address
<i>inpcb-tot-notify</i>	(Optional) inpcb notify
<i>inpcb-tot-lookup-npacl-deny</i>	(Optional) inpcb lookup hash npacl deny
<i>inpcb-tot-lookup-npacl-allow</i>	(Optional) inpcb lookup npacl allow
<i>inpcb-tot-inshash-ipv4</i>	(Optional) inpcb inshash ipv4
<i>inpcb-tot-inshash-ipv6</i>	(Optional) inpcb inshash ipv6
<i>inpcb-tot-brehash-ipv4</i>	(Optional) inpcb brehash ipv4

<i>inpcb-tot-brehash-ipv6</i>	(Optional) inpcb brehash ipv6
<i>inpcb-tot-bremhash</i>	(Optional) inpcb brehash
<i>inpcb-err-allocnomem</i>	(Optional) inpcb allocation no memory error
<i>inpcb-err-bindeinavl</i>	(Optional) inpcb bind einval error
<i>inpcb-err-eaddrinuse</i>	(Optional) inpcb eaddr in use error
<i>inpcb-err-eagain</i>	(Optional) inpcb eagain error
<i>inpcb-err-eagain2</i>	(Optional) inpcb eagain2 error
<i>inpcb-err-eaddrnotavail</i>	(Optional) inpcb eaddr not availableerror
<i>inpcb-err-eafnosupport</i>	(Optional) inpcb eaf no support error
<i>inpcb-err-enomem</i>	(Optional) inpcb no-memory error
<i>inpcb-err-ehostunreach</i>	(Optional) inpcb ehost unreachable error
<i>inpcb-err-laddr-enxio</i>	(Optional) inpcb laddr enxio error
<i>inpcb-err-laddr-ehostunreach2</i>	(Optional) inpcb laddr ehost unreachable2 error
<i>inpcb-err-connectladdr</i>	(Optional) inpcb connect laddr error
<i>inpcb-err-connect-eaddrinuse</i>	(Optional) inpcb connect eaddress in use error
<i>inpcb-err-connbind</i>	(Optional) inpcb connect bind error
<i>inpcb-err-sockaddrenomem</i>	(Optional) inpcb socket address no memory error
<i>inpcb-err-sockadreconnreset</i>	(Optional) inpcb socket address econnect reset error
<i>inpcb-err-peeraddr-enomem</i>	(Optional) inpcb peer address no memory error
<i>inpcb-err-econnrest</i>	(Optional) inpcb connection rest error
<i>inpcb-err-respond-enobufs</i>	(Optional) inpcb respond no buffer error
<i>inpcb-err-binshash-enobufs</i>	(Optional) inpcb binshash no buffer error
<i>in6pcb-tot-setport</i>	(Optional) in6pcb set port error
<i>in6pcb-tot-bind</i>	(Optional) in6pcb bind
<i>in6pcb-tot-laddr</i>	(Optional) in6pcb laddr
<i>in6pcb-tot-connect</i>	(Optional) in6pcb connect
<i>in6pcb-tot-disconnect</i>	(Optional) in6pcb disconnect
<i>in6pcb-tot-detach</i>	(Optional) in6pcb detach
<i>in6pcb-tot-sockaddr</i>	(Optional) in6pcb socket address

<i>in6pcb-tot-peeraddr</i>	(Optional) in6pcb peer address
<i>in6pcb-tot-notify</i>	(Optional) in6pcb notify
<i>in6pcb-tot-lookuplocal</i>	(Optional) in6pcb lookup local
<i>in6pcb-tot-hashnpacl-deny</i>	(Optional) in6pcb hash npacl deny
<i>in6pcb-err-setporteagain</i>	(Optional) in6pcb set port again error
<i>in6pcb-err-setporteagain2</i>	(Optional) in6pcb set port again2 error
<i>in6pcb-err-seteagain3</i>	(Optional) in6pcb set port again3 error
<i>in6pcb-bind-eafnosupport</i>	(Optional) in6pcb bind eaf no support error
<i>in6pcb-err-bindeaddrinuse</i>	(Optional) in6pcb bind address in use error
<i>in6pcb-err-bindeaddrinuse2</i>	(Optional) in6pcb bind address in use2 error
<i>in6pcb-err-bindeaddrinuse3</i>	(Optional) in6pcb bind address in use3 error
<i>in6pcb-err-bindeaddrinuse4</i>	(Optional) in6pcb bind address in use4 error
<i>in6pcb-err-bindsetport</i>	(Optional) in6pcb bind setport error
<i>in6pcb-err-bindeagain</i>	(Optional) in6pcb bind again error
<i>in6pcb-err-laddr-eafnosupport</i>	(Optional) in6pcb laddr eaf no support error
<i>in6pcb-err-eaddrnotavail</i>	(Optional) in6pcb address not available error
<i>in6pcb-err-laddr-enomem</i>	(Optional) in6pcb laddr no memory error
<i>in6pcb-err-laddr-ehostreach</i>	(Optional) in6pcb laddr host reach error
<i>in6pcb-err-laddr-ehostunreach2</i>	(Optional) in6pcb laddr host reach2 error
<i>in6pcb-err-laddr-ehostunreach3</i>	(Optional) in6pcb laddr host reach3 error
<i>in6pcb-err-laddr-ehostunreach4</i>	(Optional) in6pcb laddr host reach4 error
<i>in6pcb-err-laddr-enxio</i>	(Optional) in6pcb laddr enxio error
<i>in6pcb-err-connladdr</i>	(Optional) in6pcb connect laddr error
<i>in6pcb-err-conneaddrinuse</i>	(Optional) in6pcb connect eaddress in use error
<i>in6pcb-err-connbind</i>	(Optional) in6pcb connect bind error
<i>in6pcb-err-sockaddr-enomem</i>	(Optional) in6pcb socket address no memory error
<i>in6pcb-err-v4maps-enomem</i>	(Optional) in6pcb v4maps no memory error
<i>in6pcb-err-setsock-noinp</i>	(Optional) in6pcb set socket noinp error
<i>in6pcb-err-setpeer-noinp</i>	(Optional) in6pcb set peer noinp error

<i>in6pcb-err-sockaddr-noinp</i>	(Optional) in6pcb socket address noinp error
<i>in6pcb-err-peeraddr-noinp</i>	(Optional) in6pcb peer address noinp error
<i>in6pcb-err-notify-einavl</i>	(Optional) in6pcb notify ingress available error
<i>in6pcb-err-ctloutput-nosoopt</i>	(Optional) in6pcb control output no socket opt error

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)
TABLE_keychain	(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> <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> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prest> ] ] } | { show spanning-tree [ vlan <vlan-id> |
bridge-domain <bd-id> ] { <verbosity> | active } + [ __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> <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> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prest> ] ] }
```

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
<u>__readonly__</u>	(Optional) Read Only

TABLE_tree	(Optional)
tree_id	(Optional) Tree Id
tree_tree_type	(Optional) Tree Type
tree_protocol	(Optional) Tree Protocol
port_count	(Optional) Number of Ports in Tree
bridge_mac	(Optional) Bridge Mac
bridge_priority	(Optional) Bridge Priority
tree_designated_root	(Optional) Designated Root Mac
tree_designated_root_priority	(Optional) Designated Root Priority
stp_active	(Optional) Spanning Tree State
root_path_cost	(Optional) Root Path Cost
root_port_if_index	(Optional) Root Port
root_port_priority	(Optional) Root Port Priority
root_port_number	(Optional) Root Port Number
topology_change	(Optional) Topology Change flag is set ?
topology_change_detected	(Optional) Topology Change detected flag is set ?
topology_change_count	(Optional) Topology Change Count
topology_change_time_since_last	(Optional) Time since last TC
tc_initiator_if_index	(Optional) Topology Change initiator port
max_age	(Optional) Max Age
hello_time	(Optional) Hello Time
forward_delay	(Optional) Forward delay
bridge_max_age	(Optional) Configured Bridge Max Age
bridge_hello_time	(Optional) Configured Hello Time
bridge_forward_delay	(Optional) Configured Forward Delay
hold_time	(Optional) Configured Hold Time
hello_timer	(Optional) Hello Timer Value
topology_change_timer	(Optional) Topology Change Timer Value
tcn_timer	(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 memembr of MCT/VPC PO
<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_protocol</i>	(Optional) Tree Protocol
<i>port_tree_type</i>	(Optional) Tree Type
<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>bpdus_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 blockedports

```
{ show spanning-tree [ vlan <vlan-id> ] blockedports [ __readonly__ [ TABLE_tree [ <port_info_tree_id> ]
[ TABLE_port [ <if_index> ] ] ] [ <tree_type> ] [ <num_ports> ] ] }
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
__readonly__	(Optional)
TABLE_tree	(Optional)
<i>port_info_tree_id</i>	(Optional) Tree name
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Port name
<i>tree_type</i>	(Optional) Tree Type
<i>num_ports</i>	(Optional) Number of Ports
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
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 ] ] [ __readonly__
{ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <bridge_mac> <bridge_priority>
<bridge_forward_delay> <bridge_max_age> <bridge_hello_time> } ] } | { show spanning-tree [ vlan <vlan-id>
| bridge-domain <bd-id> ] bridge [ { detail | brief } ] [ __readonly__ { TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <bridge_mac> <bridge_priority> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> } ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ { address
| forward-time | hello-time | id | max-age | protocol } ] [ __readonly__ { TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <bridge_mac> <bridge_priority> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> } ] }
```

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
__readonly__	(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>bridge_mac</i>	(Optional) Bridge Mac
<i>bridge_priority</i>	(Optional) Bridge Priority
<i>bridge_forward_delay</i>	(Optional) Configured Forward Delay
<i>bridge_max_age</i>	(Optional) Configured Bridge Max Age
<i>bridge_hello_time</i>	(Optional) Configured Hello Time

Command Mode

- /exec

show spanning-tree inconsistentports

```
{ show spanning-tree [ vlan <vlan-id> ] inconsistentports [ __readonly__ [ TABLE_tree <port_info_tree_id>
<if_index> <inconsistency> ] [ <tree_type> ] [ <num_ports> ] ] }
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
inconsistentports	Show inconsistent ports
<i>__readonly__</i>	(Optional)
TABLE_tree	(Optional)
<i>port_info_tree_id</i>	(Optional) Tree name
<i>if_index</i>	(Optional) Port name
<i>inconsistency</i>	(Optional) Inconsistency type
<i>tree_type</i>	(Optional) Tree Type
<i>num_ports</i>	(Optional) Number of Ports

Command Mode

- /exec

show spanning-tree interface

```
{ show spanning-tree [ vlan <vlan-id> ] interface <interface-id> { cost | inconsistency | edge | priority | rootcost
| state } [ __readonly__ [ TABLE_vlan_interface_info <tree_name> [ <cost> ] [ <edge> ] [ <inconsistency>
] [ <priority> ] [ <rootcost> ] [ <state> ] ] ] }
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
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
<i>__readonly__</i>	(Optional)
TABLE_vlan_interface_info	(Optional)
<i>tree_name</i>	(Optional) Spanning tree name
<i>cost</i>	(Optional) Path cost
<i>edge</i>	(Optional) Portfast enabled or not
<i>inconsistency</i>	(Optional) Port inconsistency
<i>priority</i>	(Optional) Port Priority
<i>rootcost</i>	(Optional) Designated Cost
<i>state</i>	(Optional) Port state

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> [ <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> <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> <oper_networkport> <forward_delay_timer> <hold_timer> <message_age>
<peer> <dispute> <pvstsim_inc_timer> [ <boundary> ] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestd>
] ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> { <verbosity>
| active } + [ __readonly__ { 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> <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> <oper_networkport>
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestd> ] ] }
```

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
<i>__readonly__</i>	(Optional) Read Only
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>vpc</i>	(Optional) STP Port member of MCT/VPC PO
<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_protocol</i>	(Optional) Tree Protocol
<i>port_tree_type</i>	(Optional) Tree Type
<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 issu-impact

```
show spanning-tree issu-impact [ __readonly__ [ TABLE_topology <tc_detected> <tc_name> <no_of_tc>
<time> <tc_string> ] [ TABLE_BA_ports <port_name> ] [ <criteria1> ] [ <criteria2> ] [
TABLE_non_edge_ports <port> <vlan> <role> <sts> <tree> <instance> ] [ <criteria3> ] ]
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
issu-impact	Show whether STP meets ISSU criteria
<i>__readonly__</i>	(Optional)
<i>TABLE_topology</i>	(Optional)
<i>tc_detected</i>	(Optional)
<i>tc_name</i>	(Optional)
<i>no_of_tc</i>	(Optional)
<i>time</i>	(Optional)
<i>tc_string</i>	(Optional)
<i>TABLE_BA_ports</i>	(Optional)
<i>port_name</i>	(Optional)
<i>TABLE_non_edge_ports</i>	(Optional)
<i>port</i>	(Optional)
<i>vlan</i>	(Optional)
<i>role</i>	(Optional)
<i>sts</i>	(Optional)
<i>tree</i>	(Optional)
<i>instance</i>	(Optional)
<i>criteria1</i>	(Optional)
<i>criteria2</i>	(Optional)
<i>criteria3</i>	(Optional)

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_cfg> ] <simulate_pvst> <prestd> [ <designated_ist_master> ] [
<designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] ] } | { show spanning-tree mst
[ <mst-id> ] detail [ __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_cfg> ] <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
detail	Detailed information
<u>__readonly__</u>	(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>bpdus_in</i>	(Optional) BPDUs received on this stp port
<i>bpdus_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 ?
<i>simulate_pvst_cfg</i>	(Optional) PVST Simulation configured on port

Command Mode

- /exec

show spanning-tree mst configuration

```
{ show spanning-tree mst configuration [ __readonly__ <stp-mode> <name> <rev-id> {
TABLE_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
TABLE_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 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> <bp dus_in> <bp dus_out> <port_fast> <link_type> <port_guard> <bp du_guard> <bp du_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> <prestd> [
<designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] ]
} | { show spanning-tree mst [ <mst-id> ] interface <interface-id> detail [ __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> <bp dus_in> <bp dus_out> <port_fast> <link_type> <port_guard> <bp du_guard> <bp du_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> <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
interface	Spanning Tree interface status and configuration
<i>interface-id</i>	Specify an interface as a target for the command
detail	Detailed information
__readonly__	(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
<i>simulate_pvst_cfg</i>	(Optional) PVST Simulation configured on port

Command Mode

- /exec

show spanning-tree pathcost method

```
{ show spanning-tree pathcost method [ __readonly__ <stp-pathcost-method> [ <stp-operpathcost-method>
]] }
```

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
pathcost	Show Spanning pathcost options
method	Default pathcost calculation method
<i>__readonly__</i>	(Optional)
<i>stp-pathcost-method</i>	(Optional) STP Pathcost Method
<i>stp-operpathcost-method</i>	(Optional) STP Pathcost Method

Command Mode

- /exec

show spanning-tree root

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ priority [ system-id ] ] [ __readonly__
TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <tree_designated_root>
<tree_designated_root_priority> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <max_age> <hello_time> <forward_delay> ] } | { show spanning-tree [ vlan <vlan-id>
| bridge-domain <bd-id> ] root [ { address | cost | forward-time | hello-time | id | max-age | port } ] [
__readonly__ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <tree_designated_root>
<tree_designated_root_priority> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <max_age> <hello_time> <forward_delay> ] } | { show spanning-tree [ vlan <vlan-id>
| bridge-domain <bd-id> ] root [ { detail | brief } ] [ __readonly__ TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <tree_designated_root> <tree_designated_root_priority> <root_path_cost>
<root_port_if_index> <root_port_priority> <root_port_number> <max_age> <hello_time> <forward_delay>
] } }
```

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
__readonly__	(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>tree_designated_root</i>	(Optional) Designated Root Mac
<i>tree_designated_root_priority</i>	(Optional) Designated Root Priority
<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>max_age</i>	(Optional) Max Age
<i>hello_time</i>	(Optional) Hello Time
<i>forward_delay</i>	(Optional) Forward delay

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>bpdguard</i>	(Optional) Bpdu Guard mode configured
<i>bpdfilter</i>	(Optional) Bpdu Filter mode configured
<i>operloopguard</i>	(Optional) Is loopguard enabled ?
<i>bridgeassurance</i>	(Optional) Bridge Assurance
<i>networkportdefault</i>	(Optional) Network Port default
<i>simulatepvst</i>	(Optional) Is port is pvst simulate mode ?
<i>maxhops</i>	(Optional) Max Hops
<i>peerswitchcfg</i>	(Optional) peer switch configuration status
<i>operpeerswitch</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_ssb <epld_name_ssb> <epld_ver_ssb> ] <port_type_num> { TABLE_sensor_ssb
<sensor_num_ssb> <maj_thres_ssb> <min_thres_ssb> } <max_connector_power> <cooling_req> <amb_temp>
} ] [ 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_lc
<epld_name_lc> <epld_ver_lc> ] <port_type_num> { TABLE_sensor_lc <sensor_num_lc> <maj_thres_lc>
<min_thres_lc> } <max_connector_power> <cooling_req> <amb_temp> } ] [ 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> { TABLE_wwn_usage_wsb <wwn_usage_bits> } } ] [ lic_specific_block {
<blk_sig_licb> <blk_ver_licb> <blk_length_licb> <blk_checksum_licb> { TABLE_lic_usage_lsb
<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> <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>eeeprom_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_ssb	(Optional)
<i>epld_name_ssb</i>	(Optional)
<i>epld_ver_ssb</i>	(Optional)
<i>port_type_num</i>	(Optional)
TABLE_sensor_ssb	(Optional)
<i>sensor_num_ssb</i>	(Optional)
<i>maj_thres_ssb</i>	(Optional)
<i>min_thres_ssb</i>	(Optional)
<i>max_connector_power</i>	(Optional)
<i>cooling_reqt</i>	(Optional)
<i>amb_temp</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_lc	(Optional)
<i>epld_name_lc</i>	(Optional)
<i>epld_ver_lc</i>	(Optional)
<i>port_type_num</i>	(Optional)
TABLE_sensor_lc	(Optional)
<i>sensor_num_lc</i>	(Optional)
<i>maj_thres_lc</i>	(Optional)
<i>min_thres_lc</i>	(Optional)
<i>max_connector_power</i>	(Optional)
<i>cooling_reqt</i>	(Optional)
<i>amb_temp</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)
TABLE_wwn_usage_wsb	(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)
TABLE_lic_usage_lsb	(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>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 srte pce ipv4 peer

```
show srte pce ipv4 peer [ <pce_address> ] [ __readonly__ [ TABLE_peer <pce_address> <pcc_address>
<precedence> <state> ] ]
```

Syntax Description

show	Show running system information
srte	Show Segment-Routing Traffic Eng commands
pce	Show PCC related information
ipv4	Show ipv4 pcc information
peer	Show PCE peers
<i>pce_address</i>	(Optional) PCE address of the peer
<i>__readonly__</i>	(Optional)
TABLE_peer	(Optional) Table with a list of peers
<i>pce_address</i>	(Optional) Address of the PCE
<i>pcc_address</i>	(Optional) Address of the PCC
<i>precedence</i>	(Optional) Configured precedence of the PCE
<i>state</i>	(Optional) State of the PCE connection

Command Mode

- /exec

show srte policy

```
show srte policy [ { <policy_name_val> } | { color <color_val> endpoint <end_point_val> } | { policy-id
<policy_id_val> } ] [ holddown ] [ detail ] [ __readonly__ [ TABLE_policy <policy_name> <source>
<end_point> <state> <col> <binding_label> <policy_id> [ <flags> ] [ <holddown_time> ] [ TABLE_pref
<pref> [ TABLE_paths { <exp_path_name> | <deleg_pce_addr> } [ TABLE_index <index> <label> ] ] ] ] ]
```

Syntax Description

show	Show running system information
srte	Show Segment-Routing Traffic Eng commands
policy	Show existing policies
color	(Optional) Show policies with the color
endpoint	(Optional) Show Policies with the destination
<i>end_point_val</i>	(Optional) Endpoint for the policy
<i>policy_name_val</i>	(Optional) Policy name of the policy
<i>color_val</i>	(Optional) Color of the policy
<i>policy_id_val</i>	(Optional) Policy_id of the policy
policy-id	(Optional) Show Policy for the policy-id
holddown	(Optional) Show Policies that are in holddown
detail	(Optional) Display detailed information
__readonly__	(Optional)
TABLE_policy	(Optional) Table with a list of policies
<i>policy_name</i>	(Optional) Unique name for the policy
<i>end_point</i>	(Optional) Endpoint for the policy
<i>source</i>	(Optional) Source address of the policy
<i>state</i>	(Optional) State of the policy
<i>col</i>	(Optional) Color of the policy
<i>binding_label</i>	(Optional) Binding label of the policy
<i>policy_id</i>	(Optional) Policy ID
<i>flags</i>	(Optional) Policy Flags
<i>holddown_time</i>	(Optional) Time when the policy was put in holddown

TABLE_pref	(Optional) Table with a list of candidate path based on pref
<i>pref</i>	(Optional) Preference for candidate paths
TABLE_paths	(Optional) Table with a list of exp path for pref
<i>exp_path_name</i>	(Optional) Name of the explicit-path
<i>deleg_pce_addr</i>	(Optional) Delegated PCE Address
TABLE_index	(Optional) Table with a list of index for the exp path
<i>index</i>	(Optional) Index for the explicit path
<i>label</i>	(Optional) Label for the explicit path

Command Mode

- /exec

show srte policy fh

```
show srte policy fh [ __readonly__ [ TABLE_fh [ <label> <type> <state> ] [ TABLE_index [ <index>
<ip_addr> <mask_len> ] ] ] ]
```

Syntax Description

show	Show running system information
srte	Show Segment-Routing Traffic Eng commands
policy	Show existing policies
fh	Show existing policies firsthop state
__readonly__	(Optional)
TABLE_fh	(Optional) Table with a list of first hops
<i>label</i>	(Optional) First hop label
<i>type</i>	(Optional) First hop type
<i>state</i>	(Optional) First hop state
TABLE_index	(Optional) Table with index for the first hop
<i>index</i>	(Optional) Index for the first hop
<i>ip_addr</i>	(Optional) Monitored address
<i>mask_len</i>	(Optional) Mask length

Command Mode

- /exec

show ssh key

```
show ssh key [ { dsa [ md5 ] | rsa [ md5 ] | ecdsa [ [ 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
ecdsa	(Optional) Show ecdsa 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 ssx details

```
show ssx details [ __readonly__ [ TABLE_ssx_details  
<system-id><arp-timer-running><asic-instance><asic-slice><io-srcid> [ <packets-sent> ] ] ]
```

Syntax Description

ssx	Display SSX information
details	Show SSX details
__readonly__	(Optional) Read Only
TABLE_ssx_details	(Optional) SSX details table

Command Mode

- /exec

show ssx exporter

```
show ssx exporter { all | <exportername> } [ __readonly__ [ TABLE_ssx_exporters <exporter-name>
<src-ip><src-udp-port><dest-ip><dest-udp-port><vrf><mtu><dscp> ] ]
```

Syntax Description

ssx	Display SSX information
exporter	Show exporter details
all	All sessions
<i>exportername</i>	SSX Exporter to display
__readonly__	(Optional) Read Only
TABLE_ssx_exporters	(Optional) SSX Exporters table

Command Mode

- /exec

show ssx monitor

```
show ssx monitor { all | <monitorname> } [ __readonly__ [ TABLE_ssx_monitors <monitor-name>
<globally-applied><status><exportername><recordname> ] ]
```

Syntax Description

ssx	Display SSX information
monitor	Show monitor details
all	All sessions
<i>monitorname</i>	SSX Monitor to display
__readonly__	(Optional) Read Only
TABLE_ssx_monitors	(Optional) SSX monitors table

Command Mode

- /exec

show ssx record

```
show ssx record { all | <recordname> } [ __readonly__ [ TABLE_ssx_records <record-name> [
TABLE_stats_type <stats-type> ] <interval> ] ]
```

Syntax Description

ssx	Display SSX information
record	Show record details
all	All sessions
<i>recordname</i>	SSX Record to display
__readonly__	(Optional) Read Only
TABLE_ssx_records	(Optional) SSX records table
TABLE_stats_type	(Optional) SSX records stats type table
<i>interval</i>	(Optional) SSX interval

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 analytics

show startup-config { analytics | nfm } [all]

Syntax Description

show	Show system information
startup-config	System startup configuration
analytics	Show analytics configuration
nfm	Show NFM configuration
all	(Optional) Show NFM config with defaults

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 assoc

show startup-config assoc [all]

Syntax Description

show	Show running system information
startup-config	Current saved configuration
assoc	Original ID to Translated ID Association
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config backup

show startup-config { backup | flexlink } [all]

Syntax Description

show	Show running system information
startup-config	System startup-config commands
backup	Show startup config for Switchport Backup
flexlink	Show startup config for Switchport Backup
all	(Optional) Show config with defaults

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 catena

show startup-config catena

Syntax Description

show	Show system information
startup-config	System startup configuration
catena	startup config for feature CATENA

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 ecp

show startup-config ecp [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
ecp	ECP (Edge Control Protocol)
all	(Optional) Display startup config with defaults

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 fabric multicast

show startup-config fabric multicast [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
fabric	Fabric
multicast	Multicast information
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 fcoe_mgr

show startup-config fcoe_mgr

Syntax Description

show	show startup-cfg
startup-config	show startup system information
fcoe_mgr	Display fcoe_mgr configuration

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 hardware-telemetry

show startup-config hardware-telemetry [all]

Syntax Description

show	Show system information
startup-config	Current startup configuration
hardware-telemetry	show startup config for hardware-telemetry
all	(Optional) show running config with defaults

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 icam

show startup-config icam

Syntax Description

show	show startup-cfg
startup-config	show startup system information
icam	icam services

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 imp

show startup-config imp [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
imp	Display imp information
all	(Optional) Display start config with defaults clis

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 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 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	MPLS information
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 mts

show startup-config mts

Syntax Description

show	Show system information
startup-config	Show startup system information
mts	Display mts configuration

Command Mode

- /exec

show startup-config nat

show startup-config nat [all]

Syntax Description

show	Show system information
startup-config	Display the startup configuration
nat	show startup config for nat
all	(Optional) show startup config with defaults

Command Mode

- /exec

show startup-config nbm

show startup-config nbm

Syntax Description

show	Show running system information
startup-config	Current startup configuration
nbm	Non Blocking Multicast

Command Mode

- /exec

show startup-config netflow

```
show startup-config { netflow | nfm } [ all ]
```

Syntax Description

show	Show system information
startup-config	System startup configuration
netflow	Show NetFlow configuration
nfm	Show NFM configuration
all	(Optional) Show NFM config with defaults

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 openflow

show startup-config openflow [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
openflow	Show startup config for OpenFlow
all	(Optional) Show startup 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 plb-services

show startup-config plb-services

Syntax Description

show	show startup-cfg
startup-config	show startup system information
plb-services	PLB services

Command Mode

- /exec

show startup-config poe

show startup-config poe [all]

Syntax Description

show	Show running system information
startup-config	Current saved configuration
poe	Power over Ethernet
all	(Optional) show startup config with defaults

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

show	show system information
startup-config	show startup system information
ptp	Show startup configuration for ptp
all	(Optional) Show startup configuration for PTP 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 scheduler

show startup-config scheduler [all]

Syntax Description

show	show startup-cfg
startup-config	show system startup configuration information
scheduler	Show scheduler config or data
all	(Optional) show startup config with defaults

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 segment-routing

show startup-config segment-routing [all]

Syntax Description

show	Show running system information
startup-config	Show startup configuration
segment-routing	Display segment-routing startup configuration
all	(Optional) Show startup config with defaults

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

show	Show system information
startup-config	Current startup configuration
sflow	show startup config for sflow
all	(Optional) show running config with defaults

Command Mode

- /exec

show startup-config sla responder

show startup-config sla responder

Syntax Description

show	show startup-cfg
startup-config	show startup system information
sla	Service Level Agreement (SLA)
responder	Show information about sla-responder

Command Mode

- /exec

show startup-config sla sender

show startup-config sla sender

Syntax Description

show	show startup-cfg
startup-config	show startup system information
sla	Service Level Agreement (SLA)
sender	Show information about sla-sender

Command Mode

- /exec

show startup-config sla twamp-server

show startup-config sla twamp-server

Syntax Description

show	show startup-cfg
startup-config	show startup system information
sla	Service Level Agreement (SLA)
twamp-server	Show information about twamp-server

Command Mode

- /exec

show startup-config smart-channel

show startup-config smart-channel

Syntax Description

show	show startup-cfg
startup-config	show startup system information
smart-channel	smart-channel services

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 srte

show startup-config srte

Syntax Description

show	Show running system information
startup-config	Current operating configuration
srte	SRTE

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 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 startup-config wwnm

show startup-config wwnm

Syntax Description

show	Show running system information
startup-config	Current startup configuration
wwnm	Display WWN Manager startup configuration

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> [ TABLE_commands <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
<i>__readonly__</i>	(Optional)
<i>prof-name</i>	(Optional)
TABLE_commands	(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> } {
TABLE_swtdmoduinfo <moduleno> <opmode> } ]
```

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
TABLE_swtdmoduinfo	(Optional) the xml switching module information
<i>moduleno</i>	(Optional) Module Number
<i>opmode</i>	(Optional) Operation Mode

Command Mode

- /exec

show switching-mode fabric-speed

```
show switching-mode fabric-speed [ __readonly__ TABLE_switching_mode_fabric_speed <fabric-speed-desc> ]
```

Syntax Description

show	Show running system information
switching-mode	Show the operating switching mode
fabric-speed	Show the fabric speed
__readonly__	(Optional)
TABLE_switching_mode_fabric_speed	(Optional) the xml switching_mode_fabric_speed configuration
<i>fabric-speed-desc</i>	(Optional) fabric speed description

Command Mode

- /exec

show system acl

```
show system acl [ __readonly__ TABLE_system_acl <protocol> [ TABLE_type <type> <acl_name> <inout> ] ]
```

Syntax Description

show	Show running system information
system	System management commands
acl	ACL parameters
__readonly__	(Optional)
TABLE_system_acl	(Optional)
<i>protocol</i>	(Optional) protocol
TABLE_type	(Optional)
<i>type</i>	(Optional) type
<i>acl_name</i>	(Optional)
<i>inout</i>	(Optional) Traffic direction

Command Mode

- /exec

show system auto-collect tech-support

show system auto-collect tech-support [__readonly__ <result>]

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
__readonly__	(Optional)
<i>result</i>	(Optional) show tech collection enable status

Command Mode

- /exec

show system boottime

```
show system boottime [ __readonly__ { TABLE_uptimeinf <slot> <starttime> <daysup> <hoursup>
<minutesup> <secondsup> } ]
```

Syntax Description

<code>show</code>	Show running system information
<code>system</code>	System-related show commands
<code>boottime</code>	Show platform boot time of each module
<code>__readonly__</code>	(Optional)
<code>TABLE_uptimeinf</code>	(Optional) Show uptime info
<code>slot</code>	(Optional) Slot
<code>starttime</code>	(Optional) Start Time
<code>daysup</code>	(Optional) Days Up
<code>hoursup</code>	(Optional) Hours Up
<code>minutesup</code>	(Optional) Minutes Up
<code>secondsup</code>	(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 | nvdb-errors | init-log }

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
nvdb-errors	Log of NVDB and PSS events errors
init-log	Log of CLI service bringup

Command Mode

- /exec

show system config reload-pending

```
show system config reload-pending [ __readonly__ { TABLE_reload_pending <cmds_list> } ]
```

Syntax Description

show	Show running system information
system	System-related show commands
config	Config commands which require reload
reload-pending	Commands which require a reload
__readonly__	(Optional)
TABLE_reload_pending	(Optional) reload pending commands list
cmds_list	(Optional) cmds_list

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 default switchport

```
show system default switchport [ __readonly__ <sys_def_port_state> <sys_def_trunk_mode>
<sys_def_link_fail_syslog_level> <sys_def_tx_credit_queue_type> ]
```

Syntax Description

show	Show running system information
<i>__readonly__</i>	(Optional) read only
<i>sys_def_port_state</i>	(Optional) System default port state
<i>sys_def_trunk_mode</i>	(Optional) System default trunk mode
<i>sys_def_link_fail_syslog_level</i>	(Optional) System default link failure syslog logging level
<i>sys_def_tx_credit_queue_type</i>	(Optional) System default tx credit queue type
system	System-related show commands
default	Show system default values
switchport	Show default values for switchport attributes

Command Mode

- /exec

show system dme status

show system dme status [__readonly__ <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
__readonly__	(Optional)
<i>dme-status</i>	(Optional) DME enable/disable status

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 [ __readonly__ { TABLE_exception { <second> <panic_data> <register_data>
<stack_pointer> <stack_depth> <stack_timestamp> <stacl_magic> <hdr_length> <stack_data> <pre_usec>
<pre_sec> <int_t> <reason> <service> <version> } } ]
```

Syntax Description

show	Show running system information
system	System-related show commands
exception-info	Show last exception log information
__readonly__	(Optional)
TABLE_exception	(Optional)
<i>second</i>	(Optional) Time of exception
<i>panic_data</i>	(Optional) Panic information dump
<i>register_data</i>	(Optional) CPU register dump
<i>stack_pointer</i>	(Optional) Current Stack-pointer
<i>stack_depth</i>	(Optional) Current Stack-depth
<i>stack_timestamp</i>	(Optional) Stack dump timestamp
<i>stacl_magic</i>	(Optional) Stack Magic
<i>hdr_length</i>	(Optional) Hdr length
<i>stack_data</i>	(Optional) Stack Dump
<i>pre_usec</i>	(Optional)
<i>pre_sec</i>	(Optional)
<i>int_t</i>	(Optional)
<i>reason</i>	(Optional) Reason
<i>service</i>	(Optional) Service
<i>version</i>	(Optional) Version

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
__readonly__	(Optional)
TABLE_system_fabric_mode	(Optional) the xml system_fabric_mode 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 [__readonly__ { <timer_val> }]

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
__readonly__	(Optional) Read Only
<i>timer_val</i>	(Optional) XML attribute for timer value

Command Mode

- /exec

show system image-verification

```
show system image-verification [ __readonly__ { [ TABLE_system_image_verification <Str1> ] } ]
```

Syntax Description

show	Show running system information
system	Show system information
image-verification	image signature verification status
__readonly__	(Optional)
TABLE_system_image_verification	(Optional) table for image verification
<i>Str1</i>	(Optional) status of image verification

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>pmnoproduct</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>ipmnooproduct</i>	(Optional) Queue no drop

Command Mode

- /exec

show system inband queuing status

```
show system inband queuing status [ __readonly__ [ { TABLE_sys_inband_queue_status <pminbandalgo>
<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>pminbandalgo</i>	(Optional) Queuing Algorithm
<i>pminbandweigh0</i>	(Optional) BPDU Weight
<i>pminbandweigh1</i>	(Optional) Q0 Weight
<i>pminbandweigh2</i>	(Optional) Q1 Weight

Command Mode

- /exec

show system login

```
show system login [ __readonly__ [ [ <acc_list> ] [ <attempts> ] ] [ <within> <block_for> <time> ] [ <fail_count> ] [ <switch_mode> ] ]
```

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-enble login
<i>fail_count</i>	(Optional) Login failure count
<i>switch_mode</i>	(Optional) Mode of operation

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)
TABLE_loginStats	(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__ [ current_active_vlan <active_vlan_output> ] { available_infra_vlan
<available_vlan_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
<i>__readonly__</i>	(Optional)
<i>current_active_vlan</i>	(Optional) Current Active Infra Vlan
<i>active_vlan_output</i>	(Optional) Current active infra vlan output
<i>available_infra_vlan</i>	(Optional) Available Infra Vlan
<i>available_vlan_output</i>	(Optional) Available Infra Vlan output

Command Mode

- /exec

show system poap

```
show system poap [ __readonly__ { [ TABLE_show_system_poap <Str1> ] } ]
```

Syntax Description

show	Show running system information
system	Show system information
poap	Show information related to POAP
__readonly__	(Optional)
TABLE_show_system_poap	(Optional) table for poap
<i>Str1</i>	(Optional) status of poap

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 <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

```
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
<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 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 <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

```
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

show	Show running system information
system	System-related show commands
resources	Show system resources
<i>__readonly__</i>	(Optional)
TABLE_cpu_usage	(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 all-modules

```
show system resources all-modules [ __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

show	Show running system information
system	System-related show commands
resources	Show system resources
all-modules	Show system resources for all available modules
__readonly__	(Optional)
TABLE_cpu_usage	(Optional) All Cpu Usage Information
load_avg_1min	(Optional) Load Average 1 Min
load_avg_5min	(Optional) Load Average 5 Min
load_avg_15min	(Optional) Load Average 15 Min
processes_total	(Optional) Total processes
processes_running	(Optional) Running Processes
cpu_state_user	(Optional) CPU State User
cpu_state_kernel	(Optional) CPU State Kernel
cpu_state_idle	(Optional) CPU State Idle
cpuid	(Optional) CPU id
user	(Optional) user time
kernel	(Optional) kernel time
idle	(Optional) idle time
memory_usage_total	(Optional) Memory Usage Total
memory_usage_used	(Optional) Memory Usage Used
memory_usage_free	(Optional) Memory Usage Free
current_memory_status	(Optional) Current Memory Status

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 [ __readonly__ { TABLE_cpuinfo <sts_msg1> <cpu_5sec>
<cpu_1min> <cpu_5min> } { TABLE_meminfo <sts_msg2> <mem_module> <mem_total> <mem_free>
<mem_used> } ]
```

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
<code>__readonly__</code>	(Optional)
TABLE_cpuinfo	(Optional)
<i>sts_msg1</i>	(Optional)
<i>cpu_5sec</i>	(Optional)
<i>cpu_1min</i>	(Optional)
<i>cpu_5min</i>	(Optional)
TABLE_meminfo	(Optional)
<i>sts_msg2</i>	(Optional)
<i>mem_module</i>	(Optional)
<i>mem_total</i>	(Optional)
<i>mem_free</i>	(Optional)
<i>mem_used</i>	(Optional)

Command Mode

- /exec

show system routing mode

```
show system routing mode [ __readonly__ TABLE_system_routing_mode { [ <configured-sys-routing-mode>
] [ <applied-sys-routing-mode> ] [ <svi-hardware-flood-mode> ] [ <routing-perf-mode> ] [
<mrouting-perf-mode> ] } ]
```

Syntax Description

show	Show running system information
system	Show system information
routing	Show routing related information
mode	Show mode related information
__readonly__	(Optional)
TABLE_system_routing_mode	(Optional) the xml system_routing_mode configuration
<i>configured-sys-routing-mode</i>	(Optional) Configured system routing mode description
<i>applied-sys-routing-mode</i>	(Optional) Applied system routing mode description
<i>svi-hardware-flood-mode</i>	(Optional) Configured SVI hardware flood mode description
<i>routing-perf-mode</i>	(Optional) Applied System Routing Performance Mode description
<i>mrouting-perf-mode</i>	(Optional) Applied System Mrouting Performance Mode

Command Mode

- /exec

show system security

```
show system security [ common-criteria ] [ __readonly__ { [ <common_criteria_o_status> ] } ]
```

Syntax Description

show	Show running system information
system	System Management commands
security	Security Management commands
common-criteria	(Optional) Show if common-criteria mode is enabled or disabled
__readonly__	(Optional)
<i>common_criteria_o_status</i>	(Optional) operational status of common-criteria

Command Mode

- /exec

show system simulate fan-presence

show system simulate fan-presence

Syntax Description

show	Show running system information
system	System management commands
simulate	Simulate Fan Presence
fan-presence	Simulate Fan Presence

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 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> ] } [
__readonly__ { <return> <verify_result> <protection_status> } ]
```

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
<i>__readonly__</i>	(Optional)
<i>return</i>	(Optional)
<i>verify_result</i>	(Optional)
<i>protection_status</i>	(Optional)

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



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show table-map

```
show table-map [ <imap-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> } ] [ <tac_port> ] [ <tac_shared_key> ] [ <time_out> ] [ <conn_type> ] [ <tac_idle_time> ] [ <test_user_name> ] <test_pwd> ]
```

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>tac_port</i>	(Optional) TACACS+ server port
<i>tac_shared_key</i>	(Optional) TACACS+ shared secret
<i>time_out</i>	(Optional) radius server timeout
<i>conn_type</i>	(Optional) TACACS+ connection type
<i>test_user_name</i>	(Optional) User name in test packets
<i>test_pwd</i>	(Optional) User password in test packets
<i>tac_idle_time</i>	(Optional) Time interval for monitoring the server

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

show tech-support all [space-optimized] [time-optimized]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
all	Gather detailed information for troubleshooting
space-optimized	(Optional) Gather tech-support info. using less memory and disk space
time-optimized	(Optional) Gather tech-support faster, requires more memory and disk space

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 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 assoc_mgr

show tech-support assoc_mgr

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
assoc_mgr	Gather detailed information for assoc_mgr troubleshooting

Command Mode

- /exec

show tech-support backup

```
show tech-support { backup | flexlink }
```

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
backup	Gather detailed information for Switchport Backup troubleshooting
flexlink	Gather detailed information for Switchport Backup troubleshooting

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] [time-optimized] [debug-enable]

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
time-optimized	(Optional) Gather tech-support faster, requires more memory and disk space
debug-enable	(Optional) Hidden option enable debugging

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 ecp

show tech-support ecp

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ecp	ECP (Edge Control Protocol)

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 ethport

show tech-support ethport

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ethport	Gather detailed information for ETHPORT 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 fabric multicast

show tech-support fabric multicast

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fabric	Fabric
multicast	Multicast information

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 fc2

show tech-support fc2 [commands]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fc2	Show information for fc2 technical support
commands	(Optional) Show commands run as part of fc2 technical support

Command Mode

- /exec

show tech-support fcoe

show tech-support fcoe

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
fcoe	Gather information for FCOE mgr trouble shooting

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>] [list]

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
list	(Optional) list the commands, without executing them

Command Mode

- /exec

show tech-support forwarding l3 unicast detail

show tech-support forwarding l3 unicast detail [module <module>] [list]

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
list	(Optional) list the commands, without executing them

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>] [evpn]

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
evpn	(Optional) evpn related tech support

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 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_short

show tech-support ha_short [commands]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ha_short	Gather shortened version of HA tech-support for troubleshooting
commands	(Optional) Show commands executed as part of show tech-support ha commands

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 hardware-telemetry

show tech-support hardware-telemetry

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
hardware-telemetry	Hardware Telemetry Information

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 icam

show tech-support icam [detail]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
icam	icam - TCAM Analytics
detail	(Optional) Show more details

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 imp

show tech-support imp

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
imp	IMP commands

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 mld

show tech-support ipv6 mld [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ipv6	Display IPv6 information
mld	Display Multicast Listener Discovery 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 macsec detail

show tech-support macsec detail [module <module>]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
macsec	macsec debug info
detail	All info related to MACsec
module	(Optional) Slot number
<i>module</i>	(Optional) Module Number

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 nbm group

show tech-support nbm group <grp> [source <src>] [vrf { <vrf-name> | <nbm-vrf-known-name> | all }]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble-shooting
nbm	Non Blocking Multicast
group	Multicast group
<i>grp</i>	Multicast group address
source	(Optional) Source IP address
<i>src</i>	(Optional) Source unicast IP address
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>nbm-vrf-known-name</i>	(Optional) NBM VRF Name

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 npv

show tech-support npv

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
npv	Show information for NPV technical support staff

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 nxapi

show tech-support nxapi

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
nxapi	Gather detailed information for nxapi troubleshooting

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

show tech-support object-store

Syntax Description

show	Show Object Store
tech-support	Gather information for troubleshooting
object-store	Gather information from object store for Controller troubleshooting

Command Mode

- /exec

show tech-support openflow

show tech-support openflow [brief | detailed]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
openflow	Show tech support for OpenFlow
brief	(Optional) Brief information
detailed	(Optional) Detailed information

Command Mode

- /exec

show tech-support openflow platform

show tech-support openflow platform

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
openflow	openflow component
platform	openflow platform components

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 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 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 plb-services

show tech-support plb-services [detail]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
plb-services	PLB Services
detail	(Optional) Show more details

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 pnp

show tech-support pnp

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
pnp	Show Technical support for Plug and Play

Command Mode

- /exec

show tech-support poe

show tech-support poe

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
poe	Gather information for PoE trouble shooting

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 san-port-channel

show tech-support san-port-channel

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
san-port-channel	Gather detailed information for san port channel troubleshooting

Command Mode

- /exec

show tech-support san

show tech-support san

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
san	Gather information for SAN trouble shooting

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 segment-routing

show tech-support segment-routing

Syntax Description

show	Show running system information
tech-support	Gather tech-support information
segment-routing	Segment-routing tech-support

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 sla twamp-server

show tech-support sla twamp-server [brief | detail]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
sla	Service Level Agreement (SLA)
twamp-server	Configure sla-twamp-server tech support
brief	(Optional) Show less details
detail	(Optional) Show more details

Command Mode

- /exec

show tech-support smartc

show tech-support smartc [detail]

Syntax Description

show	Show running system information
tech-support	Gather information for trouble shooting
smartc	smartc channel services
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 srte

show tech-support srte

Syntax Description

show	Show running system information
tech-support	Gather SRTE information
srte	Segment-Routing Traffic Eng

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 u2rib

show tech-support u2rib

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
u2rib	Gather detailed information for U2RIB troubleshooting

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 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 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 vsan

show tech-support vsan [<i>i0</i> | commands]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vsan	Gather detailed information for vsan troubleshooting
<i>i0</i>	(Optional) VSAN id range
commands	(Optional) Show commands run as part of vsan technical support

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 vvlan

show tech-support vvlan

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
vvlan	Gather detailed information for Voice VLAN 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 tech-support
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 tech-support xos

show tech-support xos [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
xos	Cross-OS Library Information and Traces
brief	(Optional) Brief information

Command Mode

- /exec

show telemetry control database

```

show telemetry control { database [ subscriptions | destination-groups | destinations | sensor-paths | sensor-groups
] | stats } [ __readonly__ [ <subscription_db_size> ] [ { TABLE_subscriptions <subscription_id>
<data_collector_type> } ] [ <sensor_grp_db_size> ] [ { TABLE_sensor_grp <snsr_grp_row_idx> <snsr_grp_id>
<snsr_grp_type> <snsr_grp_collector_type> <snsr_grp_timer_interval> <snsr_grp_timer_status>
<snsr_grp_sub_count> <snsr_grp_sub_id> <snsr_grp_dc_cur_time> <snsr_grp_dc_min_time>
<snsr_grp_dc_max_time> <snsr_grp_enc_cur_time> <snsr_grp_enc_min_time> <snsr_grp_enc_max_time>
<snsr_grp_trans_cur_time> <snsr_grp_trans_min_time> <snsr_grp_trans_max_time>
<snsr_grp_stream_cur_time> <snsr_grp_stream_min_time> <snsr_grp_stream_max_time>
<snsr_grp_stream_col_id_drop> <snsr_grp_stream_last_col_id_drop> <snsr_grp_stream_col_drop> } ] [
<sensor_path_db_size> ] [ { TABLE_sensor_path <path_row_idx> <path_subscribed> <path_group_count>
<path_secondary_group_count> <path_level> <path_name> <path_grp_id> <path_query_condition>
<path_filter_condition> <path_gpb_cur_enc_size> <path_gpb_min_enc_size> <path_gpb_max_enc_size>
<path_json_cur_enc_size> <path_json_min_enc_size> <path_json_max_enc_size> <path_dc_cur_time>
<path_dc_min_time> <path_dc_max_time> <path_enc_cur_time> <path_enc_min_time>
<path_enc_max_time> <path_trans_cur_time> <path_trans_min_time> <path_trans_max_time>
<path_stream_cur_time> <path_stream_min_time> <path_stream_max_time> } ] [
<destination_group_db_size> ] [ <destination_group_use_vrf> ] [ { TABLE_destination_group
<destination_group_id> <destination_group_refcount> } ] [ <destination_db_size> ] [ { TABLE_destinations
<destination_ip> <destination_port> <destination_encoding> <destination_transport> <destination_refcount>
} ] [ db_statistics <chunk_alloc_fail> <sensor_path_chunk_create_fail> <sensor_group_chunk_create_fail>
<destination_chunk_create_fail> <destination_group_chunk_create_fail> <subscription_chunk_create_fail>
<sensor_path_db_create_fail> <sensor_group_db_create_fail> <destination_db_create_fail>
<destination_group_db_create_fail> <subscription_db_create_fail> <sensor_path_db_insert_fail>
<sensor_group_db_insert_fail> <destination_db_insert_fail> <destination_group_db_insert_fail>
<subscription_db_insert_fail> <sensor_path_db_delete_fail> <sensor_group_db_delete_fail>
<destination_db_delete_fail> <destination_group_db_delete_fail> <subscription_db_delete_fail>
<sensor_path_delete_in_use> <sensor_group_delete_in_use> <destination_delete_in_use>
<destination_group_delete_in_use> <delete_destination_in_use_fail>
<sensor_path_sensor_group_list_create_fail> <sensor_path_prop_list_create_fail>
<sensor_path_secondary_sensor_path_list_create_fail> <sensor_path_secondary_sensor_group_list_create_fail>
<sensor_group_sensor_path_list_create_fail> <sensor_group_subscription_list_create_fail>
<destination_group_subscription_list_create_fail> <destination_group_destination_list_create_fail>
<destination_destination_group_list_create_fail> <subscription_sensor_group_list_create_fail>
<subscription_destination_group_list_create_fail> <sensor_group_sensor_path_list_delete_fail>
<sensor_group_subscription_list_delete_fail> <sensor_group_subscription_unsupported_data_source_fail>
<destination_group_subscription_list_delete_fail> <destination_group_destination_list_delete_fail>
<subscription_sensor_group_list_delete_fail> <subscription_destination_group_list_delete_fail>
<destination_destination_group_list_delete_fail> <destination_delete_from_destination_group_fail>
<destination_group_delete_from_subscription_fail> <sensor_group_delete_from_subscription_fail>
<sensor_path_delete_from_sensor_group_fail> <get_encode_cb_fail> <get_transport_cb_fail> ] ]

```

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
__readonly__	(Optional)
TABLE_sensor_grp	(Optional) Sensor group table
<i>sensor_grp_db_size</i>	(Optional) Sensor group DB size
<i>snsr_grp_row_idx</i>	(Optional) Sensor Group Row Idx
<i>snsr_grp_id</i>	(Optional) Sensor Group Id
<i>snsr_grp_type</i>	(Optional) Sensor Group Type
<i>snsr_grp_collector_type</i>	(Optional) Sensor Group Collector Type
<i>snsr_grp_timer_interval</i>	(Optional) Sensor Group Timer Interval in ms
<i>snsr_grp_timer_status</i>	(Optional) Sensor Group Timer Status
<i>snsr_grp_sub_count</i>	(Optional) Sensor Group Sub Count
<i>snsr_grp_sub_id</i>	(Optional) Sensor Group Sub Id
<i>snsr_grp_dc_cur_time</i>	(Optional) Sensor Group Data collection Current Time
<i>snsr_grp_dc_min_time</i>	(Optional) Sensor Group Data collection Minimum Time
<i>snsr_grp_dc_max_time</i>	(Optional) Sensor Group Data collection Maximum Time
<i>snsr_grp_enc_cur_time</i>	(Optional) Sensor Group Encoding Current Time
<i>snsr_grp_enc_min_time</i>	(Optional) Sensor Group Encoding Minimum Time
<i>snsr_grp_enc_max_time</i>	(Optional) Sensor Group Encoding Maximum Time
<i>snsr_grp_trans_cur_time</i>	(Optional) Sensor Group Transport Current Time
<i>snsr_grp_trans_min_time</i>	(Optional) Sensor Group Transport Minimum Time
<i>snsr_grp_trans_max_time</i>	(Optional) Sensor Group Transport Maximum Time
<i>snsr_grp_stream_cur_time</i>	(Optional) Sensor Group Streaming Current Time
<i>snsr_grp_stream_min_time</i>	(Optional) Sensor Group Streaming Minimum Time

<i>snsr_grp_stream_max_time</i>	(Optional) Sensor Group Streaming Maximum Time
<i>snsr_grp_stream_col_id_drop</i>	(Optional) Sensor Group Stream collection id Drop
<i>snsr_grp_stream_last_col_id_drop</i>	(Optional) Sensor Group Stream last collection id Drop
<i>snsr_grp_stream_col_drop</i>	(Optional) Sensor Group Stream number of collections dropped
TABLE_sensor_path	(Optional) Sensor path table
<i>sensor_path_db_size</i>	(Optional) Sensor path DB size
<i>path_row_idx</i>	(Optional) Sensor Path row index
<i>path_subscribed</i>	(Optional) Sensor path subscribed to events
<i>path_group_count</i>	(Optional) Sensor path group subscriptions
<i>path_secondary_group_count</i>	(Optional) Sensor path secondary group subscriptions
<i>path_level</i>	(Optional) Sensor path level
<i>path_name</i>	(Optional) Sensor path name
<i>path_grp_id</i>	(Optional) Sensor path group ID
<i>path_query_condition</i>	(Optional) Sensor path query condition
<i>path_filter_condition</i>	(Optional) Sensor path filter condition
<i>path_gpb_cur_enc_size</i>	(Optional) Sensor path gpb current encoded size
<i>path_gpb_min_enc_size</i>	(Optional) Sensor path gpb min encoded size
<i>path_gpb_max_enc_size</i>	(Optional) Sensor path gpb max encoded size
<i>path_json_cur_enc_size</i>	(Optional) Sensor path json current encoded size
<i>path_json_min_enc_size</i>	(Optional) Sensor path json min encoded size
<i>path_json_max_enc_size</i>	(Optional) Sensor path json max encoded size
<i>path_dc_cur_time</i>	(Optional) sensor path last collection time
<i>path_dc_min_time</i>	(Optional) sensor path min collection time
<i>path_dc_max_time</i>	(Optional) sensor path max collection time
<i>path_enc_cur_time</i>	(Optional) sensor path last encode time
<i>path_enc_min_time</i>	(Optional) sensor path min encode time
<i>path_enc_max_time</i>	(Optional) sensor path max encode time
<i>path_trans_cur_time</i>	(Optional) sensor path last transport time
<i>path_trans_min_time</i>	(Optional) sensor path min transport time

<i>path_trans_max_time</i>	(Optional) sensor path min transport time
<i>path_stream_cur_time</i>	(Optional) sensor path last stream time
<i>path_stream_min_time</i>	(Optional) sensor path min stream time
<i>path_stream_max_time</i>	(Optional) sensor path max stream time
TABLE_destination_group	(Optional) Destination group table
<i>destination_group_id</i>	(Optional) Destination group ID
<i>destination_group_db_size</i>	(Optional) Destination group DB size
<i>destination_group_use_vrf</i>	(Optional) Destination group vrf
<i>destination_group_refcount</i>	(Optional) Destination group subscription count
TABLE_destinations	(Optional) Destination table
<i>destination_db_size</i>	(Optional) Destination DB size
<i>destination_ip</i>	(Optional) Destination IP address
<i>destination_port</i>	(Optional) Destination IP port
<i>destination_encoding</i>	(Optional) Destination encoding
<i>destination_transport</i>	(Optional) Destination transport
<i>destination_refcount</i>	(Optional) Destination subscription count
TABLE_subscriptions	(Optional) Subscription table
<i>subscription_id</i>	(Optional) Subscription ID
<i>subscription_db_size</i>	(Optional) Subscription DB size
<i>data_collector_type</i>	(Optional) Data collector type
db_statistics	(Optional) DB Statistics
<i>chunk_alloc_fail</i>	(Optional) Chunk Alloc Fail
<i>sensor_path_chunk_create_fail</i>	(Optional) Sensor Path Chunk Create Fail
<i>sensor_group_chunk_create_fail</i>	(Optional) Sensor Group Chunk Create Fail
<i>destination_chunk_create_fail</i>	(Optional) Destination Chunk Create Fail
<i>destination_group_chunk_create_fail</i>	(Optional) Destination Group Chunk Create Fail
<i>subscription_chunk_create_fail</i>	(Optional) Subscription Chunk Create Fail
<i>sensor_path_db_create_fail</i>	(Optional) Sensor Path Db Create Fail
<i>sensor_group_db_create_fail</i>	(Optional) Sensor Group Db Create Fail

<i>destination_db_create_fail</i>	(Optional) Destination Db Create Fail
<i>destination_group_db_create_fail</i>	(Optional) Destination Group Db Create Fail
<i>subscription_db_create_fail</i>	(Optional) Subscription Db Create Fail
<i>sensor_path_db_insert_fail</i>	(Optional) Sensor Path Db Insert Fail
<i>sensor_group_db_insert_fail</i>	(Optional) Sensor Group Db Insert Fail
<i>destination_db_insert_fail</i>	(Optional) Destination Db Insert Fail
<i>destination_group_db_insert_fail</i>	(Optional) Destination Group Db Insert Fail
<i>subscription_db_insert_fail</i>	(Optional) Subscription Db Insert Fail
<i>sensor_path_db_delete_fail</i>	(Optional) Sensor Path Db Delete Fail
<i>sensor_group_db_delete_fail</i>	(Optional) Sensor Group Db Delete Fail
<i>destination_db_delete_fail</i>	(Optional) Destination Db Delete Fail
<i>destination_group_db_delete_fail</i>	(Optional) Destination Group Db Delete Fail
<i>subscription_db_delete_fail</i>	(Optional) Subscription Db Delete Fail
<i>sensor_path_delete_in_use</i>	(Optional) Sensor Path Delete In Use
<i>sensor_group_delete_in_use</i>	(Optional) Sensor Group Delete In Use
<i>destination_delete_in_use</i>	(Optional) Destination Delete In Use
<i>destination_group_delete_in_use</i>	(Optional) Destination Group Delete In Use
<i>delete_destination_in_use_fail</i>	(Optional) Delete Destination In Use Fail
<i>sensor_path_sensor_group_list_create_fail</i>	(Optional) Sensor Path Sensor Group List Create Fail
<i>sensor_path_prop_list_create_fail</i>	(Optional) Sensor Path Prop List Create Fail
<i>sensor_path_secondary_sensor_path_list_create_fail</i>	(Optional) Sensor Path Secondary Sensor Path List Create Fail
<i>sensor_path_secondary_sensor_group_list_create_fail</i>	(Optional) Sensor Path Secondary Sensor Group List Create Fail
<i>sensor_group_sensor_path_list_create_fail</i>	(Optional) Sensor Group Sensor Path List Create Fail
<i>sensor_group_subscription_list_create_fail</i>	(Optional) Sensor Group Subscription List Create Fail
<i>destination_group_subscription_list_create_fail</i>	(Optional) Destination Group Subscription List Create Fail
<i>destination_group_destination_list_create_fail</i>	(Optional) Destination Group Destination List Create Fail
<i>destination_destination_group_list_create_fail</i>	(Optional) Destination Destination Group List Create Fail
<i>subscription_sensor_group_list_create_fail</i>	(Optional) Subscription Sensor Group List Create Fail
<i>subscription_destination_group_list_create_fail</i>	(Optional) Subscription Destination Group List Create Fail

<i>sensor_group_sensor_path_list_delete_fail</i>	(Optional) Sensor Group Sensor Path List Delete Fail
<i>sensor_group_subscription_list_delete_fail</i>	(Optional) Sensor Group Subscription List Delete Fail
<i>sensor_group_subscription_unsupported_data_source_fail</i>	(Optional) Sensor Group Subscription Unsupported Data Source Fail
<i>destination_group_subscription_list_delete_fail</i>	(Optional) Destination Group Subscription List Delete Fail
<i>destination_group_destination_list_delete_fail</i>	(Optional) Destination Group Destination List Delete Fail
<i>subscription_sensor_group_list_delete_fail</i>	(Optional) Subscription Sensor Group List Delete Fail
<i>subscription_destination_group_list_delete_fail</i>	(Optional) Subscription Destination Group List Delete Fail
<i>destination_destination_group_list_delete_fail</i>	(Optional) Destination Destination Group List Delete Fail
<i>destination_delete_from_destination_group_fail</i>	(Optional) Destination Delete From Destination Group Fail
<i>destination_group_delete_from_subscription_fail</i>	(Optional) Destination Group Delete From Subscription Fail
<i>sensor_group_delete_from_subscription_fail</i>	(Optional) Sensor Group Delete From Subscription Fail
<i>sensor_path_delete_from_sensor_group_fail</i>	(Optional) Sensor Path Delete From Sensor Group Fail
<i>get_encode_cb_fail</i>	(Optional) Get Encode Cb Fail
<i>get_transport_cb_fail</i>	(Optional) Get Transport Cb Fail

Command Mode

- /exec

show telemetry data collector brief

```
show telemetry data collector { brief| details } [ __readonly__ [ { TABLE_data_collector_brief <dcb_row_idx>
<dcb_collector_type> <dcb_success_count> <dcb_fail_count> <dcb_skip_count> } ] [ {
TABLE_data_collector_details <dcd_row_idx> <dcd_success_count> <dcd_fail_count> <dcd_skip_count>
<dcd_path_name> <dcd_grp_id> } ] ]
```

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
__readonly__	(Optional)
TABLE_data_collector_brief	(Optional) Data collector brief
<i>dcb_row_idx</i>	(Optional) Data collector brief index
<i>dcb_collector_type</i>	(Optional) Data collector type
<i>dcb_success_count</i>	(Optional) Data collector success count
<i>dcb_fail_count</i>	(Optional) Data collector fail count
<i>dcb_skip_count</i>	(Optional) Data collector skip count
TABLE_data_collector_details	(Optional) Data collector details
<i>dcd_row_idx</i>	(Optional) Data collector row index
<i>dcd_success_count</i>	(Optional) Data collector success count
<i>dcd_fail_count</i>	(Optional) Data collector fail count
<i>dcd_skip_count</i>	(Optional) Data collector skip count
<i>dcd_path_name</i>	(Optional) Data collector path name
<i>dcd_grp_id</i>	(Optional) Data collector group ID

Command Mode

- /exec

show telemetry event collector stats

```
show telemetry event collector { stats | errors } [ __readonly__ [ { TABLE_event_collector_stats <ec_row_idx>
<ec_collection_count> <ec_last_collection_ts> <ec_sensor_path> <ec_sensor_grp_id> } ] [ {
event_collector_errors <event_sub_init_fail> <event_data_enq_fail> <event_sub_fail>
<pending_sub_list_create_fail> <sub_hash_table_create_fail> <sub_hash_table_destroy_fail>
<sub_hash_table_insert_fail> <sub_hash_table_remove_fail> } ] ]
```

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
<i>__readonly__</i>	(Optional)
<i>event_collector_errors</i>	(Optional) Event collection failure
<i>event_sub_init_fail</i>	(Optional) Event Sub Init Fail
<i>event_data_enq_fail</i>	(Optional) Event Data Enqueue Fail
<i>event_sub_fail</i>	(Optional) Event Subscription Fail
<i>pending_sub_list_create_fail</i>	(Optional) Pending Subscription List Create Fail
<i>sub_hash_table_create_fail</i>	(Optional) Subscription Hash Table Create Fail
<i>sub_hash_table_destroy_fail</i>	(Optional) Subscription Hash Table Destroy Fail
<i>sub_hash_table_insert_fail</i>	(Optional) Subscription Hash Table Insert Fail
<i>sub_hash_table_remove_fail</i>	(Optional) Subscription Hash Table Remove Fail
<i>TABLE_event_collector_stats</i>	(Optional) Event collector stats table
<i>ec_row_idx</i>	(Optional) Event collector row index
<i>ec_collection_count</i>	(Optional) Event collection count
<i>ec_last_collection_ts</i>	(Optional) Last event collection timestamp
<i>ec_sensor_path</i>	(Optional) Event collection sensor path
<i>ec_sensor_grp_id</i>	(Optional) Event collection group ID

Command Mode

- /exec

show telemetry pipeline stats

```
show telemetry pipeline stats [ __readonly__ { main_statistics { timers <start_fail> } } { data_collector
<dnode_create_fail> } } { event_collector <enode_create_fail> <node_add_fail> <invalid_data> } } { memory
<allowed_limit> <occupied_mem> } } { queue_statistics { TABLE_queue <queue_name> <actual_size>
<current_size> <max_size> <full_count> <enqueue_error> <dequeue_error> } } ]
```

Syntax Description

show	Show running system information
telemetry	Show telemetry info
pipeline	Show telemetry pipeline info
stats	Show all telemetry pipeline stats
<i>__readonly__</i>	(Optional)
<i>main_statistics</i>	(Optional) Main Statistics
<i>timers</i>	(Optional) Timers Statistics
<i>start_fail</i>	(Optional) Timers start failure
<i>data_collector</i>	(Optional) Data collector Statistics
<i>dnode_create_fail</i>	(Optional) Data Node creation failure
<i>event_collector</i>	(Optional) Event collector Statistics
<i>enode_create_fail</i>	(Optional) Event Node creation failure
<i>node_add_fail</i>	(Optional) Node add failure
<i>invalid_data</i>	(Optional) Invalid data
<i>memory</i>	(Optional) Memory Statistics
<i>allowed_limit</i>	(Optional) Allowed memory limit
<i>occupied_mem</i>	(Optional) Occupied memory
<i>queue_statistics</i>	(Optional) Queue Statistics
<i>TABLE_queue</i>	(Optional) Queue table
<i>queue_name</i>	(Optional) Queue name
<i>actual_size</i>	(Optional) Actual size
<i>current_size</i>	(Optional) Current size
<i>max_size</i>	(Optional) Maximum size

<i>full_count</i>	(Optional) Full count
<i>enqueue_error</i>	(Optional) Enqueue error
<i>dequeue_error</i>	(Optional) Dequeue error

Command Mode

- /exec

show telemetry transport

```
show telemetry transport [ <session_id> [ { stats | errors } ] ] [ __readonly__ [ { TABLE_transport_info
<session_idx> [ <ip_address> ] [ <port> ] [ <dest_info> ] [ <encoding_type> ] <transport_type>
<transport_status> [ <transport_security_cert_fname> ] [ <transport_last_connected> ] [
<transport_last_disconnected> ] [ <transport_errors_count> ] [ <transport_last_tx_error> } } ] [ <t_session_id>
] [ { transport_statistics [ { connect_statistics <connect_count> <last_connected> <disconnect_count>
<last_disconnected> } ] { trans_statistics <compression> <source_interface_name> <source_interface_ip>
<transmit_count> <last_tx_time> <min_tx_time> <max_tx_time> <avg_tx_time> <cur_tx_time> } } ] [ {
transport_errors { connect_errors <connect_errors_count> } { trans_errors <trans_errors_count> <last_tx_error>
[ <last_tx_return_code> ] } } ] [ { transport_retry_stats <ts_event_retry_bytes> <ts_event_retry_size>
<ts_timer_retry_bytes> <ts_timer_retry_size> <ts_retries_sent> <ts_retries_dropped> } ] [ <retry_buffer_size>
] [ <event_retry_bytes> ] [ <timer_retry_bytes> ] [ <retries_sent> ] [ <retries_dropped> ] ]
```

Syntax Description

show	Show running system information
telemetry	Show telemetry info
transport	Show telemetry transport info
<i>session_id</i>	(Optional) Session id
stats	(Optional) Show all tm stat info
errors	(Optional) Show all tm error info
<i>__readonly__</i>	(Optional)
TABLE_transport_info	(Optional) Transport information
<i>session_idx</i>	(Optional) Session Id
<i>ip_address</i>	(Optional) Transport IP address
<i>port</i>	(Optional) Transport port
<i>dest_info</i>	(Optional) Destination information
<i>encoding_type</i>	(Optional) Encoding type
<i>transport_type</i>	(Optional) Transport type
<i>transport_status</i>	(Optional) Transport status
<i>transport_security_cert_fname</i>	(Optional) Transport security file name
<i>transport_last_connected</i>	(Optional) Transport last connected
<i>transport_last_disconnected</i>	(Optional) Transport last disconnected
<i>transport_errors_count</i>	(Optional) Transport errors count

<i>transport_last_tx_error</i>	(Optional) Transport last tx error
<i>transport_statistics</i>	(Optional) Transport statistics
<i>t_session_id</i>	(Optional) Transport Session id
<i>connect_statistics</i>	(Optional) Connection statistics
<i>connect_count</i>	(Optional) Connection count
<i>last_connected</i>	(Optional) Last connected timestamp
<i>disconnect_count</i>	(Optional) Disconnect count
<i>last_disconnected</i>	(Optional) Last disconnected timestamp
<i>trans_statistics</i>	(Optional) Transport statistics
<i>compression</i>	(Optional) Compression status
<i>source_interface_name</i>	(Optional) Source interface name
<i>source_interface_ip</i>	(Optional) Source interface ip
<i>transmit_count</i>	(Optional) Transmission count
<i>last_tx_time</i>	(Optional) Last Transmission time
<i>min_tx_time</i>	(Optional) Minimum transmission time
<i>max_tx_time</i>	(Optional) Maximum transmission time
<i>avg_tx_time</i>	(Optional) Average transmission time
<i>cur_tx_time</i>	(Optional) Current transmission time
<i>transport_errors</i>	(Optional) Transport errors
<i>connect_errors</i>	(Optional) Connection errors
<i>connect_errors_count</i>	(Optional) Connection error count
<i>trans_errors</i>	(Optional) Transport errors
<i>trans_errors_count</i>	(Optional) Transport error count
<i>last_tx_error</i>	(Optional) Last transport error
<i>last_tx_return_code</i>	(Optional) Last transport return code
<i>transport_retry_stats</i>	(Optional) Retry Statistics
<i>ts_event_retry_bytes</i>	(Optional) Event Retry buffer size
<i>ts_timer_retry_bytes</i>	(Optional) Timer Retry buffer size
<i>ts_event_retry_size</i>	(Optional) Event Retry number of messages

<i>ts_timer_retry_size</i>	(Optional) Timer Retry number of messages
<i>ts_retries_sent</i>	(Optional) Number of retries sent
<i>ts_retries_dropped</i>	(Optional) Number of retries dropped
<i>event_retry_bytes</i>	(Optional) Event Retry buffer size
<i>timer_retry_bytes</i>	(Optional) Timer Retry buffer size
<i>retries_sent</i>	(Optional) Number of retries sent
<i>retries_dropped</i>	(Optional) Number of retries dropped
<i>retry_buffer_size</i>	(Optional) Retry buffer size

Command Mode

- /exec

show telemetry usability

```
show telemetry usability { all | environment | interface | vxlan | resources } [ __readonly__ [ {
TABLE_path_labels <label_row_idx> <label_name> <label_path_name> <label_query_type>
<label_query_condition> } ] ]
```

Syntax Description

show	Show running system information
telemetry	Show telemetry info
usability	Usability path information
all	show all the usability path query information
environment	show environment query information
interface	show interface query information
vxlan	show vxlan query information
resources	show system resources query information
__readonly__	(Optional)
TABLE_path_labels	(Optional) Ease of use path table
<i>label_row_idx</i>	(Optional) row index
<i>label_name</i>	(Optional) label name
<i>label_path_name</i>	(Optional) actual path configured
<i>label_query_type</i>	(Optional) query type
<i>label_query_condition</i>	(Optional) actual query condition

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 [ __readonly__ { <terminal_tty> } { <terminal_type> } { <terminal_length> } {
<terminal_width> } { <session_timeout> } { <evnt_mgr_cli_evnt_bypass> } { <redirection_mode> } {
<acc_log_all_commands> } [ <vlan_mutex_value> ] { <vlan_batch_mode> } ]
```

Syntax Description

show	Show running system information
terminal	Display terminal configuration parameters
<i>__readonly__</i>	(Optional)
<i>terminal_tty</i>	(Optional)
<i>terminal_type</i>	(Optional)
<i>terminal_length</i>	(Optional)
<i>terminal_width</i>	(Optional)
<i>session_timeout</i>	(Optional)
<i>evnt_mgr_cli_evnt_bypass</i>	(Optional)
<i>redirection_mode</i>	(Optional)
<i>acc_log_all_commands</i>	(Optional)
<i>vlan_mutex_value</i>	(Optional)
<i>vlan_batch_mode</i>	(Optional)

Command Mode

- /exec

show terminal output xml version

```
show terminal output xml version [ __readonly__ { xml_version <version> } ]
```

Syntax Description

show	Show running system information
terminal	Display
output	Display
xml	Display
version	Display
<i>__readonly__</i>	(Optional)
<i>xml_version</i>	(Optional) xml version
<i>version</i>	(Optional) version

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 time-stamp running-config last-changed

show time-stamp running-config last-changed [*__readonly__* <*run_config_change_time*>]

Syntax Description

show	Show running system information
time-stamp	Time running-config last chnaged
running-config	Current operating configuration
last-changed	Running configuration last changed
<i>__readonly__</i>	(Optional) Read only
<i>run_config_change_time</i>	(Optional) Running-cfg last change timestamp

Command Mode

- /exec

show trace callhome

show trace callhome

Syntax Description

show	Show XOS trace information
trace	Show logging configuration and contents of logfile
callhome	Show callhome logging configuration

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_timer_value> [ <st_obj_state> ]
[ <st_obj_chg_cnt> ] [ <st_last_chg_time> ] [ <st_threshold_info> ] [ <st_track_list_obj> ] + [ <st_vrf> ] [
<st_ipsla_rcode> ] [ <st_ipsla_rtt> ] [ <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> ] + <st_obj_up_delay> <st_obj_down_delay> }
<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_timer_value</i>	(Optional) Current value of timer
<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>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_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>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 troubleshoot l2 mac vlan

show troubleshoot l2 mac <mac-addr> vlan <vlan-id> [detail]

Syntax Description

show	Show running system information
troubleshoot	Display troubleshoot data dump
l2	Display l2 information
mac	MAC address
<i>mac-addr</i>	address
vlan	Vlan ID
<i>vlan-id</i>	vlan number
detail	(Optional) Print detailed debugging info for mac/interface

Command Mode

- /exec

show troubleshoot l3 vrf

```
show troubleshoot l3 { ipv4 { <dip4-prefix> | <ip-prefix> } [ src-ip <sip4-prefix> ] | ipv6 { <dip6-prefix> | <ip6-prefix> } [ src-ip <sip6-prefix> ] } vrf <vrf-name>
```

Syntax Description

show	
troubleshoot	Display troubleshoot data dump
l3	Display l3 information
ipv4	Choose IPv4 address
ipv6	Choose IPv6 address
<i>dip4-prefix</i>	Display single exact match route for Destination IP
<i>ip-prefix</i>	Display single exact match route, specify prefix/mask
vrf	check routes for a specific VRF
<i>vrf-name</i>	vrf name
src-ip	(Optional) Source IP for routing hash CLI
<i>sip4-prefix</i>	(Optional) Source IPv4 address

Command Mode

- /exec

show trunk protocol

show trunk protocol [__readonly__ <trunk_protocol_status>]

Syntax Description

show	Show running system information
trunk	Show trunk information
protocol	Show trunk protocol information
__readonly__	(Optional)
<i>trunk_protocol_status</i>	(Optional) trunk protocol status

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>state</code>	(Optional) TTAG state
<code>ttag-end</code>	(Optional) End of table

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) TTAG state

Command Mode

- /exec



U Show Commands

- [show uddl](#), on page 3094
- [show uddl global](#), on page 3096
- [show uddl neighbors](#), on page 3097
- [show user-account](#), on page 3098
- [show username keypair](#), on page 3099
- [show username passphrase timevalues](#), on page 3100
- [show userpassphrase](#), on page 3101
- [show userpassphrase](#), on page 3102
- [show users](#), on page 3103

show uddld

```
show uddld [ <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> <no-multiple-neighbor-detected> <message-interval> <timeout-interval>
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
uddld	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>no-multiple-neighbor-detected</i>	(Optional) No multiple neighbor detected
<i>message-interval</i>	(Optional) UDLD probe message interval
<i>timeout-interval</i>	(Optional) UDLD detection timeout interval
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/recv 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 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
__readonly__	(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 username passphrase timevalues

```
show username <username> passphrase timevalues [ __readonly__ [ timevalues [ <tvalue> ] ] [
passphrase_change <last_passphrase_change> ] [ Default_lifetime <def_ltime> ] [ Default_warntime
<def_wrntime> ] [ Default_gracetime <def_gtime> ] ]
```

Syntax Description

show	Show running system information
username	Configure user information.
<i>username</i>	user name
passphrase	user passphrase
timevalues	passphrase lifetime, warningtime and gracetime
<i>__readonly__</i>	(Optional)
timevalues	(Optional) Timevalues of the Passphrase
<i>tvalue</i>	(Optional) Absolute time values of the Passphrase
passphrase_change	(Optional) passphrase last change date
<i>last_passphrase_change</i>	(Optional) absolute last passphrase change date
Default_lifetime	(Optional) Default Lifetime of the Passphrase
<i>def_ltime</i>	(Optional) Absolute life time value of the passphrase
Default_warntime	(Optional) Default Warningtime of the Passphrase
<i>def_wrntime</i>	(Optional) Absolute warning time value of the Passphrase
Default_gracetime	(Optional) Default Grace time of the Passphrase
<i>def_gtime</i>	(Optional) Absolute Grace time value of the Passphrase

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 userpassphrase

```
show userpassphrase { default-lifetime | default-warntime | default-gracetime | timevalues } [ __readonly__
[ Default_warntime <def_wrntime> ] [ Default_gracetime <def_gtime> ] [ Default_lifetime <def_ltime> ] ]
```

Syntax Description

show	Show running system information
userpassphrase	user passphrase
default-lifetime	passphrase default lifetime
default-warntime	passphrase default warningtime
default-gracetime	passphrase default gracetime
timevalues	passphrase lifetime, warning time and gracetime
__readonly__	(Optional)
Default_warntime	(Optional) Default Warningtime of the Passphrase
<i>def_wrntime</i>	(Optional) Absolute warning time value of the Passphrase
Default_gracetime	(Optional) Default Grace time of the Passphrase
<i>def_gtime</i>	(Optional) Absolute Grace time value of the Passphrase
Default_lifetime	(Optional) Default Lifetime of the Passphrase
<i>def_ltime</i>	(Optional) Absolute life time value of the passphrase

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 Show 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>
<nxos_ver_str> [ <sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <nxos_file_name> <kick_cmpl_time>
<nxos_cmpl_time> <kick_tmstamp> <nxos_tmstamp> [ <isan_file_name> ] [ <isan_cmpl_time> ] [
<isan_tmstamp> ] [ <boot_lxc_mode> ] <chassis_id> [ <module_id> ] <cpu_name> <memory> <mem_type>
<proc_board_id> <host_name> <bootflash_size> [ <slot0_size> ] [ <slot1_size> ] <kern_uptm_days>
<kern_uptm_hrs> <kern_uptm_mins> <kern_uptm_secs> [ <rr_usecs> ] [ <rr_ctime> ] <rr_reason>
<rr_sys_ver> <rr_service> <plugins> <manufacturer> [ TABLE_smu_list <install_smu_id> + ] [
TABLE_package_list <package_id> + ] ]
```

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>nxos_ver_str</i>	(Optional)
<i>sys_ver_str</i>	(Optional)
<i>bios_cmpl_time</i>	(Optional)
<i>kick_file_name</i>	(Optional)
<i>nxos_file_name</i>	(Optional)
<i>kick_cmpl_time</i>	(Optional)
<i>nxos_cmpl_time</i>	(Optional)
<i>kick_tmstamp</i>	(Optional)
<i>nxos_tmstamp</i>	(Optional)
<i>isan_file_name</i>	(Optional)
<i>isan_cmpl_time</i>	(Optional)
<i>isan_tmstamp</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>slot1_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)
<i>plugins</i>	(Optional)
<i>manufacturer</i>	(Optional)
TABLE_smu_list	(Optional)
<i>install_smu_id</i>	(Optional)
TABLE_package_list	(Optional)
<i>package_id</i>	(Optional) Package name

Command Mode

- /exec

show version epld

```
show version epld <uri0> [ __readonly__ <image-info> [ { TABLE_module_info <module-type> <model>
<epld-device> <version> } ] ]
```

Syntax Description

show	Show running system information
version	Show the software version
epld	Show EPLD versions available in EPLD image
<i>uri0</i>	Local URI containing EPLD Image
<i>__readonly__</i>	(Optional)
<i>image-info</i>	(Optional) image file info
TABLE_module_info	(Optional)
<i>module-type</i>	(Optional) module type
<i>model</i>	(Optional) model
<i>epld-device</i>	(Optional) epld device
<i>version</i>	(Optional) version

Command Mode

- /exec

show version image

```
show version image <uri0> [ __readonly__ <md5_str> <img_file_name> [ <bios_ver_str> ] <sys_ver_str>
<img_cmpl_time> [ <img_tmstamp> ] ]
```

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
<i>__readonly__</i>	(Optional)
<i>md5_str</i>	(Optional)
<i>img_file_name</i>	(Optional)
<i>bios_ver_str</i>	(Optional)
<i>sys_ver_str</i>	(Optional)
<i>img_cmpl_time</i>	(Optional)
<i>img_tmstamp</i>	(Optional)

Command Mode

- /exec

show version module

```
show version module <module> [ __readonly__ { TABLE_version <slot> <type> <sw> <interim> <bios> } ]
```

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
<i>__readonly__</i>	(Optional)
TABLE_version	(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 [ __readonly__ { [ <header_info> ] [ <module> ] [ <mi_iofpga> <version> ] [ <io_fpga> <version> ] [ <mi_iofpga2> <version> ] [ <mi_iofpga3> <version> ] [ <mi_iofpga4> <version> ] [ <mi_iofpga5> <version> ] [ <mi_iofpga6> <version> ] [ <cpu_iofpga> <version> ] [ <db_fpga> <version> ] } ]
```

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
<i>__readonly__</i>	(Optional)
<i>header_info</i>	(Optional)
<i>module</i>	(Optional)
<i>mi_iofpga</i>	(Optional)
<i>io_fpga</i>	(Optional)
<i>mi_iofpga2</i>	(Optional)
<i>mi_iofpga3</i>	(Optional)
<i>mi_iofpga4</i>	(Optional)
<i>mi_iofpga5</i>	(Optional)
<i>mi_iofpga6</i>	(Optional)
<i>cpu_iofpga</i>	(Optional)
<i>db_fpga</i>	(Optional)
<i>version</i>	(Optional)

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> <machine_types_supported>
<machine_types_disabled> <maximum_vcpus_per_virtual_service> TABLE_resource_limits <media_name>
<quota> <committed> <available> ] [ TABLE_list <name> <status> <package_name> ] [ TABLE_detail
<name> <state> <package_name> <ova_path> <application_name> <application_version>
<application_description> <key_type> <signing_method> <licensing_name> <licensing_version>
<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_cpu <request> <actual>
<state> ] [ TABLE_memory <allocation> <used> ] [ TABLE_storage <name> <alias> <capacity> <used>
<available> <usage> ] ]
```

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>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_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

```
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_mtuintfo <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_mtuintfo	(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> ] [ TABLE_match <module> <module_match_count> ] [ <nve_vni>
] [ <nve_vni> ] [ <label1> [ <label2> <label3> <label4> ] ] <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
TABLE_match	(Optional)
<i>module</i>	(Optional) Module name
<i>module_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>label1</i>	(Optional) mpls label one
<i>label2</i>	(Optional) mpls label two
<i>label3</i>	(Optional) mpls label three
<i>label4</i>	(Optional) mpls label four
<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/iPV6/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
<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>l3_ucast_rcv_b</i>	(Optional) L3 unicast octets in
<i>l3_ucast_rcv_p</i>	(Optional) L3 unicast packets in
<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 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 fcoe

```
show vlan fcoe [ <vlan-id> ] [ __readonly__ { TABLE_assoc <orig-id> <tran-id> <assoc-state> } ]
```

Syntax Description

show	Show running system information
fcoe	FCOE Congiguration
vlan	Original VLAN Status
__readonly__	(Optional) Read Only
TABLE_assoc	(Optional) Association Table Format
<i>vlan-id</i>	(Optional) VLAN ID <1-4094>
<i>orig-id</i>	(Optional) Enter original VLAN-ID being associated with translated ID
<i>tran-id</i>	(Optional) Enter VSAN-ID being associated with VLAN-ID
<i>assoc-state</i>	(Optional) Show Association Status

Command Mode

- /exec

show vlan filter

```
show vlan filter [ access-map <name> | vlan <vlan> ] [ __readonly__ TABLE_vlan_filter <vacl_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>vacl_name</i>	(Optional) List name
<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> ] [ <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
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>l3_ucast_rcv_b</i>	(Optional) L3 unicast octets in
<i>l3_ucast_rcv_p</i>	(Optional) L3 unicast packets in
<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
TABLE_seginfoid	(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 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 type

```
show vlan [ id <vlan-id> ] private-vlan type [ __readonly__ [ { TABLE_pvlantype <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_pvlantype	(Optional) Pvlan type table
<i>vlan-num</i>	(Optional) vlan
<i>pvlan-type</i>	(Optional) PVLAN Type

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-all-vlan> <vlansum-vtp-vlan> <vlansum-ext-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-all-vlan</i>	(Optional) Show vlan summary Total
<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-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 } [ __readonly__ TABLE_info
<intf_name> <host_or_ip> <vmnic> <vm_name> <vm_state> <port_group> <pg_type> <vlan_range>
<virt_wire_name> <multicast_ip> <vdn_id> <vtep_ip> ]
```

Syntax Description

<i>__readonly__</i>	(Optional)
TABLE_info	(Optional)
<i>intf_name</i>	(Optional)
<i>host_or_ip</i>	(Optional)
<i>vmnic</i>	(Optional)
<i>vm_name</i>	(Optional)
<i>vm_state</i>	(Optional)
<i>port_group</i>	(Optional)
<i>pg_type</i>	(Optional)
<i>vlan_range</i>	(Optional)
<i>virt_wire_name</i>	(Optional)
<i>multicast_ip</i>	(Optional)
<i>vdn_id</i>	(Optional)
<i>vtep_ip</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
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 [__readonly__ TABLE_cert <certificate>]

Syntax Description

__readonly__	(Optional)
TABLE_cert	(Optional)
<i>certificate</i>	(Optional)
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 } ] [ __readonly__ TABLE_autoconfig <interface_name> <port_group_name> <vlan_range>
<config_status> ]
```

Syntax Description

<code>__readonly__</code>	(Optional)
<code>TABLE_autoconfig</code>	(Optional)
<code>interface_name</code>	(Optional)
<code>port_group_name</code>	(Optional)
<code>vlan_range</code>	(Optional)
<code>config_status</code>	(Optional)
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
<code>intf_id</code>	(Optional) Interface name to display
vlan	(Optional) vlan to display
<code>vlan_id</code>	(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 [ 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-per-vlan-peer-consistency> ] <vpc-peer-consistency-status> }
<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> ] [ <vpc-delay-peer-link-status> ]
<operational-l3-peer> [ <vpc-scale-high-status> ] [ <fp-enhanced-load-balancing> ] [
<vpc-per-vlan-peer-consistency> ] [ <virtual-peerlink> ] [ <vpc-peer-link-hdr> [ { TABLE_peerlink
<peer-link-id> <peerlink-ifindex> <peer-link-port-state> <peer-up-vlan-bitset> } ] <vpc-end> ] [ <vpc-hdr>
[ <vpc-is-es> ] [ <vpc-not-es> ] [ { TABLE_vpc <vpc-id> <vpc-ifindex> <vpc-port-state>
<phy-port-if-removed><vpc-thru-peerlink> <vpc-consistency> { [ <vpc-consistency-reason> ] [
<vpc-consistency-status> ] } <up-vlan-bitset> <es-attr> } ] <vpc-end> ] ]
```

Syntax Description

vpc	Virtual Port Channel configuration
brief	(Optional) 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
fp-enhanced-load-balancing	(Optional) Fabricpath enhanced load balancing status
num-of-vpcs	(Optional) Number of vPCs configured
track-obj	(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>virtual-peerlink</i>	(Optional) Virtual peerlink 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-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>up-vlan-bitset</i>	(Optional) vPC UP VLAN 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-resotre status
<i>vpc-delay-restore-svi-status</i>	(Optional) Dealy-restore-svi status
<i>vpc-delay-peer-link-status</i>	(Optional) Delay-peer-link status

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> <phy-port-if-removed><vpc-thru-peerlink> <vpc-consistency> { [ <vpc-consistency-reason> ] [ <vpc-consistency-status> ] } <up-vlan-bitset> <es-attr> ] <vpc-end> ]
```

Syntax Description

vpc	Virtual Port Channel configuration
brief	Brief display of vPC status
<i>vpc-number</i>	Enter a Virtual Port Channel number
<i>__readonly__</i>	(Optional) Read Only
<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
TABLE_vpc	(Optional) vPC table
<i>vpc-id</i>	(Optional) vPC id
<i>vpc-ifindex</i>	(Optional) vPC ifindex
<i>vpc-port-state</i>	(Optional) vPC port state
<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>up-vlan-bitset</i>	(Optional) vPC UP VLAN bitset
<i>es-attr</i>	(Optional) vPC+ attributes
<i>vpc-end</i>	(Optional) End of table

Command Mode

- /exec

show vpc consistency-parameters

```
show vpc consistency-parameters { global | vni | interface <if> | vpc <vpc-num> } [ __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
vni	Show vPC Consistency Parameters vni
<i>if</i>	
<i>vpc-num</i>	Enter a Virtual Port Channel number
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_vpc_consistency</i>	(Optional) vPC table
<i>vpc-param-name</i>	(Optional)
<i>vpc-param-type</i>	(Optional)
<i>vpc-param-local-val</i>	(Optional)
<i>vpc-param-peer-val</i>	(Optional)

Command Mode

- /exec

show vpc consistency-parameters vlans

```
show vpc consistency-parameters vlans [ vnseg ] [ __readonly__ 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
vnseg	(Optional) Display vlan to vn-segment map
__readonly__	(Optional) Read Only
TABLE_vpc_consistency	(Optional) vPC table
<i>vpc-param-name</i>	(Optional)
<i>vpc-param-type</i>	(Optional)
<i>vpc-pass-vlans</i>	(Optional)
<i>syserr</i>	(Optional) vPC consistency reason
<i>reason_code</i>	(Optional) vPC consistency reason

Command Mode

- /exec

show vpc fabric-ports

```
show vpc fabric-ports [ __readonly__ [ { TABLE_fabric_ports <vpc-fabric-ports> } ] ]
```

Syntax Description

vpc	Virtual Port Channel configuration
fabric-ports	Show ports that are part of uplink virtual-peerlink
__readonly__	(Optional) Read Only
TABLE_fabric_ports	(Optional) vPC fabric ports table
<i>vpc-fabric-ports</i>	(Optional) description of the port

Command Mode

- /exec

show vpc orphan-ports

```
show vpc orphan-ports [ __readonly__ [ { TABLE_orphan_ports <vpc-vlan> <vpc-orphan-ports> } ] ]
```

Syntax Description

vpc	Virtual Port Channel configuration
orphan-ports	Show ports that are not part of vPC but have common VLANs
__readonly__	(Optional) Read Only
TABLE_orphan_ports	(Optional) vPC orphan ports table
vpc-vlan	(Optional) port vlan
vpc-orphan-ports	(Optional) description of the port

Command Mode

- /exec

show vpc peer-keepalive

```
show vpc peer-keepalive [ __readonly__ <vpc-peer-keepalive-status> <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-local-role-prio> <vpc-peer-system-mac>
<vpc-peer-system-prio><vpc-peer-role-prio> ]
```

Syntax Description

vpc	Virtual Port Channel configuration
role	vPC role status
__readonly__	(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

Command Mode

- /exec

show vpc statistics peer-keepalive

```
show vpc statistics peer-keepalive [ __readonly__ <vpc-peer-keepalive-status> <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
__readonly__	(Optional) Read Only
<i>vpc-peer-keepalive-status</i>	(Optional) vpc peer keepalive status
<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 vpc virtual-peerlink dest reachable

show vpc virtual-peerlink dest reachable

Syntax Description

show	Show running system information
vpc	vPC related information
virtual-peerlink	virtual-peerlink Related show commands
dest	dest info
reachable	dest reachability

Command Mode

- /exec

show vpc virtual-peerlink vlan consistency

show vpc virtual-peerlink vlan consistency

Syntax Description

show	Show running system information
vpc	vPC related information
virtual-peerlink	virtual-peerlink Related show commands
vlan	vlan info for vPC
consistency	vlan vni consistency

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 vrrp

```
show vrrp [ [ summary ] | { [ statistics | detail ] [ interface <interface_id> ] [ vr <vr_id> ] [ master | backup |
init ] + } ] [ __readonly__ [ [ 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> ] ] [ { TABLE_vrrp_statistics [ <if_index> ] [ <grp_id> ] [ <grp_type> ]
[ <master_cnt> ] [ <adv_pkts> ] [ <adv_intv_mismatch> ] [ <auth_failure> ] [ <ttl_err> ] [ <zero_pri_adv_rcvd>
] [ <zero_pri_adv_sent> ] [ <type_fl_mismatch> ] [ <addr_mismatch> ] [ <inv_auth> ] [ <auth_mismatch>
] [ <inv_pkt_len> ] } ] [ <total_num_of_grp> ] [ <init_grps> ] [ <backup_grps> ] [ <master_grps> ] [
<vrrp_enabled_ifs> ] [ <mts_rx> ] [ <mts_tx> ] [ <pkt_rx> ] [ <pkt_tx> ] ] + ]
```

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
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_vmac</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
TABLE_vrrp_statistics	(Optional) VRRP statistics table
<i>if_index</i>	(Optional) Interface type and number
<i>grp_id</i>	(Optional) Group number
<i>grp_type</i>	(Optional) Group type
<i>master_cnt</i>	(Optional) VRRP Master
<i>adv_pkts</i>	(Optional) Advertisement pkts
<i>adv_intv_mismatch</i>	(Optional) Advertisement interval mismatch
<i>auth_failure</i>	(Optional) Auth failure
<i>ttl_err</i>	(Optional) TTL error
<i>zero_pri_adv_rcvd</i>	(Optional) Zero pri adv received

<i>zero_pri_adv_sent</i>	(Optional) Zero pri adv sent
<i>type_fl_mismatch</i>	(Optional) Invalid type field
<i>addr_mismatch</i>	(Optional) Address mismatch
<i>inv_auth</i>	(Optional) Invalid auth type
<i>auth_mismatch</i>	(Optional) Authentication mismatch
<i>inv_pkt_len</i>	(Optional) Invalid pkt length
<i>total_num_of_grp</i>	(Optional) Total Number of Groups Configured
<i>init_grps</i>	(Optional) Init groups
<i>backup_grps</i>	(Optional) Backup groups
<i>master_grps</i>	(Optional) Master groups
<i>vrrp_enabled_ifs</i>	(Optional) Number of VRRP enabled interfaces
<i>mts_rx</i>	(Optional) Total MTS Rx
<i>mts_tx</i>	(Optional) Total MTS Tx
<i>pkt_rx</i>	(Optional) Total Pkt Rx
<i>pkt_tx</i>	(Optional) Total Pkt Tx

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> ] [ <cfg_priority> ] [ <m_addr> ] [ <m_priority> ] [
<m_adv> ] [ <m_expire> ] [ <down> ] [ <down_expire> ] [ <t_id> ] [ <t_dec_prio> ] [ <t_state> ] [ <adv_sent>
] [ <adv_err> ] [ <adv_rcvd> ] [ <v2adv_sent> ] [ <v2adv_err> ] [ <v2adv_rcvd> ] [ <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> } ] ] ] + [ { TABLE_vbrief [ <intf_b> ] [ <id_b> ] [ <af_b> ] [ <priority_b>
] [ <down_b> ] [ <owner_b> ] [ <preempt_b> ] [ <state_b> ] [ <m_addr_b> ] [ <vip_b> } ] ] ]
```

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
TABLE_vbrief	(Optional) VRRP Brief
<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>cfg_priority</i>	(Optional) Configured 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>t_id</i>	(Optional) Tracking object ID

<i>t_dec_prio</i>	(Optional) Priority to decrement
<i>t_state</i>	(Optional) Tracking object state
<i>adv_sent</i>	(Optional) Advertisements sent
<i>adv_err</i>	(Optional) Advertisement errors
<i>adv_rcvcd</i>	(Optional) Advertisements received
<i>v2adv_sent</i>	(Optional) Advertisements sent (v2)
<i>v2adv_err</i>	(Optional) Advertisement errors (v2)
<i>v2adv_rcvcd</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

<i>intf_b</i>	(Optional) Interface
<i>id_b</i>	(Optional) Group ID
<i>af_b</i>	(Optional) Address family
<i>priority_b</i>	(Optional) Priority
<i>down_b</i>	(Optional) Master down interval
<i>owner_b</i>	(Optional) Owner mode
<i>preempt_b</i>	(Optional) Preemption status
<i>state_b</i>	(Optional) Group state
<i>m_addr_b</i>	(Optional) Group master router address
<i>vip_b</i>	(Optional) Primary virtual IP address

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 vsan

```
show vsan [ <id_in> ] [ __readonly__ { TABLE_vsan <id> { [ <name> <state> <interop_mode>
<load_balancing> <operational_state> ] | <inactive_vsan_name> | <evfp_control_vsan_name> } } ]
```

Syntax Description

show	Show running system information
vsan	Vsan commands
<i>id_in</i>	(Optional) VSAN ID range
<i>__readonly__</i>	(Optional) Read Only
TABLE_vsan	(Optional) Table of VSAN's
<i>id</i>	(Optional) VSAN ID
<i>name</i>	(Optional) VSAN name
<i>state</i>	(Optional) VSAN state
<i>interop_mode</i>	(Optional) Interoperability mode
<i>load_balancing</i>	(Optional) Load balancing
<i>operational_state</i>	(Optional) Operational state
<i>inactive_vsan_name</i>	(Optional) Isolated VSAN
<i>evfp_control_vsan_name</i>	(Optional) EVFP isolated VSAN

Command Mode

- /exec

show vsan membership

```
show vsan [ <id_in> ] membership [ __readonly__ { TABLE_vsan <id> [ <inactive_vsan_name> ] [
<evfp_control_vsan_name> ] [ TABLE_interface <name> ] } ]
```

Syntax Description

show	Show running system information
vsan	Vsan commands
<i>id_in</i>	(Optional) VSAN ID range
membership	VSAN membership information
<i>__readonly__</i>	(Optional) Read Only
TABLE_vsan	(Optional) VSAN table
<i>id</i>	(Optional) VSAN ID
<i>inactive_vsan_name</i>	(Optional) Isolated VSAN
<i>evfp_control_vsan_name</i>	(Optional) EVFP isolated VSAN
TABLE_interface	(Optional) List of interface members
<i>name</i>	(Optional) Interface name

Command Mode

- /exec

show vsan membership interface

```
show vsan membership interface <if_in> [ __readonly__ { TABLE_interface <name> <vsan_id_memb> [
<inactive_vsan_name> | <evfp_control_vsan_name> ] <allowed_vsan_list> } ]
```

Syntax Description

show	Show running system information
vsan	Vsan commands
membership	VSAN membership information
interface	Show interface status and information
<i>if_in</i>	Interface range
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_interface</i>	(Optional) Interface VSAN table
<i>name</i>	(Optional) Interface Name
<i>vsan_id_memb</i>	(Optional) VSAN ID to which interface belongs
<i>inactive_vsan_name</i>	(Optional) Isolated VSAN
<i>evfp_control_vsan_name</i>	(Optional) EVFP isolated VSAN
<i>allowed_vsan_list</i>	(Optional) Allowed VSAN list

Command Mode

- /exec

show vsan usage

```
show vsan usage [ __readonly__ { <num_vsans_configured> <configured_range_of_vsans>
<vsans_available_to_configure> } ]
```

Syntax Description

show	Show running system information
vsan	Vsan commands
usage	show VSAN usage in the system
<i>__readonly__</i>	(Optional) Read Only
<i>num_vsans_configured</i>	(Optional) Total VSAN's configured
<i>configured_range_of_vsans</i>	(Optional) Range of VSAN's configured
<i>vsans_available_to_configure</i>	(Optional) VSAN range available to configure

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 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 password

```
show vtp password [ domain <domain-id> ] [ __readonly__ <start> <passwd> <password-type> <secret-key> ]
```

Syntax Description

<i>show</i>	Show running system information
<i>vtp</i>	VTP information
<i>password</i>	VTP password
<i>domain</i>	(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



W Show Commands

- [show wred-queue qos-group-map](#), on page 3194
- [show wrr-queue qos-group-map](#), on page 3195
- [show wrr unicast-bandwidth](#), on page 3196
- [show wwn status](#), on page 3197
- [show wwn switch](#), on page 3198
- [show wwn test](#), on page 3199
- [show wwn vsan-wwn](#), on page 3201

show wred-queue qos-group-map

```
show wred-queue qos-group-map [ __readonly__ TABLE_wred_queue_qos_group_map
<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
__readonly__	(Optional)
TABLE_wred_queue_qos_group_map	(Optional) XML show wred-queue qos-group-map

Command Mode

- /exec

show wrr-queue qos-group-map

```
show wrr-queue qos-group-map [ __readonly__ <mcast_queue_id> [ TABLE_wrr_queue <wrr_queue> [
TABLE_qos_group <qos_group> ] ] ]
```

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
<i>__readonly__</i>	(Optional)
<i>mcast_queue_id</i>	(Optional) MCAST Queue ID
<i>TABLE_wrr_queue</i>	(Optional) Table wrr queue
<i>wrr_queue</i>	(Optional) Traffic priority values
<i>TABLE_qos_group</i>	(Optional) Table qos group
<i>qos_group</i>	(Optional) QoS-Group-Map

Command Mode

- /exec

show wrr unicast-bandwidth

show wrr unicast-bandwidth [__readonly__ TABLE_wrr_unicast_bandwidth <unicast-bandwidth>]

Syntax Description

show	Show running system information
wrr	unicast bandwidth configuration
unicast-bandwidth	rate in percentage of data rate
__readonly__	(Optional)
TABLE_wrr_unicast_bandwidth	(Optional) XML show wrr unicast-bandwidth
<i>unicast-bandwidth</i>	(Optional) unicast bandwidth value

Command Mode

- /exec

show wwn status

```
show wwn status [ { backplane-prom | block-id <i0> | non-volatile-pss | volatile-pss } ] [ __readonly__ [
TABLE_status <type> <configured> <available> <avbl_percent> <resd> <alarm> ] [ <wwn_start> <wwn_end>
<num_of_wwn> <allocated_wwn> <available_wwn> <alloc_status> ] ]
```

Syntax Description

show	Show running system information
wwn	show wwn information
status	Show overall WWN Usage and Alarm Status
backplane-prom	(Optional) Show WWN block in backplane PROM
block-id	(Optional) Enter a block id.
<i>i0</i>	(Optional) Enter a block id.
non-volatile-pss	(Optional) Show contents of non-volatile PSS
volatile-pss	(Optional) Show contents of volatile PSS
__readonly__	(Optional) Read Only
TABLE_status	(Optional) show wwn status table
<i>type</i>	(Optional) WWN Type
<i>configured</i>	(Optional) Number of Configured WWNs
<i>available</i>	(Optional) Number of Available WWNs
<i>avbl_percent</i>	(Optional) Available % of WWNs
<i>resd</i>	(Optional) Reserved WWNs
<i>alarm</i>	(Optional) Alarm State
<i>wwn_start</i>	(Optional) Start value of WWN-range
<i>wwn_end</i>	(Optional) End value of WWN-range
<i>num_of_wwn</i>	(Optional) Total Number of WWNs
<i>allocated_wwn</i>	(Optional) Number of Allocated WWNs
<i>available_wwn</i>	(Optional) Number of Available WWNs
<i>alloc_status</i>	(Optional) Block Allocation Status

Command Mode

- /exec

show wwn switch

```
show wwn switch [ __readonly__ { <sw_wwn> } ]
```

Syntax Description

show	Show running system information
wwn	show wwn information
switch	Show switch WWN
__readonly__	(Optional) Read Only
<i>sw_wwn</i>	(Optional) The Switch WWN

Command Mode

- /exec

show wwn test

```
show wwn test { get_swwn_from_pwwn <wwn0> | get_pwwn_from_swwn <wwn1> if_index <i0> |
get_ifindex_from_fwfn <wwn2> | get_ifindex_from_pwwn <wwn3> | validate_pwwn_given_swwn <wwn4>
pwwn <wwn5> | get_all_pwwn_for_slot <i1> | get_kc_type_given_swwn <wwn6> pwwn <wwn7> |
get_ifindex_from_pwwn_swwn <wwn8> pwwn <wwn9> }
```

Syntax Description

show	show running system information
wwn	show wwn information
test	show wwn information for testing
get_swwn_from_pwwn	show switch wwn from port wwn
<i>wwn0</i>	port wwn
get_pwwn_from_swwn	show port wwn from switch wwn
<i>wwn1</i>	switch wwn
if_index	interface index
<i>i0</i>	Interface index
get_ifindex_from_fwfn	show ifindex from fabric wwn
<i>wwn2</i>	fabric wwn
get_ifindex_from_pwwn	show ifindex from port wwn
<i>wwn3</i>	port wwn
validate_pwwn_given_swwn	validate port wwn for given swwn
<i>wwn4</i>	switch wwn
pwwn	port wwn
<i>wwn5</i>	port wwn
get_all_pwwn_for_slot	show all port wwn for a given slot
<i>i1</i>	Slot number
get_kc_type_given_swwn	show KC type
<i>wwn6</i>	switch wwn
pwwn	port wwn
<i>wwn7</i>	port wwn

get_ifindex_from_pwwn_swwn	show ifindex for given pwwn and swwn
wwn8	switch wwn
pwwn	port wwn
wwn9	port wwn

Command Mode

- /exec

show wwn vsan-wwn

```
show wwn vsan-wwn [ __readonly__ [ TABLE_wwnvsan <vsan_id> <wwn_conf> ] ]
```

Syntax Description

show	Show running system information
wwn	show wwn information
vsan-wwn	Show all user configured vsan wwn
__readonly__	(Optional) Read Only
TABLE_wwnvsan	(Optional) vsan-wwn table
<i>vsan_id</i>	(Optional) VSAN ID
<i>wwn_conf</i>	(Optional) wwn configured by user

Command Mode

- /exec



X Show Commands

- [show xml server logging configuration](#), on page 3204
- [show xml server status](#), on page 3205

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

New, Changed, and Deprecated Commands

- [New, Changed, and Deprecated Show Commands in Cisco Nexus 9000 Release 9.3\(2\)](#), on page 3209
- [New, Changed, and Deprecated Show Commands in Cisco Nexus 9000 Release 9.3\(3\)](#), on page 3223
- [New, Changed, and Deprecated Show Commands in Cisco Nexus 9000 Release 9.3\(4\)](#), on page 3293
- [New, Changed, and Deprecated Show Commands in Cisco Nexus 9000 Release 9.3\(5\)](#), on page 3301
- [New, Changed, and Deprecated Show Commands in Cisco Nexus 9000 Release 9.3\(6\) to 9.3\(9\)](#), on page 3395



New, Changed, and Deprecated Show Commands in Cisco Nexus 9000 Release 9.3(2)

- [New, Changed, and Deprecated Show Commands](#), on page 3210

New, Changed, and Deprecated Show Commands

The following sections describe changes in the Cisco Nexus 9000 CLI since Release 9.3(1).

New Commands

The following commands are added in this release.

- show boot timings
- show forwarding multicast-sr mac-trap-db
- show kim internal issu-stats
- show logging history
- show logging level [ip] msdp

Changed Commands

The following commands are changed in this release.

- OLD: 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 [{ TABLE_faninfo <fanname> <fanmodel> <fanhwver> <fanidir> <fanstatus> }] [{ TABLE_fan_zone_speed <zone> <zonespeed> } <fan_filter_status> [{ TABLE_fantray <fanname> <trayfannum> <fanidir> <fanperc> <fanrpm> }] [{ TABLE_psufan <fanname> <fan1rpm> <fan2rpm> }]]] [{ powersup [<voltage_level>] [{ TABLE_psinfo <psnum> <psmodel> [<actual_out>] [<actual_input>] [<tot_capa>] [<input_type>] [<watts>] [<amps>] [<ps_status>] [<ps_status_3k>] }] [{ TABLE_mod_pow_info <modnum> <mod_model> [<actual_draw>] [<allocated>] [<watts_requested>] [<amps_requested>] [<watts_allocated>] [<amps_allocated>] [<modstatus>] [<modstatus_3k>] }]] [{ power_summary [<ps_redun_mode>] [<ps_redun_mode_3k>] [<ps_oper_mode>] [<ps_redun_op_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>] [<reserve_sup>] [<pow_used_by_mods>] [<available_pow>] }] [{ powersup_detail <reserve_sup> <reserve_xbar> <reserve_fan> <reserve_supxbarfan> <pow_used_by_mods> }] [<all_inlets_connected>] [{ TABLE_ps_detail_info <det_name> <det_total_cap> <det_volt> <det_pintot> [<det_pina>] [<det_vin> <det_iin> <det_pout> <det_vout> <det_iout> [<det_pinb>] [<det_iinb>] [<det_vinb>] [<det_cord>] <det_sw_alarm> [{ TABLE_det_hw_alarm_regval <regnum> <regval> }]] [{ TABLE_det_hw_alarm_str <regnumstr> <bitnumstr> <alarm_str> }]]] [{ TABLE_psinputinfo_n3k <ps_slot> <ps_input_voltage> <ps_input_current> <ps_in_power> [<ps_output_voltage>] [<ps_output_current>] [<ps_state> }]] [{ fandetails_3k [{ TABLE_faninfo <fanname> <fanmodel> <fanhwver> <fanidir> <fanstatus> }] [{ TABLE_fan_zone_speed <zone> <speed> } <fan_filter_status> [{ TABLE_fantray <fanname> <fannum> <fanidir> <fanperc> <fanrpm> }]] [{ TABLE_psufan <fanname> <fan1rpm> <fan2rpm> }]]] [{ TABLE_tempinfo <tempmod> <sensor> <majthres> <minthres> <curtemp> <alarmstatus> [<temptype>] }]] [{ TABLE_psutempinfo <psumod> <inlet_temp> <outlet_temp> <heatsink_temp> }]]
- NEW: 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 [ { TABLE_faninfo <fanname>
<fanmodel> <fanhwver> <fanidir> <fanstatus> } ] [ { TABLE_fan_zone_speed <zone> <zonespeed> } [
<fan_filter_status> ] [ { TABLE_fantray <fanname> <trayfannum> <fanidir> <fanperc> <fanrpm> } ]
[ { TABLE_psufan <fanname> <fan1rpm> <fan2rpm> } ] ] [ { powersup [ <voltage_level> ] [ {
TABLE_psinfo <psnum> <psmodel> [ <actual_out> ] [ <actual_input> ] [ <tot_capa> ] [ <input_type>
] [ <watts> ] [ <amps> ] [ <ps_status> ] [ <ps_status_3k> ] ] [ { TABLE_mod_pow_info <modnum>
<mod_model> [ <actual_draw> ] [ <allocated> ] [ <watts_requested> ] [ <amps_requested> ] [
<watts_allcged> ] [ <amps_allcged> ] [ <modstatus> ] [ <modstatus_3k> ] ] ] [ { power_summary [
<ps_redun_mode> ] [ <ps_redun_mode_3k> ] [ <ps_oper_mode> ] [ <ps_redun_op_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> ] [
<reserve_sup> ] [ <pow_used_by_mods> ] [ <available_pow> ] ] [ { powersup_detail [ <reserve_sup> ]
[ <reserve_xbar> ] [ <reserve_fan> ] [ <reserve_supxbarfan> ] [ <pow_used_by_mods> ] ] ] [
<all_inlets_connected> ] [ { TABLE_ps_detail_info <det_name> <det_total_cap> <det_volt> <det_pintot>
[ <det_pina> ] [ <det_vin> ] [ <det_iin> ] [ <det_pout> ] [ <det_vout> ] [ <det_iout> ] [ <det_pinb> ] [ <det_iinb> ] [
<det_vinb> ] [ <det_cord> ] [ <det_sw_alarm> ] [ { TABLE_det_hw_alarm_regval <regnum> <regval> }
] [ { TABLE_det_hw_alarm_str <regnumstr> <bitnumstr> <alarm_str> } ] ] [ { TABLE_psinputinfo_n3k
<ps_slot> <ps_input_voltage> <ps_input_current> [ <ps_in_power> ] [ <ps_output_voltage> ] [
<ps_output_current> ] [ <ps_state> } ] ] ] [ { fandetails_3k [ { TABLE_faninfo <fanname> <fanmodel>
<fanhwver> <fanidir> <fanstatus> } ] [ { TABLE_fan_zone_speed <zone> <speed> } <fan_filter_status>
[ { TABLE_fantray <fanname> <fannum> <fanidir> <fanperc> <fanrpm> } ] [ { TABLE_psufan
<fanname> <fan1rpm> <fan2rpm> } ] ] ] [ { TABLE_tempinfo <tempmod> <sensor> <majthres>
<minthres> <curtemp> <alarmstatus> [ <temptype> ] ] ] [ { TABLE_psutempinfo <psumod> <inlet_temp>
<outlet_temp> <heatsink_temp> } ] ]

```

- OLD: show forwarding distribution multicast download
- NEW: show forwarding distribution multicast download [__readonly__ [TABLE_MFDM_DOWNLOAD_INFO <db_type> [TABLE_MFDM_PENDING_INFO [<table_id>]]]]
- OLD: show hardware internal forwarding l2 table utilization [instance { <instance_number> | all }] [no-header] [module <num>] [__readonly__ TABLE_l2_util_info <module> <instance> <total> <used> <mcast> <ucast> <lines> <lines_full>]
- NEW: show hardware internal forwarding l2 table utilization [instance { [<instance_number> | all] [module<num>] } | module1 { [<num> | all1] [instance1 <instance_number1>] }] [no-header] [__readonly__ TABLE_l2_util_info <module> <instance> <total> <used> <mcast> <ucast> <lines> <lines_full>]
- OLD: show icam prediction scale [{ { l2-switching [mac-addresses | mst-instances | mst-vports | rpvst-vports | rpvst-vlans | total-vlans-x-ports | vlans | infra { mac } | stp { mst-instance | mst-vport | rpvst-vport | rpvst-vlan | isolated-portvlan } | vlan { vlan-count }] } | { multicast-routing [multicast-routes | igmp-groups | pim-neighbors | outgoing-interfaces | routing-forwarding { route-v4 | route-v6 | outgoing-interface } | igmp { group } | pim { neighbor }] } | { unicast-routing [bfd-sessions | eigrp-routes | ipv4-arp | ipv4-host-routes | ipv6-host-routes | ipv4-isis-routes | ospf-nbr | ospf-lsa | ospf-area | ospf-vrf | ospf-passive-intf | bfd { session } | bgp { neighbor } | eigrp { route | neighbor } | hsrp { mac } | arp { arp-count } | ipv6-nd { nd-count } | routing { host-route-v4 | host-route-v6 | lpm-route-v4 | lpm-route-v6 } | isis { adjacency | bfd-session | route } | ospf { neighbor | lsa | area } | vrf { vrf-count } | vrrp { grp-per-intf } | pbr { seq-per-policy | nh-per-policy | ace-v4 | ace-v6 | ace-v4v6 | intf } | vrrp3 { grp-per-intf | grp-dft-timer | grp-relax-timer | path-dft-timer | grp-and-path }] } | { vxlan [igmp { vlan | vtep | underlay-mcast-group } | fl { vni | underlay-mcast-group | overlay-mac | vtep | ir-peer | ir-vni | ir-mac |

```
vlan-mapping-under-intf | vlan-mapping-in-switch | static-mac-to-vtep | vlan-logical-port-vp |
vlan-per-fex-port | vni-for-vpc-gw | igmp-group } | bgp { vni | svi | vrf | underlay-mcast-group | vtep |
mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp |
vlan-per-fex-port | igmp-group } | bgp-ir { vni | svi | vrf | vtep | mac | host-route-v4 | host-route-v6 |
overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group } ]
} } ] <YYYY> <Month> <Date> <Time> [ __readonly__ [ <Info_Thres> <Warn_Thres> <Crit_Thres>
] [ { TABLE_technology <Technology> [ { TABLE_feature <Feature> <Verified_Scale> <Config_Scale>
[ { TABLE_feature_stats <Used_Entries> [ <Cur_Util> ] } ] } ] }
```

- NEW: show icam prediction scale [{ { l2-switching [mac-addresses | mst-instances | mst-vports | rpvst-vports | rpvst-vlans | total-vlans-x-ports | vlans | infra { mac } | stp { mst-instance | mst-vport | rpvst-vport | rpvst-vlan | isolated-portvlan } | vlan { vlan-count } } } | { multicast-routing [multicast-routes | igmp-groups | pim-neighbors | outgoing-interfaces | routing-forwarding { route-v4 | route-v6 | route-sg-v4 | route-starg-v4 | route-sg-v6 | route-starg-v6 | outgoing-interface } | igmp { group } | pim { neighbor }] } | { unicast-routing [bfd-sessions | eigrp-routes | ipv4-arp | ipv4-host-routes | ipv6-host-routes | ipv4-isis-routes | ospf-nbr | ospf-lsa | ospf-area | ospf-vrf | ospf-passive-intf | bfd { session } | bgp { neighbor } | eigrp { route | neighbor } | hsrp { mac } | arp { arp-count } | ipv6-nd { nd-count } | routing { host-route-v4 | host-route-v6 | lpm-route-v4 | lpm-route-v6 } | isis { adjacency | bfd-session | route } | ospf { neighbor | lsa | area } | vrf { vrf-count } | vrrp { grp-per-intf } | pbr { seq-per-policy | nh-per-policy | ace-v4 | ace-v6 | ace-v4v6 | intf } | vrrp3 { grp-per-intf | grp-dft-timer | grp-relax-timer | path-dft-timer | grp-and-path }] } | { vxlan [igmp { vlan | vtep | underlay-mcast-group } | fl { vni | underlay-mcast-group | overlay-mac | total-mac | vtep | ir-peer | ir-vni | ir-mac | vlan-mapping-under-intf | vlan-mapping-in-switch | static-mac-to-vtep | vlan-logical-port-vp | vlan-per-fex-port | vni-for-vpc-gw | igmp-group } | bgp { vni | svi | vrf | underlay-mcast-group | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group } | bgp-ir { vni | svi | vrf | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group }] } }] <YYYY> <Month> <Date> <Time> [__readonly__ [<Info_Thres> <Warn_Thres> <Crit_Thres>] [{ TABLE_technology <Technology> [{ TABLE_feature <Feature> <Verified_Scale> <Config_Scale> [{ TABLE_feature_stats <Used_Entries> [<Cur_Util>] }] }] }
- OLD: show icam scale [{ { l2-switching [mac-addresses | mst-instances | mst-vports | rpvst-vports | rpvst-vlans | total-vlans-x-ports | vlans | infra { mac } | stp { mst-instance | mst-vport | rpvst-vport | rpvst-vlan | isolated-portvlan } | vlan { vlan-count } } } | { multicast-routing [multicast-routes | igmp-groups | pim-neighbors | outgoing-interfaces | routing-forwarding { route-v4 | route-v6 | outgoing-interface } | igmp { group } | pim { neighbor }] } | { unicast-routing [bfd-sessions | eigrp-routes | ipv4-arp | ipv4-host-routes | ipv6-host-routes | ipv4-isis-routes | ospf-nbr | ospf-lsa | ospf-area | ospf-vrf | ospf-passive-intf | bfd { session } | bgp { neighbor } | eigrp { route | neighbor } | hsrp { mac } | arp { arp-count } | ipv6-nd { nd-count } | routing { host-route-v4 | host-route-v6 | lpm-route-v4 | lpm-route-v6 } | isis { adjacency | bfd-session | route } | ospf { neighbor | lsa | area } | vrf { vrf-count } | vrrp { grp-per-intf } | pbr { seq-per-policy | nh-per-policy | ace-v4 | ace-v6 | ace-v4v6 | intf } | vrrp3 { grp-per-intf | grp-dft-timer | grp-relax-timer | path-dft-timer | grp-and-path }] } | { vxlan [igmp { vlan | vtep | underlay-mcast-group } | fl { vni | underlay-mcast-group | overlay-mac | vtep | ir-peer | ir-vni | ir-mac | vlan-mapping-under-intf | vlan-mapping-in-switch | static-mac-to-vtep | vlan-logical-port-vp | vlan-per-fex-port | vni-for-vpc-gw | igmp-group } | bgp { vni | svi | vrf | underlay-mcast-group | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group } | bgp-ir { vni | svi | vrf | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group }] } }] [history <num_intervals> [sort { current-scale [ascending | descending] | polled-timestamp [newest | oldest] }] | utilization | thresholds] [__readonly__ [<Info_Thres> <Warn_Thres> <Crit_Thres>] [{ TABLE_technology <Technology> [{ TABLE_feature <Feature> [<Instance>] [<Verified_Scale> <Config_Scale>] [{ TABLE_feature_stats <Used_Entries> [<Cur_Util>] [<Thres_Exceeded>


```
<tunnel_rx_byte_count> <tunnel_rx_rate> <tunnel_tx_pkt_count> <tunnel_tx_byte_count>
<tunnel_tx_rate> <tunnel_clear_counter> ]
```

- NEW: 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>] [<tunnel_vrf_name>] [<wccp_header>] [<ttl_val>] [<tunnel_pmtud_age_time>] [<tunnel_pmtud_min_mtu>] [<tunnel_pmtud>] [<tunnel_pgm_mtu>] [<tunnel_clear_counter>] [<tunnel_tx_pkt_count>] [<tunnel_tx_byte_count>] [<tunnel_tx_rate>] [<tunnel_rx_pkt_count>] [<tunnel_rx_byte_count>] [<tunnel_rx_rate>]]
- OLD: show interface [controller | quick] [__readonly__ TABLE interface <interface> [<state>] [<state_rsn_desc>] [<state_rsn>] [<vsan_brief>] [<oper_port_state>] [<port_state>] [<bound_interface>] [<port_desc>] [<port_des>] [<mgmt_hw_desc1>] [<mgmt_hw_addr1>] [<port_name>] [<hardware>] [<sfp>] [<port_wnn>] [<peer_port_wnn>] [<admin_mode>] [<admin_trunk_mode>] [<snmp_trap>] [<status>] [<state_rsn1>] [<fcot_info>] [<bind_info>] [<bind_mac>] [<bind_type>] [<port_mode>] [<fcid>] [<cfg_port_vsan>] [<vsan>] [<port_rate_mode>] [<oper_speed>] [<admin_speed>] [<port_channel>] [<ip_addr1>] [<oper_txbbcredit>] [<oper_rxbbcredit>] [<port_bb_scn>] [<admin_rxbufsize>] [<admin_port_encap>] [<admin_beacon_mode>] [<admin_fec_state>] [<oper_fec_state>] [<bundle_if_index>] [<trkd_if_index>] [<trk_cfg_vsans>] [<trkd_port_state>] [<num_ports>] [TABLE trk intf [<trk_intf>]] [<info_type_num>] [<info_model_num>] [<info_manufacturer>] [<info_port_id>] [<active_vsan>] [<trunk_vsan_up>] [<trunk_vsan_isolated>] [<trunk_vsan_initializing>] [<in_bps>] [<in_byps>] [<in_fps>] [<out_bps>] [<out_byps>] [<out_fps>] [<total_in_frames>] [<total_in_bytes>] [<total_in_discards>] [<total_in_errors>] [<invalid_crc>] [<unknown_class_frames>] [<frames_too_long>] [<frames_too_short>] [<total_out_frames>] [<total_out_bytes>] [<total_out_discards>] [<total_out_errors>] [<in_ols>] [<in_lrr>] [<in_nos>] [<in_loop_inits>] [<out_ols>] [<out_lrr>] [<out_nos>] [<out_loop_inits>] [<rx_b2b_perf_buff>] [<rx_b2b_credit>] [<tx_b2b_credit>] [<tx_b2b_low_pri_cre>] [<fcoe_in_pkts>] [<fcoe_in_octets>] [<fcoe_out_pkts>] [<fcoe_out_octets>] [TABLE members [<port_channel_member>]] [<interface_last_changed>] [<time_last_cleared>] [<interface_quick>] [<vsan_brief_quick>] [<oper_port_state_quick>] [<port_state_quick>] [<bound_interface_quick>] [<port_desc_quick>] [<port_des_quick>] [<mgmt_hw_desc1_quick>] [<mgmt_hw_addr1_quick>] [<port_name_quick>] [<hardware_quick>] [<sfp_quick>] [<port_wnn_quick>] [<peer_port_wnn_quick>] [<admin_mode_quick>] [<admin_trunk_mode_quick>] [<snmp_trap_quick>] [<status_quick>] [<state_rsn1_quick>] [<fcot_info_quick>] [<bind_info_quick>] [<bind_mac_quick>] [<bind_type_quick>] [<port_mode_quick>] [<fcid_quick>] [<cfg_port_vsan_quick>] [<vsan_quick>] [<port_rate_mode_quick>] [<oper_speed_quick>] [<admin_speed_quick>] [<port_channel_quick>] [<ip_addr1_quick>] [<oper_txbbcredit_quick>] [<oper_rxbbcredit_quick>] [<port_bb_scn_quick>] [<admin_rxbufsize_quick>] [<admin_port_encap_quick>] [<admin_beacon_mode_quick>] [<admin_fec_state_quick>] [<oper_fec_state_quick>] [<bundle_if_index_quick>] [<trkd_if_index_quick>] [<trk_cfg_vsans_quick>] [<trkd_port_state_quick>] [<num_ports_quick>] [TABLE trk intf_quick [<trk_intf_quick>]] [<info_type_num_quick>] [<info_model_num_quick>] [<info_manufacturer_quick>] [<info_port_id_quick>] [<active_vsan_quick>] [<trunk_vsan_up_quick>] [<trunk_vsan_isolated_quick>] [<trunk_vsan_initializing_quick>] [<in_bps_quick>] [<in_byps_quick>] [<in_fps_quick>] [<out_bps_quick>] [<out_byps_quick>] [<out_fps_quick>] [<total_in_frames_quick>] [<total_in_bytes_quick>] [<total_in_discards_quick>] [<total_in_errors_quick>] [<invalid_crc_quick>] [<unknown_class_frames_quick>] [<frames_too_long_quick>] [<frames_too_short_quick>] [<total_out_frames_quick>] [<total_out_bytes_quick>] [<total_out_discards_quick>] [<total_out_errors_quick>] [<in_ols_quick>] [<in_lrr_quick>] [<in_nos_quick>] [<in_loop_inits_quick>] [<out_ols_quick>] [<out_lrr_quick>] [<out_nos_quick>] [<out_loop_inits_quick>] [<rx_b2b_perf_buff_quick>] [<rx_b2b_credit_quick>]

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- OLD: 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>] [<bind_mac>] [<port_rate_mode>] [<oper_speed>] [<port_channel>] [<ip_addr1>] [{ TABLE_secondary_vlan <sec_vlan> <sec_vlan_type> }] [<svi_admin_state>] [<svi_rsn_desc>] } }
- NEW: 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>] [{ <tunnel-ipv4> | <tunnel-ipv6> }] [<encap-type>] [<mtu>] [<ratemode>] [<portchan>] [<proto>] [<interface_vfc>] [<vsan_brief>] [<admin_mode>] [<admin_trunk_mode>] [<status>] [<fcot_info>] [<bind_info>] [<bind_type>] [<bind_mac>] [<port_rate_mode>] [<oper_speed>] [<port_channel>] [<ip_addr1>] [{ TABLE_secondary_vlan <sec_vlan> <sec_vlan_type> }] [<svi_admin_state>] [<svi_rsn_desc>] } }
- OLD: show ip mroute [[[bitfield] [detail]] | sr | rp] [summary [count | software-forwarded | rpf-failed]] [{ [[<source> <group>] | [<group> [<source>]]] [shared-tree | source-tree | mofrr] [[flags] | [detail] | [bitfield] | [summary [software-forwarded | rpf-failed]]] }] [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> [<source_addr> <group_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>] [<translated-route-src>] [<translated-route-grp>] [<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>] [<core-interest>] [<fabric-interest>]] [<rpf>]] [<route-mdt-iod>] [<oif-list-bitfield>]]]]
- NEW: show ip mroute [[[bitfield] [detail]] | sr | rp] [summary [count | software-forwarded | rpf-failed]] [{ [[<source> <group>] | [<group> [<source>]] | [<gprefix> exact]] [shared-tree | source-tree | mofrr] [[flags] | [detail] | [bitfield] | [summary [software-forwarded | rpf-failed]]] }] [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> [<source_addr> <group_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>] [<translated-route-src>] [<translated-route-grp>] [<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>] [<core-interest>] [<fabric-interest>]] [<rpf>]] [<route-mdt-iod>] [<oif-list-bitfield>]]]]
- OLD: show ip nat statistics [__readonly__ <last_clear_time> <total_active_translations> <static_translations> <dynamic_translations> <icmp_translations> <total_exp_translations>

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- NEW: show ip nat statistics [__readonly__ <last_clear_time> <total_active_translations> <static_translations> <dynamic_translations> <icmp_translations> <total_exp_translations> <syn_exp_translations> <finrst_exp_translations> <inactive_exp_translations> <total_hits> <total_misses> <io_hits> <io_misses> <oi_hits> <oi_misses> <total_sw_translated> <io_sw_translated> <oi_sw_translated> <total_sw_dropped> <io_sw_dropped> <oi_sw_dropped> <addr_alloc_fail_drop> <port_alloc_fail_drop> <dyn_trans_maxlimit_drop> <icmp_maxlimit_drop> <allhost_maxlimit_drop> <total_tcp_session_created> <total_tcp_session_closed> [<Total_NAT_inside_interfaces>] [{ TABLE_NAT_inside_interfaces [<nat_inside_interfaces>] }] [<Total_NAT_outside_interfaces>] [{ TABLE_NAT_outside_interfaces [<nat_outside_interfaces>] }] [{ TABLE_NAT_inside_source_list [<nat_in_acl_name>] [<nat_in_acl_refcount>] [<nat_in_pool_name>] [<nat_pool_overload>] [<in_pool_total_address>] [<in_pool_allocated>] [<in_pool_allocated_percentage>] [<in_pool_missed>] [<interface_name>] [<interface_status>] [<interface_ip_addr>] }] [{ TABLE_NAT_outside_source_list [<nat_out_acl_name>] [<nat_out_acl_refcount>] [<nat_out_pool_name>] [<out_pool_total_address>] [<out_pool_allocated>] [<out_pool_allocated_percentage>] [<out_pool_missed>] }]]]
- OLD: show ip ospf [<tag>] route [<ip-addr> | <ip-prefix> [longer-prefixes]] [detail] [all_routes] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <ptag> <cname> [<hdr_addr>] [<hdr_masklen>] [TABLE_route <addr> <masklen> <type> [<in_ulib>] <in_rib> <direct> [<area>] [<tag>] [<sid>] [<in_label>] [<vlink_unresolved>] [TABLE_route_ubest_nh [<ubest_nh_addr>] [<ubest_nh_intf>] [<ubest_cost>] [<distance>] [<ubest_nh_direct>] [<ubest_nh_sham_link>] [<ubest_nh_te_tun>] [<ubest_nh_in_rib>] [<out_label>] [<lsa>]] [TABLE_route_mbest_nh [<mbest_nh_addr>] [<mbest_nh_intf>] [<mbest_cost>] [<mbest_nh_direct>] [<mbest_nh_in_rib>]]]]]
- NEW: 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_ulib>] <in_rib> <direct> [<area>] [<tag>] [<sid>] [<in_label>] [<vlink_unresolved>] [TABLE_route_ubest_nh [<ubest_nh_addr>] [<ubest_nh_intf>] [<ubest_cost>] [<distance>] [<ubest_nh_direct>] [<ubest_nh_sham_link>] [<ubest_nh_te_tun>] [<ubest_nh_in_rib>] [<out_label>]] [TABLE_route_mbest_nh [<mbest_nh_addr>] [<mbest_nh_intf>] [<mbest_cost>] [<mbest_nh_direct>] [<mbest_nh_in_rib>]]]]]
- OLD: show mac address-table count [static | dynamic | secure] [local] [{ [interface <interface-name> | { switch-id <swid> [sub-switch-id <sswid>] } | vlan <id>] + } | { [interface | <interface-name> | vni <vni-id> | [peer-ip <peer-ipv4> | peer-ipv6 <peer-ipv6>]] + }] [__readonly__ TABLE-macaddtblcount [<id-out>] [<count_str>] [<total_cnt>] [<dyn_cnt>] [<otv_cnt>] [<static_cnt>] [<secure_cnt>]]]

- NEW: 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> | peer-ipv6 <peer-ipv6>]] + }] [__readonly__ TABLE-macaddtblcount [<id-out>] [<count_str>] [<dyn_cnt>] [<otv_cnt>] [<static_cnt>] [<rvtep_static_cnt>] [<secure_cnt>] [<total_cnt>]]
- OLD: show telemetry control { database [subscriptions | destination-groups | destinations | sensor-paths | sensor-groups] | stats } [__readonly__ [<subscription_db_size>] [{ TABLE_subscriptions <subscription_id> <data_collector_type> }] [<sensor_grp_db_size>] [{ TABLE_sensor_grp <snsr_grp_row_idx> <snsr_grp_id> <snsr_grp_type> <snsr_grp_collector_type> <snsr_grp_timer_interval> <snsr_grp_timer_status> <snsr_grp_sub_count> <snsr_grp_sub_id> <snsr_grp_dc_cur_time> <snsr_grp_dc_min_time> <snsr_grp_dc_max_time> <snsr_grp_enc_cur_time> <snsr_grp_enc_min_time> <snsr_grp_enc_max_time> <snsr_grp_trans_cur_time> <snsr_grp_trans_min_time> <snsr_grp_trans_max_time> <snsr_grp_stream_cur_time> <snsr_grp_stream_min_time> <snsr_grp_stream_max_time> <snsr_grp_stream_col_id_drop> <snsr_grp_stream_last_col_id_drop> <snsr_grp_stream_col_drop> }] [<sensor_path_db_size>] [{ TABLE_sensor_path <path_row_idx> <path_subscribed> <path_group_count> <path_secondary_group_count> <path_level> <path_name> <path_grp_id> <path_query_condition> <path_filter_condition> <path_gpb_cur_enc_size> <path_gpb_min_enc_size> <path_gpb_max_enc_size> <path_json_cur_enc_size> <path_json_min_enc_size> <path_json_max_enc_size> <path_dc_cur_time> <path_dc_min_time> <path_dc_max_time> <path_enc_cur_time> <path_enc_min_time> <path_enc_max_time> <path_trans_cur_time> <path_trans_min_time> <path_trans_max_time> <path_stream_cur_time> <path_stream_min_time> <path_stream_max_time> }] [<destination_group_db_size>] [<destination_group_use_vrf>] [{ TABLE_destination_group <destination_group_id> <destination_group_refcount> }] [<destination_db_size>] [{ TABLE_destinations <destination_ip> <destination_port> <destination_encoding> <destination_transport> <destination_refcount> }] [db_statistics <chunk_alloc_fail> <sensor_path_chunk_create_fail> <sensor_group_chunk_create_fail> <destination_chunk_create_fail> <destination_group_chunk_create_fail> <subscription_chunk_create_fail> <sensor_path_db_create_fail> <sensor_group_db_create_fail> <destination_db_create_fail> <destination_group_db_create_fail> <subscription_db_create_fail> <sensor_path_db_insert_fail> <sensor_group_db_insert_fail> <destination_db_insert_fail> <destination_group_db_insert_fail> <subscription_db_insert_fail> <sensor_path_db_delete_fail> <sensor_group_db_delete_fail> <destination_db_delete_fail> <destination_group_db_delete_fail> <subscription_db_delete_fail> <sensor_path_delete_in_use> <sensor_group_delete_in_use> <destination_delete_in_use> <destination_group_delete_in_use> <delete_destination_in_use_fail> <sensor_path_sensor_group_list_create_fail> <sensor_path_prop_list_create_fail> <sensor_path_secondary_sensor_path_list_create_fail> <sensor_path_secondary_sensor_group_list_create_fail> <sensor_group_sensor_path_list_create_fail> <sensor_group_subscription_list_create_fail> <destination_group_subscription_list_create_fail> <destination_group_destination_list_create_fail> <destination_destination_group_list_create_fail> <subscription_sensor_group_list_create_fail> <subscription_destination_group_list_create_fail> <sensor_group_sensor_path_list_delete_fail> <sensor_group_subscription_list_delete_fail> <sensor_group_subscription_unsupported_data_source_fail> <destination_group_subscription_list_delete_fail> <destination_group_destination_list_delete_fail> <subscription_sensor_group_list_delete_fail> <subscription_destination_group_list_delete_fail> <destination_destination_group_list_delete_fail> <destination_delete_from_destination_group_fail> <destination_group_delete_from_subscription_fail> <sensor_group_delete_from_subscription_fail> <sensor_path_delete_from_sensor_group_fail> <get_encode_cb_fail> <get_transport_cb_fail>]]
- NEW: show telemetry control { database [subscriptions | destination-groups | destinations | sensor-paths | sensor-groups] | stats } [__readonly__ [<subscription_db_size>] [{ TABLE_subscriptions <subscription_id> <data_collector_type> }] [<sensor_grp_db_size>] [{ TABLE_sensor_grp

```

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<path_secondary_group_count> <path_level> <path_name> <path_grp_id> <path_query_condition>
<path_filter_condition> <path_gpb_cur_enc_size> <path_gpb_min_enc_size> <path_gpb_max_enc_size>
<path_json_cur_enc_size> <path_json_min_enc_size> <path_json_max_enc_size>
<path_cgpb_cur_enc_size> <path_cgpb_min_enc_size> <path_cgpb_max_enc_size> <path_dc_cur_time>
<path_dc_min_time> <path_dc_max_time> <path_enc_cur_time> <path_enc_min_time>
<path_enc_max_time> <path_trans_cur_time> <path_trans_min_time> <path_trans_max_time>
<path_stream_cur_time> <path_stream_min_time> <path_stream_max_time> } ] [
<destination_group_db_size> ] [ <destination_group_use_vrf> ] [ { TABLE_destination_group
<destination_group_id> <destination_group_refcount> } ] [ <destination_db_size> ] [ {
TABLE_destinations <destination_ip> <destination_port> <destination_encoding> <destination_transport>
<destination_refcount> } ] [ db_statistics <chunk_alloc_fail> <sensor_path_chunk_create_fail>
<sensor_group_chunk_create_fail> <destination_chunk_create_fail>
<destination_group_chunk_create_fail> <subscription_chunk_create_fail> <sensor_path_db_create_fail>
<sensor_group_db_create_fail> <destination_db_create_fail> <destination_group_db_create_fail>
<subscription_db_create_fail> <sensor_path_db_insert_fail> <sensor_group_db_insert_fail>
<destination_db_insert_fail> <destination_group_db_insert_fail> <subscription_db_insert_fail>
<sensor_path_db_delete_fail> <sensor_group_db_delete_fail> <destination_db_delete_fail>
<destination_group_db_delete_fail> <subscription_db_delete_fail> <sensor_path_delete_in_use>
<sensor_group_delete_in_use> <destination_delete_in_use> <destination_group_delete_in_use>
<delete_destination_in_use_fail> <sensor_path_sensor_group_list_create_fail>
<sensor_path_prop_list_create_fail> <sensor_path_secondary_sensor_path_list_create_fail>
<sensor_path_secondary_sensor_group_list_create_fail> <sensor_group_sensor_path_list_create_fail>
<sensor_group_subscription_list_create_fail> <destination_group_subscription_list_create_fail>
<destination_group_destination_list_create_fail> <destination_destination_group_list_create_fail>
<subscription_sensor_group_list_create_fail> <subscription_destination_group_list_create_fail>
<sensor_group_sensor_path_list_delete_fail> <sensor_group_subscription_list_delete_fail>
<sensor_group_subscription_unsupported_data_source_fail>
<destination_group_subscription_list_delete_fail> <destination_group_destination_list_delete_fail>
<subscription_sensor_group_list_delete_fail> <subscription_destination_group_list_delete_fail>
<destination_destination_group_list_delete_fail> <destination_delete_from_destination_group_fail>
<destination_group_delete_from_subscription_fail> <sensor_group_delete_from_subscription_fail>
<sensor_path_delete_from_sensor_group_fail> <get_encode_cb_fail> <get_transport_cb_fail> ] ]

```

Deprecated Commands

The following commands are removed in this release.

- show boot timings
- show logging level ip msdp



New, Changed, and Deprecated Show Commands in Cisco Nexus 9000 Release 9.3(3)

- [New, Changed, and Deprecated Show Commands, on page 3224](#)

- show consistency-checker fcoe [{ interface <if1> } | { npv [server-interface <svr_if1> external-interface <ext_if1>] } | { hw-table { pif | vif | ucpcfg | vsan | acl | fib [flogi | domain [local | remote]] | fcf | zone | mac } } | { [exclude] ping } | { drop [ingress | egress] }] [verbose [detail]]
- show consistency-checker pacl extended module { all | <module-id> } [brief | detail]
- show consistency-checker racl extended egress ip module <module-id> [brief | detail]
- show consistency-checker racl extended egress ipv6 module <module-id> [brief | detail]
- show consistency-checker racl extended module { all | <module-id> } [brief | detail]
- show consistency-checker vxlan l2 mac-address <mac-addr> module <module> [brief | detail]
- show consistency-checker vxlan l3 single-route { ipv4 | ipv6 } <ip-prefix> vrf { <vrf-name> | <vrf-known-name> } [debug-logs] [brief | detail]
- show consistency-checker { l2-tahoe | l2-mtc } module <module> [unit <unit>] [brief | detail]
- show device-alias database
- show device-alias merge status
- show device-alias name <s0> [pending]
- show device-alias pending
- show device-alias pending-diff
- show device-alias pwwn <wwn0> [pending]
- show device-alias session rejected
- show device-alias session status
- show device-alias statistics
- show device-alias status
- show dpvm database [active]
- show dpvm device [pwwn <wwn0>] [nwwn <wwn1>]
- show dpvm fip
- show dpvm merge statistics
- show dpvm merge status
- show dpvm pending [activation status]
- show dpvm pending-diff
- show dpvm ports [vsan <i0>]
- show dpvm session status
- show dpvm status
- show fabric switch information [vsan <i0>]
- show fabric-binding database [{ active [vsan <i0>] | vsan1 <i1> }]

- show fabric-binding efmd statistics [vsan <i0>]
- show fabric-binding fip
- show fabric-binding statistics [vsan <i0>]
- show fabric-binding status [vsan <i0>]
- show fabric-binding violations [last <i0>]
- show fcalias [[name <s0>] [[pending] [vsan <i0>]]]
- show fcdomain
- show fcdomain address-allocation [{ cache | vsan <i0> }]
- show fcdomain allowed [vsan <i0>]
- show fcdomain domain-list [vsan <i0>]
- show fcdomain fcid persistent [{ unused [vsan <i0>] | vsan1 <i1> }]
- show fcdomain pending [vsan <i0>]
- show fcdomain pending-diff [vsan <i0>]
- show fcdomain session-status [vsan <i0>]
- show fcdomain statistics [{ interface <if0> [vsan <i0>] | vsan1 <i1> }]
- show fcdomain status
- show fcdomain vsan <i0>
- show fcid-allocation area
- show fcid-allocation company-id-from-wwn <wwn0>
- show fcns database [{ detail [vsan <i0>] | domain <i1> [{ detail [vsan1 <i2>] | vsan2 <i3> }] | fcid <fcid4> { detail2 vsan3 <i5> | vsan4 <i6> } | local [{ detail1 [vsan5 <i7>] | vsan6 <i8> }] | npv [{ detail1 [vsan7 <i9>] | node_wwn <wwn10> [vsan8 <i11>] | vsan9 <i12> }] | proxy-host { detail4 vsan10 <i13> | vsan11 <i14> } | vsan12 <i15> }]
- show fcns statistics [{ detail [vsan <i0>] | vsan1 <i1> }]
- show fcs database [vsan <i0>]
- show fcs ie [{ nwwn <wwn0> vsan <i1> | vsan1 <i2> }]
- show fcs platform { name <s0> vsan <i0> | vsan1 <i1> }
- show fcs port { pwwn <wwn0> vsan <i1> | vsan1 <i2> }
- show fcs statistics [vsan <i0>]
- show fcs vsan
- show fdmi database
- show fdmi database detail
- show fdmi database detail hba-id <wwn0> vsan <i1>

- show fdmi database detail vsan <i0>
- show fdmi database vsan <i0>
- show fdmi suppress-updates
- show flogi auto-area-list
- show flogi database [{ details | [fcid <fcid0>] [details] | [interface <if0>] [details] | [vsan <i1>] [details] }]
- show flow vrf [<vrf_name>] [__readonly__ [{ TABLE_flow_vrf [<vrf_name>] [<v4in_mon_name>] [<v4in_direction>] [<v6in_mon_name>] [<v6in_direction>] [<filter_name>] }]]
- show forwarding distribution srv6 local-sid bd-mapping [__readonly__ { local_sid_bd_map <sid_bd_map> } [{ TABLE_local_sid <local_sid> <Table_id> <func_type> <bd> <locator> <function> <args> }]]
- show forwarding srv6 adjacency decap [table <table_id>] [module <num>] [__readonly__ { TABLE_adj_decap <locator> <function> <behavior> <tableid> <bd> <is_drop> }]
- show forwarding srv6 adjacency encap [table <table_id>] [module <num>] [__readonly__ { TABLE_adj_encap <loc_bsid> <source_ip> <function> <tableid> <is_drop> }]
- show forwarding srv6 ecmp [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | [table <table_id>]] [module <num>] [__readonly__ { TABLE_ecmp <num_paths> <table_id> { TABLE_adj <loc_bsid> <source_ip> <function> } }]
- show forwarding srv6 local-sid [<sid_value>] [detail] [module <num>] [__readonly__ { TABLE_local_sid <locator> <source_ip> <function> <behavior> <sid> }]
- show forwarding srv6 peers [module <num>] [__readonly__ { TABLE_peers <peer_id> <locator> <source_ip> <vobj_count> }]
- show fspf
- show fspf database [vsan <i0> [[domain <i1>] [detail]]]
- show fspf interface
- show fspf vsan <i0>
- show fspf vsan <i0> interface [<if0>]
- show install all progress
- show ip traffic pps [__readonly__ [{ TABLE_ip_pps [<ip_pps_type>] <ip_pps_threshold_size> <ip_pps_threshold_log_interval> }]]
- show ipt details [__readonly__ <probe_marker> <source_monitor> <sink_monitor>]
- show ipv6 [icmp] mld global traffic [__readonly__ [{ 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> }]]
- show ipv6 [icmp] mld 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>] [<querier>] [<q-ver>] [<next-query>] [<expires>] [<mc>] [<ver>] [<host-ver>] [<qid>] [<cqi>] [<mrt>] [


```
<vpcdrqf> ] [ <vpcdrus> ] [ <vpcdrur> ] [ <vpcdruf> ] [ <vpccfssf> ] [ <vpccfsrs> ] [ <vpccfsrr> ] [
<vpccfsrf> ] [ <vpccfsrfp> ] [ <vpccfsurls> ] [ <vpccfsurlr> ] [ <vpccfsurlf> ] [ <vpccfsrls> ] [ <vpccfsrlr> ]
] [ <vpccfsrlf> ] [ <inv_iod> ] [ <stptcnr> ] [ <imapif> ] [ <mfreqr> ] [ <mfcmps> ] [ <mfdbgmps> ] [
<bufsnt> ] [ <bufackr> ] [ <vpemismatch> ] [ { 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> ] [ <mpr> ] [ <mpr> ] [ <mpe> ] [ <cps> ] [ <cpr> ] [ <cpe> ] [ <repflooded> ] [ <repfwded> ]
} ] ] ]
```

- show ipv6 mld snooping { report-policy | access-group } statistics [vlan <vlan>] [__readonly__ [TABLE_vlanid { <vlan-id> <rpm-type> <policy-name> }]]
- show ipv6 mld 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> }]
- show ipv6 pim config-sanity [__readonly__ [TABLE_vrf [<out-context>] [TABLE_RP [<rp-addr>] [<rperr-count>] [<rp-interface>] [<rp-error>]] [TABLE_ANYCAST [<arperr-count>] [<anycast-rp-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>]]]]]
- show ipv6 pim host-proxy [__readonly__ TABLE_intf <intf-name>]
- show ipv6 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> }]]]
- show ipv6 pim mdt bgp [mdt-source <src-addr>] [__readonly__ { TABLE_entry <bgp_rd> <mdt_src> <mdt_grp> <local> }]
- show ipv6 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> }]]
- show ipv6 pim mdt receive [detail] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf [<out_context>] [TABLE_entry [<csrc>] [<cgrp>] [<psrc>] [<pgrp>] [<uptime>] [<expires>] [<recv_count>]]]
- show ipv6 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> }]]
- show ipv6 pim policy statistics { register-policy | bsr { bsr-policy | rp-candidate-policy } } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf_name_stats> { TABLE_routemap <name> <action> <seq_num> [{ TABLE_cmd <command> <compare_count> <match_count> }] } <total_accept_count> <total_reject_count>]
- show isis [<isis-tag>] segment-routing srv6 [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <vrf-id-out> <srv6-enabled-out> <sidmgr-registered-out> } }]

- show isis [<isis-tag>] segment-routing srv6 locators [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <vrf-id-out> <srv6-enabled-out> [{ TABLE_locators <name-out> <active-out> [<ipv6-prefix-out>] [<mask-len-out>] <sidmgr-cfg-complete-out> <isis-cfg-complete-out> <stale-locator-out> [{ TABLE_level <level-out> <advertised> [<lsp-id-out>] }] } } } }]
- show lcnd dot1x address { <macaddr> | all }
- show lcnd dot1x port <portnum>
- show lcnd trace events
- show lcnd trace file
- show license all [__readonly__ <smart_status> { smart_reg_info <reg_status> { [<smart_account>] [<virtual_account>] [<export_controlled>] [<initial_reg>] [<fail_reason>] [<next_reg_attempt>] [<last_renew_attempt>] [<next_renew_attempt>] [<reg_expire_time>] } } { smart_auth_info <auth_status> { [<last_attempt>] [<fail_reason>] [<next_attempt>] [<auth_expire_time>] } } { smart_dlc_info <autoconv_status> <conv_status> { [<conv_initial_time>] [<conv_failure_reason>] [<conv_next_time>] } } [TABLE_smart_feat_info { <feature_name> <description> <count> <version> <status> }] { local_udi [<local_pid>] <local_sn> } [TABLE_udiList <role> <pid> <sn>] { smart_version <version> }]
- show license status [__readonly__ <smart_status> { smart_reg_info <reg_status> { [<smart_account>] [<virtual_account>] [<export_controlled>] [<initial_reg>] [<fail_reason>] [<next_reg_attempt>] [<last_renew_attempt>] [<next_renew_attempt>] [<reg_expire_time>] } } { smart_auth_info <auth_status> { [<eval_period>] [<last_attempt>] [<fail_reason>] [<next_attempt>] [<auth_expire_time>] } } { smart_dlc_info <autoconv_status> <conv_status> { [<conv_initial_time>] [<conv_failure_reason>] [<conv_next_time>] } }]
- show license summary [__readonly__ <smart_status> { smart_reg_info <reg_status> { [<smart_account>] [<virtual_account>] [<export_controlled>] } } { smart_auth_info { [<auth_status>] [<eval_period>] } } { smart_dlc_info <autoconv_status> <conv_status> { [<conv_initial_time>] [<conv_failure_reason>] [<conv_next_time>] } } [TABLE_smart_feat_info { <license_name> <feature_name> <count> <status> }]]
- show license udi [__readonly__ { local_udi [<local_pid>] <local_sn> } [TABLE_udiList <role> <pid> <sn>]]
- show logging level [ipv6] mld
- show logging level acl
- show logging level device-alias
- show logging level dhclient
- show logging level dpvm
- show logging level fcdomain
- show logging level fcns
- show logging level fcs
- show logging level fdmi
- show logging level flogi

- show logging level fspf
- show logging level ipv6 mfw
- show logging level ipv6 pim
- show logging level oim
- show logging level rd1
- show logging level rib
- show logging level rscn
- show logging level scsi-target
- show logging level tunenc_mgr
- show logging level zone
- show mcast [vsan <i0>]
- show npiv status
- show platform vnic info [__readonly__ <scheme> <total-vnics> <vnics-mapped> <vnics-unmapped> <mgmt-int-device> <mgmt-int-mac> { TABLE_linecard_info <module> <module-vnics> }]
- show platform vnic mapped [module <module-num>] [__readonly__ { TABLE_interface_info <nxos-interface> <mac-address> <vnic> }]
- show procmon req-type <i0> oc-path <s0> depth <i1>
- show role status
- show routing ipv6 multicast lisp encap [__readonly__ { TABLE_m6rib_list_encap <encap-index> <source-rloc> <dest-rloc> <ref-count> }]
- show routing ipv6 multicast mdt encapsulation [detail] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf <vrf-name> [TABLE_mdt <index> <group> <source> <count> <delete-pending>]]]
- show routing ipv6 multicast sr [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf <vrf-name> <mode> <mac-rewrite> [TABLE_route <interface> <in-group-range> <to-group-range> <group-mask> <in-source-range> <to-source-range> <source-mask>]]]
- show routing ipv6 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> [<expyr_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> [<source_addrs> <group_addrs>] <pending> <bidir> <uptime> <moirr> [TABLE_mpib [<mpib-name>] [<oif-count>] [<stale-route>]] [<mdt-encap-index>] [<stats-pkts>] [<stats-bytes>] [<stats-rate_buf>] [<lisp-src-rloc>] [<translated-route-src>] [<translated-route-grp>] [<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> ] [ <core-interest> ] [ <fabric-interest> ] ] <rpf> ] [
<route-mdt-iod> ] [ <oif-list-bitfield> ] [ TABLE_extranet [ <extranet_vrf_name> ] [ <extranet_addr>
] [ <extranet_oif_count> ] ] ] ]
```

- show rscn event-tov vsan <i0>
- show rscn pending vsan <i0>
- show rscn pending-diff vsan <i0>
- show rscn scr-table [vsan <i0>]
- show rscn session status vsan <i0>
- show rscn statistics { [vsan <i0>] | detail [vsan <i1>] }
- show rscn status
- show running-config mld [all]
- show running-config ofm [all]
- show running-config zone
- show running-config zone vsan <vsan-id>
- show srv6 clients [__readonly__ TABLE_client <name> <id> <state> <createtime> <modifytime> <pid> <epid> <notifysid> <mtsqh> <mtssap> [TABLE_msgs_rcvd <Register> <State_Change> <SID_add> <SID_del>] [TABLE_msgs_sent <Locator_add> <Locator_del> <Loc_Down_Pending> <Locator_Down> <Sid_add_ack> <Sid_del_ack> <Sid_add> <Sid_del> <Encap_add> <Encap_del>]]
- show srv6 locator [detail] [__readonly__ [TABLE_locator <locname> <locid> <locprefix> <locstate> [sid-count] [loc-created] [loc-modified] [mod-reason]]]
- show srv6 manager [__readonly__ { parameters <enabled> [src_address <configured>] } { summary <nblocator> <nblocup> <nbsid> } { capabilities { { end-functions [TABLE_endfunct <efunct-name>] } { transit-functions [TABLE_tfunct <tfunct-name>] } { security [TABLE_secrule <sec-rule>] } } [max-sid <max-sid-count>] [sid-holdtime-sec <sid-hold>] } }]
- show srv6 sid <ipv6-addr> counters [__readonly__ <counter-sid> <counter-sid-type> <counter-rx-packets> <counter-rx-bytes> <counter-tx-packets> <counter-tx-bytes>]
- show srv6 sid [<ipv6-addr>] [detail] [__readonly__ [TABLE_loc <sidlocname> [{ TABLE_sid <sidaddr> <sidfunct> <sidctx> <sidowner> <sidstate> <sidrewrite> [det-ctx] [loc-name] [alloc-type] [created] [modified] }]]]
- show startup-config mld [all]
- show startup-config ofm [all]
- show startup-config zone
- show startup-config zone vsan <vsan-id>
- show system default zone
- show tech-support acl [{ commands | detail [commands] }]

- show tech-support device-alias
- show tech-support dpvm
- show tech-support epp
- show tech-support fcdomain [commands]
- show tech-support fens [vsan <i0>]
- show tech-support fcs
- show tech-support feature [commands]
- show tech-support fib module <module>
- show tech-support fib-all
- show tech-support flogi
- show tech-support forwarding srv6 [module <module>]
- show tech-support fspf [commands]
- show tech-support interfaces
- show tech-support ipv6 mfwd [brief]
- show tech-support ipv6 mld snooping [brief]
- show tech-support nexus9000v
- show tech-support ofm [server-only] [all]
- show tech-support oim [brief]
- show tech-support rib
- show tech-support rscn [vsan <i0>]
- show tech-support slowdrain [commands]
- show tech-support zone [[commands] [vsan <i0>]]
- show telemetry dynamic configuration [__readonly__ [<subscription_id>] [{
TABLE_destination_groups <dst_grp_row_idx> <dst_grp_id> }] [{ TABLE_sensor_groups
<snsr_grp_row_idx> <snsr_grp_id> <snsr_grp_sample_interval> }] [<destination_group_id>] [{
TABLE_destinations <destination_ip> <destination_port> <destination_encoding> <destination_transport>
}] [<snsr_grp_id>] [{ TABLE_sensor_path <path_row_idx> <path_name> }]]
- show telemetry port-counters [interface <if_name>] [__readonly__ [{ TABLE_port_counters <if_name>
<portInIpv4> <portOutIpv4> <portInIpv6> <portOutIpv6> <portPacketInIpv4> <portPacketOutIpv4>
<portPacketInIpv6> <portPacketOutIpv6> <portInIpv4Bps> <portOutIpv4Bps> <portInIpv6Bps>
<portOutIpv6Bps> <portPacketInIpv4Pps> <portPacketOutIpv4Pps> <portPacketInIpv6Pps>
<portPacketOutIpv6Pps> }]]
- show telemetry syslog-filter [__readonly__ [{ TABLE_syslog_filter_table <syslog_filter_row_idx>
<syslog_filter_path> }]]

- show telemetry yang direct-path { all | cisco-nxos-device | openconfig-interfaces | openconfig-lldp | openconfig-network-instance } [__readonly__ [{ TABLE_path_list <list_row_idx> <path_name> }]]
- show topology [vsan <i0>]
- show topology isl [[san-port-channel <i1>] [detail]]
- show topology isl [[vsan <i0>] [detail]]
- show topology isl [detail]
- show troubleshoot l2 port-channel [interface <ch-id>]
- show tunnel-profile [<profile-name>] [__readonly__ [<num_of_profiles>] [<num_of_err_routes>] [TABLE_tunnel <profile-name> <encap-type> <src-vtep> <src-intf> <status>]]
- show wwn oui [__readonly__ [TABLE_oui <oui> [<vendor>] [<type>]]]
- show zone
- show zone [name <s0>] vsan <i0>
- show zone active [vsan <i0>]
- show zone analysis [pending] { active vsan <i0> | vsan1 <i1> | zoneset <s0> vsan2 <i2> }
- show zone ess [vsan <i0>]
- show zone member { fcalias <s0> [[active] [vsan <i0>]] | fcid <fcid1> [[lun <lun2>] [[active] [vsan1 <i3>]]] | pwwn <wwn4> [[lun1 <lun5>] [[active] [vsan2 <i6>]]] | device-alias <s7> [[lun2 <lun8>] [[active] [vsan3 <i9>]]] }
- show zone name <s0>
- show zone name <s0> active [vsan <i0>]
- show zone name <s0> pending [{ active [vsan <i0>] | vsan1 <i1> }]
- show zone pending [{ active [vsan <i0>] | vsan1 <i1> }]
- show zone pending-diff [vsan <i0>]
- show zone policy [{ pending [vsan <i0>] | vsan1 <i1> }]
- show zone smart-zoning auto-conv log errors
- show zone smart-zoning auto-conv status vsan <i0>
- show zone statistics
- show zone statistics vsan <i0>
- show zone status [{ vsan <i0> | global }]
- show zone vsan <i0>
- show zone-attribute-group [[name <s0>] [[pending] [vsan <i0>]]]
- show zoneset [[name <s0>] [[pending] [[brief] [[active] [vsan <i0>]]]]]]]

Changed Commands

The following commands are modified in this release.

- OLD: 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>] [<bfdmintxinterval>] [<bfdminrxinterval>] [<bfdmultiplier>] [<bfdauthenticationtype>] [<ttlsecurity>] [<tllimit>] [<dscp>] [<password>] [<passiveonly>] <localas-inactive> [<remove-privateas>] [<configholdtime> <configkeepalivetime>] [TABLE_peraf <per-afi> TABLE_persaf <per-safi> <per-af-name> [<tableversion>] [<neighbortableversion>] [<pfxrcvd>] [<pathsrcvd>] [<pfxbytes>] [<pfxsent>] [<pathsent>] [<conditionmap> <advertisemap> <advertisemapstatus>] [<insoftreconfigallowed>] [<insoftreconfigallowedalways>] [<sendcommunity>] [<sendextcommunity>] [{ <localnexthop> | <ipv6localnexthop> }] [<thirdpartynexthop>] [<maxpfx>] [<maxpfx_threshold>] [<soo>] [<weight>] [<allowasin>] <asoverride> <peerascheckdisabled> [<vplssignalingprotocol>] [{ TABLE_inpolicy <inpolicynr> <inpolicytype> <inpolicynr> [<inpolicyhandle>] }] [{ TABLE_outpolicy <outpolicynr> <outpolicytype> <outpolicynr> [<outpolicyhandle>] }] <rrconfigured> <defaultoriginate> [<defaultoriginatormap>] [<defaultsent>] [<grpalthssaved>] [<firsteorrcvd>] [<firsteortime>] [<pathsflushed>] [<lasteorrcvtime>] [<lasteorsenttime>] [<firstconvgttime>] [<pfxsentfirsteor>] [<unsuppress-map>] [{ TABLE_policy_template <preference> <inherit-policy-template> }] [TABLE_vrf <vrf-name> [TABLE_inheritingpeer <inheritingpeer>]] }] }
- NEW: show [ip] bgp peer-template [<peer-template-name>] [__readonly__ { TABLE_neighbor <templatepeer> [<remoteas>] [<inherit-template>] [<inherit-session-template>] [{ <prefix-parent> | <ipv6prefix-parent> | <interface-parent> }] [<description>] [<sourceif>] [<connectedcheck>] [<lowmemexempt>] [<bfd>] [<bfdmintxinterval>] [<bfdminrxinterval>] [<bfdmultiplier>] [<bfdauthenticationtype>] [<ttlsecurity>] [<tllimit>] [<dscp>] [<password>] [<passiveonly>] <localas-inactive> [<remove-privateas>] [<configholdtime> <configkeepalivetime>] [TABLE_peraf <per-afi> TABLE_persaf <per-safi> <per-af-name> [<tableversion>] [<neighbortableversion>] [<pfxrcvd>] [<pathsrcvd>] [<pfxbytes>] [<pfxsent>] [<pathsent>] [<conditionmap> <advertisemap> <advertisemapstatus>] [<insoftreconfigallowed>] [<insoftreconfigallowedalways>] [<sendcommunity>] [<sendextcommunity>] [{ <localnexthop> | <ipv6localnexthop> }] [<thirdpartynexthop>] [<maxpfx>] [<maxpfx_threshold>] [<soo>] [<weight>] [<allowasin>] <asoverride> <peerascheckdisabled> [<vplssignalingprotocol>] [{ TABLE_inpolicy <inpolicynr> <inpolicytype> <inpolicynr> [<inpolicyhandle>] }] [{ TABLE_outpolicy <outpolicynr> <outpolicytype> <outpolicynr> [<outpolicyhandle>] }] <rrconfigured> <defaultoriginate> [<defaultoriginatormap>] [<defaultsent>] [<grpalthssaved>] [<firsteorrcvd>] [<firsteortime>] [<pathsflushed>] [<lasteorrcvtime>] [<lasteorsenttime>] [<firstconvgttime>] [<pfxsentfirsteor>] [<unsuppress-map>] [{ TABLE_policy_template <preference> <inherit-policy-template> }] [TABLE_vrf <vrf-name> [TABLE_inheritingpeer <inheritingpeer> [<interface-parent>]]] }] }
- OLD: 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>] [<dscp>] [<routemapin>] [<routemapout>] [<filterlistin>] [<filterlistout>] [<prefixlistin>] [<prefixlistout>] [<maxprefixlimit>] [<defaultorigin>] }] [{ TABLE_vrf <vrf-name> { TABLE_peer <inheritingpeer> } }] }
- NEW: 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>] [<dscp>

```
][ <routemapin> ][ <routemapout> ][ <filterlistin> ][ <filterlistout> ][ <prefixlistin> ][ <prefixlistout>
][ <maxprefixlimit> ][ <defaultorigin> ]} ][ { TABLE_vrf <vrf-name> { TABLE_peer <inheritingpeer>
[ <interface-parent> ] } } ]]
```

- OLD: show boot timings
- NEW: show boot timings [detail]
- OLD: show bgp event-history { <bgp-event-hist> | msgs | sdwrap-errors }
- NEW: show bgp event-history { cli | detail | errors | events | logs | msgs | objstore | periodic | sdwrap-errors | socket }
- OLD: 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_rcvdpairs [<peer>] [<ipv6peer>] [<signalledtimepeer>] }] [{ TABLE_notrcvdpairs [<notpeer>] [<notipv6peer>] [<nokeepalive>] [<notsignalledtime>] } }]]]]]
- NEW: 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_rcvdpairs [<peer>] [<ipv6peer>] [<signalledtimepeer>] [<interface-parent>] }] [{ TABLE_notrcvdpairs [<notpeer>] [<notipv6peer>] [<nokeepalive>] [<notsignalledtime>] } }]]]]]
- OLD: 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> <gshut-aware> <gshut-activate> [<gshut-map>] <mmode> <memorystate> [<mallocmemorystate>] [<platformmemorystate>] [<lowmemorytimer>] [<issue>] <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-evpn-mps>] [<vrf-vni-id>] [<vrf-vni-id-valid>] [<vrf-topo-id>] [<vrf-encap-type>] [<vrf-vtep-ip>] [<vrf-vtep-virtual-ip>] [<vrf-vtep-vipr>] [<vrf-router-mac>] [<vrf-vip-router-mac>] [<vrf-vipr-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-configured>] [<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> }] <wait-igp-convergence>] [{

- ```

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>
] [TABLE_mvpn_export_rt <mvpn-export-rt>] [TABLE_mvpn_import_rt <mvpn-import-rt>] [
<af-label-mode>] [<af-aggregate-label>] [<srv6-alloc-mode>] [<srv6-end-function>] [
<importdefault_prefixlimit> <importdefault_prefixcount> <importdefault_map>
<importdefault_advertisevpn>] <import_vrf_advertisevpn> [<exportdefault_prefixlimit>
<exportdefault_prefixcount> <exportdefault_map> <exportdefault_allowvpn>] <export_vrf_allowvpn>
<af-rr> <default-information-enabled> [<default-information-rd> <default-information-rt>]
<nexthop-trigger-delay-critical> <nexthop-trigger-delay-non-critical> [<nexthop-route-map>] }]

```
- NEW: 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> <gshut-aware> <gshut-activate> [ <gshut-map> ] <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-evpn-mpls> ] [ <vrf-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-topo-id> ] [ <vrf-encap-type> ] [ <vrf-vtep-ip> ] [ <vrf-vtep-virtual-ip> ] [ <vrf-vtep-vip> ] [ <vrf-router-mac> ] [ <vrf-vip-router-mac> ] [ <vrf-vipr-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-configured> ] [ <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> } ] <wait-igp-convergence> [ { 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> ] [ TABLE\_mvpn\_export\_rt <mvpn-export-rt> ] [ TABLE\_mvpn\_import\_rt <mvpn-import-rt> ] [ <af-label-mode> ] [ <af-aggregate-label> ] [ <af-alloc-index> ] [ <srv6-sid-locator-name> ] [ <srv6-sid-locator-id> ] [ <srv6-sid-locator-prefix> ] [ <srv6-sid-src-enc-address> ] [ <srv6-vrf-sid-alloc> ] [ <srv6-vrf-dt46-sid> ] [ <srv6-vrf-dt-sid-alloc-pending> ] [ <srv6-vrf-dt-sid-del-pending> ] [ <srv6-vrf-sid-alloc-pending-reason> ] [ <srv6-tbl-sid-alloc> ] [ <srv6-tbl-dt-type> ] [ <srv6-tbl-dt-sid> ] [ <srv6-tbl-dt-sid-alloc-pending> ] [ <srv6-tbl-dt-sid-del-pending> ] [ <srv6-tbl-dt-sid-alloc-pending-reason> ] [ <srv6-alloc-mode> ] [ <importdefault\_prefixlimit> <importdefault\_prefixcount> <importdefault\_map> <importdefault\_advertisevpn> ] <import\_vrf\_advertisevpn> [ <exportdefault\_prefixlimit> <exportdefault\_prefixcount> <exportdefault\_map> <exportdefault\_allowvpn> ] <export\_vrf\_allowvpn> <af-rr> <default-information-enabled> [ <default-information-rd> <default-information-rt> ] <nexthop-trigger-delay-critical> <nexthop-trigger-delay-non-critical> [ <nexthop-route-map> ] } ] ]
  - OLD: 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> <vrfeestablishedpeers> <router-id> [ TABLE\_neighbor <neighbor-id> <connectionsdropped> <remoteas> [ <lastflap> ] [ <lastread> ] [ <lastwrite> ] <state> <localport> <remoteport> <notificationssent> <notificationsreceived> ] ]
  - NEW: 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> [
<interface-parent>] <remotestas> [<lastflap>] [<lastread>] [<lastwrite>] <state> <localport>
<remoteport> <notificationssent> <notificationsreceived>]]
```

- OLD: 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> ] [ <table-map-filtered> ] [ <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> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref> ] } } } | { <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <importsource> [ <originalimportsource> ] ] [ <importdstscount> ] [ TABLE\_importdsts <importdest> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> <atomicaggregate> ] [ <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> ] ] ] ]
- NEW: 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> ] [ <table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <srv6-local-sid> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE\_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { <inlabel> <outlabel> <vpn> <hold\_down> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref> ] } } } | { <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> <pathlocator> ] [ <importsource> [ <originalimportsource> ] ] [ <importdstscount> ] [ TABLE\_importdsts <importdest> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> <atomicaggregate> ] [ <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\_sub\_type> <psid\_v6sid> <psid\_func\_len> <psid\_trans\_len> <psid\_trans\_off> ] [ <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\_path\_attr\_list <path\_attr\_list> [ TABLE\_attr <attr\_num> <attr\_code\_str> <attr\_code\_hex> <attr\_flags> <attr\_len> [ TABLE\_attr\_val

```
<attr_value>]]]] } } [TABLE_advertisedto <advertisedto>] [TABLE_scheduledto <scheduledto>
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] [TABLE_scheduledto <scheduledto>]]]]
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- NEW: show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] { { ipv4 { unicast | multicast } | vpv4 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 } | vpv6 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> ] | detail | 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> | detail ] | 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> ] [ <table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <srv6-local-sid> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE\_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { <inlabel> <outlabel> <vpn> <hold\_down> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref> ] } } } | { <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> <pathlocator> ] [ <importsource> [ <originalimportsource> ] ] [ <importdestscount> ] [ TABLE\_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras> <atomicaggregate> ] [ <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\_sub\_type> <psid\_v6sid> <psid\_func\_len> <psid\_trans\_len> <psid\_trans\_off> ] [ <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\_path\_attr\_list <path\_attr\_list> [ TABLE\_attr <attr\_num> <attr\_code\_str> <attr\_code\_hex> <attr\_flags> <attr\_len> [ TABLE\_attr\_val <attr\_value> ] ] ] } } [ TABLE\_advertisedto <advertisedto> ] [ TABLE\_scheduledto <scheduledto> ] ] ] ]



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] [TABLE_scheduledto <scheduledto>]]]]

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- NEW: show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] {
ipv4 { unicast | multicast } | ipv6 { unicast | multicast } | all } } | vpv4 unicast | vpv6 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> } [
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] ] ] ]

- OLD: show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] { ipv4
{ unicast | multicast } | ipv6 { unicast | multicast } | all } } | vpv4 unicast | vpv6 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\_\_ [
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- <egress\_port> ] [ <egress\_device> ] [ <mode> ] [ <l2\_lb> ] ] ] [ { TABLE\_dgroup <name> [ <vrf> ] [ <probe> ] [ <srcloopbackip> ] <num\_nodes> [ { TABLE\_node <node\_ip> <status> } ] ] ] ]
- OLD: show consistency-checker forwarding single-route { ipv4 | ipv6 } <ip-prefix> vrf <vrf-name> [ brief | detail ]
  - NEW: show consistency-checker forwarding single-route { ipv4 | ipv6 } <ip-prefix> vrf { <vrf-name> | <vrf-known-name> } [ brief | detail ]
  - OLD: show consistency-checker gwmacdb
  - NEW: show consistency-checker gwmacdb [ interface { <int-id> | <ch-id> | <vlan-id> } ] [ brief | detail ]
  - OLD: show consistency-checker l2-tahoe mac-address <mac-addr> [ module <module> ] [ unit <unit> ]
  - NEW: show consistency-checker l2-tahoe mac-address <mac-addr> [ module <module> ] [ unit <unit> ] [ brief | detail ]
  - OLD: show consistency-checker l3 multicast [ group { <grp-address> [ <mask> ] | <gprefix> } ] source <src-address> vrf <vrf-string> [ debug-logs ] [ brief | detail ]
  - NEW: show consistency-checker l3 multicast [ group { <grp-address> [ <mask> ] | <gprefix> } ] source <src-address> vrf { <vrf-name> | <vrf-known-name> } [ debug-logs ] [ brief | detail ]
  - OLD: show consistency-checker l3-interface { module <moduleid> | interface <ifid> } [ brief | detail ]
  - NEW: show consistency-checker l3-interface { all | module <moduleid> | interface { <ifid> | <ch-id> | <vlan-id> } } [ brief | detail ]
  - OLD: show consistency-checker membership vlan <vlanid> [ private-vlan [ interface [ <int-id> | <ch-id> ] ] ] [ native-vlan ] [ brief | detail ]
  - NEW: show consistency-checker membership vlan <vlanid> [ [ interface <intf-id> ] | [ private-vlan [ interface [ <int-id> | <ch-id> ] ] ] ] [ native-vlan ] [ brief | detail ]
  - OLD: show consistency-checker qinq
  - NEW: show consistency-checker qinq [ interface [ <int-id> | <ch-id> ] ]
  - OLD: show consistency-checker segment-routing mpls ip <ip-address> mask <ip-mask> vrf <vrf-name> [ brief | detail ]
  - NEW: show consistency-checker segment-routing mpls { ip <ip-address> mask <ip-mask> vrf <vrf-name> | label <label> } [ brief | detail ]
  - OLD: show consistency-checker stp-state vlan <vlan> [ brief | detail ]
  - NEW: show consistency-checker stp-state vlan <vlan> [ interface <int-id> ] [ brief | detail ]
  - OLD: show consistency-checker vxlan config-check [ verbose-mode ]
  - NEW: show consistency-checker vxlan config-check [ verbose-mode ] [ brief | detail ]

- OLD: show consistency-checker vxlan infra [ verbose-mode ]
- NEW: show consistency-checker vxlan infra [ verbose-mode ] [ brief | detail ]
- OLD: show consistency-checker vxlan l2 module <module>
- NEW: show consistency-checker vxlan l2 module <module> [ brief | detail ]
- OLD: show consistency-checker vxlan vlan { <vlanid> | all } [ verbose-mode ]
- NEW: show consistency-checker vxlan vlan { <vlanid> | all } [ verbose-mode ] [ brief | detail ]
- OLD: show debug ipv6 { icmp | mld | nd }
- NEW: show debug ipv6 { icmp | nd }
- OLD: show encryption service stat [ \_\_readonly\_\_ [ <encryptionService> <MasterKeyEncryption> <Type6Encryption> ] ]
- NEW: show encryption service status [ \_\_readonly\_\_ [ <encryptionService> <MasterKeyEncryption> <Type6Encryption> ] ]
- OLD: show event manager system-policy [ all | <policy-name> ] [ \_\_readonly\_\_ { [ TABLE\_eem [ <thresh\_min> ] [ <thresh\_max> ] <event\_name> <event\_description> <event\_overridable> } ] ]
- NEW: show event manager system-policy [ all | <policy-name> ] [ \_\_readonly\_\_ { [ TABLE\_eem [ <thresh\_min> ] [ <thresh\_max> ] <event\_name> <event\_description> <event\_overridable> <event\_type> ] } ]
- OLD: show flow rtp { errors { active | history } | details } [ ipv4 | ipv6 ] [ \_\_readonly\_\_ [ <flow-timeout> ] [ { TABLE\_flow\_rtp <flow-rtp-index> [ <flow-type> ] [ <source-ip> ] [ <destination-ip> ] [ <bridge-domain-id> ] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <packet-count> ] [ <bytes-per-sec> ] [ <start-time> ] [ <if-name> ] [ { TABLE\_flow\_rtp\_errors <loss-start> [ <loss-end> ] [ <packet-loss> ] } ] } ] ]
- NEW: show flow rtp { errors { active | history } | details } [ ipv4 | ipv6 ] [ \_\_readonly\_\_ [ <flow-timeout> ] [ { TABLE\_flow\_rtp <flow-rtp-index> [ <flow-type> ] [ <source-ip> ] [ <destination-ip> ] [ <bridge-domain-id> ] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <packet-count> ] [ <bytes-per-sec> ] [ <bits-per-sec> ] [ <start-time> ] [ <if-name> ] [ { TABLE\_flow\_rtp\_errors <loss-start> [ <loss-end> ] [ <packet-loss> ] } ] } ] ]
- OLD: 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> ] [ <vrfname> ] [ <table\_id> ] [ <num\_routes> <num\_starg\_routes> <num\_sg\_routes> <num\_gprefix\_routes> ] [ <num\_groups> ] [ <num\_sources> ] [ <num\_prefix\_insert\_fail> ] [ [ TABLE\_MROUTE\_INFO <address> [ <src\_len> <grp\_len> ] [ <df\_ordinal> ] [ <rpfif> ] [ <rpf\_ifindex> ] <flag> [ <flag\_value> ] <route\_pkts> <route\_bytes> <oiflist\_id> <oif\_count> <oiflist\_flag> [ TABLE\_OIF\_INFO <oifindex> [ <vlan> ] [ TABLE\_MCAST\_OIF\_INTF\_INFO [ <oifname> ] [ <dviif> ] ] [ <platform\_id> ] [ <encap\_id> ] [ <hw\_index> ] ] ] ] ]
- NEW: 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>



- OLD: show forwarding distribution ipv6 multicast route [ table <table\_id> | vrf <vrf-name> ] [ group { <group> } ] [ source { <source> } ] | summary ] [ \_\_readonly\_\_ TABLE\_vrf [ <vrf-name> ] [ <table-name> ] [ <table-id> ] [ <total-num-groups> ] [ TABLE\_route\_summary [ <vrf-name> ] [ <total-num-routes> ] [ <num-star-g-route> ] [ <num-sg-route> ] [ <num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE\_one\_route [ <source-addr> ] [ <source-len> ] [ <group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <stats-pkts> ] [ <stats-bytes> ] [ <oif-count> ] [ <oiflist-index> ] [ TABLE\_oif [ <oif-name> ] [ <mti-src-intf> ] [ <mti-grp-ip> ] [ <mti-src-ip> ] ] ] ] ]
- NEW: show forwarding distribution ipv6 multicast route [ table <table\_id> | vrf <vrf-name> ] [ group { <group> } ] [ source { <source> } ] | summary ] [ \_\_readonly\_\_ TABLE\_vrf [ <vrf-name> ] [ <table-name> ] [ <table-id> ] [ <total-num-groups> ] [ TABLE\_route\_summary [ <vrf-name> ] [ <total-num-routes> ] [ <num-star-g-route> ] [ <num-sg-route> ] [ <num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE\_one\_route [ <source-addr> ] [ <source-len> ] [ <group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <stats-pkts> ] [ <stats-bytes> ] [ <oif-count> ] [ <oiflist-index> ] [ TABLE\_oif [ <oif-name> ] [ <mti-src-intf> ] [ <mti-grp-ip> ] [ <mti-src-ip> ] ] ] ] ]
- OLD: show forwarding distribution l2 multicast [ ip-based | mac-based ] [ vlan <vlan-id> [ { group <grpaddr> [ source <srcaddr> } ] | destination-mac <dmac> ] ] [ summary ] [ \_\_readonly\_\_ [ TABLE\_sum [ <mode> ] [ <num\_vlan> ] [ <num\_starg> ] [ <num\_sg> ] [ <num\_aggstarg> ] [ TABLE\_sum\_info [ <ftag\_id> ] [ <vlan\_id> ] [ <routable\_flag> ] [ <num\_starg> ] [ <num\_sg> ] [ <num\_aggstarg> ] [ <total\_route> ] ] ] [ TABLE\_route [ <vlan> ] [ <grp\_str> ] [ <src\_str> ] [ <grp\_mac> ] [ <src\_mac> ] [ TABLE\_oif [ <oiflist\_id> ] [ <refcount> ] [ <l3\_usage> ] [ <plt\_index> ] [ <num\_oif> ] [ <oif\_name> ] [ <flags> ] [ <dvif> ] ] ] ] ]
- NEW: show forwarding distribution l2 multicast [ ip-based | mac-based ] [ vlan <vlan-id> [ { group { <grpaddr> | <v6grpaddr> } [ source { <srcaddr> | <v6srcaddr> } ] ] | destination-mac <dmac> ] ] [ summary ] [ \_\_readonly\_\_ [ TABLE\_sum [ <mode> ] [ <num\_vlan> ] [ <num\_starg> ] [ <num\_sg> ] [ <num\_aggstarg> ] [ TABLE\_sum\_info [ <ftag\_id> ] [ <vlan\_id> ] [ <routable\_flag> ] [ <v6\_routable\_flag> ] [ <num\_starg> ] [ <num\_sg> ] [ <num\_aggstarg> ] [ <total\_route> ] ] ] [ TABLE\_route [ <vlan> ] [ <grp\_str> ] [ <v6grp\_str> ] [ <src\_str> ] [ <v6src\_str> ] [ <grp\_mac> ] [ <src\_mac> ] [ TABLE\_oif [ <oiflist\_id> ] [ <refcount> ] [ <l3\_usage> ] [ <plt\_index> ] [ <num\_oif> ] [ <oif\_name> ] [ <flags> ] [ <dvif> ] ] ] ] ]
- OLD: show forwarding ecmp recursive [ platform ] [ max-display-count <display\_count> ] [ module <module> ] [ partial ] [ \_\_readonly\_\_ [ TABLE\_vobj { [ <header\_vobj> ] [ <header\_ecmp> } ] [ TABLE\_vobj\_idx { [ <hw\_vobj\_index> ] [ <cmn\_index> } ] [ <num\_pfxs> ] [ <ecmp\_partial> ] [ <activepath\_hdr> ] [ TABLE\_active { [ TABLE\_activepath { [ <ap\_nh> ] [ <ap\_v6nh> ] [ <ap\_rnh\_len> ] [ <ap\_nh\_vpn\_label> ] [ <ap\_rnh\_table\_id> ] [ <ap\_nh\_weight> ] } ] } ] [ <backuppath\_hdr> ] [ TABLE\_backuppath { [ <bp\_nh> ] [ <bp\_v6nh> ] [ <bp\_nh\_vpn\_label> ] [ <bp\_rnh\_table\_id> ] [ <bp\_nh\_weight> } ] } ] [ <cnh\_hdr> ] [ TABLE\_cnh { [ <nh> ] [ <v6nh> ] [ <intf> ] [ TABLE\_cnh\_adj { [ <hw\_adj> ] [ <hw\_cmn\_index> ] [ <lif> ] } ] } ] [ <hw\_inst\_n> ] [ <ls\_count\_n> ] [ <hw\_inst\_o> ] [ <ls\_count\_o> ] [ <fec\_type> ] [ <header\_fec\_ecmp> ] [ <hw\_vobj\_fec\_idx> ] [ <cmn\_idx> ] [ <vobj\_hw\_inst\_n> ] [ <vobj\_ls\_count\_n> ] [ <vobj\_hw\_inst\_o> ] [ <vobj\_ls\_count\_o> ] [ <vobj\_refcount> ] [ TABLE\_vobj\_ecmp { [ <ec\_hash> ] [ <ec\_num\_paths> ] [ <ec\_hwindex> ] [ <ec\_ecmpartial> ] [ <ec\_refcnt> ] [ <ec\_ecmp\_holder> } ] [ TABLE\_adjacency\_ec { [ <ec\_intf> ] [ <ec\_nh> ] [ <ec\_v6nh> ] [ <ec\_hw\_adj\_idx> ] [ <ec\_hw\_cmn\_idx> ] [ <ec\_lif> ] [ <ec\_hw\_nve\_adj\_idx> ] [ <ec\_hw\_nve\_cmn\_idx> ] [ <ec\_nve\_lif> ] } ] [ <ec\_vobj\_count> ] [ <ec\_vxlan\_vobj\_count> ] [ <ec\_vxlan> ] [ <ec\_vobj\_list\_header> ] ] ] [ <header> <num\_pfxs> <rn timer> <table\_id> <nh> <rn timer> <len> <v6nh> <hw\_instance> <nh\_vpn\_label> <nh\_weight> <cnh\_intf> <ecmp\_partial> ] [ TABLE\_ecmp { [ <hash> ] [ <num\_paths> ] [ <hwindex> ] [ <ecmpartial> ] [ TABLE\_index { [ <ecmp\_idx> ] [ <cmn\_idx> } ] } ] [ <refcnt> ] [ <ecmp\_holder> } ] [ TABLE\_adjacency { [ <intf> ] [ <nh> ] [ <v6nh> ] [ <hw\_adj\_idx> ] [ <hw\_cmn\_idx> ] [ <lif> ] [ <hw\_nve\_adj\_idx> ] [ <hw\_nve\_cmn\_idx> ] [ <nve\_lif>

- ```

}}} [<vobj_count>] [<vxlan_vobj_count>] [<vxlan>] [<vobj_list_header>] [TABLE_vobj_id { [<vobj-id>] } ] ] ] ]

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- NEW:** show forwarding ecmp recursive [platform] [srv6] [max-display-count <display_count>] [module <module>] [partial] [__readonly__ [TABLE_vobj { [<header_vobj>] [<header_ecmp>] }] [TABLE_vobj_idx { [<hw_vobj_index>] [<cmn_index>] }] [<num_pfxs>] [<ecmp_partial>] [<activepath_hdr>] [<ecmp_hw_prog_fail>] [TABLE_active { [TABLE_activepath { [<ap_nh>] [<ap_v6nh>] [<ap_rnh_len>] [<ap_nh_vpn_label>] [<ap_rnh_table_id>] [<ap_nh_weight>] }] }] [<backuppath_hdr>] [TABLE_backuppath { [<bp_nh>] [<bp_v6nh>] [<bp_nh_vpn_label>] [<bp_rnh_table_id>] [<bp_nh_weight>] }] [<cnh_hdr>] [TABLE_cnh { [<nh>] [<v6nh>] [<intf>] [TABLE_cnh_adj { [<hw_adj>] [<hw_cmn_index>] [<lif>] }] }] [<hw_inst_n>] [<ls_count_n>] [<hw_inst_o>] [<ls_count_o>] [<fec_type>] [<header_fec_ecmp>] [<hw_vobj_fec_idx>] [<cmn_idx>] [<vobj_hw_inst_n>] [<vobj_ls_count_n>] [<vobj_hw_inst_o>] [<vobj_ls_count_o>] [<vobj_refcount>] [<vobj_function>] [TABLE_vobj_ecmp { [<ec_hash>] [<ec_num_paths>] [<ec_hwindex>] [<ec_ecmppartial>] [<ec_refcnt>] [<ec_ecmp_holder>] }] [TABLE_adjacency_ec { [<ec_intf>] [<ec_nh>] [<ec_v6nh>] [<ec_hw_adj_idx>] [<ec_hw_cmn_idx>] [<ec_lif>] [<ec_hw_nve_adj_idx>] [<ec_hw_nve_cmn_idx>] [<ec_nve_lif>] }] [<ec_vobj_count>] [<ec_vxlan_vobj_count>] [<ec_vxlan>] [<ec_vobj_list_header>]]] [<header> <num_pfxs> <rn_h_table_id> <nh> <rn_h_len> <v6nh> <hw_instance> <nh_vpn_label> <nh_weight> <cnh_intf> <ecmp_partial>] [TABLE_ecmp { [<hash>] [<num_paths>] [<hwindex>] [<ecmppartial>] [TABLE_index { [<ecmp_idx>] [<cmn_idx>] }] [<refcnt>] [<ecmp_holder>] }] [TABLE_adjacency { [<intf>] [<nh>] [<v6nh>] [<hw_adj_idx>] [<hw_cmn_idx>] [<lif>] [<hw_nve_adj_idx>] [<hw_nve_cmn_idx>] [<nve_lif>] }] [<vobj_count>] [<vxlan_vobj_count>] [<vxlan>] [<vobj_list_header>] [TABLE_vobj_id { [<vobj-id>] }] [<vobj_function>]]]
 - OLD:** show forwarding l2 multicast { [{ vlan <vlan-id> [{ group <grpaddr> source <srcaddr> } | destination-mac <dstmac>] }] [vdc <vdc-id>] [module <num>] [__readonly__ [TABLE_L2_MCAST_INFO <vlan_id> [<group>] [<source>] [<dmac>] <epoch> <resource_id> <dest_index> [<hw_handle>] [<text>] [<value>]]]]
 - NEW:** show forwarding l2 multicast { [{ vlan <vlan-id> [{ group <grpaddr> source <srcaddr> } | { group <v6grpaddr> source <v6srcaddr> } | destination-mac <dstmac>] }] [vdc <vdc-id>] [module <num>] [__readonly__ [TABLE_L2_MCAST_INFO <vlan_id> [<group>] [<group_v6>] [<source>] [<source_v6>] [<dmac>] <epoch> <resource_id> <dest_index> [<hw_handle>] [<text>] [<value>]]]]
 - OLD:** 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> [{ TABLE_table_id [<out-table-id>] [<fec>] [<out-ip>] [<out-intf>] [<out-label>] [<out-op>] [<hh>] [<ref-count>] }] [<in-pkts>] [<in-bytes>] [<swap-out-pkts>] [<swap-out-bytes>] [<tunnel-out-pkts>] [<tunnel-out-bytes>] }]]]
 - NEW:** 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> [{ TABLE_table_id [<out-table-id>] [<fec>] [<out-ip>] [<out-intf>] [<out-label>] [<out-op>] [<hh>] [<ref-count>] [<hw-index>] }] [<in-pkts>] [<in-bytes>] [<swap-out-pkts>] [<swap-out-bytes>] [<tunnel-out-pkts>] [<tunnel-out-bytes>] }]]]

- OLD: show forwarding multicast outgoing-interface-list { L2 | L3 | vxlan-encap | vxlan-ir-dci-encap } [platform] [module <module>] [<index>] [__readonly__ [<refcount>] [<total_l2_oiflist>] [<total_l3_oiflist>] [<slot>] [TABLE_MCAST_OIF_INFO <oiflist_idx> [<vlan>] [<num_oif>] [TABLE_MCAST_OIF_INTF_INFO [<intf>] [<dviif>]] [<encap_id>] <hw_oiflist_idx> [<mcidx>]]]]
- NEW: show forwarding multicast outgoing-interface-list { L2 | L3 | vxlan-encap | vxlan-ir-dci-encap | mvpn } [platform] [module <module>] [<index>] [__readonly__ [<refcount>] [<total_l2_oiflist>] [<total_l3_oiflist>] [<slot>] [TABLE_MCAST_OIF_INFO <oiflist_idx> [<vlan>] [<num_oif>] [TABLE_MCAST_OIF_INTF_INFO [<intf>] [<dviif>]] [<encap_id>] <hw_oiflist_idx> [<mcidx>]]]]
- OLD: show forwarding multicast-sr mac-trap-db
- NEW: show forwarding multicast-sr mac-trap-db [__readonly__ { [TABLE_mac_trap_db <mac-addr> <mac-trap-id> <ref-cnt>] <total-count> }]
- OLD: show hardware profile buffer monitor [interface <intf-num> | buffer-block <buf-blk> | multicast <mcst-blk>] { brief | detail [last <samples-per-intf>] | sampling } [module <module>] | show hardware profile buffer monitor { internal-raw | summary [module <module>] } [__readonly__ <cmd_name> <cmd_issue_time> [TABLE_summary <summary_util_name> <summary_1sec_util> <summary_5sec_util> <summary_60sec_util> <summary_5min_util> <summary_1hr_util> <summary_total_buffer> <summary_class_threshold>] [TABLE_ucst_hdr <ucst_hdr_util_name> <ucst_hdr_1sec_util> <ucst_hdr_5sec_util> <ucst_hdr_60sec_util> <ucst_hdr_5min_util> <ucst_hdr_1hr_util> <ucst_hdr_total_buffer> <ucst_hdr_class_threshold>] [TABLE_brief_entry <brief_util_name> <brief_1sec_util> <brief_5sec_util> <brief_60sec_util> <brief_5min_util> <brief_1hr_util>] [TABLE_mcst_hdr <mcst_hdr_util_name> <mcst_hdr_1sec_util> <mcst_hdr_5sec_util> <mcst_hdr_60sec_util> <mcst_hdr_5min_util> <mcst_hdr_1hr_util> <mcst_hdr_total_buffer> <mcst_hdr_class_threshold>] [TABLE_detail_entry <detail_util_name> <detail_util_state> <time_stamp> <384k_util> <768k_util> <1152k_util> <1536k_util> <1920k_util> <2304k_util> <2688k_util> <3072k_util> <3456k_util> <3840k_util> <4224k_util> <4608k_util> <4992k_util> <5376k_util> <5760k_util> <6144k_util>] [TABLE_sampling <sampling_interval>]]
- NEW: show hardware profile buffer monitor [interface <intf-num> | buffer-block <buf-blk> | multicast <mcst-blk>] { brief | detail [last <samples-per-intf>] | sampling } [module <module>] | show hardware profile buffer monitor { internal-raw | summary [module <module>] } [__readonly__ <cmd_name> <cmd_issue_time> [TABLE_summary <summary_util_name> <summary_1sec_util> <summary_5sec_util> <summary_60sec_util> <summary_5min_util> <summary_1hr_util> <summary_total_buffer> <summary_class_threshold>] [TABLE_ucst_hdr <ucst_hdr_util_name> <ucst_hdr_1sec_util> <ucst_hdr_5sec_util> <ucst_hdr_60sec_util> <ucst_hdr_5min_util> <ucst_hdr_1hr_util> <ucst_hdr_total_buffer> <ucst_hdr_class_threshold>] [TABLE_brief_entry <brief_util_name> <brief_1sec_util> <brief_5sec_util> <brief_60sec_util> <brief_5min_util> <brief_1hr_util>] [TABLE_mcst_hdr <mcst_hdr_util_name> <mcst_hdr_1sec_util> <mcst_hdr_5sec_util> <mcst_hdr_60sec_util> <mcst_hdr_5min_util> <mcst_hdr_1hr_util> <mcst_hdr_total_buffer> <mcst_hdr_class_threshold>] [TABLE_detail_entry <detail_util_name> <detail_util_state> [TABLE_detail_data <time_stamp> <384k_util> <768k_util> <1152k_util> <1536k_util> <1920k_util> <2304k_util> <2688k_util> <3072k_util> <3456k_util> <3840k_util> <4224k_util> <4608k_util> <4992k_util> <5376k_util> <5760k_util> <6144k_util>]] [TABLE_sampling <sampling_interval>]]
- OLD: show install all impact epld <uri> [__readonly__ [{ TABLE_compat <module> <type> <upgradable> <impact> <reason> }]]

- NEW: show install all impact epld <uri> [__readonly__ [{ TABLE_verinfo <ver_module> <ver_type> <epld_name> <run_ver> <new_ver> <upg_req> }] [{ TABLE_compat <module> <type> <upgradable> <impact> <reason> }]]
- OLD: 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>] [<encapsulation>] [<medium>] [<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_eee_state>] [<eth_admin_fec_state>] [<eth_oper_fec_state>] [<eth_members>] [<eth_link_flapped>] [<eth_clear_counters>] [<eth_reset_cntr>] [<eth_load_interval1_rx>] [<eth_inrate1_bits>] [<eth_inrate1_pkts>] [<eth_load_interval1_tx>] [<eth_outrate1_bits>] [<eth_outrate1_pkts>] [<eth_inrate1_summary_bits>] [<eth_inrate1_summary_pkts>] [<eth_outrate1_summary_bits>] [<eth_outrate1_summary_pkts>] [<eth_load_interval2_rx>] [<eth_inrate2_bits>] [<eth_inrate2_pkts>] [<eth_load_interval2_tx>] [<eth_outrate2_bits>] [<eth_outrate2_pkts>] [<eth_inrate2_summary_bits>] [<eth_inrate2_summary_pkts>] [<eth_outrate2_summary_bits>] [<eth_outrate2_summary_pkts>] [<eth_load_interval3_rx>] [<eth_inrate3_bits>] [<eth_inrate3_pkts>] [<eth_load_interval3_tx>] [<eth_outrate3_bits>] [<eth_outrate3_pkts>] [<eth_inrate3_summary_bits>] [<eth_inrate3_summary_pkts>] [<eth_outrate3_summary_bits>] [<eth_outrate3_summary_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>]]]
- NEW: 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_bw_str>] [<eth_dly>] [<eth_reliability>] [<eth_txload>] [<eth_rxload>] [<eth_encap_vlan>] [<encapsulation>] [<medium>] [<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_eee_state>] [<eth_admin_fec_state>] [<eth_oper_fec_state>] [<eth_members>] [<eth_link_flapped>] [<eth_clear_counters>] [<eth_reset_cntr>] [<eth_load_interval1_rx>] [<eth_inrate1_bits>] [<eth_inrate1_pkts>] [<eth_load_interval1_tx>] [<eth_outrate1_bits>] [<eth_outrate1_pkts>] [<eth_inrate1_summary_bits>] [<eth_inrate1_summary_pkts>] [<eth_outrate1_summary_bits>] [<eth_outrate1_summary_pkts>] [<eth_load_interval2_rx>] [<eth_inrate2_bits>] [<eth_inrate2_pkts>] [<eth_load_interval2_tx>] [<eth_outrate2_bits>] [<eth_outrate2_pkts>] [<eth_outrate2_summary_bits>] [<eth_outrate2_summary_pkts>] [<eth_outrate2_summary_bits>] [<eth_outrate2_summary_pkts>]]]

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- OLD: show interface <ifeth_ctr_dtl> counters detailed [snmp] [__readonly__ TABLE_interface
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 - OLD: show interface <ifid_transceiver> transceiver [calibrations | details | sprom] [__readonly__ TABLE interface <interface> [<sfp>] [<qsfp_or_cfp>] [<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>] [<cable_type>] [<ciscoid>] [<ciscoid_1>] [<cisco_part_number>] [<cisco_product_id>] [<cisco_vendor_id>] [<firmware_version>] [<identifier>] [<ext_identifier>] [<connector>] [<infiniband_compliance_code>] [<sonet_compliance_code>] [<gigabit_ethernet_compliance_code>] [<fibre_chan_link_length>] [<fibre_chan_trans_technology>] [<fibre_chan_trans_tech_reserved>] [<fibre_chan_transmission_media>] [<fibre_chan_speed>] [<encoding>] [<br_nominal>] [<reserved1>] [<length_smf>] [<length_om5>] [<length_om4>] [<length_om3>] [<length_om2>]]

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- NEW: show interface <ifid_transceiver> transceiver [calibrations | details | sprom] [__readonly__
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- OLD: show interface [controller | quick] [__readonly__ TABLE_interface <interface> [<state>] [<state_rsn>] [<state_rsn_desc>] [[<vsan_brief>] [<oper_port_state>] [<port_state>]]

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- OLD: show ip mroute [[[bitfield] [detail]] | sr | rp | [summary [count | software-forwarded | rpf-failed]] | { [[<source> <group>] | [<group> [<source>]] | [<gprefix> exact]] [shared-tree | source-tree | mofrr] [[flags] | [detail] | [bitfield] | [summary [software-forwarded | rpf-failed]]] }] [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> [<source_addr> <group_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>] [<translated-route-src>] [<translated-route-grp>] [<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>] [<core-interest>] [<fabric-interest>]] [<rpf>]] [<route-mdt-iod>] [<oif-list-bitfield>]]]
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- OLD: show ip pim event-history { errors | msgs | <pim-event-hist-buf-name> | statistics }
- NEW: show ip pim event-history { errors | msgs | hello | join-prune | join-prune-summary | data-register-receive | null-register | assert | rp | bidir | pim-internal | packet | vrf | cli | vpc | objstore | txlist | mrib | pim-library | join-prune-tw | mvpn | nbm }
- OLD: show ip route [ip | ipv4] [unicast] [topology <topology-name>] [l3vm-info] [rpf] [<ip-addr> | { <ip-prefix> [{ longer-prefixes | shorter-prefixes }] }] [{ <protocol> [all] } | { bind-label <bind-lbl> | next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [since <stime>] [until <utime>] } }] + [summary | detail] [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] [__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path [<ipnexthop>] [<nexthop-vrf-name>] [<ifname>] [<bindlbl>] <uptime> <pref> <metric> <clientname> [<type>] [<tag>] [<stale>] [<unres>] [<hidden>] [<stale-label>] [<bgpbackuppath>] [<ubest>] [<mbest>]] [TABLE_summary <routes> <paths> [<multicast_paths>] [TABLE_unicast [<clientnameuni>] [<best-paths>] [<backup-paths>]] [TABLE_multicast [<clientnamemulti>] [<best-paths>] [<backup-paths>]] [TABLE_route_count [<mask_len>] [<count>]]]]]
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- NEW: 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> | <neighbor-interface> } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]]
- OLD: { 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> [TABLE_addr <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>

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 - OLD: 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>]
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- OLD: 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>]]]]]
- NEW: show ipv6 pim neighbor { [<interface>] | [<ipv6addr>] } [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>] [<ecmp-redirect-capable>] [TABLE_secondary <sec-addr>]]]]]
- OLD: 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 <timeouoif-name> }] <immediate-list-count> [{ TABLE_immediatelist <immediateoif-name> }] <immediate-timeout-list-count> [{ TABLE_immediatettimeoutlist <immediatettimeouoif-name> }] <sgr-prune-list-count> [{ TABLE_sgrprunelist <sgrprunelistoif-name> }]]]]]
- NEW: 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 <timeouoif-name> }] [<immediate-list-count>] [{ TABLE_immediatelist <immediateoif-name> }] [<immediate-timeout-list-count>] [{ TABLE_immediatettimeoutlist <immediatettimeouoif-name> }] [<sgr-prune-list-count>] [{ TABLE_sgrprunelist <sgrprunelistoif-name> }]]]]]]
- OLD: 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>]
- NEW: show ipv6 pim policy statistics { jp-policy | neighbor-policy } <interface> [__readonly__ { TABLE_routemap <name> <action> <seq_num> [{ TABLE_cmd <command> <compare_count> <match_count> }] } <total_accept_count> <total_reject_count>]
- OLD: 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>] [<sgrexpire>] [<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>]]]]]]]
- NEW: show ipv6 pim route [[<source> [<group>]] | [<group> [<source>]]] [bitfield] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf [<context-name>] [<route-count>


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<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> <ctrl-no-route> <data-no-route>
<no-state> <create-state> ] ]
```

- OLD: show ipv6 pim vrf [{ <vrf-name> | <vrf-known-name> | all }] [detail] [__readonly__ [TABLE_context [<out-context>] [<context-id>] [<count>] [<bfd-enabled>] [<table-id>] [<state-limit>] [<available-states>] [<reserved-limit>] [<available-reserved>] [<reserve-policy>] [<register-rate-limit-pps>] [<shared-tree-route-map>] [TABLE_RANGE [<shared-tree-ranges>]]]]
- NEW: show ipv6 pim vrf [{ <vrf-name> | <vrf-known-name> | all }] [detail | internal] [__readonly__ { TABLE_context <out-context> <context-id> <count> <table-id> <bfd> <mvpn> }]
- OLD: show ipv6 route [unicast] [topology <topology-name>] [l3vm-info] [rpf] [<ipv6-addr> | { <ipv6-prefix> [{ longer-prefixes | shorter-prefixes }]] [{ <ipv6-protocol> [all] } | { bind-label <bind-lbl> | next-hop <next-hop> } | { interface <interface> } | { updated { [since <stime>] [until <utime>] } }] + [summary | { [detail] [deleted] }] [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] [__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [<attached>] TABLE_path [<ubest>] [<mbest>] [<ipnexthop>] [<nexthop-vrf-name>] [<ifname>] [<bindlbl>] [<uptime> <pref> <metric> <clientname> [<type>] [<tag>] [<stale>] [<stalelbl>] [<hidden>]] [TABLE_summary <routes> <paths> [<multicast_paths>]] [TABLE_unicast [<clientnameuni>] [<best-paths>] [<backup-paths>]] [TABLE_multicast [<clientnamemulti>] [<best-paths>] [<backup-paths>]] [TABLE_route_count [<mask_len>] [<count>]]]]]
- NEW: show ipv6 route [unicast] [topology <topology-name>] [l3vm-info] [rpf] [<ipv6-addr> | { <ipv6-prefix> [{ longer-prefixes | shorter-prefixes }]] [{ <ipv6-protocol> [all] } | { bind-label <bind-lbl> | next-hop <next-hop> } | { interface <interface> } | { updated { [since <stime>] [until <utime>] } }] + [summary [cached] | summary-counter-consistency-check | { [detail] [deleted] }] [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] [__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [<attached>] TABLE_path [<ubest>] [<mbest>] [<ipnexthop>] [<nexthop-vrf-name>] [<ifname>] [<bindlbl>] [<srv6-funct>] [<uptime> <pref> <metric> <clientname> [<type>] [<tag>] [<stale>] [<stalelbl>] [<hidden>] [<remote-sid>] [<src-ip>] [<sid-fct>]] [TABLE_summary <routes> <paths> [<multicast_paths>]] [TABLE_unicast [<clientnameuni>] [<best-paths>] [<backup-paths>]] [TABLE_multicast [<clientnamemulti>] [<best-paths>] [<backup-paths>]] [TABLE_route_count [<mask_len>] [<count>]]]]]
- OLD: 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-prohibit>] [<rv-admin-prohibit>] [<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>] [<ign-fastpath-pkts>] [<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> }]]]

- NEW: 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-prohibit>] [<rv-admin-prohibit>] [<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>] [<ign-fastpath-pkts>] [<dup-rtr-ra-recvd>] [<rv-dup-rtr-ra-recvd>] }]]]
- OLD: 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>] [<srte-registered-out>] [TABLE_segment_routing <af-out> <ptag-out> <cfg-out> <enable-out> [<exp-null-cfg>]] [TABLE_iib_list Yeild <intf-name-out>] [TABLE_auth <auth-lvl-out> [<auth-type-no-type>] [<auth-type-clear-text>] [<auth-type-md5>] [<auth-type-key-chain>] [<auth-type-none>] [<auth-check>] [<auth-no-check>]] [TABLE_spf <spf-lvl-out> [<spf-timer>]] [TABLE_distribute_ls <distribute-linkst-lvl>]]]
- NEW: 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>] [<srte-registered-out>] [TABLE_segment_routing <af-out> <ptag-out> <cfg-out> <enable-out> [<exp-null-cfg>]] [<srv6-enabled>] [TABLE_iib_list Yeild <intf-name-out>] [TABLE_auth <auth-lvl-out> [<auth-type-no-type>] [<auth-type-clear-text>] [<auth-type-md5>] [<auth-type-key-chain>] [<auth-type-none>] [<auth-check>] [<auth-no-check>]] [TABLE_spf <spf-lvl-out> [<spf-timer>]] [TABLE_distribute_ls <distribute-linkst-lvl>]]]
- OLD: 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

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<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> ] } } ]

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- NEW: show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] traffic [<interface>] [interfaces] [mbuf-priority] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> [{ TABLE_vrf [<vrf-name-out>] [{ TABLE_interface [<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>] } }] [<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>] } }] }
- OLD: show itd [<svc-name>] [brief] [__readonly__ <is_detail> [TABLE_summary <is_active> <service_name> <is_include_acl> <probe> <lb_scheme> <state> <buckets> [<interface_num>] [<interface>] [TABLE_interface <interface_grp>] [<reason>] [<src_interface>] [<vrf_name>] [<excludeACL>] [<peer_status>] [TABLE_device <device_grp> <dg_probe> <dg_probe_port>] [<is_firstentry_routemap>] [TABLE_route_map [<route_map>] [TABLE_rmap_interface [<r_interface>] [<r_status>] [<int_track_id>]] [TABLE_vip [<vip_acl_key>] [<vip_probe>] [<vip_port>] [<ace_buckets>] [<vip_dgname>] [<is_firstentry_vip_node>] [TABLE_vip_node <is_vip_node_ipv6> <vip_node> <vip_config> <vip_weight> <vip_node_probe> <vip_node_probe_port> <vip_node_probe_ip> <vip_status> <vip_track_id> <vip_ip_sla_id> [<is_firstentry_standby>] [TABLE_vip_standby <is_standby_vip_node_ipv6> <vip_standby_ip> <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>] [<is_firstentry_acl>] [TABLE_vip_acl [<vip_access_list>]]] [<is_firstentry>] [TABLE_node <is_node_ipv6> <node> <config> <weight> <node_probe> <node_probe_port> <node_probe_ip> <status> <track_id> <ip_sla_id> [<is_first_def_stdby>] [TABLE_standby <is_standby_node_ipv6> <standby_ip> <standby_config> <standby_weight> <standby_probe> <standby_probe_port> <standby_probe_ip> <standby_status> <standby_track_id> <standby_sla_id>] [<is_first_defdg_acl>] [TABLE_acl [<access_list>]]] [<is_lastentry>]]
- NEW: show itd [<svc-name>] [brief] [__readonly__ [TABLE_summary <is_detail> <is_active> <service_name> <is_include_acl> <probe> <lb_scheme> <state> <buckets> [<interface_num>] [

- ```

<interface>][TABLE_interface <interface_grp>][<reason>][<src_interface>][<source_vlan>][
<vrf_name>][<excludeACL>][<peer_status>] <is_l2> [TABLE_device <device_grp> [<dg_probe>
][<dg_probe_port>]] [<is_firstentry_routemap>] [TABLE_route_map [<route_map>] [
TABLE_rmap_interface [<r_interface>] [<r_status>] [<int_track_id>]]] [TABLE_vip [<vip_flags>
][<vip_acl_key>] [<vip_probe>] [<vip_port>] [<ace_buckets>] [<vip_dgname>] [
<is_firstentry_vip_node>] [TABLE_vip_node <is_vip_node_ipv6> <vip_node> <vip_config>
<vip_weight> <vip_node_port> <vip_node_probe> <vip_node_probe_port> <vip_node_probe_ip>
<vip_status> <vip_track_id> <vip_ip_sla_id> [<is_firstentry_standby>] [TABLE_vip_standby
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<vip_standby_probe> <vip_standby_probe_port> <vip_standby_probe_ip> <vip_standby_status>
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<vip_access_list>]]]] [<is_firstentry>] [TABLE_node [<is_node_ipv6>] <node> [<config>] [
<weight>] [<port>] [<node_probe>] [<node_probe_port>] [<node_probe_ip>] [<status>] [
<track_id>] [<ip_sla_id>] [<is_first_def_stdby>] [TABLE_standby <is_standby_node_ipv6>
<standby_ip> <standby_config> <standby_weight> <standby_probe> <standby_probe_port>
<standby_probe_ip> <standby_status> <standby_track_id> <standby_sla_id>] [<is_first_defdgd_acl>
][TABLE_acl [<access_list>]]]] [<is_lastentry>]]

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- OLD: show itd session device-group [ <name> ] [ \_\_readonly\_\_ <first\_entry> [ TABLE\_svc <node> ] ]
  - NEW: show itd session device-group [ <name> ] [ \_\_readonly\_\_ [ TABLE\_dg <dg\_name> <first\_entry> [ TABLE\_svc <node> ] ] ]
  - OLD: show kubernetes containers [ brief | interface <if\_name> ]
  - NEW: show kubernetes containers [ brief | interface <if\_name> | mgmt0 ]
  - OLD: 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> | peer-ipv6 <peer-ipv6> ] ] + } ] [ \_\_readonly\_\_ TABLE-macaddtblcount [ <id-out> ] [ <count\_str> ] [ <dyn\_cnt> ] [ <otv\_cnt> ] [ <static\_cnt> ] [ <rvtep\_static\_cnt> ] [ <secure\_cnt> ] [ <total\_cnt> ] ] ]
  - NEW: 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> | peer-ipv6 <peer-ipv6> ] ] + } ] [ \_\_readonly\_\_ TABLE-macaddtblcount [ <id-out> ] [ <count\_str> ] [ <dyn\_cnt> ] [ <otv\_cnt> ] [ <rvtep\_static\_cnt> ] [ <static\_cnt> ] [ <secure\_cnt> ] [ <total\_cnt> ] ] ]
  - OLD: 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> } ] ]
  - NEW: 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_moddiainfo <mod> <diagstatus> } [{ 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_moddiainfo <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> }]]]
```

- OLD: show mpls interfaces detail [ \_\_readonly\_\_ TABLE\_mpls\_interface\_det <intf> <client\_name> <oper\_str> <ls\_id> <mpls\_sublayer\_name> <mpls\_sublayer\_id> ]
- NEW: show mpls interfaces detail [ \_\_readonly\_\_ TABLE\_mpls\_interface\_det <intf> { <client\_name> + } <oper\_str> <ls\_id> <mpls\_sublayer\_name> <mpls\_sublayer\_id> ]
- OLD: 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> ] } } ] ]
- NEW: 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> } ] [ { TABLE\_bnd\_remote [ <remote\_lsr> ] [ <remote\_label> ] [ <rem\_lbl\_in\_use> ] [ <stale\_gr> ] } ] [ <advert\_acl\_pending> ] [ <peer\_acl> ] [ <prefix\_acl> ] } } ] ]
- OLD: 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\_tgtd [ <tgtd\_remote\_ip> ] [ <tgtd\_local\_ip> ] [ <tgtd\_ptcl> ] [ <tgtd\_type> ] [ <tgtd\_xmit\_recv> ] [ <tgtd\_hello\_int> ] [ <tgtd\_local\_xport\_addr> ] [ <tgtd\_remote\_ldp\_ident> ] [ <tgtd\_nhop\_info> ] [ <tgtd\_remote\_src\_ip> <tgtd\_remote\_xport\_ip> ] [ <tgtd\_hold\_time> <tgtd\_local\_hold\_time> <tgtd\_nbr\_hold\_time> ] [ <tgtd\_nhop\_addr> <tgtd\_nhop\_mask> ] [ <tgtd\_pwdinfo> ] } } ] ]
- NEW: 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\_tgtd [ <tgtd\_remote\_ip> ] [ <tgtd\_local\_ip> ] [ <tgtd\_ptcl> ] [ <tgtd\_type> ] [ <tgtd\_xmit\_recv> ] [ <tgtd\_hello\_int> ] [ <tgtd\_local\_xport\_addr> ] [

```
<tgtd_remote_ldp_ident>] [<tgtd_nhop_info>] [<tgtd_remote_src_ip> <tgtd_remote_xport_ip>] [
<tgtd_hold_time> <tgtd_local_hold_time> <tgtd_nbr_hold_time>] [<tgtd_nhop_addr>
<tgtd_nhop_mask>] [<tgtd_pwdinfo>]]]] }
```

- OLD: show mpls switching [ labels <label> [ <max-label> ] | interface <intf> | { <ip-addr> | <ipv4-prefix> } [ vrf { <vrf-name> | <vrf-known-name> | all } ] | <ipv6-prefix> [ vrf { <vrf-name> | <vrf-known-name> | all } ] | traffic-eng srpath [ <srte-path-id> ] | aggregate [ ipv4 | ipv6 ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] | { fec { ipv4\_prefix [ vrf { <vrf-name> | <vrf-known-name> | all } ] | ipv6\_prefix [ vrf { <vrf-name> | <vrf-known-name> | all } ] | deagg [ vrf { <vrf-name> | <vrf-known-name> | all | ias\_vpnv4 | ias\_vpnv6 } ] | per-bd <per-bd-vlan-id> } } | { summary } ] [ detail ] [ private ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ \_\_readonly\_\_ [ [ TABLE\_vrf [ <vrf\_name> ] [ [ TABLE\_inlabel <in\_label> [ [ { <out\_label\_stack> + } ] ] { <srte\_path\_id> | <ipv4\_prefix> | <ipv6\_prefix> } ] [ <out\_interface> ] { <ipv4\_next\_hop> | <ipv6\_next\_hop> } [ <weight> ] ] [ <deagg\_vrf> [ <deagg\_af> ] ] [ { <tunnel\_v4\_mid\_source> | <tunnel\_v6\_mid\_source> } <tunnel\_id> { <ext\_v4\_tunnel\_id> | <ext\_v6\_tunnel\_id> } <tunnel\_instance> <tunnel\_head> ] [ <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> ] [ <per\_bd\_vlan\_id> ] [ <table\_name> ] ] [ TABLE\_adj\_sid\_inlabel <adj\_sid\_in\_label> <out\_label> { <ipv4\_addr> | <ipv6\_addr> } <out\_interface> { <adj\_sid\_ipv4\_next\_hop> | <adj\_sid\_ipv6\_next\_hop> } [ <in\_packets> <in\_bytes> ] [ [ <out\_label> + ] <out\_packets> + <out\_bytes> + ] ] ] ] [ TABLE\_block <blockid> <lbl\_range> ] ] ] }
- NEW: show mpls switching [ labels <label> [ <max-label> ] | interface <intf> | { <ip-addr> | <ipv4-prefix> } [ vrf { <vrf-name> | <vrf-known-name> | all } ] | <ipv6-prefix> [ vrf { <vrf-name> | <vrf-known-name> | all } ] | traffic-eng srpath [ <srte-path-id> ] | aggregate [ ipv4 | ipv6 ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] | { fec { ipv4\_prefix [ vrf { <vrf-name> | <vrf-known-name> | all } ] | ipv6\_prefix [ vrf { <vrf-name> | <vrf-known-name> | all } ] | deagg [ vrf { <vrf-name> | <vrf-known-name> | all | ias\_vpnv4 | ias\_vpnv6 } ] | per-bd <per-bd-vlan-id> } } | { summary } ] [ detail ] [ private ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ \_\_readonly\_\_ [ [ TABLE\_vrf [ <vrf\_name> ] [ [ TABLE\_inlabel <in\_label> [ [ { <out\_label\_stack> + } ] ] [ { <srte\_path\_id> | <ipv4\_prefix> | <ipv6\_prefix> } ] [ <out\_interface> ] { <ipv4\_next\_hop> | <ipv6\_next\_hop> } [ <weight> ] ] ] [ <deagg\_vrf> [ <deagg\_af> ] ] [ { <tunnel\_v4\_mid\_source> | <tunnel\_v6\_mid\_source> } <tunnel\_id> { <ext\_v4\_tunnel\_id> | <ext\_v6\_tunnel\_id> } <tunnel\_instance> <tunnel\_head> ] [ <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> ] [ <per\_bd\_vlan\_id> ] [ <table\_name> ] ] [ TABLE\_adj\_sid\_inlabel <adj\_sid\_in\_label> <out\_label> { <ipv4\_addr> | <ipv6\_addr> } <out\_interface> { <adj\_sid\_ipv4\_next\_hop> | <adj\_sid\_ipv6\_next\_hop> } [ <in\_packets> <in\_bytes> ] [ [ <out\_label> + ] <out\_packets> + <out\_bytes> + ] ] ] ] [ TABLE\_block <blockid> <lbl\_range> ] ] ] }
- OLD: show nbm flows static [ group <grp> ] [ source <src> ] [ stitched | unstitched ] [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ \_\_readonly\_\_ { [ TABLE\_vrf <vrf-name> [ TABLE\_stitched { <stitchedSrc> <stitchedGrp> [ TABLE\_stitchedEgress { <stitchedEgressIntf> } ] [ TABLE\_stitchedHost { <stitchedHostIp> } ] } ] [ TABLE\_unstitched { <unstitchedSrc> <unstitchedGrp> [ TABLE\_unstitchedEgress { <unstitchedEgressIntf> } ] [ TABLE\_unstitchedHost { <unstitchedHostIp> } ] } ] ] ] } ] }
- NEW: show nbm flows static [ group <grp> ] [ source <src> ] [ stitched | unstitched ] [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ \_\_readonly\_\_ { [ TABLE\_vrf <vrf-name> [ TABLE\_stitched { <stitchedSrc> <stitchedGrp> [ TABLE\_stitchedEgress { <stitchedEgressIntf> } ] [ TABLE\_stitchedHost

- ```
{ <stitchedHostIp> } ] } ] [ TABLE_unstitched { <unstitchedSrc> <unstitchedGrp> [
TABLE_unstitchedEgress { <unstitchedEgressIntf> } ] [ TABLE_unstitchedHost { <unstitchedHostIp>
} ] ] ] [ TABLE_Provisioned_Static_Flows { [ <staticApiSrc> ] [ <staticApiGrp> ] } ] [ <iifName> ] [
<bwkbps> ] [ <policer> ] [ <iifProgStatus> ] [ TABLE_OIF { [ <isLhr> ] [ <oifName> ] [ <oifProgStatus>
} ] ] ] ] ] }
```
- OLD: show nbm interface bandwidth [__readonly__ [TABLE_bw { <index> <ifname> <iod> <slot> <unit> <slice> <ingr_fl_bw_available> <ingr_fl_bw_usable> <ingr_fl_bw_capacity> <egr_fl_bw_available> <egr_fl_bw_usable> <egr_fl_bw_capacity> <nbr_dev_id> <nbr_dev_name> <external> }]]
 - NEW: show nbm interface bandwidth [interface <if-name>] [vrf { <vrf-name> | <nbm-vrf-known-name> | all }] [__readonly__ [TABLE_bw { <index> <ifname> <iod> <slot> <unit> <slice> <fab_unicast_percentage> <ingr_fl_bw_available> <ingr_fl_bw_usable> <ingr_fl_bw_capacity> <ingr_unicast> <ingr_unicast_rsvd_percent> <egr_fl_bw_available> <egr_fl_bw_usable> <egr_fl_bw_capacity> <egr_unicast> <egr_unicast_rsvd_percent> <nbr_dev_id> <nbr_dev_name> <external> }]]
 - OLD: show nve vni [{ { interface <nve-if> | <vni-id> } [detail] } | control-plane | data-plane | summary | controller] [__readonly__ [TABLE_nve_vni [[<detail>] [<if-name> <vni> <mcast> <vni-state> <mode> <type> <flags> [{ <prvsn-state> <vlan-bd> <svi-state> <vpc-compat-check> }]]] [[<summary>] <cp-vni-count> <cp-vni-up> <cp-vni-down> <dp-vni-count> <dp-vni-up> <dp-vni-down>]]]
 - NEW: show nve vni [{ { interface <nve-if> | <vni-id> | all } [detail] } | control-plane | data-plane | summary | controller] [__readonly__ [TABLE_nve_vni [[<detail>] [<if-name> <vni> <mcast> <vni-state> <mode> <type> <flags> [{ <prvsn-state> <vlan-bd> <svi-state> <vpc-compat-check> }]]] [[<summary>] <cp-vni-count> <cp-vni-up> <cp-vni-down> <dp-vni-count> <dp-vni-up> <dp-vni-down>]]]
 - OLD: 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 }]
 - NEW: show [ipv6] ospfv3 [<tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] policy statistics { { redistribute { bgp <as> | { isis | rip } <tag> | static | direct | amt | srv6 locator } } | { area <area-id-ip> filter-list { in | out } } } [vrf { <vrf-name> | <vrf-known-name> | all }]
 - OLD: show processes cpu [sort] [__readonly__ { [TABLE_process_cpu <pid> <runtime> <invoked> <usecs> <onsec> <process>] [<user_percent>] [<kernel_percent>] [<idle_percent> }] }
 - NEW: show processes cpu [sort] [__readonly__ { [TABLE_process_cpu <pid> <runtime> <invoked> <usecs> <onsec> <process>] [<user_percent>] [<kernel_percent>] [<idle_percent>] [<fivesec_percent>] [<fivesec_intr_percent>] [<onemin_percent>] [<fivemin_percent> }] }
 - OLD: show processes cpu module <i0> [__readonly__ { [TABLE_process_cpu <pid> <runtime> <invoked> <usecs> <onsec> <process>] [<user_percent>] [<kernel_percent>] [<idle_percent> }] }
 - NEW: show processes cpu module <i0> [__readonly__ { [TABLE_process_cpu <pid> <runtime> <invoked> <usecs> <onsec> <process>] [<user_percent>] [<kernel_percent>] [<idle_percent>] [<fivesec_percent>] [<fivesec_intr_percent>] [<onemin_percent>] [<fivemin_percent> }] }

- OLD: show processes vdc <e-vdc2> cpu [__readonly__ [TABLE_process_vdc_cpu <pid> <runtime> <invoked> <usecs> <onsec> <process>] [<user_percent>] [<kernel_percent>] [<idle_percent>]]
- NEW: show processes vdc <e-vdc2> cpu [__readonly__ [TABLE_process_vdc_cpu <pid> <runtime> <invoked> <usecs> <onsec> <process>] [<user_percent>] [<kernel_percent>] [<idle_percent>] [<fivsec_percent>] [<fivsec_intr_percent>] [<onemin_percent>] [<fivemin_percent>]]
- OLD: show ptp domain data [__readonly__ [TABLE_ptp <multidom_cap> <gm_cap> <gm_convergence_time> <def_dom> <transition_priority1> <transition_priority2> [TABLE_ptp_domain <domain_number> <domain_priority> <ptp_clock_class_threshold> <ptp_clock_accuracy_threshold> <ptp-ifindex>]] <ptp-end>]
- NEW: show ptp domain data [__readonly__ [TABLE_ptp <multidom_cap> <gm_cap> <gm_convergence_time> <def_dom> <transition_priority1> <transition_priority2> [TABLE_ptp_domain <domain_number> <domain_priority> <ptp_clock_class_threshold> <ptp_clock_accuracy_threshold> [TABLE_ptp_ifindex <ptp-ifindex>]]] <ptp-end>]
- OLD: show routing [ip | ipv4] [unicast] [topology <topology-name>] [l3vm-info] [rpf] [<ip-addr> | { <ip-prefix> [{ longer-prefixes | shorter-prefixes }]] [{ <protocol> [all] } | { bind-label <bind-lbl> | next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [since <stime>] [until <utime>] } }] + [summary | detail] [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] [__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path [<ipnexthop>] [<nexthop-vrf-name>] [<ifname>] [<bindlbl>] <uptime> <pref> <metric> <clientname> [<type>] [<tag>] [<stale>] [<unres>] [<hidden>] [<stale-label>] [<bgpbackuppath>] [<ubest>] [<mbest>]] [TABLE_summary <routes> <paths> [<multicast_paths>] [TABLE_unicast [<clientnameuni>] [<best-paths>] [<backup-paths>]] [TABLE_multicast [<clientnamemulti>] [<best-paths>] [<backup-paths>]] [TABLE_route_count [<mask_len>] [<count>]]]]]
- NEW: show routing [ip | ipv4] [unicast] [topology <topology-name>] [l3vm-info] [rpf] [<ip-addr> | { <ip-prefix> [{ longer-prefixes | shorter-prefixes }]] [{ <protocol> [all] } | { bind-label <bind-lbl> | next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [since <stime>] [until <utime>] } }] + [summary [cached] | detail | summary-counter-consistency-check] [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] [__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path [<ipnexthop>] [<nexthop-vrf-name>] [<ifname>] [<bindlbl>] <uptime> <pref> <metric> <clientname> [<type>] [<tag>] [<stale>] [<unres>] [<hidden>] [<stale-label>] [<bgpbackuppath>] [<type2>] [<ubest>] [<mbest>] [<remote-sid>] [<src-ip>] [<sid-ct>]] [TABLE_summary <routes> <paths> [<multicast_paths>] [TABLE_unicast [<clientnameuni>] [<best-paths>] [<backup-paths>]] [TABLE_multicast [<clientnamemulti>] [<best-paths>] [<backup-paths>]] [TABLE_route_count [<mask_len>] [<count>]]]]]
- OLD: show routing [ip | ipv4] multicast event-history { errors | msgs | <mrrib-event-hist-buf-name> | statistics }
- NEW: show routing [ip | ipv4] multicast event-history { errors | msgs | rib | rib-error | mfdm-debug | mfdm-events | mfdm-stats | vrf | mdt | nbm | cli | notify-clients | pim-library | urib-debug | objstore-events | objstore-error | mofir }
- OLD: 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>]]]]

- ```

] } | { [<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>]]

```
- OLD: 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> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <hidden> ] ]
  - NEW: 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> ] { { [ ipv6-flowlabel <ipv6-flowlabel> ] } { [ <src-port> <dest-port> ] } } { [ ttl <ttl> [ dest-port <dest-port> ] ] } { [ udf <value> length <length> [ dest-port <dest-port> ] ] } { [ gtpu-teid <gtpu-teid> ] } [ 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> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <hidden> ] ]
  - OLD: show routing ipv6 [ unicast ] event-history { statistics | msgs | am | cli | detail | dme | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary }
  - NEW: show routing ipv6 [ unicast ] event-history { statistics | msgs | am | cli | detail | dme | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary | sidmgr }
  - OLD: show routing ipv6 [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ipv6-addr> | { <ipv6-prefix> [ { longer-prefixes | shorter-prefixes } ] } ] [ { <ipv6-protocol> [ all ] } | { bind-label <bind-lbl> | next-hop <next-hop> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary | { [ detail ] [ deleted ] } ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ \_\_readonly\_\_ TABLE\_vrf <vrf-name-out> TABLE\_addrf <addrf> [ TABLE\_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [ <attached> ] TABLE\_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <stalelbl> ] [ <hidden> ] ] [ TABLE\_summary <routes> <paths> [ <multicast\_paths> ] [ TABLE\_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_route\_count [ <mask\_len> ] [ <count> ] ] ] ] ]
  - NEW: show routing ipv6 [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ipv6-addr> | { <ipv6-prefix> [ { longer-prefixes | shorter-prefixes } ] } ] [ { <ipv6-protocol> [ all ] } | { bind-label <bind-lbl> | next-hop <next-hop> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary [ cached ] | summary-counter-consistency-check | { [ detail ] [ deleted ] } ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ \_\_readonly\_\_ TABLE\_vrf <vrf-name-out> TABLE\_addrf <addrf> [ TABLE\_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [ <attached> ] TABLE\_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ] [ <srv6-funct> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <stalelbl> ] [ <hidden> ] [ <remote-sid> ] [ <src-ip> ] [ <sid-fct> ] ] [ TABLE\_summary <routes> <paths> [ <multicast\_paths> ] [ TABLE\_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] ]

```
TABLE_multicast [<clientnamemulti>] [<best-paths>] [<backup-paths>] [TABLE_route_count [
<mask_len>] [<count>]]]]
```

- OLD: show routing ipv6 multicast event-history { errors | msgs | <m6rib-event-hist-buf-name> | statistics } }
- NEW: show routing ipv6 multicast event-history { errors | msgs | <mrrib-event-hist-buf-name> | statistics } }
- OLD: 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> } } ]
- NEW: show routing ipv6 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> <internal\_notify> <non-internal\_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> } ]
- OLD: 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> } } ]
- NEW: show routing ipv6 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> ] ] ] ]

- OLD: show ssx exporter { all | <exportername> } [ \_\_readonly\_\_ [ TABLE\_ssx\_exporters <exporter-name> <src-ip><src-udp-port><dest-ip><dest-udp-port><vrf><mtu><dscp> ] ]
- NEW: show ssx exporter { all | <exportername> } [ \_\_readonly\_\_ [ TABLE\_ssx\_exporters <exporter-name> { <src-ip><src-udp-port><dest-ip><dest-udp-port><vrf><mtu><dscp> | <dest-intf> } ] ]
  
- OLD: show tech-support bgp [ brief ]
- NEW: show tech-support bgp [ brief | detailed ]
  
- OLD: show tech-support clis [ brief ]
- NEW: show tech-support clis [ brief ] [ commands ]
  
- OLD: show tech-support dme
- NEW: show tech-support dme [ commands ]
  
- OLD: show tech-support ip [ brief ]
- NEW: show tech-support ip [ brief | static-routes ]
  
- OLD: show tech-support ipv6 [ brief ]
- NEW: show tech-support ipv6 [ brief | static-routes ]
  
- OLD: show telemetry control { database [ subscriptions | destination-groups | destinations | sensor-paths | sensor-groups ] | stats } [ \_\_readonly\_\_ [ <subscription\_db\_size> ] [ { TABLE\_subscriptions <subscription\_id> <data\_collector\_type> } ] [ <sensor\_grp\_db\_size> ] [ { TABLE\_sensor\_grp <snsr\_grp\_row\_idx> <snsr\_grp\_id> <snsr\_grp\_type> <snsr\_grp\_collector\_type> <snsr\_grp\_timer\_interval> <snsr\_grp\_timer\_status> <snsr\_grp\_sub\_count> <snsr\_grp\_sub\_id> <snsr\_grp\_dc\_cur\_time> <snsr\_grp\_dc\_min\_time> <snsr\_grp\_dc\_max\_time> <snsr\_grp\_enc\_cur\_time> <snsr\_grp\_enc\_min\_time> <snsr\_grp\_enc\_max\_time> <snsr\_grp\_trans\_cur\_time> <snsr\_grp\_trans\_min\_time> <snsr\_grp\_trans\_max\_time> <snsr\_grp\_stream\_cur\_time> <snsr\_grp\_stream\_min\_time> <snsr\_grp\_stream\_max\_time> <snsr\_grp\_stream\_col\_id\_drop> <snsr\_grp\_stream\_last\_col\_id\_drop> <snsr\_grp\_stream\_col\_drop> } ] [ <sensor\_path\_db\_size> ] [ { TABLE\_sensor\_path <path\_row\_idx> <path\_subscribed> <path\_group\_count> <path\_secondary\_group\_count> <path\_level> <path\_name> <path\_grp\_id> <path\_query\_condition> <path\_filter\_condition> <path\_gpb\_cur\_enc\_size> <path\_gpb\_min\_enc\_size> <path\_gpb\_max\_enc\_size> <path\_json\_cur\_enc\_size> <path\_json\_min\_enc\_size> <path\_json\_max\_enc\_size> <path\_cgpb\_cur\_enc\_size> <path\_cgpb\_min\_enc\_size> <path\_cgpb\_max\_enc\_size> <path\_dc\_cur\_time> <path\_dc\_min\_time> <path\_dc\_max\_time> <path\_enc\_cur\_time> <path\_enc\_min\_time> <path\_enc\_max\_time> <path\_trans\_cur\_time> <path\_trans\_min\_time> <path\_trans\_max\_time> <path\_stream\_cur\_time> <path\_stream\_min\_time> <path\_stream\_max\_time> } ] [ <destination\_group\_db\_size> ] [ <destination\_group\_use\_vrf> ] [ { TABLE\_destination\_group <destination\_group\_id> <destination\_group\_refcount> } ] [ <destination\_db\_size> ] [ { TABLE\_destinations <destination\_ip> <destination\_port> <destination\_encoding> <destination\_transport> <destination\_refcount> } ] [ db\_statistics <chunk\_alloc\_fail> <sensor\_path\_chunk\_create\_fail> <sensor\_group\_chunk\_create\_fail> <destination\_chunk\_create\_fail> <destination\_group\_chunk\_create\_fail> <subscription\_chunk\_create\_fail> <sensor\_path\_db\_create\_fail> <sensor\_group\_db\_create\_fail> <destination\_db\_create\_fail> <destination\_group\_db\_create\_fail> <subscription\_db\_create\_fail> <sensor\_path\_db\_insert\_fail> <sensor\_group\_db\_insert\_fail> <destination\_db\_insert\_fail> <destination\_group\_db\_insert\_fail> <subscription\_db\_insert\_fail> ] ]

<sensor\_path\_db\_delete\_fail> <sensor\_group\_db\_delete\_fail> <destination\_db\_delete\_fail>  
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 <destination\_group\_destination\_list\_create\_fail> <destination\_destination\_group\_list\_create\_fail>  
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 <destination\_group\_subscription\_list\_delete\_fail> <destination\_group\_destination\_list\_delete\_fail>  
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 <destination\_group\_delete\_from\_subscription\_fail> <sensor\_group\_delete\_from\_subscription\_fail>  
 <sensor\_path\_delete\_from\_sensor\_group\_fail> <get\_encode\_cb\_fail> <get\_transport\_cb\_fail> ] ]

- NEW: show telemetry control { database [ subscriptions | destination-groups | destinations | [ { {  
 sensor-paths | sensor-groups ] [ detail ] } ] ] | stats { [ \_\_readonly\_\_ [ <subscription\_db\_size> ] [ {  
 TABLE\_subscriptions <subscription\_id> <data\_collector\_type> } ] [ <sensor\_grp\_db\_size> ] [ {  
 TABLE\_sensor\_grp <snsr\_grp\_row\_idx> <snsr\_grp\_id> <snsr\_grp\_type> <snsr\_grp\_collector\_type>  
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 <snsr\_grp\_trans\_min\_time> <snsr\_grp\_trans\_max\_time> <snsr\_grp\_stream\_cur\_time>  
 <snsr\_grp\_stream\_min\_time> <snsr\_grp\_stream\_max\_time> <snsr\_grp\_stream\_col\_id\_drop>  
 <snsr\_grp\_stream\_last\_col\_id\_drop> <snsr\_grp\_stream\_col\_drop> } ] [ <sensor\_path\_db\_size> ] [ {  
 TABLE\_sensor\_path <path\_row\_idx> <path\_subscribed> <path\_group\_count>  
 <path\_secondary\_group\_count> <path\_level> <path\_name> <path\_grp\_id> <path\_query\_condition>  
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 <path\_stream\_cur\_time> <path\_stream\_min\_time> <path\_stream\_max\_time> } ] [  
 <destination\_group\_db\_size> ] [ { TABLE\_destination\_group <destination\_group\_id>  
 <destination\_group\_refcount> <destination\_group\_use\_vrf> } ] [ <destination\_db\_size> ] [ {  
 TABLE\_destinations <destination\_ip> <destination\_port> <destination\_encoding> <destination\_transport>  
 <destination\_refcount> } ] [ db\_statistics <chunk\_alloc\_fail> <sensor\_path\_chunk\_create\_fail>  
 <sensor\_group\_chunk\_create\_fail> <destination\_chunk\_create\_fail>  
 <destination\_group\_chunk\_create\_fail> <subscription\_chunk\_create\_fail> <sensor\_path\_db\_create\_fail>  
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 <destination\_group\_destination\_list\_create\_fail> <destination\_destination\_group\_list\_create\_fail>

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<subscription_sensor_group_list_create_fail> <subscription_destination_group_list_create_fail>
<sensor_group_sensor_path_list_delete_fail> <sensor_group_subscription_list_delete_fail>
<sensor_group_subscription_unsupported_data_source_fail>
<destination_group_subscription_list_delete_fail> <destination_group_destination_list_delete_fail>
<subscription_sensor_group_list_delete_fail> <subscription_destination_group_list_delete_fail>
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<destination_group_delete_from_subscription_fail> <sensor_group_delete_from_subscription_fail>
<sensor_path_delete_from_sensor_group_fail> <get_encode_cb_fail> <get_transport_cb_fail>]]

```

- OLD: show version module <module> epld [ \_\_readonly\_\_ { [ <header\_info> ] [ <module> ] [ <mi\_iofpga> <version> ] [ <io\_fpga> <version> ] [ <mi\_iofpga2> <version> ] [ <mi\_iofpga3> <version> ] [ <mi\_iofpga4> <version> ] [ <mi\_iofpga5> <version> ] [ <mi\_iofpga6> <version> ] [ <cpu\_iofpga> <version> ] [ <db\_fpga> <version> ] } ]
- NEW: show version module <module> epld [ \_\_readonly\_\_ { [ <header\_info> ] [ <module> ] [ <mi\_iofpga> <version> ] [ <io\_fpga> <version> ] [ <mi\_iofpga2> <version> ] [ <mi\_iofpga3> <version> ] [ <mi\_iofpga4> <version> ] [ <mi\_iofpga5> <version> ] [ <mi\_iofpga6> <version> ] [ <mi\_iofpga7> <version> ] [ <mi\_iofpga8> <version> ] [ <cpu\_iofpga> <version> ] [ <db\_fpga> <version> ] } ]
- OLD: show vmtracker [ connection <conn\_name> ] { { info { { [ interface <intf\_id> ] { summary | detail | host | vm | port-group } } } | { vxlan-segment | vxlan-vms } } } | event-history } [ \_\_readonly\_\_ TABLE\_info <intf\_name> <host\_or\_ip> <vmnic> <vm\_name> <vm\_state> <port\_group> <pg\_type> <vlan\_range> <virt\_wire\_name> <multicast\_ip> <vdn\_id> <vtep\_ip> ]
- NEW: show vmtracker [ connection <conn\_name> ] { { info { { [ interface <intf\_id> ] { summary | detail | host | vm | port-group } } } | { vxlan-segment | vxlan-vms } } } | event-history } [ \_\_readonly\_\_ [ TABLE\_info <intf\_name> <host\_or\_ip> <vmnic> <vm\_name> <vm\_state> <port\_group> <pg\_type> <vlan\_range> <virt\_wire\_name> <multicast\_ip> <vdn\_id> <vtep\_ip> <event\_time> <event\_msg> ] [ TABLE\_evt <event\_id> <event\_time> <event\_msg> ] ]
- OLD: show vmtracker fabric auto-config [ interface <intf\_id> ] [ vlan <vlan\_id> ] [ status { success | pending | failure | skipped } ] [ \_\_readonly\_\_ TABLE\_autoconfig <interface\_name> <port\_group\_name> <vlan\_range> <config\_status> ]
- NEW: show vmtracker fabric auto-config [ interface <intf\_id> ] [ vlan <vlan\_id> ] [ status { success | pending | failure | skipped } ] [ \_\_readonly\_\_ { <oper\_status> } [ TABLE\_autoconfig <interface\_name> <port\_group\_name> <vlan\_range> <config\_status> ] ]

## Deprecated Commands

The following commands are removed in this release.

- show consistency-checker l2-tahoe module <module> [ unit <unit> ]
- show ipv6 [ icmp ] mld vrf all
- show ipv6 pim embed-rp <group>
- show l2fwder l2rib info
- show l2fwder statistics
- show logging level [ ipv6 ] pim

- show logging level poap
- show mac address-table learning-mode [ vlan <id> ] [ \_\_readonly\_\_ <learning\_mode\_str> <vlan\_id> <mode\_str> ]
- 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> ] ] ] } ]
- show tech-support forwarding otv multicast vdc-all



## **New, Changed, and Deprecated Show Commands in Cisco Nexus 9000 Release 9.3(4)**

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- [New, Changed, and Deprecated Commands in Cisco NX-OS Release 9.3\(4\), on page 3294](#)

# New, Changed, and Deprecated Commands in Cisco NX-OS Release 9.3(4)

The following sections describe changes in the Cisco Nexus 9000 CLI since Release 9.3(3).

## New Commands

The following commands are added in this release.

- show buffer-drop detail [ \_\_readonly\_\_ <system-monitor-name> <monitor-name> <collector-name> <v4-acl-name> <v6-acl-name> <queue-id> <sampler-prob-rate> <sampler-mb-rate> <sampler-mb-pkts> ]
- show buffer-latency detail [ \_\_readonly\_\_ <system-monitor-name> <monitor-name> <collector-name> <record-name> <v4-acl-name> <v6-acl-name> <queue-id> <interface> <latency-threshold> <sampler-prob-rate> <sampler-mb-rate> <sampler-mb-pkts> ]
- show forwarding nve l2 ingress-replication-peers { ipv4 | ipv6 } detail [ \_\_readonly\_\_ [ { TABLE\_VLAN <vlan\_id> <vni> <ifindex> <plt\_space> <peer> + } { TABLE\_PSS\_VLAN <vlan\_pss\_id> <VNI> <vtep> <peercent> { <pss\_peer> <marked> } + } ] + [ [ <peer> <id> <repl\_id> <oif> <hash\_algo> <path\_intf> + <vcount> <vlan\_id> + [ <path> <hash> <flags> <nh> <intf> + ] ] [ <pss\_peer> <pss\_id> <pss\_repl\_id> <pss\_oif> <pss\_hash\_algo> <pss\_path\_intf> + <pss\_vcount> <vlan\_pss\_id> + [ <pss\_path> <pss\_hash> <pss\_flags> <pss\_nh> <pss\_intf> + ] ] ] ]
- show hardware internal forwarding l2 table utilization sup [ instance { [ <instance\_number> | all ] [ module<num> ] } | module1 { [ <num> | all1 ] [ instance1 <instance\_number1> ] } ] [ no-header ] [ \_\_readonly\_\_ { TABLE\_l2\_util\_info\_sup <module> <instance> <total> <used> } ]
- show hardware profile portmode
- show logging level ofm
- show system internal access-list dest-miss stats [ module <module> ] [ \_\_readonly\_\_ [ TABLE\_DEST\_MISS\_STATS { [ <ip\_packet\_stats> ] [ <ip\_bytes\_stats> ] [ <ipv6\_packet\_stats> ] [ <ipv6\_bytes\_stats> ] [ <glean\_ip\_packet\_stats> ] [ <glean\_ip\_bytes\_stats> ] [ <glean\_ipv6\_packet\_stats> ] [ <glean\_ipv6\_bytes\_stats> ] } ] ]

## Changed Commands

The following commands are modified in this release.

- OLD: show interface <ifeth\_ctr> counters [ \_\_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> ] } } ]
- NEW: show interface <ifeth\_ctr> counters [ \_\_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> ] [ <eth\_l3in\_ipv4bytes> ] [

- ```

<eth_l3in_ipv4pkts> ][ <eth_l3in_ipv6bytes> ][ <eth_l3in_ipv6pkts> ] } { 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> ][
<eth_l3out_ipv4bytes> ][ <eth_l3out_ipv4pkts> ][ <eth_l3out_ipv6bytes> ][ <eth_l3out_ipv6pkts> ]
} ]

```
- OLD: 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>] } }
 - NEW: 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>][<eth_l3in_ipv4bytes>][<eth_l3in_ipv4pkts>][<eth_l3in_ipv6bytes>][<eth_l3in_ipv6pkts>] } { 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>][<eth_l3out_ipv4bytes>][<eth_l3out_ipv4pkts>][<eth_l3out_ipv6bytes>][<eth_l3out_ipv6pkts>] } }
 - OLD: 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>] } }
 - NEW: 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>][<eth_l3in_ipv4bytes>][<eth_l3in_ipv4pkts>][<eth_l3in_ipv6bytes>][<eth_l3in_ipv6pkts>] } { 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>][<eth_l3out_ipv4bytes>][<eth_l3out_ipv4pkts>][<eth_l3out_ipv6bytes>][<eth_l3out_ipv6pkts>] } }
 - OLD: show interface <ifid_transceiver> transceiver [calibrations | details | sprom] [__readonly__ TABLE_interface <interface> [<sfp>] [<qsfp_or_cfp>] [<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>] [<cable_type>] [<ciscoid>] [<ciscoid_1>] [<cisco_part_number>] [<cisco_product_id>] [<cisco_version_id>] [<cisco_vendor_id>] [<firmware_version>] [<identifier>] [<ext_identifier>] [<connector>] [<infiniband_compliance_code>] [<sonet_compliance_code>] [<gigabit_ethernet_compliance_code>] [<fibre_chan_link_length>] [<fibre_chan_trans_technology>] [<fibre_chan_trans_tech_reserved>] [<fibre_chan_transmission_media>] [<fibre_chan_speed>] [<encoding>] [<br_nominal>] [<reserved1>] [<length_smf>] [<length_om5>] [<length_om4>] [<length_om3>] [<length_om2>] [<length_om1>] [<length_9u_1>] [<length_9u_2>] [<length_50u>] [<length_60u>] [<length_copper>] [<reserved3>] [<wave_length>] [<wave_len_tolerance>] [<vendor_oui>] [<vendor_part_no>] [<vendor_revision>] [<reserved4>] [<check_code_id>] [<options>] [<br_max>] [<br_min>] [<vendor_serial_no>] [<data_code>] [<diagnostic_monitoring_type>] [<enhanced_options>] [<sff8472compliance>] [<check_code_ext>] [<vendor_specific_data_id_data>

```
][ <date_code> ][ <clei_code> ][ <power_class> ][ <max_power> ][ <cable_attenuation> ][
<near_end_lanes> ][ <far_end_lanes> ][ <media_interface> ][ <adv_code> ][ <host_elt_intf_code>
][ <med_intf_adv_code> ][ <host_lane_count> ][ <med_lane_count> ][ <max_mod_temp> ][
<min_mod_temp> ][ <min_op_volt> ][ <info_not_available> ][ <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_alarm_hi> ][ <temp_alarm_lo> ][
<temp_warn_hi> ][ <temp_warn_lo> ][ <voltage> ][ <volt_flag> ][ <volt_alarm_hi> ][ <volt_alarm_lo>
][ <volt_warn_hi> ][ <volt_warn_lo> ][ <current> ][ <current_flag> ][ <current_alarm_hi> ][
<current_alarm_lo> ][ <current_warn_hi> ][ <current_warn_lo> ][ <tx_pwr> ][ <tx_pwr_flag> ][
<tx_pwr_alarm_hi> ][ <tx_pwr_alarm_lo> ][ <tx_pwr_warn_hi> ][ <tx_pwr_warn_lo> ][ <rx_pwr> ]
[ <rx_pwr_flag> ][ <rx_pwr_alarm_hi> ][ <rx_pwr_alarm_lo> ][ <rx_pwr_warn_hi> ][ <rx_pwr_warn_lo>
][ <xmit_faults> ][ <snr> ][ <snr_flag> ][ <snr_alarm_hi> ][ <snr_alarm_lo> ][ <snr_warn_hi> ][
<snr_warn_lo> ][ <isi> ][ <isi_flag> ][ <isi_alarm_hi> ][ <isi_alarm_lo> ][ <isi_warn_hi> ][
<isi_warn_lo> ][ <pam> ][ <pam_flag> ][ <pam_alarm_hi> ][ <pam_alarm_lo> ][ <pam_warn_hi> ][
<pam_warn_lo> ][ <pre_fec_ber> ][ <pre_fec_ber_flag> ][ <pre_fec_ber_alarm_hi> ][
<pre_fec_ber_alarm_lo> ][ <pre_fec_ber_warn_hi> ][ <pre_fec_ber_warn_lo> ][ <uncorrect_ber> ][
<uncorrect_ber_flag> ][ <uncorrect_ber_alarm_hi> ][ <uncorrect_ber_alarm_lo> ][
<uncorrect_ber_warn_hi> ][ <uncorrect_ber_warn_lo> ][ <tec_current> ][ <tec_current_flag> ][
<tec_current_alarm_hi> ][ <tec_current_alarm_lo> ][ <tec_current_warn_hi> ][ <tec_current_warn_lo>
][ <laser_freq> ][ <laser_freq_flag> ][ <laser_freq_alarm_hi> ][ <laser_freq_alarm_lo> ][
<laser_freq_warn_hi> ][ <laser_freq_warn_lo> ][ <laser_temp> ][ <laser_temp_flag> ][
<laser_temp_alarm_hi> ][ <laser_temp_alarm_lo> ][ <laser_temp_warn_hi> ][ <laser_temp_warn_lo>
][ <pre_fec_ber_acc> ][ <pre_fec_ber_acc_flag> ][ <pre_fec_ber_acc_alarm_hi> ][
<pre_fec_ber_acc_alarm_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_alarm_hi> ][
<pre_fec_ber_min_alarm_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_alarm_hi> ][
<pre_fec_ber_max_alarm_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_alarm_hi> ][
<pre_fec_ber_cur_alarm_lo> ][ <pre_fec_ber_cur_warn_hi> ][ <pre_fec_ber_cur_warn_lo> ][
<uncorrect_ber_acc> ][ <uncorrect_ber_acc_flag> ][ <uncorrect_ber_acc_alarm_hi> ][
<uncorrect_ber_acc_alarm_lo> ][ <uncorrect_ber_acc_warn_hi> ][ <uncorrect_ber_acc_warn_lo> ][
<uncorrect_ber_min> ][ <uncorrect_ber_min_flag> ][ <uncorrect_ber_min_alarm_hi> ][
<uncorrect_ber_min_alarm_lo> ][ <uncorrect_ber_min_warn_hi> ][ <uncorrect_ber_min_warn_lo> ][
<uncorrect_ber_max> ][ <uncorrect_ber_max_flag> ][ <uncorrect_ber_max_alarm_hi> ][
<uncorrect_ber_max_alarm_lo> ][ <uncorrect_ber_max_warn_hi> ][ <uncorrect_ber_max_warn_lo> ]
[ <uncorrect_ber_cur> ][ <uncorrect_ber_cur_flag> ][ <uncorrect_ber_cur_alarm_hi> ][
<uncorrect_ber_cur_alarm_lo> ][ <uncorrect_ber_cur_warn_hi> ][ <uncorrect_ber_cur_warn_lo> ] ] ] ]
```

- NEW: show interface <ifid_transceiver> transceiver [calibrations | details | sprom][__readonly__
TABLE_interface <interface> [<sf>][<qsf>_or_<cf>][<type>][<name>][<partnum>][<rev>]
][<serialnum>][<nom_bitrate>][<len_9>][<len_9_2>][<len_50>][<len_625>][<len_cu>]
[<len_50_OM3>][<txcvt_type>][<connector_type>][<bit_encoding>][<protocol_type>][
<10gbe_code>][<fiber_type_byte0>][<fiber_type_byte1>][<tx_range>][<cable_type>][<ciscoid>]
][<ciscoid_1>][<cisco_part_number>][<cisco_product_id>][<cisco_version_id>][
<cisco_vendor_id>][<firmware_version>][<identifier>][<ext_identifier>][<connector>][
<infiniband_compliance_code>][<sonet_compliance_code>][<gigabit_ethernet_compliance_code>]
][<fibre_chan_link_length>][<fibre_chan_trans_technology>][<fibre_chan_trans_tech_reserved>]
][<fibre_chan_transmission_media>][<fibre_chan_speed>][<encoding>][<br_nominal>][
<reserved1>][<length_smf>][<length_om5>][<length_om4>][<length_om3>][<length_om2>]
][<length_om1>][<length_9u_1>][<length_9u_2>][<length_50u>][<length_60u>]]]]

```

<length_copper> ][ <reserved3> ][ <wave_length> ][ <wave_len_tolerance> ][ <vendor_oui> ][
<vendor_part_no> ][ <vendor_revision> ][ <reserved4> ][ <check_code_id> ][ <options> ][ <br_max>
][ <br_min> ][ <vendor_serial_no> ][ <data_code> ][ <diagnostic_monitoring_type> ][
<enhanced_options> ][ <sf8472compliance> ][ <check_code_ext> ][ <vendor_specific_data_id_data>
][ <date_code> ][ <clei_code> ][ <power_class> ][ <max_power> ][ <cable_attenuation> ][
<near_end_lanes> ][ <far_end_lanes> ][ <media_interface> ][ <adv_code> ][ <host_elt_intf_code>
][ <med_intf_adv_code> ][ <cable_length> ][ <host_lane_count> ][ <med_lane_count> ][
<max_mod_temp> ][ <min_mod_temp> ][ <min_op_volt> ][ <info_not_available> ][ <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> ] ] ]

```

- OLD: show interface counters [module <module>][__readonly__ { TABLE_rx_counters <interface_rx> [<eth_inpkts>][<fc_inframes>][<eth_inbytes>][<fc_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>] }]]

- NEW: show interface counters [module <module>] [__readonly__ { TABLE_rx_counters <interface_rx> [<eth_inpkts>] [<fc_inframes>] [<eth_inbytes>] [<fc_inbytes>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] [<eth_l3in_bytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_mcastpkts>] [<eth_l3in_bcaspkts>] [<eth_l3in_ipv4bytes>] [<eth_l3in_ipv4pkts>] [<eth_l3in_ipv6bytes>] [<eth_l3in_ipv6pkts>] } { 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_bcaspkts>] [<eth_l3out_ipv4bytes>] [<eth_l3out_ipv4pkts>] [<eth_l3out_ipv6bytes>] [<eth_l3out_ipv6pkts>] } }]
- OLD: 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_bcaspkts>] } { 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_bcaspkts>] } }]
- NEW: 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_bcaspkts>] [<eth_l3in_ipv4bytes>] [<eth_l3in_ipv4pkts>] [<eth_l3in_ipv6bytes>] [<eth_l3in_ipv6pkts>] } { 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_bcaspkts>] [<eth_l3out_ipv4bytes>] [<eth_l3out_ipv4pkts>] [<eth_l3out_ipv6bytes>] [<eth_l3out_ipv6pkts>] } }]
- OLD: show interface counters snmp [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_bcaspkts>] } { 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_bcaspkts>] } }]
- NEW: show interface counters snmp [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_bcaspkts>] [<eth_l3in_ipv4bytes>] [<eth_l3in_ipv4pkts>] [<eth_l3in_ipv6bytes>] [<eth_l3in_ipv6pkts>] } { 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_bcaspkts>] [<eth_l3out_ipv4bytes>] [<eth_l3out_ipv4pkts>] [<eth_l3out_ipv6bytes>] [<eth_l3out_ipv6pkts>] } }]
- OLD: 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> [<remote-vtep-addr> | <remote-vtep-v6addr>]] [TABLE_summary <remote-count> <local-count> <total-count>] [TABLE_stats TABLE_suppressed <total> <requests> <requests-on-l2> <gratuitous> <gratuitous-on-l2> TABLE_forwarded <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> <local-requests-recv> <local-replies-recv> <gratuitous-recv> <dropped-recv> <requests-on-l2-recv> <replies-on-l2-recv> <gratuitous-l2-recv> <dropped-l2-recv> TABLE_entrystats <adds> <dels>]]

- NEW: 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> [<remote-vtep-addr> | <remote-vtep-v6addr>]] [TABLE_summary <remote-count> <local-count> <total-count>] [TABLE_stats TABLE_suppressed <total> <requests> <requests-on-l2> <gratuitous> <gratuitous-on-l2> TABLE_forwarded <total-sent> <requests-sent> <replies-sent> <requests-on-core-sent> <replies-on-core-sent> <arp-probe-flood> <dropped-sent> <requests-on-l2-sent> <replies-on-l2-sent> <requests-on-core-l2-sent> <replies-on-core-l2-sent> <arp-probe-flood-l2> <dropped-l2-sent> TABLE_received <total-recv> <requests-recv> <replies-recv> <local-requests-recv> <local-replies-recv> <gratuitous-recv> <dropped-recv> <requests-on-l2-recv> <replies-on-l2-recv> <gratuitous-l2-recv> <dropped-l2-recv> TABLE_entrystats <adds> <dels>]]
- OLD: show ip pim route [[<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>] [<intf-name>] [<rpf-nbr-1>] [<rpf-nbr-addr>] [<intf-name-2>] [<rpf-nbr-2>] [<uptime>] [<is-attached>] [<is-static>] [<zero-nonpim-oifs>] [<is-external>] [<otv-decap>] [<otv-router-mode>] [<non-dr-oifs-only>] [<data-created>] [<mdt-encap>] [<mdt-decap>] [<vxlan-decap>] [<vxlan-encap>] [<sw-pkts>] [<sw-bytes>] [<hw-pkts>] [<hw-bytes>] [<rpf-src>] [<mrrib-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>]]]]
- NEW: show ip pim route [[<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>] [<intf-name>] [<rpf-nbr-1>] [<rpf-nbr-addr>] [<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>]]]]
- OLD: show ip pim route internal [<source> <group> | <group> [<source>]] { { detail } } [vrf { <vrf-name> | <vrf-known-name> | all }]
- NEW: show ip pim route internal [<source> <group> | <group> [<source>]] { { detail } } [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>] [<intf-name>] [<rpf-nbr-1>] [<rpf-nbr-addr>] [<intf-name-2>] [<rpf-nbr-2>] [<uptime>] [<is-attached>] [<is-fabric-owned>] [<is-fabric-source>] [<is-static>] [<zero-nonpim-oifs>] [<is-external>] [<otv-decap>] [<otv-router-mode>] [<non-dr-oifs-only>] [<data-created>] [<force-punt>] [<mdt-encap>] [<mdt-decap>] [<vxlan-decap>] [<vxlan-encap>] [<sw-pkts>] [<sw-bytes>] [<hw-pkts>] [<hw-bytes>] [<rpf-src>] [<mrrib-rpf-notify>] [<add-pending>] [<aged-route>] [<sg-expiry-cfg>] [<jp-holdtime>] [<route-metric>] [<metric-pref>] [<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> ] ] ] ]
```

- OLD: show tech-support interfaces
- NEW: show tech-support interfaces all
- OLD: show telemetry port-counters [interface <if_name>] [__readonly__ [{ TABLE_port_counters <if_name> <portInIpv4> <portOutIpv4> <portInIpv6> <portOutIpv6> <portPacketInIpv4> <portPacketOutIpv4> <portPacketInIpv6> <portPacketOutIpv6> <portInIpv4Bps> <portOutIpv4Bps> <portInIpv6Bps> <portOutIpv6Bps> <portPacketInIpv4Pps> <portPacketOutIpv4Pps> <portPacketInIpv6Pps> <portPacketOutIpv6Pps> }]]]
- NEW: show telemetry port-counters [interface <if_name>] [__readonly__ [{ TABLE_port_counters <if_name> <portPacketInIpv4> <portInIpv4> <portPacketOutIpv4> <portOutIpv4> <portPacketInIpv4Pps> <portInIpv4Bps> <portPacketOutIpv4Pps> <portOutIpv4Bps> <portPacketInIpv6> <portInIpv6> <portPacketOutIpv6> <portOutIpv6> <portPacketInIpv6Pps> <portInIpv6Bps> <portPacketOutIpv6Pps> <portOutIpv6Bps> }]]]

Deprecated Commands

The following commands are removed in this release.

- show zone smart-zoning auto-conv log errors
- show zone smart-zoning auto-conv status vsan <i0>
- zone convert smart-zoning { { vsan1 <vsan_id> } | { fcalias name <fcalias_name> vsan2 <vsan_id> | zone name1 <zone_name> vsan2 <vsan_id> | zoneset name2 <z_name> vsan2 <vsan_id> } }



New, Changed, and Deprecated Show Commands in Cisco Nexus 9000 Release 9.3(5)

- [New, Changed, and Deprecated Show Commands in Cisco NX-OS Release 9.3\(5\), on page 3302](#)

New, Changed, and Deprecated Show Commands in Cisco NX-OS Release 9.3(5)

The following sections describe changes in the Cisco Nexus 9000 CLI since Release 9.3(4).

New Commands

The following commands are added in this release.

- show cfs internal event-history info
- show clock-interface { brief | detail | sync <clk-interface> } [__readonly__ [TABLE_clockintf <if-id> <if-name> <capabilities> <dir> <state> <port-10M> <port-1pps> <pps-input> <port-tod> <tod-format-enum> <tod-baudrate> <tod-offset> <port-dir-cap>] <clkintf-end>]
- show consistency-checker copp extended module <module-id> [brief | detail]
- show consistency-checker ehm interface { <intf> | all }
- show consistency-checker fsync [debug-logs] [brief | detail]
- show consistency-checker l2 multicast mac <mac-address> vlan <vlan-id> [debug-logs] [brief | detail]
- show consistency-checker multicast nlb cluster-ip <ip-address> vrf { <vrf-name> | <vrf-known-name> } [debug-logs] [brief | detail]
- show consistency-checker multicast vlan <vlanid> [group <group_ip> | destination-mac <dst_mac>]
- show consistency-checker niv-datapath interface <intf>
- show consistency-checker vpgrouping interface { <intf> | all }
- show epbr policy [<policy-name>] [reverse] [__readonly__ TABLE_pmap <pname> [{ TABLE_pmap_match <match_type> <match_stmt> [{ TABLE_pmap_s_chain <seq> <sname> <action> [{ TABLE_pmap_s_chain_entry <ip_type> <svc_ep> [<track_id>] [<probe_state> }]] }] }] [<intf_name>] +]
- show epbr statistics policy <policy-name> [reverse] [__readonly__ TABLE_pmap <pname> <match_stmt> <bcount> [{ TABLE_pmap_t_match <bname> [{ TABLE_pmap_b_stats <sname> <pval> <action> }] }]]
- show esmc counters { interface <if0> | all } [__readonly__ [TABLE_esmc <intf_name> <esmc_infos_sent> <esmc_events_sent> <esmc_dnus_sent> <esmc_infos_rcvd> <esmc_events_rcvd> <esmc_dnus_rcvd> <esmc_malformed_rcvd> <esmc_rcvd_error>] <esmc-end>]
- show esmc packet-trace [__readonly__ <esmc-header> [TABLE_esmc <intf-name> <sup-time> <pkt_dir> <pkt_type> <pkt_info>] <esmc-end>]
- show fabric multicast statistics [__readonly__ <remote_nlri_msgs_rx> <remote_nlri_msgs_rx_fail> <local_nlri_msgs_tx> <local_nlri_msgs_tx_fail> <import_rt_msgs_tx> <import_rt_msgs_tx_fail> <m2rib_msgs_tx> <m2rib_msgs_tx_fail> <mrrib_msgs_tx> <mrrib_msgs_tx_fail> <m6rib_msgs_tx> <m6rib_msgs_tx_fail> <pim_msgs_tx> <pim_msgs_tx_fail> <pim_msgs_rx> <pim_all_remote_ssm_rp_req_rx> <pim6_msgs_tx> <pim6_msgs_tx_fail> <pim6_msgs_rx>

- <pim6_all_remote_ssm_rp_req_rx> <remote_nlri_ack_tx> <remote_nlri_ack_tx_fail>
 <all_local_nlri_req_rx> <local_nlri_ack_rx> <remote_route_req_tx> <remote_route_req_tx_fail>
 <pim6_all_local_ssm_rp_req_tx> <pim6_all_local_ssm_rp_req_tx_fail> <igmp_local_route_rx>
 <igmp_local_route_ack_rx> <igmp_msgs_tx> <igmp_msgs_tx_fail> <igmp_l2_vni_up_down_rx>]
- show flow event [name] [{ <eventname> }] [__readonly__ [{ TABLE_nfm_event <event> [<description>] <use_count> [{ TABLE_nfm_group <events> [<buffer_drops>] [<fwd_drops>] [<acl_drops>] [<flow_count>] [<latency_threshold>] [<latency_unit>] [<latency_flow_count>] }] }]]
 - show forwarding [ip | ipv4] [unicast] inconsistency [suppress-transient] [vrf { <vrf-name> | all_vrfs }] [module { <module> | all_modules }] [__readonly__ [<err_str>] [<cc_header>] [<table_id>] [<slot_id>] [<exec_time>] [<elapsed_time>] [<inconsis_adj>] [TABLE_inconsistency_adj> { <id> <slot> [<unit>] <vrf> [<ipaddr>] [<ipprefix>] [<interface>] <reason> }] [<inconsis_routes>] [TABLE_inconsistency_routes { <id> <slot> [<unit>] <vrf> [<ipaddr>] [<ipprefix>] [<interface>] <reason> }] [<run_status>]]
 - show forwarding distribution multicast sr hash-db
 - show forwarding proactive-cc inconsistencies [all] [__readonly__ [TABLE_v4adj_hdr <incons_v4_adj> [TABLE_v4_adj> <id> <slot> <vrf> <ipaddr> <intf> <reason>]] [TABLE_v4route_hdr <incons_v4_routes> [TABLE_v4_routes <id> <slot> <vrf> <ipprefix> <reason>]] [TABLE_v6adj_hdr <incons_v6_adj> [TABLE_v6_adj> <id> <slot> <vrf> <ipv6addr> <intf> <reason>]] [TABLE_v6route_hdr <incons_v6_routes> [TABLE_v6_routes <id> <slot> <vrf> <ipv6prefix> <reason>]]]
 - show forwarding srv6 bsid [<bsid_value>] [module <num>] [__readonly__ { TABLE_bsid <bsid> <type> <table_id> <num_sids> <sid_list> <list_count> }]
 - show forwarding srv6 bsid-peer [<bsid_value>] [<endpoint>] [module <num>] [__readonly__ { TABLE_bsid_peer <bsid> <endpoint> <type> <table_id> <peer-id> }]
 - show frequency synchronization clock-interface brief [__readonly__ [TABLE_fsycn <source_class> <clock_node> <clock_id> <clock_name> <clock_state> <assigned_for_selection> <ssm_support> <ssm_enabled> <loop_back> <sqlched> <input_disabled> <output_disabled> <ql_rcv_option> <ql_rcv> <ql_use_option> <ql_use> <priority> <ql_snt_option> <ql_snt> <selected_source_class> <selected_source_ifh> <selected_source_clock_node> <selected_source_clock_id> <selected_source_clock_name>] <fsync-end>]
 - show frequency synchronization clock-interface detail [__readonly__ [TABLE_fsycn <source_class> <clock_node> <clock_id> <clock_name> <clock_state> <clock_type> <pd_down_reason> <selection_input> <wtr_time> <ssm_state> <ssm_support> <input_disabled> <input_damping_state> <input_damping_time> <cfgd_in_ql_min_option> <cfgd_in_ql_min> <cfgd_in_ql_max_option> <cfgd_in_ql_max> <cfgd_in_ql_exact_option> <cfgd_in_ql_exact> <effective_in_ql_option> <effective_in_ql> <priority> <tod_priority> <supp_freq> <supp_time> <loop_back> <output_disabled> <selected_source_class> <selected_source_ifh> <selected_source_clock_node> <selected_source_clock_id> <selected_source_clock_name> <selected_source_ql_option> <selected_source_ql> <cfgd_out_ql_min_option> <cfgd_out_ql_min> <cfgd_out_ql_max_option> <cfgd_out_ql_max> <cfgd_out_ql_exact_option> <cfgd_out_ql_exact> <effective_out_ql_option> <effective_out_ql> <sqlched> <num_next_seln_points> <next_selection_points> + <current_clock_end>] <fsync-end>]
 - show frequency synchronization configuration errors [__readonly__ [TABLE_fsycn <fsync_src> <enable_err> <input_min_err> <input_exact_err> <input_max_err> <output_min_err> <output_exact_err> <output_max_err> <ext_ql_input_min_err> <ext_ql_input_exact_err> <ext_ql_input_max_err>]

```
<ext_ql_output_min_err> <ext_ql_output_exact_err> <ext_ql_output_max_err> <input_output_mismatch>
<input_min_ql> <input_min_ql_option> <input_exact_ql> <input_exact_ql_option> <input_max_ql>
<input_max_ql_option> <output_min_ql> <output_min_ql_option> <output_exact_ql>
<output_exact_ql_option> <output_max_ql> <output_max_ql_option> <cmd_src_index> ] <fsync-end>
]
```

- show frequency synchronization interface <if0> [__readonly__ <if_state> <selection_input> <wtr_time> <ssm_state> <esmc_peer_state> <esmc_peer_time_secs> <esmc_peer_time_nsecs> <last_ssm_time_secs> <last_ssm_time_nsecs> <peer_up_count> <peer_timeout_count> <esmc_infos_sent> <esmc_events_sent> <esmc_dnus_sent> <esmc_infos_rcvd> <esmc_events_rcvd> <esmc_dnus_rcvd> <esmc_malformed_rcvd> <esmc_rcvd_error> <input_damping_state> <input_damping_time> <last_rcvd_ql_option> <last_rcvd_ql> <cfgd_in_ql_min_option> <cfgd_in_ql_min> <cfgd_in_ql_max_option> <cfgd_in_ql_max> <cfgd_in_ql_exact_option> <cfgd_in_ql_exact> <effective_in_ql_option> <effective_in_ql> <priority> <tod_priority> <ql_data_rcvd_has_ext_data> <ql_data_rcvd_orig_clock_id> <ql_data_rcvd_synce_steps> <ql_data_rcvd_esynce_steps> <ql_data_rcvd_all_steps_synce> <ql_data_rcvd_chain_complete> <supp_freq> <supp_time> <selected_source_class> <selected_source_ifh> <selected_source_clock_node> <selected_source_clock_id> <selected_source_clock_name> <selected_source_ql_option> <selected_source_ql> <cfgd_out_ql_min_option> <cfgd_out_ql_min> <cfgd_out_ql_max_option> <cfgd_out_ql_max> <cfgd_out_ql_exact_option> <cfgd_out_ql_exact> <effective_out_ql_option> <effective_out_ql> <ql_data_to_send_has_ext_data> <ql_data_to_send_orig_clock_id> <ql_data_to_send_synce_steps> <ql_data_to_send_esynce_steps> <ql_data_to_send_all_steps_synce> <ql_data_to_send_chain_complete> <sqelched> <num_next_seln_points> <next_selection_points> +]
- show frequency synchronization interface brief [__readonly__ [TABLE_fsyc <fsync_port> <if_state> <assigned_for_selection> <ssm_state> <esmc_peer_state> <sqelched> <ql_rcv_option> <ql_rcv> <ql_use_option> <ql_use> <priority> <ql_snt_option> <ql_snt> <selected_source_class> <selected_source_ifh> <selected_source_clock_node> <selected_source_clock_id> <selected_source_clock_name> <port_end>] <fsync-end>]
- show frequency synchronization selection [__readonly__ [TABLE_sp <seln_pt> <num_inputs> <num_inputs_selected> <last_programmed_secs> <last_programmed_nsecs> <last_selection_secs> <last_selection_nsecs> <spa_selection_points> + <spa_selection_points_num> <node_selection_points> + <node_selection_points_num> <chassis_selection_points> + <chassis_selection_points_num> <router_selection_points> + <router_selection_points_num> <tod_sp> <local_line_output> <local_clock_output> <local_tod_output> <stream_table_start> [TABLE_stream <output_id> <input> <last_sp> <ql> <tod_priority> <priority> <state>] <stream-end>] <sp-end>]
- show gnss-receiver { brief | detail | sync <clk-interface> } [__readonly__ [TABLE_gnss_rcvr <rcvrid-slot> <rcvrid-port> <enabled> <shutdown> <antijam_disable> <constellation> <snr_threshold> <elev_threshold> <pdop_threshold> <traim_threshold> <cable_delay_comp> <polarity_lpps> <available> <lock_status> <rx_mode> <survey_progress> <holdover_duration> <major_alarm> <minor_alarm> <pdop> <hdop> <vdop> <tdop> <latitude> <longitude> <altitude> <time> <fw_version> <utc_offset> <sat_data_known> <sat_count> [TABLE_satellite <prn> <channel_num> <acq_flag> <ephe_flag> <sv_type> <signal_strength>] <gnssrcvr-end>] <gnssstable-end>]
- show icam system [memory | shared-memory] [history <num_sample> [sort { usage [ascending | descending] | polled-timestamp [newest | oldest] }] | utilization | thresholds] [__readonly__ [<Info_Thres> <Warn_Thres> <Crit_Thres>] [{ TABLE_type <Type> [{ TABLE_item <Name> [<Instance>] [<Unit>] [<Limit>] [<Usage>] [<Util>] [<Thres_Exceeded> <Polled_TS>] [<Avg_Util>] [<Peak_Util> <Peak_TS>] [<Info_Thres_Exceed> <Info_Thres_Exceed_TS>

```
<Warn_Thres_Exceed> <Warn_Thres_Exceed_TS> <Crit_Thres_Exceed> <Crit_Thres_Exceed_TS>
}}}}]
```

- show interface <ifeth_ctr_po> 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>] [<eth_l3in_ipv4bytes>] [<eth_l3in_ipv4pkts>] [<eth_l3in_ipv6bytes>] [<eth_l3in_ipv6pkts>] } { 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>] [<eth_l3out_ipv4bytes>] [<eth_l3out_ipv4pkts>] [<eth_l3out_ipv6bytes>] [<eth_l3out_ipv6pkts>] }]
- show interface <ifindex> queuing-drop history detail <type> [__readonly__ <show-interface-queuing-drop-history-detail-start> <show-hdr> <show-timestamp> <show-portnum> <tbl-data> <show-cr> <show-end>]
- show interface <ifveth> [__readonly__ TABLE_interface <interface> <state> [<state_rsn>] <state_rsn_desc> [<desc>] <veth_hw_desc> <veth_hw_addr> <veth_bia_addr> [<veth_conn_name>] [<veth_conn_dev_name>] [<veth_vem_num>] [<veth_vmware_dvport_num>] [<veth_port_profile>] <veth_mode> <veth_inrate_bits> <veth_inrate_pkts> <veth_outrate_bits> <veth_outrate_pkts> <veth_inpkts> <veth_inucast> <veth_inmcast> <veth_inbcast> <veth_inbytes> <veth_outpkts> <veth_outucast> <veth_outmcast> <veth_outbcast> <veth_outfloods> <veth_outbytes> <veth_inpktdrops> <veth_outpktdrops>]
- show interface [<ifindex>] queuing-drop history brief <type> [__readonly__ <show-interface-queuing-drop-history-brief-start> <show-hdr> <show-timestamp> <tbl-data> <show-cr> <show-end>]
- show interface chassis-info [__readonly__ TABLE_chassis_info <chas_no> <chas_port> <slot_no> <port_no> <module_side> <chas_vendor> <chas_model> <chas_ser> <mod_vendor> <mod_model> <mod_ser> <mgmt_inst> <fab_id> <ver> <devtype> <chas_state> <chas_mac> <adapter_mode>]
- show interface counters fc [brief] [__readonly__ [{ TABLE_counters <sfp> { TABLE_input_rate <bit_per_sec> <bytes_per_sec> <frames_per_sec> } { TABLE_output_rate <bit_per_sec> <bytes_per_sec> <frames_per_sec> } { TABLE_input <frames> <bytes> [<class_2_frames>] [<class_2_bytes>] [<class_3_frames>] [<class_3_bytes>] [<class_f_frames>] [<class_f_bytes>] [<class_2_3_frames>] <discards> <errors> <crc_fes> <unknown_class> <too_long> <too_short> } { TABLE_output <frames> <bytes> [<class_2_frames>] [<class_2_bytes>] [<class_3_frames>] [<class_3_bytes>] [<class_f_frames>] [<class_f_bytes>] [<class_2_3_frames>] [<discards>] [<errors>] [<crc_fes>] } [<timeout_discards>] [<credit_loss>] [<input_ols>] [<input_lrr>] [<input_nos>] [<input_loop_inits>] [<output_ols>] [<output_lrr>] [<output_nos>] [<output_loop_inits>] [<link_faliures>] [<sync_loss>] [<signal_loss>] [<b2b_transmit>] [<b2b_receive>] [<txwait>] [<tx_credit_unavbl>] [<b2b_receive_remain>] [<b2b_transmit_remain>] [<low_priority_b2b_remain>] [<off_seq_err_rcvd>] [<broadcast_frames>] [<errors>] [<queue_drops>] [<if_down_drops>] [<red_drops>] [<bad_ether_type_drops>] [<bad_protocol_drops>] [<arp_drops>] [<reass_frames>] [<timestamp_error>] [<rx_b2b_perf_buff>] [<rx_b2b_credit>] [<tx_b2b_credit>] [<tx_b2b_low_pri_cre>] [<time_last_cleared> }] [{ TABLE_counters_brief <sfp> <fc_input_rate> <fc_frames_in> <fc_output_rate> <fc_frames_out> }] [{ TABLE_interface <interface> [<fcoe_in_pkts>] [<fcoe_in_octets>] [<fcoe_out_pkts>] [<fcoe_out_octets>] }]]
- show interface server-info interface { all | <ifname> } [__readonly__ TABLE_server_info <server_type> <port>]

- show lldp poe { interface <if0> } [__readonly__ <power-type> <power-source> <power-priority> <power-requested> <power-allocated>]
- show logging level [ip] igmp
- show logging level epbr
- show logging level fsync_mgr
- show logging level syncc
- show logging level tunnel-encryption
- show logging level { mfwd | mcastfwd }
- show mac-address-table [configured_macs] [__readonly__ TABLE_mac_address <disp_vlan> <disp_mac_addr> <disp_port>]
- show module <module1> port type [__readonly__ { TABLE_porttype <slot1> <port1> <opertype> <admintype> }]
- show mvpn mdt route [detail] [__readonly__ TABLE_vrf <out_context> [TABLE_mroutel <src_addr> <grp_addr> <uptime> <ref_count> [<route_type>] [<group_mode>] [<route_flags>]]]
- show ngoam loop-detection status [vlan <vlan-range> [port <port-range>]] [history] [__readonly__ <top-line> [TABLE_loopdetection_status { <vlanId> <portId> <state> <numLoops> <loopDetectedTime> <loopClearedTime> }]]
- show ngoam loop-detection summary [__readonly__ [TABLE_loopdetection_summary { <enable> <periodic_probe_interval> <port_recovery_interval> <numVlans> <numPorts> <numLoops> <numPortsBlocked> <numVlansDisabled> <numPortsDisabled> <totalProbesSent> <totalProbesReceived> <nextProbeTime> <nextRecoveryTime> }]]
- show nve adjacency srv6 { l3vpn } [__readonly__ TABLE_nve_srv6_adj [{ <locator-ipv6> } <src-ip-ipv6> <function> <learn-mask> <pending-state> <adj-state>]]
- show nve peers srv6 { l3vpn } [locator <locator-ipv6>] [detail] [__readonly__ TABLE_nve_srv6_peers [[<detail>] [<locator-ipv6>] [<src-ip-ipv6>] [<peer-state>] [<uptime>] [<create-ts>] [<provision-state>]]]
- show nve srv6 { l3vpn } [__readonly__ [TABLE_nve_srv6 { <sm-state> }]]
- show power inline <inf> detail [__readonly__ { TABLE_intf_detail <intf> <power_mode> <oper_status> <device_det> <dev_type> <ieee_class> <disc_mech> <police_action> <interface_pri> <power_admin_value> <power_drawn_src> <power_avail_dev> <consump_at_port> <power_drawn_dev> <absent_count> <over_curr_count> <short_curr_count> <inv_sign_count> <power_denied_count> <four_pair_support> <spare_pair_support> }]
- show procmon dtx-perf
- show queuing llfc-queue [interface <if_list>] [module <module>] [detail] [__readonly__ [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-total-pkt-dropped> <q-aggr-pkt-dropped> <q-ingr-pkt-dropped> <q-aggr-ingr-pkt-dropped>]] [TABLE_qosgrp_stats_summary <qosgrp-summary>]]]]
- show running-config epbr

- show running-config fsync_mgr [all]
- show running-config kafka [all]
- show running-config syncnc [all]
- show running-config tunnel-encryption
- show running-config { mfwfwd | mcastfwd } [all]
- show running-config { mfwfwdv6 | mcastfwdv6 } [all]
- show software authenticity keys [__readonly__ [TABLE_sh_keys <key_num> <key_type> <pub_key_algo> <modulus> <exponent> <key_version> [<product_name>]]]
- show software authenticity { file <uri0> | running } [__readonly__ [TABLE_filekey <image> <image_type> <signer_cname> [<signer_org_unit>] <signer_org_name> <cert_serial_num> <hash_algo> <signature_algo> [<key_version>] [<verifier_name> <verifier_version>]]]
- show startup-config epbr
- show startup-config fsync_mgr [all]
- show startup-config syncnc [all]
- show startup-config tunnel-encryption
- show startup-config { mfwfwd | mcastfwd } [all]
- show startup-config { mfwfwdv6 | mcastfwdv6 } [all]
- show tech-support epbr
- show tech-support forwarding multicast nat
- show tech-support frequency synchronization
- show tech-support fsync_mgr [detail]
- show tech-support tunnel-encryption [detail]
- show tunnel-encryption info global
- show tunnel-encryption policy [<policy_name>] [__readonly__ { TABLE_tun_enc_policy <name> <cipher_suite> <window_size> <conf_offset> <security_policy> <sak-expiry-time> <include_icv_indicator> }]
- show tunnel-encryption session [peer-ip <peer_ipaddress_v4>] [detail] [__readonly__ [TABLE_tem_session <PeerAddr> <PolicyName> <KCName> <RxStatus> <TxStatus>] [TABLE_tem_session_detail <PeerAddr> <PolicyName> <KCName> <CKN> <RxStatus> <TxStatus> <peersci> <rxsa_latest_an> <rxsa_old_an> <rxsa_cs> <rxsa_winsize> <txsa_an> <txsa_cs> <txsa_ckn> <last_rx_flap> <last_tx_flap> <last_sak_rekey_time>]]
- show tunnel-encryption statistics [peer-ip <peer_ipaddress_v4>] [__readonly__ [TABLE_statistics <PeerAddr> [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_pkts_decrypted>] [<in_octets_decrypted>] [<in_octets_validated>]] [TABLE_tx_sa_an <tx_sa_an> [<out_pkts_encrypted_protected>] [<out_pkts_too_long>] [<out_pkts_untagged>] [<out_octets_encrypted_protected>]]]]]

- show upgrade history [__readonly__ { [TABLE_installHistory <installHistoryStr>] }]
- show zone smart-zoning auto-conv log errors
- show zone smart-zoning auto-conv status vsan <i0>

Changed Commands

The following commands are modified in this release.

- OLD: show [<ip_ipv6_mac>] access-lists [<name>] [capture session <capture_session>] [<expanded> | <summary> | <private> | <brief> | <stats-detail>] [__readonly__ TABLE_ip_ipv6_mac <op_ip_ipv6_mac> <show_summary> <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>]] [TABLE_match <module> <module_match_count>] [<nve_vni>] | <remark> [<action> <actionid>]]] [ethertype <ethertypeid> | vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>] + [[<stats_enabled>] [<frag_option>] [<ign_rtable>] { <num_ace> } { <conf_if_header> } [<conf_if>] { <active_if_header> } [<active_if>]]]]
- NEW: show [<ip_ipv6_mac>] access-lists [<name>] [capture session <capture_session>] [<expanded> | <summary> | <private> | <brief> | <stats-detail>] [__readonly__ TABLE_ip_ipv6_mac <op_ip_ipv6_mac> <show_summary> <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_mask>] | <dscp_str>]] [<ttl>]] [<log>] [<telemetry_queue>] [<telemetry_path>] [<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>]] [TABLE_match <module> <module_match_count>] [<nve_vni>] | <remark> [<action> <actionid>]]] [ethertype <ethertypeid> | vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>] + [[<stats_enabled>] [<frag_option>] [<ign_rtable>] { <num_ace> } { <conf_if_header> } [<conf_if>] { <active_if_header> } [<active_if>]]]]

- OLD: show [ip] bgp peer-template [<peer-template-name>] [__readonly__ { TABLE_neighbor <templatepeer> [<remoteas>] [<inherit-template>] [<inherit-session-template>] [{ <prefix-parent> | <ipv6prefix-parent> | <interface-parent> }] [<description>] [<sourcecif>] [<connectedcheck>] [<lowmemexempt>] [<bfd>] [<bfdmintxinterval>] [<bfdminrxinterval>] [<bfdmultiplier>] [<bfdauthenticationtype>] [<ttlsecurity>] [<ttllimit>] [<dscp>] [<password>] [<passiveonly>] <localas-inactive> [<remove-privateas>] [<configholdtime> <configkeepalivetime>] [TABLE_peraf <per-afi> TABLE_persaf <per-safi> <per-af-name> [<tableversion>] [<neighbortableversion>] [<pfxrecvd>] [<pathsrecvd>] [<pfxbytes>] [<pfxtreataswithdrawn>] [<pfxsent>] [<pathsstent>] [<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> [<defaultoriginatormap>] [<defaultsent>] [<grpalthssaved>] [<firsteorrecvd>] [<firsteortime>] [<pathsflushed>] [<lasteorrecvtime>] [<lasteorsenttime>] [<firstconvgtime>] [<pfxsentfirsteor>] [<unsuppress-map>] [{ TABLE_policy_template <preference> <inherit-policy-template> }]] [TABLE_vrf <vrf-name> [TABLE_inheritingpeer <inheritingpeer> [<interface-parent>]]] }
- NEW: show [ip] bgp peer-template [<peer-template-name>] [__readonly__ { TABLE_neighbor <templatepeer> [<remoteas>] [<inherit-template>] [<inherit-session-template>] [{ <prefix-parent> | <ipv6prefix-parent> | <interface-parent> }] [<description>] [<sourcecif>] [<connectedcheck>] [<lowmemexempt>] [<bfd>] [<bfdmintxinterval>] [<bfdminrxinterval>] [<bfdmultiplier>] [<bfdauthenticationtype>] [<ttlsecurity>] [<ttllimit>] [<dscp>] [<password>] [<passiveonly>] <localas-inactive> [<remove-privateas>] [<gshut-activate>] [<gshut-map>] [<configholdtime> <configkeepalivetime>] [TABLE_peraf <per-afi> TABLE_persaf <per-safi> <per-af-name> [<tableversion>] [<neighbortableversion>] [<pfxrecvd>] [<pathsrecvd>] [<pfxbytes>] [<pfxtreataswithdrawn>] [<pfxsent>] [<pathsstent>] [<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> [<defaultoriginatormap>] [<defaultsent>] [<grpalthssaved>] [<firsteorrecvd>] [<firsteortime>] [<pathsflushed>] [<lasteorrecvtime>] [<lasteorsenttime>] [<firstconvgtime>] [<pfxsentfirsteor>] [<unsuppress-map>] [{ TABLE_policy_template <preference> <inherit-policy-template> }]] [TABLE_vrf <vrf-name> [TABLE_inheritingpeer <inheritingpeer> [<interface-parent>]]] }
- OLD: 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_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>] [{ 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> [ <name_lookup> ] <no_discard_rt_ext> <no_discard_rt_int> [ <passive_dflt> ] [
<bfd_enabled> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ { 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> [
<ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] <spf_runs> <last_spf_run_time> [
TABLE_range <addr> <masklen> <state> <nets> <advertise> [ <cost> ] ] [ <filter_in> ] [ <filter_out>
] <lsa_cnt> <lsa_crc> } ] ]
```

- NEW: 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_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>] [{ 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> [<name_lookup>] <no_discard_rt_ext> <no_discard_rt_int> [<passive_dflt>] [<bfd_enabled>] [<ipsec_sa_type>] [<ipsec_sa_algorithm>] [<ipsec_sa_spi>] [<num_new_lsa_tx>] [<num_new_lsa_rx>] [{ 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> [<ipsec_sa_type>] [<ipsec_sa_algorithm>] [<ipsec_sa_spi>] <spf_runs> <last_spf_run_time> [TABLE_range <addr> <masklen> <state> <nets> <advertise> [<cost>]] [<filter_in>] [<filter_out>] <lsa_cnt> <lsa_crc> }]]]
- OLD: 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> [<ipsec_sa_type>] [<ipsec_sa_algorithm>] [<ipsec_sa_spi>] [<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>] [<lsu_timer>] [<lsack_timer>] [<link_lsa_cnt>] [<link_lsa_crc>] [<multi_area_cnt>] [<multi_area_adj>]]]
- NEW: 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> [<ipsec_sa_type>] [<ipsec_sa_algorithm>] [<ipsec_sa_spi>] [<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>] [<lsu_timer>] [<lsack_timer>] [<link_lsa_cnt>] [<link_lsa_crc>] [<multi_area_cnt>] [<multi_area_adj>] [<state_chg_cnt>]]]

- OLD: show bgp [internal] event-history { cli | detail | errors | events | logs | msgs | objstore | periodic | sdwrap-errors | socket }
- NEW: show bgp [internal] event-history { cli | detail | errors | events | logs | msgs | objstore | periodic | sdwrap-errors | socket | nve }
- OLD: 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> <gshut-aware> <gshut-activate> [<gshut-map>] <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-evpn-mpls>] [<vrf-vni-id>] [<vrf-vni-id-valid>] [<vrf-topo-id>] [<vrf-encap-type>] [<vrf-vtep-ip>] [<vrf-vtep-virtual-ip>] [<vrf-vtep-vip>] [<vrf-router-mac>] [<vrf-vip-router-mac>] [<vrf-vipr-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-configured>] [<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> }] <wait-igp-convergence> [{ 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>] [TABLE_mvpn_export_rt <mvpn-export-rt>] [TABLE_mvpn_import_rt <mvpn-import-rt>] [<af-label-mode>] [<af-aggregate-label>] [<af-alloc-index>] [<srv6-sid-locator-name>] [<srv6-sid-locator-id>] [<srv6-sid-locator-prefix>] [<srv6-sid-src-enc-address>] [<srv6-vrf-sid-alloc>] [<srv6-vrf-dt46-sid>] [<srv6-vrf-dt-sid-alloc-pending>] [<srv6-vrf-dt-sid-del-pending>] [<srv6-vrf-sid-alloc-pending-reason>] [<srv6-tbl-sid-alloc>] [<srv6-tbl-dt-type>] [<srv6-tbl-dt-sid>] [<srv6-tbl-dt-sid-alloc-pending>] [<srv6-tbl-dt-sid-del-pending>] [<srv6-tbl-dt-sid-alloc-pending-reason>] [<srv6-alloc-mode>] [<importdefault_prefixlimit> <importdefault_prefixcount> <importdefault_map> <importdefault_advertisevpn>] [<import_vrf_advertisevpn>] [<exportdefault_prefixlimit> <exportdefault_prefixcount> <exportdefault_map> <exportdefault_allowvpn>] [<export_vrf_allowvpn> <af-rt> <default-information-enabled> [<default-information-rd> <default-information-rt>] <nexthop-trigger-delay-critical> <nexthop-trigger-delay-non-critical> [<nexthop-route-map>] }] }
- NEW: 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> <gshut-aware> <gshut-activate> [<gshut-map>] <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-evpn-mpls>] [<vrf-vni-id>] [<vrf-vni-id-valid>] [<vrf-topo-id>] [<vrf-encap-type>] [<vrf-vtep-ip>] [<vrf-vtep-virtual-ip>] [<vrf-vtep-vip>] [<vrf-router-mac>] [<vrf-vip-router-mac>] [<vrf-vipr-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-configured>] [<vrf-rd>] [<vrf-secondary-rd-configured>] [<vrf-secondary-rd>] [

- NEW: 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 | 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> }] } path-attribute { discard | unknown } [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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [<metric>] [<localpref>] } } } | [<policyincomplete> <pathvalid> <pathbest> <pathreoriginated> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> <pathlocator>] [<importsource> [<originalimportsource>]] [<importdstcount>] [TABLE_importdsts <importdst>] [<existpath>] [<gwip> | <ipv6gwip>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregators> <atomicaggregate>] [<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_sub_type> <psid_v6sid> <psid_func_len> <psid_trans_len> <psid_trans_off>] [<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>] [<tunnel-encap-attr-len>] [<mdt_grp_addr>] [TABLE_path_attr_list <path_attr_list> [TABLE_attr <attr_num> <attr_code_str> <attr_code_hex> <attr_flags> <attr_len> [TABLE_attr_val <attr_value>]]]] [TABLE_advertisedto <advertisedto>] [TABLE_scheduledto <scheduledto>]]]]
- OLD: 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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [<metric>] [<localpref>] } } } | [<policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> <pathlocator>] [<importsource> [<originalimportsource>]] [<importdstcount>] [TABLE_importdsts <importdst>] [<existpath>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregators> <atomicaggregate>] [<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>

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TABLE_attr <attr_num> <attr_code_str> <attr_code_hex> <attr_flags> <attr_len> [ TABLE_attr_val
<attr_value> ] ] ] } } [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto>
] ] ] ]

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- NEW: 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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [<metric>] [<localpref>] } } } | { <policyincomplete> <pathvalid> <pathbest> <pathreoriginated> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> <pathlocator> } [<importsource> [<originalimportsource>]] [<importdestscount>] [TABLE_importdests <importdest>] [<existpath>] [<gwip> | <ipv6gwip>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregatoras> <atomicaggregate>] [<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_sub_type> <psid_v6sid> <psid_func_len> <psid_trans_len> <psid_trans_off>] [<psid_origrsrgb_len> <psid_origrsrgb_flag> <psid_origrsrgb_base> <psid_origrsrgb_end>]] [<remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac>] [<pmsi>] [<evpn-esi>] [<link-state-attr> <link-state-attr-len>] [<tunnel-encap-attr-len>] [<mdt_grp_addr>] [TABLE_path_attr_list <path_attr_list> [TABLE_attr <attr_num> <attr_code_str> <attr_code_hex> <attr_flags> <attr_len> [TABLE_attr_val <attr_value>]]]] } } [TABLE_advertisedto <advertisedto>] [TABLE_scheduledto <scheduledto>]]]]

- OLD: 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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [<metric>] [<localpref>] } } } | { <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> <pathlocator> } [<importsource> [<originalimportsource>]] [<importdestscount>] [TABLE_importdests <importdest>] [<existpath>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregatoras> <atomicaggregate>] [<inlabel>] [<originflag>] [{ TABLE_community <community> }] [{ TABLE_extcommunity <extcommunity> }]]]]

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- NEW: 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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [<metric>] [<localpref>]] } } | { <policyincomplete> <pathvalid> <pathbest> <pathreoriginated> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabelednrh> <pathlocator>] [<importsource> [<originalimportsource>]] [<importdestscount>] [TABLE_importdests <importdest>] [<existpath>] [<gwip> | <ipv6gwip>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregatoras> <atomicaggregate>] [<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_sub_type> <psid_v6sid> <psid_func_len> <psid_trans_len> <psid_trans_off>] [<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>] [<tunnel-encap-attr-len>] [<mdt_grp_addr>] [TABLE_path_attr_list <path_attr_list> [TABLE_attr <attr_num> <attr_code_str> <attr_code_hex> <attr_flags> <attr_len> [TABLE_attr_val <attr_value>]]]]] } } [TABLE_advertisedto <advertisedto>] [TABLE_scheduledto <scheduledto>]]]]

- OLD: show bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] { ipv4 { unicast | multicast } | ipv6 { unicast | multicast } | all } summary [__readonly__ TABLE_vrf <vrf-name-out> [<vrf-id>] [<vrf-state>] [<vrf-state-rsn>] [<vrf-delete-pending>] [<vrf-evpn-mpls>] [<vrf-vni-id>] [<vrf-vni-id-valid>] [<vrf-topo-id>] [<vrf-encap-type>] [<vrf-vtep-ip>] [<vrf-vtep-virtual-ip>] [<vrf-vtep-vip>] [<vrf-router-mac>] [<vrf-vip-router-mac>] [<vrf-vipr-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-configured>] [<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>] [

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- OLD: 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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } } { <inlabel> <outlabel> <vpn> <hold_down> } } { <weight> <aspath> <origin> [<metric>] [<localpref>] } } | { { <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrnh> <pathlocator>] [<importsource> [<originalimportsource>]] [<importdstscount>] [TABLE_importdsts <importdst>] [<existpath>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregatoras> <atomicaggregate>] [<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> [

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- NEW: 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 } 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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [<metric>] [<localpref>] } } } | [<policyincomplete> <pathvalid> <pathbest> <pathreoriginated> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> <pathlocator>] [<importsource> [<originalimportsource>]] [<importdestscount>] [TABLE_importdests <importdest>] [<existpath>] [<gwip> | <ipv6gwip>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregatoras> <atomicaggregate>] [<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_sub_type> <psid_v6sid> <psid_func_len> <psid_trans_len> <psid_trans_off>] [<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>] [<tunnel-encap-attr-len>] [<mdt_grp_addr>] [TABLE_path_attr_list <path_attr_list> [TABLE_attr <attr_num> <attr_code_str> <attr_code_hex> <attr_flags> <attr_len> [TABLE_attr_val <attr_value>]]]]]] [TABLE_advertisedto <advertisedto>] [TABLE_scheduledto <scheduledto>]]]]

- OLD: 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 { dampened-paths [regex <regex-str>] | history-paths [regex <regex-str>] } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [__readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [

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- NEW: 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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [<metric>] [<localpref>] } } } | { [<policyincomplete> <pathvalid> <pathbest> <pathreoriginated> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> <pathlocator>] [<importsource> [<originalimportsource>]] [<importdestscount>] [TABLE_importdests <importdest>] [<existpath>] [<gwip> | <ipv6gwip>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregatoras> <atomicaggregate>] [<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_sub_type> <psid_v6sid> <psid_func_len> <psid_trans_len> <psid_trans_off>] [<psid_origsrgb_len> <psid_origsrgb_flag> <psid_origsrgb_base> <psid_origsrgb_end>]] [<remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac>] [<pmsi>] [<evpn-esi>]]

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- OLD: 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 } 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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [<metric>] [<localpref>] } } } | { [<policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> <pathlocator>] [<importsource> [<originalimportsource>]] [<importdestscount>] [TABLE_importdests <importdest>] [<existpath>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregators> <atomicaggregate>] [<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_sub_type> <psid_v6sid> <psid_func_len> <psid_trans_len> <psid_trans_off>] [<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_path_attr_list <path_attr_list> [TABLE_attr <attr_num> <attr_code_str> <attr_code_hex> <attr_flags> <attr_len> [TABLE_attr_val <attr_value>]]]]]]] [TABLE_advertisedto <advertisedto>] [TABLE_scheduledto <scheduledto>]]]]]

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- OLD: 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 } 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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [<metric>] [<localpref>] } } } | { <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrnh> <pathlocator>] [<importsource> [<originalimportsource>]] [<importdstscount>] [TABLE_importdsts <importdst>] [<existpath>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregatoras> <atomicaggregate>] [<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_sub_type> <psid_v6sid> <psid_func_len> <psid_trans_len> <psid_trans_off>] [<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_path_attr_list <path_attr_list> [

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- NEW: 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 } 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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [<metric>] [<localpref>] } } | { <policyincomplete> <pathvalid> <pathbest> <pathreoriginated> <pathdeleted> <pathstaled> <pathhistory> <pathvermaxaslimit> <pathmultipath> <pathnolabeledrn> <pathlocator>] [<importsource> [<originalimportsource>]] [<importdstscout>] [TABLE_importdests <importdest>] [<existpath>] [<gwip> | <ipv6gwip>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregators> <atomicaggregate>] [<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_sub_type> <psid_v6sid> <psid_func_len> <psid_trans_len> <psid_trans_off>] [<psid_origsrgb_len> <psid_origsrgb_flag> <psid_origsrgb_base> <psid_origsrgb_end>]] [<remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac>] [<pmsi>] [<evpn-esi>] [<link-state-attr> <link-state-attr-len>] [<tunnel-encap-attr-len>] [<mdt_grp_addr>] [TABLE_path_attr_list <path_attr_list> [TABLE_attr <attr_num> <attr_code_str> <attr_code_hex> <attr_flags> <attr_len> [TABLE_attr_val <attr_value>]]]]]] [TABLE_advertisedto <advertisedto>] [TABLE_scheduledto <scheduledto>]]]]

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- OLD: 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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [<metric>] [<localpref>] } } } | { [<policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> <pathlocator>] [<importsource> [<originalimportsource>]] [<importdestscount>] [TABLE_importdests <importdest>] [<existpath>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregators> <atomicaggregate>] [<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_sub_type> <psid_v6sid> <psid_func_len> <psid_trans_len> <psid_trans_off>] [<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_path_attr_list <path_attr_list> [TABLE_attr <attr_num> <attr_code_str> <attr_code_hex> <attr_flags> <attr_len> [TABLE_attr_val <attr_value>]]]]] } } [TABLE_advertisedto <advertisedto>] [TABLE_scheduledto <scheduledto>]]]]
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ipv4 labeled-unicast } nexthop <ipnexthop> | { ipv6 { unicast | multicast } | vpv6 unicast [rd {
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- NEW: show bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] { { ipv4
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- OLD: show bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] { { ipv4
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] ] ] ]

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- NEW: show bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] { { ipv4 { unicast | multicast } | vpv4 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 } | vpv6 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>] | detail | 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> | detail] | 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>] [<table-map-filtered>] [<export-on-newlist> <export-on-xmitlist>] [<srv6-local-sid>] [<locallabel>] [<labelhldwstr>] [<mpath>]] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [<metric>] [<localpref>] } } } | { <policyincomplete> <pathvalid> <pathbest> <pathreoriginated> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrnh> <pathlocator> } [<importsource> [<originalimportsource>]] [<importdestscount>] [TABLE_importdests <importdest>] [<existpath>] [<gwip> | <ipv6gwip>] [<aspath> <source>] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [<metric>] <localpref> <weight> [<aggregator> <aggregatoras> <atomicaggregate>] [<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_sub_type> <psid_v6sid>
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<psid_origsrgrb_base> <psid_origsrgrb_end>]] [<remotenh> <remotenh_encap> <remotenh_vnid>
<remotenh_mac>] [<pmsi>] [<evpn-esi>] [<link-state-attr> <link-state-attr-len>] [
<tunnel-encap-attr-len>] [<mdt_grp_addr>] [TABLE_path_attr_list <path_attr_list> [TABLE_attr
<attr_num> <attr_code_str> <attr_code_hex> <attr_flags> <attr_len> [TABLE_attr_val <attr_value>
]]] } }] [TABLE_advertisedto <advertisedto>] [TABLE_scheduledto <scheduledto>]]]]

```
- OLD: show bgp evi [ <evi-id> ] [ \_\_readonly\_\_ [ TABLE\_ctx <evid> <rd> <numlocalprefixes> <numtotalprefixes> <created> <lastoperup> <lastoperdown> <enabled> [ <associatedvrf> ] [ TABLE\_activeexportrts <exportrt> ] [ TABLE\_activeimportrts <importrt> ] [ TABLE\_evpnactiveexportrts <evpnexportrt> ] [ TABLE\_evpnactiveimportrts <evpnimportrt> ] [ TABLE\_mvnpactiveexportrts <mvpnexportrt> ] [ TABLE\_mvnpactiveimportrts <mvpnimportrt> ] [ TABLE\_activeexportrtsv6 <exportrtv6> ] [ TABLE\_activeimportrtsv6 <importrtv6> ] [ TABLE\_evpnactiveexportrtsv6 <evpnexportrtv6> ] [ TABLE\_evpnactiveimportrtsv6 <evpnimportrtv6> ] [ TABLE\_mvnpactiveexportrtsv6 <mvpnexportrtv6> ] [ TABLE\_mvnpactiveimportrtsv6 <mvpnimportrtv6> ] ] ] ]
  - NEW: show bgp evi [ <evi-id> ] [ \_\_readonly\_\_ [ TABLE\_ctx <evid> <rd> [ <secondaryrd> ] <numlocalprefixes> <numtotalprefixes> <created> <lastoperup> <lastoperdown> <enabled> [ <associatedvrf> ] [ TABLE\_activeexportrts <exportrt> ] [ TABLE\_activeimportrts <importrt> ] [ TABLE\_evpnactiveexportrts <evpnexportrt> ] [ TABLE\_evpnactiveimportrts <evpnimportrt> ] [ TABLE\_mvnpactiveexportrts <mvpnexportrt> ] [ TABLE\_mvnpactiveimportrts <mvpnimportrt> ] [ TABLE\_activeexportrtsv6 <exportrtv6> ] [ TABLE\_activeimportrtsv6 <importrtv6> ] [ TABLE\_evpnactiveexportrtsv6 <evpnexportrtv6> ] [ TABLE\_evpnactiveimportrtsv6 <evpnimportrtv6> ] [ TABLE\_mvnpactiveexportrtsv6 <mvpnexportrtv6> ] [ TABLE\_mvnpactiveimportrtsv6 <mvpnimportrtv6> ] ] ] ]
  - OLD: 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-evpn-mpls> ] [ <vrf-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-topo-id> ] [ <vrf-encap-type> ] [ <vrf-vtep-ip> ] [ <vrf-vtep-virtual-ip> ] [ <vrf-vtep-vipr> ] [ <vrf-router-mac> ] [ <vrf-vip-router-mac> ] [ <vrf-vipr-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-configured> ] [ <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> ] [ <softreconfigidenticalpaths> ] [ <softreconfigcombopath> ] [ <softreconfigfilteredrecvd> ] [ <softreconfigbytes> ] [ TABLE\_neighbor <neighborid> [ <neighborversion> ] [ <msgrecvd> ] [ <msgsent> ] [ <neighbortableversion> ] [ <inq> ] [ <outq> ] [ <neighboras> ] [ <time> ] [ <state> ] [ <prefixreceived> ] [ <interface-parent> ] ] ] ] ]
  - NEW: 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





- OLD: show class-map type network-qos [ <cmmap-name-nq> ] [ \_\_readonly\_\_ { [ <display-all> ] [ TABLE\_cmap <cmmap-key> <xcmmap-name> [ <desc> ] [ <cos-list> ] [ <qos-group-list> ] [ <protocol> ] ] } ]
- NEW: show class-map type network-qos [ <cmmap-name-nq> ] [ \_\_readonly\_\_ { [ <display-all> ] [ TABLE\_cmap <cmmap-key> <xcmmap-name> [ <desc> ] [ <cos-list> ] [ <qos-group-list> ] [ <protocol> ] [ TABLE\_xmatch <xmatch-key> [ <xcos-list> ] [ <xqos-group-list> ] [ <xprotocol> ] ] ] } ]
- OLD: show cli variables [ \_\_readonly\_\_ <switchname> <timestamp> [ { TABLE\_variable <key> <value> } ] [ { TABLE\_session\_variable <key> <value> } ] ]
- NEW: show cli variables [ \_\_readonly\_\_ <switchname> <timestamp> <currentuser> [ { TABLE\_variable <key> <value> } ] [ { TABLE\_session\_variable <key> <value> } ] ]
- OLD: show consistency-checker forwarding [ ip | ipv4 ] [ unicast ] [ suppress-transient ] [ vrf { <vrf-name> | all\_vrfs } ] [ module { <module> | all\_modules } ] | show forwarding [ ip | ipv4 ] [ unicast ] inconsistency [ suppress-transient ] [ vrf { <vrf-name> | all\_vrfs } ] [ module { <module> | all\_modules } ] [ \_\_readonly\_\_ TABLE\_inconsistency <id> <slot> [ <unit> ] <vrf> [ <ipaddr> ] [ <ipprefix> ] [ <interface> ] <reason> ]
- NEW: show consistency-checker forwarding [ ip | ipv4 ] [ unicast ] [ suppress-transient ] [ vrf { <vrf-name> | all\_vrfs } ] [ module { <module> | all\_modules } ] [ \_\_readonly\_\_ [ <err\_str> ] [ <cc\_header> ] [ <table\_id> ] [ <slot\_id> ] [ <exec\_time> ] [ <elapsed\_time> ] [ <inconsis\_adjts> ] [ TABLE\_inconsistency\_adjts { <id> <slot> [ <unit> ] <vrf> [ <ipaddr> ] [ <ipprefix> ] [ <interface> ] <reason> } ] [ <inconsis\_routes> ] [ TABLE\_inconsistency\_routes { <id> <slot> [ <unit> ] <vrf> [ <ipaddr> ] [ <ipprefix> ] [ <interface> ] <reason> } ] [ <run\_status> ] ]
- OLD: show consistency-checker l2 multicast group <grp-address> source <src-address> vlan <vlan-id> [ debug-logs ] [ brief | detail ]
- NEW: show consistency-checker l2 multicast group { <grp-address> | <grp-ipv6-address> } source { <src-address> | <src-ipv6-address> } vlan <vlan-id> [ debug-logs ] [ brief | detail ]
- OLD: show consistency-checker l2-tahoe switchport interface <if\_name> [ brief | detail ]
- NEW: show consistency-checker l2-tahoe switchport { interface { <if\_name> | all } | module { <module> | all } } [ brief | detail ]
- OLD: show consistency-checker l3 multicast [ group { <grp-address> [ <mask> ] | <gprefix> } ] source <src-address> vrf { <vrf-name> | <vrf-known-name> } [ debug-logs ] [ brief | detail ]
- NEW: show consistency-checker l3 multicast group { <grp-address> [ <mask> ] | <gprefix> | <grp-ipv6-address> } source { <src-address> | <src-ipv6-address> } vrf { <vrf-name> | <vrf-known-name> } [ tunnel ] [ debug-logs ] [ brief | detail ]
- OLD: show consistency-checker membership vlan <vlanid> [ [ interface <intf-id> ] | [ private-vlan [ interface [ <int-id> | <ch-id> ] ] ] ] [ native-vlan ] [ brief | detail ]
- NEW: show consistency-checker membership vlan <vlanid> [ [ interface [ <intf-id> | <ch-id> ] ] | [ private-vlan [ interface [ <int-id> | <ch-id> ] ] ] ] [ native-vlan ] [ brief | detail ]
- OLD: show consistency-checker vxlan mh mac-addresses
- NEW: show consistency-checker vxlan mh mac-addresses [ brief | detail ]

- OLD: show consistency-checker vxlan mh pathlist
- NEW: show consistency-checker vxlan mh pathlist [ brief | detail ]
- OLD: show dot1x all details [ \_\_readonly\_\_ <sys\_auth\_ctrl> <proto\_ver> <mac\_move> TABLE\_alldetail <if\_index> TABLE\_allpaedetail <pae\_type> [ <port\_control> ] [ <host\_mode> ] [ <quiet\_period> ] [ <inactivity\_period> ] [ <tx\_period> ] [ <max\_req> ] [ <reauth> ] [ <rate\_limit\_period> ] [ <supp\_timeout> ] [ <server\_timeout> ] [ <reauth\_server> ] [ <reauth\_period> ] [ <reauth\_max> ] [ <mac\_auth\_bypass> ] [ <no\_of\_clients> ] [ <port\_status\_no\_clients> ] [ { TABLE\_if\_auth\_clients [ <supp\_mac\_addr> ] [ <auth\_domain> ] [ <auth\_sm\_state> ] [ <auth\_bend\_sm\_state> ] [ <port\_status> ] [ <authentication\_method> ] [ <authenticated\_by> ] [ <reauth\_period\_client> ] [ <reauth\_action> ] [ <time\_to\_next\_reauth> ] [ <auth\_vlan> ] } ] [ <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> ] ]
- NEW: show dot1x all details [ \_\_readonly\_\_ <sys\_auth\_ctrl> <proto\_ver> <mac\_move> TABLE\_alldetail <if\_index> TABLE\_allpaedetail <pae\_type> [ <port\_control> ] [ <host\_mode> ] [ <quiet\_period> ] [ <inactivity\_period> ] [ <tx\_period> ] [ <max\_req> ] [ <reauth> ] [ <rate\_limit\_period> ] [ <supp\_timeout> ] [ <server\_timeout> ] [ <reauth\_server> ] [ <reauth\_period> ] [ <reauth\_max> ] [ <mac\_auth\_bypass> ] [ <no\_of\_clients> ] [ <port\_status\_no\_clients> ] [ { TABLE\_if\_auth\_clients [ <supp\_mac\_addr> ] [ <auth\_domain> ] [ <auth\_sm\_state> ] [ <auth\_bend\_sm\_state> ] [ <port\_status> ] [ <authentication\_method> ] [ <authenticated\_by> ] [ <reauth\_period\_client> ] [ <reauth\_action> ] [ <time\_to\_next\_reauth> ] [ <url\_redirect\_acl> ] [ <url\_redirect\_link> ] [ <aaa\_at\_in\_acl> ] [ <auth\_vlan> ] } ] [ <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> ] ]
- OLD: show dot1x interface <if> [ \_\_readonly\_\_ <if\_index> <pae\_type> [ <port\_control> ] [ <host\_mode> ] [ <quiet\_period> ] [ <inactivity\_period> ] [ <tx\_period> ] [ <max\_req> ] [ <reauth> ] [ <rate\_limit\_period> ] [ <supp\_timeout> ] [ <server\_timeout> ] [ <reauth\_server> ] [ <reauth\_period> ] [ <reauth\_max> ] [ <mac\_auth\_bypass> ] [ <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> ] [ <quiet\_period\_detail> ] [ <inactivity\_period\_detail> ] [ <tx\_period\_detail> ] [ <max\_req\_detail> ] [ <reauth\_detail> ] [ <rate\_limit\_period\_detail> ] [ <supp\_timeout\_detail> ] [ <server\_timeout\_detail> ] [ <reauth\_server\_detail> ] [ <reauth\_period\_detail> ] [ <reauth\_max\_detail> ] [ <mac\_auth\_bypass\_detail> ] [ <no\_of\_clients> ] [ <port\_status\_no\_clients\_detail> ] [ { TABLE\_if\_auth\_clients\_detail [ <supp\_mac\_addr\_detail> ] [ <auth\_domain> ] [ <auth\_sm\_state> ] [ <auth\_bend\_sm\_state> ] [ <port\_status> ] [ <authentication\_method> ] [ <authenticated\_by> ] [ <reauth\_period\_client> ] [ <reauth\_action> ] [ <time\_to\_next\_reauth> ] [ <auth\_vlan> ] } ] [ <start\_period\_detail> ] [ <auth\_period\_detail> ] [ <held\_period\_detail> ] [ <max\_start\_detail> ] [ <no\_of\_supp\_clients> ] [ <auth\_mac\_addr\_detail> ] [ <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> ] [ <rxlenerr> ] [ <rxtotal> ] [ <txreq> ] [ <txreqid> ] [ <txtotal> ] [ <rxversion> ] [ <lastrxsourcemac> ] [ <rxreq> ] [ <rxsuppinvalid> ] [ <rxsupplennerr> ] [ <rxsupptotal> ] [ <txstart> ] [ <txlogoff> ] [ <txresp> ] [ <txsupptotal> ] [ <rxsuppversion> ] [ <lastrxsrcmac> ] ] } | { show dot1x interface <if> summary [ \_\_readonly\_\_ <if\_index\_summary> <pae\_type\_summary> [ <port\_status\_no\_clients\_summary> ] [ { TABLE\_if\_auth\_clients\_summary [ <auth\_mac\_addr> ] [ <port\_status\_summary> ] } ] [ <supp\_mac\_addr> ] [ <supp\_port\_status\_summary> ] ]
- NEW: show dot1x interface <if> [ \_\_readonly\_\_ <if\_index> <pae\_type> [ <port\_control> ] [ <host\_mode> ] [ <quiet\_period> ] [ <inactivity\_period> ] [ <tx\_period> ] [ <max\_req> ] [ <reauth> ] [ <rate\_limit\_period> ] [ <supp\_timeout> ] [ <server\_timeout> ] [ <reauth\_server> ] [ <reauth\_period> ]

```
[<reauth_max>] [<mac_auth_bypass>] [<start_period>] [<auth_period>] [<held_period>] [
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[<port_control_detail>] [<host_mode_detail>] [<quiet_period_detail>] [<inactivity_period_detail>
] [<tx_period_detail>] [<max_req_detail>] [<reauth_detail>] [<rate_limit_period_detail>] [
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] [<reauth_max_detail>] [<mac_auth_bypass_detail>] [<no_of_clients>] [
<port_status_no_clients_detail>] [{ TABLE_if_auth_clients_detail [<supp_mac_addr_detail>] [
<auth_domain>] [<auth_sm_state>] [<auth_bend_sm_state>] [<port_status>] [
<authentication_method>] [<authenticated_by>] [<reauth_period_client>] [<reauth_action>] [
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] }] [<start_period_detail>] [<auth_period_detail>] [<held_period_detail>] [<max_start_detail>]
[<no_of_supp_clients>] [<auth_mac_addr_detail>] [<supp_sm_state>] [<supp_bend_sm_state>]
[<supp_port_status>] } } | { show dot1x interface <if> statistics [__readonly__ <if_index_stat>
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<rxtotal>] [<txreq>] [<txreqid>] [<txttotal>] [<rxversion>] [<lastrxsourcemac>] [<rxreq>] [
<rxsuppinvalid>] [<rxsupplenerr>] [<rxsupptotal>] [<txstart>] [<txlogoff>] [<txresp>] [
<txsupptotal>] [<rxsuppversion>] [<lastrxsrmac>] } } | { show dot1x interface <if> summary [
__readonly__ <if_index_summary> <pae_type_summary> [<port_status_no_clients_summary>] [{
TABLE_if_auth_clients_summary [<auth_mac_addr>] [<port_status_summary>] }] [
<supp_mac_addr>] [<supp_port_status_summary>] }
```

- OLD: show flow profile [ \_\_readonly\_\_ [ { TABLE\_flow\_profile <name> [ <desc> ] <number-of-users> <export-intvl> <source-port> <packet-id-shift> <burst-intvl-shift> <mtu> [ <guess-threshold-lo> ] [ <guess-threshold-hi> ] [ { TABLE\_payload\_bin <payload-bin-num> <payload-bin-lo> <payload-bin-hi> } ] [ { TABLE\_tcpopthdr\_bin <tcpopthdr-bin-num> <tcpopthdr-bin-lo> <tcpopthdr-bin-hi> } ] [ { TABLE\_rcvwinsize\_bin <rcvwinsize-bin-num> <rcvwinsize-bin-lo> <rcvwinsize-bin-hi> } ] } ] ]
- NEW: show flow profile [ <profile> ] [ \_\_readonly\_\_ [ { TABLE\_flow\_profile <name> [ <desc> ] <number-of-users> <export-intvl> <source-port> <packet-id-shift> <burst-intvl-shift> <mtu> [ <guess-threshold-lo> ] [ <guess-threshold-hi> ] [ { TABLE\_payload\_bin <payload-bin-num> <payload-bin-lo> <payload-bin-hi> } ] [ { TABLE\_tcpopthdr\_bin <tcpopthdr-bin-num> <tcpopthdr-bin-lo> <tcpopthdr-bin-hi> } ] [ { TABLE\_rcvwinsize\_bin <rcvwinsize-bin-num> <rcvwinsize-bin-lo> <rcvwinsize-bin-hi> } ] } ] ]
- OLD: show flow rtp { errors { active | history } | details } [ ipv4 | ipv6 ] [ \_\_readonly\_\_ [ <flow-timeout> ] [ { TABLE\_flow\_rtp <flow-rtp-index> [ <flow-type> ] [ <source-ip> ] [ <destination-ip> ] [ <bridge-domain-id> ] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <packet-count> ] [ <bytes-per-sec> ] [ <bits-per-sec> ] [ <start-time> ] [ <if-name> ] [ { TABLE\_flow\_rtp\_errors <loss-start> [ <loss-end> ] [ <packet-loss> ] } } ] ] ]
- NEW: show flow rtp { errors { active | history } | details } [ ipv4 | ipv6 ] [ \_\_readonly\_\_ [ <flow-timeout> ] [ { TABLE\_flow\_rtp <flow-rtp-index> [ <flow-type> ] [ <source-ip> ] [ <destination-ip> ] [ <bridge-domain-id> ] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <packet-count> ] [ <bytes-per-sec> ] [ <bits-per-sec> ] [ <start-time> ] [ <if-name> ] [ <vrf-name> ] [ { TABLE\_flow\_rtp\_errors <loss-start> [ <loss-end> ] [ <packet-loss> ] } } ] ] ]
- OLD: show flow system [ \_\_readonly\_\_ <system\_exporter\_id> [ { TABLE\_flow\_interface [ <intf\_name> ] [ <exporter\_id> ] [ <profile\_name> ] [ <v4in\_mon\_name> ] [ <v4in\_direction> ] [ <v6in\_mon\_name> ] [ <v6in\_direction> ] [ <filter\_name> ] [ <ipv4\_hit> ] [ <ipv4\_create> ] [ <ipv6\_hit> ] [ <ipv6\_create> ] [ <ce\_hit> ] [ <ce\_create> ] [ <packets\_seen> ] [ <skip\_collect> ] [ <export\_count> ] } ] ]



- <total-num-routes> ] [ <num-star-g-route> ] [ <num-sg-route> ] [ <num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE\_one\_route [ <source-addr> ] [ <source-len> ] [ <group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <stats-pkts> ] [ <stats-bytes> ] [ <oif-count> ] [ <oiflist-index> ] [ TABLE\_oif [ <oif-name> ] [ <mti-src-intf> ] [ <mti-grp-ip> ] [ <mti-src-ip> ] ] ] ]
- NEW: show forwarding distribution ipv6 multicast route [ table <table\_id> | vrf <vrf-name> ] [ [ group { <group> } [ source { <source> } ] ] | summary ] [ \_\_readonly\_\_ TABLE\_vrf [ <vrf-name> ] [ <table-name> ] [ <table-id> ] [ <total-num-groups> ] [ TABLE\_route\_summary [ <vrf-name> ] [ <total-num-routes> ] [ <num-star-g-route> ] [ <num-sg-route> ] [ <num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE\_one\_route [ <source-addr> ] [ <source-len> ] [ <group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <upstream-addr> ] [ <stats-pkts> ] [ <stats-bytes> ] [ <oif-count> ] [ <oiflist-index> ] [ TABLE\_oif [ <oif-name> ] [ <mti-src-intf> ] [ <mti-grp-ip> ] [ <mti-src-ip> ] ] ] ] ]
  - OLD: show forwarding distribution multicast outgoing-interface-list L2\_PRIME [ <index> ] [ \_\_readonly\_\_ <dvif> <platform\_index> <ref\_count> <l2-oifs> <port\_set> ]
  - NEW: show forwarding distribution multicast outgoing-interface-list L2\_PRIME [ \_\_readonly\_\_ <index> <dvif> <platform\_index> <ref\_count> <l2-oifs> <port\_set> ]
  - OLD: show forwarding nve l2 ingress-replication-peers [ ipv4 <peer\_ip> | ipv6 <v6\_peer\_ip> ] + [ \_\_readonly\_\_ [ { TABLE\_VLAN <vlan\_id> <vni> <ifindex> <plt\_space> <peer> + } { TABLE\_PSS\_VLAN <vlan\_pss\_id> <VNI> <vtep> <peercnt> { <pss\_peer> <marked> } + } ] + [ [ <peer> <id> <repl\_id> <oif> <hash\_algo> <path\_intf> + <vcount> <vlan\_id> + [ <path> <hash> <flags> <nh> <intf> + ] ] [ <pss\_peer> <pss\_id> <pss\_repl\_id> <pss\_oif> <pss\_hash\_algo> <pss\_path\_intf> + <pss\_vcount> <vlan\_pss\_id> + [ <pss\_path> <pss\_hash> <pss\_flags> <pss\_nh> <pss\_intf> + ] ] ] ]
  - NEW: show forwarding nve l2 ingress-replication-peers [ ipv4 <peer\_ip> | ipv6 <v6\_peer\_ip> ] + [ \_\_readonly\_\_ [ { TABLE\_VLAN <vlan\_id> <vni> <ifindex> <plt\_space> <peer\_bmp> <peer> + } { TABLE\_PSS\_VLAN <vlan\_pss\_id> <VNI> <vtep> <peercnt> <pss\_peer\_bmp> { <pss\_peer> <marked> } + } ] + [ [ <peer> <id> <repl\_id> <oif> <hash\_algo> <path\_intf> + <vcount> <vlan\_id> + [ <path> <hash> <flags> <nh> <intf> + ] ] [ <pss\_peer> <pss\_id> <pss\_repl\_id> <pss\_oif> <pss\_hash\_algo> <pss\_path\_intf> + <pss\_vcount> <vlan\_pss\_id> + [ <pss\_path> <pss\_hash> <pss\_flags> <pss\_nh> <pss\_intf> + ] ] ] ]
  - OLD: show forwarding nve l3 adjacency tunnel [ <tunnel\_id> | all ] [ bd <bd\_id> | detail | module <module> | table <table\_id> ] [ \_\_readonly\_\_ TABLE\_nvel3adj <tunnel\_id> <bd\_id> <table\_id> <VNI> <Drop> <Refcount> <Origin> <State> <Del> [ <sw\_index> <hw\_index0> <hw\_index1> <hw\_index2> ] ]
  - NEW: show forwarding nve l3 adjacency tunnel [ <tunnel\_id> | all ] [ bd <bd\_id> | detail | module <module> | table <table\_id> ] [ \_\_readonly\_\_ TABLE\_nvel3adj <tunnel\_id> <bd\_id> <table\_id> <VNI> <DownStream> <Drop> <Refcount> <Origin> <State> <Del> [ <sw\_index> <hw\_index0> <hw\_index1> <hw\_index2> ] ]
  - OLD: show forwarding srv6 adjacency encap [ table <table\_id> ] [ module <num> ] [ \_\_readonly\_\_ { TABLE\_adj\_encap <loc\_bsid> <source\_ip> <function> <tableid> <is\_drop> } ]
  - NEW: show forwarding srv6 adjacency encap [ table <table\_id> ] [ module <num> ] [ \_\_readonly\_\_ { TABLE\_adj\_encap <loc\_bsid> <source\_ip> <function> <tableid> <is\_drop> <bsid> } ]
  - OLD: show fte event [ name ] [ { <eventname> } ] [ \_\_readonly\_\_ <event> <description> <use\_count> <latency\_threshold> <latency\_unit> <analytics\_changed\_flow\_count> <latency\_flow\_count> ]



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- NEW: show interface <ifeth\_ctr\_dtl\_all> counters detailed all [ snmp ] [ \_\_readonly\_\_ TABLE\_interface <interface> [ <rx\_total\_pkts> ][ <tx\_total\_pkts> ][ <rx\_ucast\_pkts> ][ <rx\_mccast\_pkts> ][ <rx\_bcast\_pkts> ][ <rx\_octets> ][ <tx\_ucast\_pkts> ][ <tx\_mccast\_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\_inrate1\_summary\_bits> ][ <eth\_inrate1\_summary\_pkts> ][ <eth\_outrate1\_summary\_bits> ][ <eth\_outrate1\_summary\_pkts> ][ <eth\_load\_interval2\_rx> ][ <eth\_inrate2\_bits> ][ <eth\_inrate2\_pkts> ][ <eth\_load\_interval2\_tx> ][ <eth\_outrate2\_bits> ][ <eth\_outrate2\_pkts> ][ <eth\_inrate2\_summary\_bits> ][ <eth\_inrate2\_summary\_pkts> ][ <eth\_outrate2\_summary\_bits> ][ <eth\_outrate2\_summary\_pkts> ][ <eth\_load\_interval3\_rx> ][ <eth\_inrate3\_bits> ][ <eth\_inrate3\_pkts> ][ <eth\_load\_interval3\_tx> ][ <eth\_outrate3\_bits> ][ <eth\_outrate3\_pkts> ][ <eth\_inrate3\_summary\_bits> ][ <eth\_inrate3\_summary\_pkts> ][ <eth\_outrate3\_summary\_bits> ][ <eth\_outrate3\_summary\_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> ]

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- OLD: 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\_inrate1\_summary\_bits> ] [ <eth\_inrate1\_summary\_pkts> ] [ <eth\_outrate1\_summary\_bits> ] [ <eth\_outrate1\_summary\_pkts> ] [ <eth\_load\_interval2\_rx> ] [ <eth\_inrate2\_bits> ] [ <eth\_inrate2\_pkts> ] [ <eth\_load\_interval2\_tx> ] [ <eth\_outrate2\_bits> ] [ <eth\_outrate2\_pkts> ] [ <eth\_inrate2\_summary\_bits> ] [ <eth\_inrate2\_summary\_pkts> ] [ <eth\_outrate2\_summary\_bits> ] [ <eth\_outrate2\_summary\_pkts> ] [ <eth\_load\_interval3\_rx> ] [ <eth\_inrate3\_bits> ] [ <eth\_inrate3\_pkts> ] [ <eth\_load\_interval3\_tx> ] [ <eth\_outrate3\_bits> ] [ <eth\_outrate3\_pkts> ] [ <eth\_inrate3\_summary\_bits> ] [ <eth\_inrate3\_summary\_pkts> ] [ <eth\_outrate3\_summary\_bits> ] [ <eth\_outrate3\_summary\_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> ] ]

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- NEW: 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> ] [ <encapsulation> ] [ <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\_swt\_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> ] [

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- OLD: show interface <ifrange> status [ err-disabled ] [ \_\_readonly\_\_ TABLE\_interface <interface> <name> <state> <state\_rsn> <state\_rsn\_desc> ]
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- ```

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<admin_trunk_mode> ][ <status> ][ <fcot_info> ][ <bind_info> ][ <bind_type> ][ <bind_mac> ][
<port_rate_mode> ][ <oper_speed> ][ <port_channel> ][ <ip_addr1> ][ { TABLE_secondary_vlan
<sec_vlan> <sec_vlan_type> } ][ <svi_admin_state> ][ <svi_rsn_desc> } ] ]

```
- NEW: 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>] [{ <tunnel-ipv4> | <tunnel-ipv6> }] [<encap-type>] [<mtu>] [<ratemode>] [<portchan>] [<proto>] [<interface_vfc>] [<vsan_brief>] [<admin_mode>] [<admin_trunk_mode>] [<status>] [<fcot_info>] [<bind_info>] [<bind_type>] [<bind_mac>] [<port_rate_mode>] [<oper_speed>] [<port_channel>] [<ip_addr1>] [{ brief_san_pc [<interface_san>] [<vsan_brief>] [<admin_trunk_mode>] [<status>] [<port_rate_mode>] [<oper_speed>] [<ip_addr>] }] [{ TABLE_secondary_vlan <sec_vlan> <sec_vlan_type> }] [<svi_admin_state>] [<svi_rsn_desc>] }]]
 - OLD: show interface detail-counters [__readonly__ [{ TABLE_counters <sfp> <in_frames> <in_bytes> <class_2_frames> <class_2_in_bytes> <class_2_in_discards> <class_2_in_f_bsy_frames> <class_2_in_f_rgt_frames> <class_2_in_port_reject_frames> <class_3_frames> <class_3_bytes_rcvd> <class_f_frames> <class_f_bytes_rcvd> <class_f_in_discards> <class_f_errors_rcvd> <class_f_out_discards> <class_f_errors_trans> <out_frames> <out_bytes> <class_2_out_frames> <class_2_bytes_trans> <class_3_out_frames> <class_3_bytes_trans> <class_3_out_discards> <class_f_out_frames> <class_f_bytes_trans> <class_f_discards> <muticast_rcvd> <multicast_trans> <broadcast_rcvd> <broadcast_trans> <unicast_rcvd> <unicast_trans> <timeout_discards> <credit_loss> <link_faliures> <sync_loss> <signal_loss> <prm_seq_pro_err> <inv_trans_err> <inv_crc> <delim_err> <addr_iden_err> <link_reset_rcvd> <link_reset_trans> <off_seq_err_rcvd> <off_seq_err_trans> <frames_rcvd_short> <frames_rcvd_long> <txwait> <frames_rcvd_greater> <frame_rcvd_short_header> <link_reset_resp_rcvd> <link_reset_resp_trans> <non_oper_seq_rcvd> <non_oper_seq_trans> <frag_frames_rcvd> <frames_eof_abort> <unknown_class_frames_rcvd> <8b10b_disparity_err> <frames_discard> <ex_link_param_sw_fab> [<in_link_ser_req_faliures>] <b2b_credits_transmit> <b2b_credits_receive> <eisl_frames> <framing_err> <f8_lip_seq_err_rcvd> <f8_lip_seq_err_issued> <non_f8_lip_seq_err_rcvd> <non_f8_lip_seq_err_issued> [<fec_corrected>] [<fec_uncorrected>] }] [{ TABLE_interface <interface> [<fcoe_in_pkts>] [<fcoe_in_octets>] [<fcoe_out_pkts>] [<fcoe_out_octets>] }]]
 - NEW: show interface detail-counters [__readonly__ [{ TABLE_counters <sfp> <in_frames> <in_bytes> <class_2_frames> <class_2_in_bytes> <class_2_in_discards> <class_2_in_f_bsy_frames> <class_2_in_f_rgt_frames> <class_2_in_port_reject_frames> <class_3_frames> <class_3_bytes_rcvd> <class_f_frames> <class_f_bytes_rcvd> <class_f_in_discards> <class_f_errors_rcvd> <class_f_out_discards> <class_f_errors_trans> <out_frames> <out_bytes> <class_2_out_frames> <class_2_bytes_trans> <class_3_out_frames> <class_3_bytes_trans> <class_3_out_discards> <class_f_out_frames> <class_f_bytes_trans> <class_f_discards> <muticast_rcvd> <multicast_trans> <broadcast_rcvd> <broadcast_trans> <unicast_rcvd> <unicast_trans> <timeout_discards> <credit_loss> <link_faliures> <sync_loss> <signal_loss> <prm_seq_pro_err> <inv_trans_err> <inv_crc> <delim_err> <addr_iden_err> <link_reset_rcvd> <link_reset_trans> <off_seq_err_rcvd> <off_seq_err_trans> <frames_rcvd_short> <frames_rcvd_long> [<txwait>] <frames_rcvd_greater> <frame_rcvd_short_header> <link_reset_resp_rcvd> <link_reset_resp_trans> <non_oper_seq_rcvd> <non_oper_seq_trans> <frag_frames_rcvd> <frames_eof_abort> <unknown_class_frames_rcvd> <8b10b_disparity_err> <frames_discard> <ex_link_param_sw_fab> [<in_link_ser_req_faliures>] <b2b_credits_transmit> [<b2b_credits_receive>] <eisl_frames> <framing_err> <f8_lip_seq_err_rcvd> <f8_lip_seq_err_issued> <non_f8_lip_seq_err_rcvd> <non_f8_lip_seq_err_issued> [<fec_corrected>] [<fec_uncorrected>] }] [{ TABLE_interface <interface> [<fcoe_in_pkts>] [<fcoe_in_octets>] [<fcoe_out_pkts>] [<fcoe_out_octets>] }]]

- OLD: show interface status [down | inactive | module <module> | up | auto-column] [__readonly__ TABLE_interface <interface> [<name>] [<state>] [<state_san>] [<state_rsn>] [<vlan>] [<duplex>] [<speed>] [<type>] [<admin_mode>] [<vsan>] [<bind_info>] [<bind_type>] [<bind_mac>] [<oper_speed>]]
- NEW: show interface status [down | inactive | module <module> | up | auto-column] [__readonly__ TABLE_interface <interface> [<name>] [<state>] [<state_san>] [<state_reason>] [<vlan>] [<duplex>] [<speed>] [<type>] [<admin_mode>] [<vsan>] [<bind_info>] [<bind_type>] [<bind_mac>] [<oper_speed>]]
- OLD: 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-thrld-incomplete>] [<cnt-unknown>] [<cnt-total>] [TABLE_adj <intf-out> <ip-addr-out> [<time-stamp>] { <mac> | <unknown> | <incomplete> } [<phy-intf>] [<flags>]]]]
- NEW: 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-thrld-incomplete>] [<cnt-unknown>] [<cnt-total>] [TABLE_adj <intf-out> <ip-addr-out> [<time-stamp>] { <mac> | <unknown> | <incomplete> } [<phy-intf>] [<flags>] [<adj-vrf-name>]]]
- OLD: show ip arp cache { { brief | detail } | { interface [<intf>] } } [operational]
- NEW: show ip arp cache { { brief | detail } | { interface [<intf>] } | { egress-vni } } [operational]
- OLD: 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>] [[<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>]]
- NEW: 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>] [[<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>]]
- OLD: show ip dhcp option82 suboption info interface [<intf>] [__readonly__ <intf_header> { TABLE_intf_option82 <intf_name> <option82_status> <suboption_string> <tx_count> }]
- NEW: show ip dhcp option82 suboption info interface [<intf>] [__readonly__ <intf_header> { TABLE_intf_option82 <intf_name> <option82_status> [<suboption_string>] [<tx_count>] }]
- OLD: 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_intfs_hdr> [TABLE_intf <smart_relay_enabled_intfs>] <subnet_bcast_intfs_hdr> [TABLE_intf <subnet_bcast_enabled_intfs>] <trusted_port_intfs_hdr> [TABLE_intf <trusted_port_enabled_intfs>] <relay_src_addr_hsrp_hdr> [TABLE_intf <src_addr_hsrp_enabled_intfs>] <relay_address_hdr> [TABLE_intf <intf> <relay_address> <vrf_name>]]

- NEW: 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_intfs_hdr> <server_id_override> [TABLE_intf <smart_relay_enabled_intfs>] <subnet_bcast_intfs_hdr> [TABLE_intf <subnet_bcast_enabled_intfs>] <trusted_port_intfs_hdr> [TABLE_intf <trusted_port_enabled_intfs>] <relay_src_addr_hsrp_hdr> [TABLE_intf <src_addr_hsrp_enabled_intfs>] <relay_address_hdr> [TABLE_intf <intf> <relay_address> <vrf_name>]]
- OLD: 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_offer> <offer_rx_pkts> <offer_tx_pkts> <offer_drops> <msg_type_str_request> <request_rx_pkts> <request_tx_pkts> <request_drops> <msg_type_str_ack> <ack_rx_pkts> <ack_tx_pkts> <ack_drops> <msg_type_str_release> <release_rx_pkts> <release_tx_pkts> <release_drops> <msg_type_str_decline> <decline_rx_pkts> <decline_tx_pkts> <decline_drops> <msg_type_str_inform> <inform_rx_pkts> <inform_tx_pkts> <inform_drops> <msg_type_str_nack> <nack_rx_pkts> <nack_tx_pkts> <nack_drops> <line> <msg_type_str_total> <total_rx_pkts> <total_tx_pkts> <total_drops> <line_x>] [<server_consolidated_hdr> [TABLE_server_info <server_helper_addr> <server_vrf> <server_total_request> <server_total_response>] <line_y>] [<l3_fwd_hdr> <l3_fwd_rx_pkts> <l3_fwd_tx_pkts> <l3_fwd_drops> <non_dhcp_hdr> <non_dhcp_rx_pkts> <non_dhcp_tx_pkts> <non_dhcp_drops> <drop_hdr> <drop_validation_fail> <drop_relay_disable> <drop_invalid_msg_type> <drop_intf_err> <drop_tx_sock_err> <drop_tx_fail_client_intf> <drop_unknown_op_intf> <drop_l3_unknown_op_intf> <drop_max_hops> <drop_opt82_insert_fail> <drop_malformed> <drop_mct_drop> <drop_untrusted_relay_intf>] [<server_discover> <server_request> <server_decline> <server_release> <server_inform> <server_ack> <server_nack> <server_offer> <server_resp_hdr> <drop_unknown> <server_req_hdr>] <footer>]
- NEW: show ip dhcp relay statistics [interface <intf> | { interface <intf> serverip <ip-addr-val> [use-vrf <vrf-name>] }] [`__readonly__` [<msg_stats_hdr> <msg_type_str> <rx_pkts> <tx_pkts> <drops> <msg_type_str_offer> <offer_rx_pkts> <offer_tx_pkts> <offer_drops> <msg_type_str_request> <request_rx_pkts> <request_tx_pkts> <request_drops> <msg_type_str_ack> <ack_rx_pkts> <ack_tx_pkts> <ack_drops> <msg_type_str_release> <release_rx_pkts> <release_tx_pkts> <release_drops> <msg_type_str_decline> <decline_rx_pkts> <decline_tx_pkts> <decline_drops> <msg_type_str_inform> <inform_rx_pkts> <inform_tx_pkts> <inform_drops> <msg_type_str_nack> <nack_rx_pkts> <nack_tx_pkts> <nack_drops> <line> <msg_type_str_total> <total_rx_pkts> <total_tx_pkts> <total_drops> <line_x>] [<server_consolidated_hdr> [TABLE_server_info <server_helper_addr> <server_vrf> <server_total_request> <server_total_response>] <line_y>] [<l3_fwd_hdr> <l3_fwd_rx_pkts> <l3_fwd_tx_pkts> <l3_fwd_drops> <non_dhcp_hdr> <non_dhcp_rx_pkts> <non_dhcp_tx_pkts> <non_dhcp_drops> <drop_hdr> <drop_validation_fail> <drop_relay_disable> <drop_invalid_msg_type> <drop_intf_err> <drop_tx_sock_err> <drop_tx_fail_client_intf> <drop_unknown_op_intf> <drop_l3_unknown_op_intf> <drop_max_hops> <drop_opt82_insert_fail> <drop_malformed> <drop_mct_drop> <drop_untrusted_relay_intf>] [<server_discover> <server_request> <server_decline> <server_release> <server_inform> <server_ack> <server_nack> <server_offer> <server_resp_hdr> <drop_unknown> <server_req_hdr>] <footer>]
- OLD: 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> }]]
- NEW: 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> } ] ]
```

- OLD: 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>] [<rl>] [<rc>] [<il>] [<join-group-map>] [<static-group-map>] [<host-proxy>] [<host-proxy-group-map>] [<un-solicited>] [<unsoint>] [<v1rr>] [<v2qs>] [<v2qr>] [<v2rs>] [<v2rr>] [<v2ls>] [<v2lr>] [<v3qs>] [<v3qr>] [<v3rs>] [<v3rr>] [<v2gqdest>] [<v3gqdest>] [<cse>] [<ple>] [<lsip>] [<scf>] [<qnq>] [<rvm>] [<qvm>] [<uit>] [<v1gdam>] [<v2gdam>] [<v3dai>] [<ra>]]]]
- NEW: show ip igmp interface [<interface>] [brief] [detail] [vrf { <vrf-name> | <vrf-known-name> | all }] [serialize] [__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>] [<rl>] [<rc>] [<il>] [<join-group-map>] [<static-group-map>] [<host-proxy>] [<host-proxy-group-map>] [<un-solicited>] [<unsoint>] [<v1rr>] [<v2qs>] [<v2qr>] [<v2rs>] [<v2rr>] [<v2ls>] [<v2lr>] [<v3qs>] [<v3qr>] [<v3rs>] [<v3rr>] [<v2gqdest>] [<v3gqdest>] [<cse>] [<ple>] [<lsip>] [<scf>] [<qnq>] [<rvm>] [<qvm>] [<uit>] [<v1gdam>] [<v2gdam>] [<v3dai>] [<ra>]]]]
- OLD: 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>]]]
- NEW: show ip igmp snooping [otv | remote] groups [{ <source> [<group>] } | { <group> [<source>] }] [vlan <vlan> | bridge-domain <bdid>] [detail] [summary] [serialize] [__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>]]]
- OLD: 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>] [TABLE_active_ports [<actvports>]] [<lkupmode>] [<omf_enabled>] [<reportfloodenable>] [<reportfloodall>] [TABLE_intf <if-name>] [<leavegroupaddress>] }] }
- NEW: show ip igmp snooping [{ vlan <vlan> | bridge-domain <bdid> }] [serialize] [__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>] [TABLE_active_ports [<actvports>]] [<lkupmode>] [<omf_enabled>] [<reportfloodenable>] [<reportfloodall>] [TABLE_intf <if-name>] [<leavegroupaddress>] }] }
 - OLD: show ip igmp snooping explicit-tracking [vlan <vlan> | bridge-domain <bdid>] [detail] [__readonly__ [TABLE_vlan [<vlan-id>] [TABLE_gaddr [<grp-addr>] [TABLE_if [<if-name>] [TABLE_haddr [<host-addr>] [TABLE_srcaddr [<src-addr>] [<uptime>] [<last-join>] [<expires>] [<cfs-flag>] [<native-flag>] [<delete-pending>] [<cfs-update-pending>]]]]]] }
 - NEW: show ip igmp snooping explicit-tracking [vlan <vlan> | bridge-domain <bdid>] [detail] [__readonly__ [TABLE_vlan [<vlan-id>] [TABLE_gaddr [<grp-addr>] [TABLE_if [<if-name>] [TABLE_haddr [<host-addr>] [TABLE_srcaddr [<src-addr>] [<uptime>] [<last-join>] [<expires>] [<version>] [<num_of_reports>] [<cfs-flag>] [<native-flag>] [<delete-pending>] [<cfs-update-pending>]]]]]] }
 - OLD: 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>] }
 - NEW: show ip igmp snooping mrouter [otv] [vlan <vlan> | bridge-domain <bdid>] [detail] [serialize] [__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>] }
 - OLD: show ip igmp snooping statistics [global | vlan <vlan> | bridge-domain <bdid>] [__readonly__ [<pr>] [<inv_pkt>] [<pnv>] [<loopbkpkt>] [<mrdloopbk>] [<pf>] [<vpcdrqs>] [<vpcdrqr>] [<vpcdrqf>] [<vpcdrus>] [<vpcdrur>] [<vpcdruf>] [<vpccfssf>] [<vpccfsrs>] [<vpccfsrr>] [<vpccfsrf>] [<vpccfsrfp>] [<vpccfsurls>] [<vpccfsurlr>] [<vpccfsurlf>] [<vpccfsrls>] [<vpccfsrlr>] [<vpccfsrlf>] [<inv_iod>] [<stptcnr>] [<imapif>] [<mfreqr>] [<mfcmps>] [<mfdbgcmps>] [<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>] }]] }
 - NEW: show ip igmp snooping statistics [global | vlan <vlan> | bridge-domain <bdid>] [serialize] [__readonly__ [<pr>] [<inv_pkt>] [<inv_pkt_bd>] [<inv_pkt_no_fd_vxlan>] [<pnv>] [<loopbkpkt>] [<mrdloopbk>] [<pf>] [<vpcdrqs>] [<vpcdrqr>] [<vpcdrqf>] [<vpcdrus>] [<vpcdrur>] [<vpcdruf>] [<vpccfssf>] [<vpccfsrs>] [<vpccfsrr>] [<vpccfsrf>] [<vpccfsrfp>] [<vpccfsurls>] [<vpccfsurlr>] [<vpccfsurlf>] [<vpccfsrls>] [<vpccfsrlr>] [<vpccfsrlf>] [<stptcnr>] [<imapif>] [<mfreqr>] [<mfcmps>] [<inv_iod>] [<mfdbgcmps>] [<bufsnt>] [<bufackr>] [<vpcmismatch>] [{ TABLE_vlan [<vlan-id>] [<ut>] [<vpr>] [<v1rr>] [<v2rr>] [<v3rr>] [<v1qr>] [<v2qr>] [<v3qr>] [<v2lr>] [<phr>] [<irr>] [<iqr>] [<v1rs>] [<v2rs>] [<v2ls>] [<v2lsv1>] [<v3gs>] [<qo>] [<v2ro>] [<v2lo>] [<v3ro>] [<vpsr>] [<str>] [<vmr>] [<upr>] [<cps>] [<cpr>] [<cpe>] [<repflooded>] [<repfwded>] }]] }

<cpe>][<mps>][<mpr>][<mpe>][<repflooded>][<repfwded>][<agd>][<egd>][<lvd>][<qd>][<pmd> }]]]

- OLD: show ip igmp snooping { report-policy | access-group } statistics [vlan <vlan>][__readonly__ [TABLE_vlanid { <vlan-id> <rpm-type> <policy-name> }]]
- NEW: show ip igmp snooping { report-policy | access-group } statistics [vlan <vlan>][__readonly__ [TABLE_vlanid { <vlan-id> <rpm-type> <policy-name> }] [TABLE_filtervlanid { <filter-vlan-id> <filter-policy-name> }]]
- OLD: 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>]]]]
- NEW: show ip igmp { groups | route } [<source> [<group>] | <group> [<source>]] [<interface>] [summary] [vrf { <vrf-name> | <vrf-known-name> | all }] [summary-old] [serialize] [__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>]]]]
- OLD: show ip load-sharing [__readonly__ { <univer-id-ran-seed> [<l3-msg-load>] [<l34-msg-load>] [<dest-addr-load>] [<src-dst-ip-gre>] [<bad-load>] [<gre-outer-hash>] [<concatenation>] [<rotate>] [<src-dst-ip-gtpu>] [<src-dst-ip-ipv6-flowlabel>] [<src-dst-ip-ttl>] [{ <src-dst-ip-udf> [<offset>] }]]]]
- NEW: show ip load-sharing [__readonly__ { <univer-id-ran-seed> [<l3-msg-load>] [<l34-msg-load>] [<dest-addr-load>] [<src-dst-ip-gre>] [<bad-load>] [<gre-outer-hash>] [<concatenation>] [<rotate>] [<src-dst-ip-gtpu>] [<src-dst-ip-ipv6-flowlabel>] [<src-dst-ip-ttl>] [{ <src-dst-ip-udf> [<offset>] }]] [<src-dst-ip-inner-all-infra>] [<src-dst-ip-inner-all>]]]]
- OLD: show ip mroute [[[bitfield] [detail]]] sr | rp [[summary [count | software-forwarded | rpf-failed]]] { [[<source> <group>] | [<group> [<source>]] | [<gprefix> exact]] [shared-tree | source-tree | mofrr] [[flags] | [detail] | [bitfield] | [summary [software-forwarded | rpf-failed]]]] } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf-name> [<expyr_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> [<source_addrs> <group_addrs>] [<pending>] [<bidir>] [<uptime>] [<mofrr>] [TABLE_mpib [<mpib-name>] [<oif-count>] [<stale-route>]] [<mdt-encap>] [<mdt-decap>] [<mdt-last-hop>] [<mdt-encap-index>] [<stats-pkts>] [<stats-bytes>] [<stats-rate-buf>] [<lisp-src-rloc>] [<translated-route-src>] [<translated-route-grp>] [<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>] [<core-interest>] [<fabric-interest>]] [<rpf>]] [<route-mdt-iod>] [<oif-list-bitfield>] [TABLE_extranet [<extranet_vrf_name>] [<extranet_addr>] [<extranet_oif_count>]]]]]]]


```
] <spf_runs> <last_spf_run_time> [ TABLE_range <addr> <masklen> <state> <nets> <advertise> [
<cost> ] ] [ <filter_in> ] [ <filter_out> ] <lsa_cnt> <lsa_crc> } ] ]
```

- NEW: show ip ospf [<tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <ptag> <instance_number> <cname> <rid> [<domain_id_type>] [<domain_id_value>] [<domain_tag>] [<dn_bit_ignore>] <stateful_ha> <gr_ha> [<gr_planned_only>] [<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>] [{ 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> [<name_lookup>] <no_discard_rt_ext> <no_discard_rt_int> [<passive_dflt>] [<bfd_enabled>] [<segrt_configured>] [<segrt_enabled>] [{ <srgb_min_label> <srgb_max_label> }] [<num_new_lsa_tx>] [<num_new_lsa_rx>] [{ 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> [{ <area_segrt_configured> | <area_segrt_disabled_by_config> }] [<area_segrt_enabled>] <spf_runs> <last_spf_run_time> [TABLE_range <addr> <masklen> <state> <nets> <advertise> [<cost>]] [<filter_in>] [<filter_out>] <lsa_cnt> <lsa_crc> }]]]
- OLD: 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>] [<dc_enabled>] [<sid_index>] [<sid_n_flag_clear>] [<sid_exp_null>] <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>] [<lsu_timer>] [<lsack_timer>] [<auth_type>] [<keychain_name>] [<keychain_ready>] [<auth_md5_keyid>] [<auth_keyid>] [<auth_algo>] [<link_lsa_cnt>] [<link_lsa_crc>] [<multi_area_cnt>] [<multi_area_adj>]]]]
- NEW: 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>] [<dc_enabled>] [<sid_index>] [<sid_n_flag_clear>] [<sid_exp_null>] <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>] [<lsu_timer>] [<lsack_timer>] [<auth_type>] [<keychain_name>] [<keychain_ready>] [<auth_md5_keyid>] [<auth_keyid>] [<auth_algo>] [<link_lsa_cnt>] [<link_lsa_crc>] [<multi_area_cnt>] [<multi_area_adj>] [<state_chg_cnt>]]]]
- OLD: 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>

- ```

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][<jp-rcvd-for-bidir>][<jp-in-policy-filter>][<jp-out-policy-filter>][<ecmp-redirect-sent>][
<ecmp-redirect-rcv>]]]]

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- NEW: show ip pim interface [ <interface> ] [ brief ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [ serialize ] [ \_\_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> ] [ <ecmp-redirect-sent> ] [ <ecmp-redirect-rcv> ] [ <is-border-router> ] ] ] ]
  - OLD: 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> ] } ]
  - NEW: 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> <data\_grp\_mode> <threshold> [ <policy\_name> ] } ] ]
  - OLD: 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> ] [ <ecmp-redirect-capable> ] ] ] ]

- NEW: show ip pim neighbor { [ <interface> ] [ <ipaddr> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ detail | internal ] [ serialize ] [ \_\_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> ] [ <ecmp-redirect-capable> ] ] ] ]
- OLD: show ip pim route [ [ <source> [ <group> ] ] ] [ <group> [ <source> ] ] [ bitfield ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ \_\_readonly\_\_ [ TABLE\_vrf [ <context-name> ] [ <route-count> ] [ TABLE\_one\_route [ <mcast-addrs> ] [ <rp-addr> ] [ <rp-local> ] [ <bidir> ] [ <sgexpire> ] [ <sgexpire> ] [ <timeleft> ] [ <rp-bit> ] [ <register> ] [ <intf-name> ] [ <rpf-nbr-1> ] [ <rpf-nbr-addr> ] [ <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> ] ] ] ]
- NEW: show ip pim route [ [ <source> [ <group> ] ] ] [ <group> [ <source> ] ] [ bitfield ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ serialize ] [ \_\_readonly\_\_ [ TABLE\_vrf [ <context-name> ] [ <route-count> ] [ TABLE\_one\_route [ <mcast-addrs> ] [ <rp-addr> ] [ <rp-local> ] [ <bidir> ] [ <sgexpire> ] [ <sgexpire> ] [ <timeleft> ] [ <rp-bit> ] [ <register> ] [ <intf-name> ] [ <rpf-nbr-1> ] [ <rpf-nbr-addr> ] [ <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> ] ] ] ]
- OLD: show ip pim rp [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [ \_\_readonly\_\_ [ TABLE\_vrf <out-context> [ <is-bsr-enabled> ] [ <is-bsr-listen-only> ] [ <is-bsr-forward-only> ] [ <bsr-address> ] [ <is-bsr-local> ] [ <bs-timer> ] [ <bsr-uptime> ] [ <bsr-expires> ] [ <bsr-priority> ] [ <bsr-hash-masklen> ] [ <is-autorp-enabled> ] [ <is-autorp-listen-only> ] [ <is-autorp-forward-only> ] [ <auto-rp-addr> ] [ <is-autorp-local> ] [ <autorp-dis-timer> ] [ <autorp-cand-address> ] [ <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-local> ] [ <df-ordinal> ] [ <rp-uptime> ] [ <rp-priority> ] [ <is\_autorp\_source> ] [ <is\_bsr\_source> ] [ <is\_static\_source> ] [ <rp-source> ] [ <static-rp-group-map> ] [ TABLE\_grange [ <grange-grp> ] [ <grange-masklen> ] [ <grange-is-deny> ] [ <is-bidir-grp> ] [ <autorp-expires> ] [ <bsr-rp-expires> ] [ <rp-owner-flags> ] ] [ <bidir-ordinal> ] [ <df-bits-recovered> ] [ <rpf-nbr-address> ] [ <metric> ] [ <metric-preference> ] ] ] ] ]
- NEW: show ip pim rp [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [ serialize ] [ \_\_readonly\_\_ [ TABLE\_vrf <out-context> [ <is-bsr-enabled> ] [ <is-bsr-listen-only> ] [ <is-bsr-forward-only> ] [ <bsr-address> ] [ <is-bsr-local> ] [ <bsr-is-local> ] [ <bs-timer> ] [ <bsr-uptime> ] [ <bsr-expires> ] [ <bsr-priority> ] [ <bsr-hash-masklen> ] [ <is-autorp-enabled> ] [ <is-autorp-listen-only> ] [ <is-autorp-forward-only> ] [ <auto-rp-addr> ] [ <is-autorp-local> ] [ <autorp-dis-timer> ] [ <autorp-cand-address> ] [ <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-local> ] [ <df-ordinal> ] [ <rp-uptime> ] [ <rp-priority> ] [ <is\_autorp\_source> ] [ <is\_bsr\_source> ] [ <is\_static\_source> ] [ <rp-source> ] [ <static-rp-group-map> ] [ TABLE\_grange [ <grange-grp> ] [ <grange-masklen> ] [ <grange-is-deny> ] [ <is-bidir-grp> ] [ <autorp-expires> ] [ <bsr-rp-expires> ] [ <rp-owner-flags> ] ] [ <bidir-ordinal> ] [ <df-bits-recovered> ] [ <rpf-nbr-address> ] [ <metric> ] [ <metric-preference> ] ] ] ] ]

- OLD: 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> ] ]
- NEW: show ip pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ serialize ] [ \_\_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> ] ]
- OLD: show ip pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail | internal ] [ \_\_readonly\_\_ { TABLE\_context <out-context> <context-id> <count> <table-id> <bfd> <mvpn> } ]
- NEW: show ip pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail | internal ] [ \_\_readonly\_\_ { TABLE\_context <out-context> <context-id> <count> <table-id> <bfd> <mvpn> [ <strict\_rfc\_compliant> ] } ]
- OLD: show ip route [ ip | ipv4 ] [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ip-addr> | { <ip-prefix> [ { longer-prefixes | shorter-prefixes } ] } ] [ { <protocol> [ all ] } | { bind-label <bind-lbl> | next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary [ cached ] | detail | summary-counter-consistency-check ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ \_\_readonly\_\_ TABLE\_vrf <vrf-name-out> TABLE\_addrf <addrf> [ TABLE\_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE\_path [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ] [ <hidden> ] [ <stale-label> ] [ <bgpbackuppath> ] [ <type2> ] [ <ubest> ] [ <mbest> ] [ <remote-sid> ] [ <src-ip> ] [ <sid-ct> ] ] [ TABLE\_summary <routes> <paths> [ <multicast\_paths> ] [ TABLE\_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_route\_count [ <mask\_len> ] [ <count> ] ] ] ]
- NEW: show ip route [ ip | ipv4 ] [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ip-addr> | { <ip-prefix> [ { longer-prefixes | shorter-prefixes } ] } ] [ { <protocol> [ all ] } | { bind-label <bind-lbl> | next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary [ cached ] | detail | summary-counter-consistency-check ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ \_\_readonly\_\_ TABLE\_vrf <vrf-name-out> TABLE\_addrf <addrf> [ TABLE\_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE\_path [ <ipnexthop> ] [ <ipvnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ] [ <hidden> ] [ <stale-label> ] [ <bgpbackuppath> ] [ <type2> ] [ <remote-sid> ] [ <src-ip> ] [ <sid-ct> ] [ <bsid> ] [ <ubest> ] [ <mbest> ] ] [ TABLE\_summary <routes> <paths> [ <multicast\_paths> ] [ TABLE\_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_route\_count [ <mask\_len> ] [ <count> ] ] ] ]

- OLD: show ip sla configuration [ <entry-num> ] [ \_\_readonly\_\_ { TABLE\_configuration [ <index> ] [ <owner> ] [ <tag> ] [ <timeout> ] [ <oper-type> ] [ <dest-ip> ] [ <source-int> ] [ <source-ip> ] [ <dest-port> ] [ <source-port> ] [ <dns-source-port> ] [ <traffic-class> ] [ <tos> ] [ <dns-name-server> ] [ <flow-label> ] [ <switch-id> ] [ <profile-id> ] [ <interface> ] [ <packet-size> ] [ <packet-interval> ] [ <num-packets> ] [ <codec-type> ] [ <codec-num-packets> ] [ <codec-packet-size> ] [ <codec-packet-interval> ] [ <codec-adv-factor> ] [ <verify-data> ] [ <data-pattern> ] [ <precision> ] [ <packet-priority> ] [ <ntp-sync-tolerance> ] [ <ntp-sync-toltype> ] [ <vrf-name> ] [ <control-enabled> ] [ <http-oper> ] [ <http-version> ] [ <url> ] [ <proxy> ] [ <raw-strings> ] [ <cache-control> ] [ <http-vrf-name> ] [ <http-owner> ] [ <http-tag> ] [ <http-timeout> ] [ <frequency> ] [ <secondary-freq-timeout> ] [ <secondary-freq-loss> ] [ <next-start-time> ] [ <group-scheduled> ] [ <randomly-scheduled> ] [ <low-frequency> ] [ <high-frequency> ] [ <life> ] [ <ageout> ] [ <recurring> ] [ <status-of-entry> ] [ <threshold> ] [ <hours> ] [ <buckets> ] [ <interval> ] [ <einterval> ] [ <ebuckets> ] [ <lives> ] [ <hsbuckets> ] [ <filter> ] } } ]
- NEW: show ip sla configuration [ <entry-num> ] [ \_\_readonly\_\_ { TABLE\_configuration [ <index> ] [ <owner> ] [ <tag> ] [ <timeout> ] [ <oper-type> ] [ <dest-ip> ] [ <source-int> ] [ <source-ip> ] [ <dest-port> ] [ <source-port> ] [ <dns-source-port> ] [ <traffic-class> ] [ <tos> ] [ <dns-name-server> ] [ <flow-label> ] [ <switch-id> ] [ <profile-id> ] [ <interface> ] [ <packet-size> ] [ <packet-interval> ] [ <num-packets> ] [ <codec-type> ] [ <codec-num-packets> ] [ <codec-packet-size> ] [ <codec-packet-interval> ] [ <codec-adv-factor> ] [ <verify-data> ] [ <data-pattern> ] [ <precision> ] [ <packet-priority> ] [ <ntp-sync-tolerance> ] [ <ntp-sync-toltype> ] [ <vrf-name> ] [ <control-enabled> ] [ <http-oper> ] [ <http-version> ] [ <url> ] [ <proxy> ] [ <raw-strings> ] [ <cache-control> ] [ <http-vrf-name> ] [ <http-owner> ] [ <http-tag> ] [ <http-timeout> ] [ <frequency> ] [ <frequency-in-ms> ] [ <secondary-freq-timeout> ] [ <secondary-freq-loss> ] [ <next-start-time> ] [ <group-scheduled> ] [ <randomly-scheduled> ] [ <low-frequency> ] [ <high-frequency> ] [ <life> ] [ <ageout> ] [ <recurring> ] [ <status-of-entry> ] [ <threshold> ] [ <hours> ] [ <buckets> ] [ <interval> ] [ <einterval> ] [ <ebuckets> ] [ <lives> ] [ <hsbuckets> ] [ <filter> ] } } ]
- OLD: show ip verify source [ interface <intf6> ] [ \_\_readonly\_\_ <verify\_ipsg\_exclude\_vlans> [ <verify\_hdr> ] [ <verify\_intf\_ipsg\_val> | <verify\_ipsg\_enable\_intfs> ] [ { TABLE\_verify\_entry <verify\_intf> <verify\_intf\_ipsg\_val> [ { TABLE\_verify\_entry\_intfs <verify\_ipsg\_enable\_intfs> } ] <verify\_filter\_mode> <verify\_ip\_addr> <verify\_mac\_addr> <verify\_vlan> } ] ]
- NEW: show ip verify source [ interface <intf6> ] [ \_\_readonly\_\_ [ <verify\_ipsg\_exclude\_vlans> ] [ <verify\_intf\_ipsg\_val> | <verify\_ipsg\_enable\_intfs> ] [ TABLE\_verified\_intfs <verified\_ipsg\_enable\_intfs> ] [ <verify\_hdr> ] [ { TABLE\_verify\_entry <verify\_intf> <verify\_intf\_ipsg\_val> ] [ { TABLE\_verify\_entry\_intfs <verify\_ipsg\_enable\_intfs> } ] <verify\_filter\_mode> [ <verify\_ip\_addr> ] [ <verify\_mac\_addr> ] [ <verify\_vlan> ] } ] ]
- OLD: show ipt details [ \_\_readonly\_\_ <probe\_marker> <source\_monitor> <sink\_monitor> ]
- NEW: show ipt details [ \_\_readonly\_\_ <probe\_marker> [ { TABLE\_source\_monitor <source\_monitor> [ <source\_monitor\_properties> } ] ] [ { TABLE\_sink\_monitor <sink\_monitor> [ <sink\_monitor\_properties> } ] ] [ { TABLE\_source\_record <source\_record> [ <source\_record\_properties> + ] } ] [ { TABLE\_sink\_record <sink\_record> [ <sink\_record\_properties> + ] } ] [ { TABLE\_sink\_collector <sink\_collector> [ <collector\_properties> + ] } ] ] ]
- OLD: show ipv6 dhcp relay [ interface <intf-range> ] [ \_\_readonly\_\_ [ <relay\_service\_enable> [ <gbl\_src\_intf> ] <relay\_vpn\_enable> <relay\_cisco\_option\_enable> ] [ TABLE\_intf <interface-name> [ <intf\_src\_intf> ] <intf\_header> [ TABLE\_addr <relay\_address> <dst\_intf> <vrf\_name> ] ] ]
- NEW: show ipv6 dhcp relay [ interface <intf-range> ] [ \_\_readonly\_\_ [ <relay\_service\_enable> [ <gbl\_src\_intf> ] <relay\_vpn\_enable> <relay\_option79\_state> <relay\_cisco\_option\_enable> ] [

```
TABLE_intf <interface-name> [<intf_src_intf>] <intf_header> [TABLE_addr <relay_address>
<dst_intf> <vrf_name>]]]
```

- OLD: show ipv6 interface { [ brief [ include-secondary ] | [ <interface> | <ipv6-addr> ] [ detail ] ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ \_\_readonly\_\_ [ TABLE\_intf <vrf-name-out> <intf-name> [ <proto-state> ] [ <link-state> ] [ <admin-state> ] [ <iod> ] [ TABLE\_addr <addr> ] [ <prefix> ] [ { TABLE\_sec\_addr [ <sec-prefix> ] } ] [ <linklocal-addr> ] [ <linklocal-configured> ] [ { TABLE\_vaddr [ <v-addr> ] } ] [ <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-lstype> ] [ <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-dfdrop> ] [ <hw-mbyte-dfdrop> ] [ <unspecified-src> ] [ <total-pkt-recv-tent-addr> ] [ <total-pkts-recv-invalid-addr-state> ] [ <total-pkt-recv-dup-state> ] [ <anycast-pkt-arrived-tcp> ] [ <deliver-intf-down> ] ] ] ]
- NEW: show ipv6 interface { [ brief [ include-secondary ] | [ <interface> | <ipv6-addr> ] [ detail ] ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ \_\_readonly\_\_ [ TABLE\_intf <vrf-name-out> <intf-name> [ <iod> ] [ <proto-state> ] [ <link-state> ] [ <admin-state> ] [ TABLE\_addr <addr> ] [ <prefix> ] [ { TABLE\_sec\_addr [ <sec-prefix> ] } ] [ <linklocal-addr> ] [ <linklocal-configured> ] [ { TABLE\_vaddr [ <v-addr> ] } ] [ <ipv6-disabled> ] [ <mrouting-enabled> ] [ <report-linklocal-enabled> ] [ <forwarding-enabled> ] [ <mgroup-locally-joined> ] [ { TABLE\_maddr <m-addr> [ <m-addr-refcnt> ] } ] [ <mcast-sgentries-joined> ] [ { 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-lstype> ] [ <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-dfdrop> ] [ <hw-mbyte-dfdrop> ] [ <unspecified-src> ] [ <total-pkt-recv-tent-addr> ] [ <total-pkts-recv-invalid-addr-state> ] [ <total-pkt-recv-dup-state> ] [ <anycast-pkt-arrived-tcp> ] [ <deliver-intf-down> ] [ <nd-frag-drop> ] ] ] ]
- OLD: show ipv6 mld snooping [ { vlan <vlan> | bridge-domain <bdid> } ] [ \_\_readonly\_\_ [ <vdc> ] [ <enabled> ] [ <omf> ] [ <grepsup> ] [ <gv3repsup> ] [ <glinklocalgrpsup> ] { TABLE\_vlan <vlan-id> [ <description> ] [ <snoop-on> ] [ <qa> ] [ <qv> ] [ <qj> ] [ <qlmqi> ] [ <rv> ] [ <sq> ] [ <sqr> ] [ <eht> ] [ <fl> ] [ <repsup> ] [ <v3repsup> ] [ <vlinklocalgrpsup> ] [ <rpc> ] [ <gc> ] [ TABLE\_active\_ports

[ <actvports> ] [ <lkupmode> ] [ <omf\_enabled> ] [ <reportfloodenable> ] [ <reportfloodall> ] [ TABLE\_intf <if-name> ] [ <leavegroupaddress> ] } }

- NEW: show ipv6 mld snooping [ { vlan <vlan> | bridge-domain <bdid> } ] [ \_\_readonly\_\_ [ <vdc> ] [ <enabled> ] [ <omf> ] [ <grepsup> ] [ <gv2repsup> ] [ <glinklocalgrpsup> ] { TABLE\_vlan <vlan-id> [ <description> ] [ <snoop-on> ] [ <qa> ] [ <qv> ] [ <qi> ] [ <qlmqi> ] [ <rv> ] [ <sq> ] [ <sqr> ] [ <eht> ] [ <fl> ] [ <repsup> ] [ <v2repsup> ] [ <vlinklocalgrpsup> ] [ <rpc> ] [ <gc> ] [ TABLE\_active\_ports [ <actvports> ] ] [ <lkupmode> ] [ <omf\_enabled> ] [ <reportfloodenable> ] [ <reportfloodall> ] [ TABLE\_intf <if-name> ] [ <leavegroupaddress> ] } } ]
- OLD: show ipv6 mld snooping explicit-tracking [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ \_\_readonly\_\_ [ TABLE\_vlan [ <vlan-id> ] [ TABLE\_gaddr [ <grp-addr> ] [ TABLE\_if [ <if-name> ] [ TABLE\_haddr [ <host-addr> ] [ TABLE\_srcaddr [ <src-addr> ] [ <uptime> ] [ <last-join> ] [ <expires> ] [ <cfs-flag> ] [ <native-flag> ] [ <delete-pending> ] [ <cfs-update-pending> ] ] ] ] ] ]
- NEW: show ipv6 mld snooping explicit-tracking [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ \_\_readonly\_\_ [ TABLE\_vlan [ <vlan-id> ] [ TABLE\_gaddr [ <grp-addr> ] [ TABLE\_if [ <if-name> ] [ TABLE\_haddr [ <host-addr> ] [ TABLE\_srcaddr [ <src-addr> ] [ <uptime> ] [ <last-join> ] [ <expires> ] [ <version> ] [ <num\_of\_reports> ] [ <cfs-flag> ] [ <native-flag> ] [ <delete-pending> ] [ <cfs-update-pending> ] ] ] ] ] ] ]
- OLD: show ipv6 mld snooping statistics [ global | vlan <vlan> | bridge-domain <bdid> ] [ \_\_readonly\_\_ [ <pr> ] [ <inv\_pkt> ] [ <pnv> ] [ <loopbkpkt> ] [ <mrloopbk> ] [ <pf> ] [ <vpcdrqs> ] [ <vpcdrqr> ] [ <vpcdrqf> ] [ <vpcdrus> ] [ <vpcdrur> ] [ <vpcdruf> ] [ <vpcdfsf> ] [ <vpcdfsrs> ] [ <vpcdfsrr> ] [ <vpcdfsrf> ] [ <vpcdfsrfp> ] [ <vpcdfsurls> ] [ <vpcdfsurlr> ] [ <vpcdfsurlf> ] [ <vpcdfsrls> ] [ <vpcdfsrlr> ] [ <vpcdfsrlf> ] [ <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> ] } ] ] ]
- NEW: show ipv6 mld snooping statistics [ global | vlan <vlan> | bridge-domain <bdid> ] [ \_\_readonly\_\_ [ <pr> ] [ <inv\_pkt> ] [ <inv\_pkt\_bd> ] [ <inv\_pkt\_no\_fd\_vxlan> ] [ <pnv> ] [ <loopbkpkt> ] [ <mrloopbk> ] [ <pf> ] [ <vpcdrqs> ] [ <vpcdrqr> ] [ <vpcdrqf> ] [ <vpcdrus> ] [ <vpcdrur> ] [ <vpcdruf> ] [ <vpcdfsf> ] [ <vpcdfsrs> ] [ <vpcdfsrr> ] [ <vpcdfsrf> ] [ <vpcdfsrfp> ] [ <vpcdfsurls> ] [ <vpcdfsurlr> ] [ <vpcdfsurlf> ] [ <vpcdfsrls> ] [ <vpcdfsrlr> ] [ <vpcdfsrlf> ] [ <stptcnr> ] [ <imapif> ] [ <mfreqr> ] [ <mfcmps> ] [ <inv\_iod> ] [ <mfdgcmps> ] [ <bufsnt> ] [ <bufackr> ] [ <vpcmismatch> ] [ { TABLE\_vlan [ <vlan-id> ] [ <ut> ] [ <vpr> ] [ <v1rr> ] [ <v2rr> ] [ <v1qr> ] [ <v2qr> ] [ <v2lr> ] [ <phr> ] [ <irr> ] [ <iqr> ] [ <v1rs> ] [ <v2rs> ] [ <v2ls> ] [ <v2lsv1> ] [ <v3gs> ] [ <qo> ] [ <v2ro> ] [ <v2lo> ] [ <v3ro> ] [ <vpsr> ] [ <str> ] [ <vmr> ] [ <upr> ] [ <cps> ] [ <cpr> ] [ <cpe> ] [ <mps> ] [ <mpr> ] [ <mpe> ] [ <repflooded> ] [ <repfwded> ] [ <agd> ] [ <egd> ] [ <lvd> ] [ <qd> ] [ <pmd> ] } ] ] ] ]
- OLD: show ipv6 mld snooping { report-policy | access-group } statistics [ vlan <vlan> ] [ \_\_readonly\_\_ [ TABLE\_vlanid { <vlan-id> <rpm-type> <policy-name> } ] ] ]
- NEW: show ipv6 mld snooping { report-policy | access-group } statistics [ vlan <vlan> ] [ \_\_readonly\_\_ [ TABLE\_vlanid { <vlan-id> <rpm-type> <policy-name> } ] [ TABLE\_filtervlanid { <filter-vlan-id> <filter-policy-name> } ] ] ]
- OLD: show ipv6 mroute [ [ [ bitfield ] [ detail ] ] | sr | rp ] [ summary [ count | software-forwarded | rpf-failed ] ] | { [ [ <source> <group> ] [ <group> [ <source> ] ] ] [ shared-tree | source-tree | mofrr ] [



- ```
[ <is-external> ] [ <otv-decap> ] [ <otv-router-mode> ] [ <non-dr-oifs-only> ] [ <data-created> ] [ <mdt-encap> ] [ <mdt-decap> ] [ <vxlan-decap> ] [ <vxlan-encap> ] [ <sw-pkts> ] [ <sw-bytes> ] [ <hw-pkts> ] [ <hw-bytes> ] [ <rpf-src> ] [ <mrrib-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> ] ] ] ]
```
- NEW: show ipv6 pim route [[<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>] [<intf-name>] [<rpf-nbr-1>] [<rpf-nbr-addr>] [<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>]]]]
 - OLD: show ipv6 pim vrf [{ <vrf-name> | <vrf-known-name> | all }] [detail | internal] [__readonly__ { TABLE_context <out-context> <context-id> <count> <table-id> <bfd> <mvpn> }]]
 - NEW: show ipv6 pim vrf [{ <vrf-name> | <vrf-known-name> | all }] [detail | internal] [__readonly__ { TABLE_context <out-context> <context-id> <count> <table-id> <bfd> <mvpn> [<strict_rfc_compliant>] }]]
 - OLD: show ipv6 raguard statistics [interface <intf-range>] [__readonly__ <msg_stats_hdr> <intf2> <rx_pkts> <drop_count>]
 - NEW: show ipv6 raguard statistics [interface <intf-range>] [__readonly__ <msg_stats_hdr> [<intf2>] [<rx_pkts>] [<drop_count>]]
 - OLD: show ipv6 route [unicast] [topology <topology-name>] [l3vm-info] [rpf] [<ipv6-addr> | { <ipv6-prefix> [{ longer-prefixes | shorter-prefixes }]] [{ <ipv6-protocol> [all] } | { bind-label <bind-lbl> | next-hop <next-hop> } | { interface <interface> } | { updated { [since <stime>] [until <utime>] } }] + [summary [cached] | summary-counter-consistency-check | { [detail] [deleted] }] [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] [__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [<attached>] TABLE_path [<ubest>] [<mbest>] [<ipnexthop>] [<nexthop-vrf-name>] [<ifname>] [<bindlbl>] [<srv6-funct>] <uptime> <pref> <metric> <clientname> [<type>] [<tag>] [<stale>] [<stalelbl>] [<hidden>] [<remote-sid>] [<src-ip>] [<sid-fcn>]] [TABLE_summary <routes> <paths> [<multicast_paths>] [TABLE_unicast [<clientnameuni>] [<best-paths>] [<backup-paths>]] [TABLE_multicast [<clientnamemulti>] [<best-paths>] [<backup-paths>]] [TABLE_route_count [<mask_len>] [<count>]]]]]
 - NEW: show ipv6 route [unicast] [topology <topology-name>] [l3vm-info] [rpf] [<ipv6-addr> | { <ipv6-prefix> [{ longer-prefixes | shorter-prefixes }]] [{ <ipv6-protocol> [all] } | { bind-label <bind-lbl> | next-hop <next-hop> } | { interface <interface> } | { updated { [since <stime>] [until <utime>] } }] + [summary [cached] | summary-counter-consistency-check | { [detail] [deleted] }] [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] [__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [<attached>] TABLE_path [<ubest>] [<mbest>] [<ipnexthop>] [<nexthop-vrf-name>] [<ifname>] [<bindlbl>] [<srv6-funct>] <uptime> <pref> <metric> <clientname> [<type>] [<tag>] [<stale>] [<stalelbl>

- ```

]] [<hidden>] [<remote-sid>] [<src-ip>] [<sid-act>] [<bsid>]] [TABLE_summary <routes> <paths>
[<multicast_paths>] [TABLE_unicast [<clientnameuni>] [<best-paths>] [<backup-paths>]] [
TABLE_multicast [<clientnamemulti>] [<best-paths>] [<backup-paths>]] [TABLE_route_count [
<mask_len>] [<count>]]]]

```
- OLD: show isis [ <isis-tag> ] [ internal ] event-history { errors | msgs | <isis-event-hist-buf-name> | statistics }
  - NEW: show isis [ <isis-tag> ] [ internal ] event-history { adjacency | cli | csnp | df | dis | distribute-ls | drap | errors | events | graceful | ha | iih | ldp | lslib-errors | lslib-traces | lsp-flood | lsp-gen | m2rib | mcast | msgs | mtr | oper | otv | perf | psnp | redistribute | rib | route-filter | spf-leaf | spf-tree | sr | srv6 | statistics | te | tlv | ulib | vlan-mgr }
  - OLD: 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> } } } }
  - NEW: 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> [ <redistributing-process-name> ] [ <redistributing-policy-name> ] [ <redistributing-process-state> ] [ { TABLE\_process\_route\_map [ <name> ] [ <action> ] [ <seq> ] [ { TABLE\_cmd [ <str> ] [ <compare-count> ] [ <match-count> ] } ] <accept-count> <reject-count> } } } }
  - OLD: 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> } } ] ]
  - NEW: 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> ] [ <redistributing-process-name> ] [ <redistributing-policy-name> ] [ <redistributing-process-state> ] [ <multitopology> ] [ { TABLE\_process\_route\_map [ <name> ] [ <action> ] [ <seq> ] [ { TABLE\_cmd [ <str> ] [ <compare-count> ] [ <match-count> ] } ] <accept-count> <reject-count> } } ] ]
  - OLD: show itd session device-group [ <name> ] [ \_\_readonly\_\_ [ TABLE\_dg <dg\_name> <first\_entry> [ TABLE\_svc <node> ] ] ]
  - NEW: show itd session device-group [ <name> ] [ \_\_readonly\_\_ [ TABLE\_dg <dg\_name> <first\_entry> [ TABLE\_svc <node> [ <utrackid> ] ] ] ]
  - OLD: show l2route evpn ead all [ detail ] [ \_\_readonly\_\_ TABLE\_l2route\_evpn\_ead\_all <topo-id> <prod> <esi> <client-nfn> <num\_pls> [ { <next-hop> } ] ]

- NEW: show l2route evpn ead all [ detail ] [ \_\_readonly\_\_ TABLE\_l2route\_evpn\_ead\_all <topo-id> <prod> <esi> <client-nfn> <flags> <num\_pls> [ { <next-hop> } ] + ]
- OLD: show l2route evpn fl all [ detail ] [ \_\_readonly\_\_ TABLE\_l2route\_fl\_all <topo-id> <peer-id> <flood-list> <is-service-node> [ <client-nfn> ] ]
- NEW: show l2route evpn fl all [ detail ] [ \_\_readonly\_\_ TABLE\_l2route\_fl\_all <topo-id> <peer-id> <flood-list> <egress-vni> <is-service-node> [ <client-nfn> ] ]
- OLD: show l2route evpn fl evi <vpn-id> [ detail ] [ \_\_readonly\_\_ TABLE\_l2route\_fl <peer-id> <flood-list> <is-service-node> [ <client-nfn> ] ]
- NEW: show l2route evpn fl evi <vpn-id> [ detail ] [ \_\_readonly\_\_ TABLE\_l2route\_fl <peer-id> <flood-list> <egress-vni> <is-service-node> [ <client-nfn> ] ]
- OLD: show l2route evpn fl all [ detail ] [ \_\_readonly\_\_ TABLE\_l2route\_fl\_all <topo-id> <peer-id> <flood-list> <is-service-node> [ <client-nfn> ] ]
- NEW: show l2route evpn fl all [ detail ] [ \_\_readonly\_\_ TABLE\_l2route\_fl\_all <topo-id> <peer-id> <flood-list> <egress-vni> <is-service-node> [ <client-nfn> ] ]
- OLD: show l2route evpn fl evi <vpn-id> [ detail ] [ \_\_readonly\_\_ TABLE\_l2route\_fl <peer-id> <flood-list> <is-service-node> [ <client-nfn> ] ]
- NEW: show l2route evpn fl evi <vpn-id> [ detail ] [ \_\_readonly\_\_ TABLE\_l2route\_fl <peer-id> <flood-list> <egress-vni> <is-service-node> [ <client-nfn> ] ]
- OLD: show lldp tlv-select [ \_\_readonly\_\_ <management-address-v4> <management-address-v6> <port-description> <port-vlan> <power-management> <system-capabilities> <system-description> <system-name> <dcbxp-cin-cee> [ <dcbxp-cn> ] [ <dcbxp-ets-cfg> ] [ <dcbxp-ets-reco> ] [ <dcbxp-pfc-cfg> ] [ <dcbxp-app-pri> ] [ <dcbxp-app-vlan> ] ]
- NEW: show lldp tlv-select [ \_\_readonly\_\_ <management-address-v4> <management-address-v6> <port-description> <port-vlan> <power-management> <four-wire-power-management> <system-capabilities> <system-description> <system-name> <dcbxp-cin-cee> [ <dcbxp-cn> ] [ <dcbxp-ets-cfg> ] [ <dcbxp-ets-reco> ] [ <dcbxp-pfc-cfg> ] [ <dcbxp-app-pri> ] [ <dcbxp-app-vlan> ] ]
- OLD: 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> [ <transport> ] } ] } { <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> } } ]
- NEW: 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> [ <transport> ] } ] } { <origin\_id\_status> } [ <origin\_id> ] ] [ <logflash\_status> ] [ <logflash\_severity> ] [ <logflash\_threshold> ] ] { <logfile\_status>

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[<logfile_name><logfile_severity><logfile_size>] } { TABLE_facility
<fac_name><def_level><cur_level> } { <fac_info> } }
```

- OLD: show logging level core
- NEW: show logging level core-dmon
- OLD: 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> ]
- NEW: 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\_moved\_border> <disp\_macs\_removed> ]
- OLD: show nbm defaults [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ \_\_readonly\_\_ TABLE\_vrf <vrfName> { <contextId> <bandwidthInKbps> <dscp> <qid> <policer> <operModeCache> <operMode> <unicastFabricBandwidth> <numAsmGroup> } [ TABLE\_ASM <groupId> { <groupPrefix> <groupMaskLen> } ] { <senderPolicy> <localReceiverPolicy> <externalReceiverPolicy> } ]
- NEW: show nbm defaults [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ \_\_readonly\_\_ TABLE\_vrf <vrfName> { <contextId> <bandwidthInKbps> <dscp> <qid> <policer> <operModeCache> <operMode> <unicastFabricBandwidth> <ResBwRxOnly> <numAsmGroup> } [ TABLE\_ASM <groupId> { <groupPrefix> <groupMaskLen> } ] { <senderPolicy> <localReceiverPolicy> <externalReceiverPolicy> } ]
- OLD: show nbm flow-policy [ name { <policy-name> } ] [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ \_\_readonly\_\_ TABLE\_vrf { <vrfName> [ <policyName> ] [ { <defaultBandwidthKbps> <defaultDscp> <defaultQos> <defaultPolicer> } ] [ { TABLE\_flow\_policy <groupRange> <bandwidthKbps> <dscp> <qos> <policer> <policyName> } ] <numGroupRanges> <numPolicies> } ]
- NEW: show nbm flow-policy [ name { <policy-name> } ] [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ \_\_readonly\_\_ TABLE\_vrf { <vrfName> [ <policyName> ] [ { <defaultBandwidthKbps> <defaultDscp> <defaultQos> <defaultPolicer> } ] [ { TABLE\_flow\_policy <groupRange> <bandwidthKbps> <dscp> <qos> <policer> <priority> <policyName> } ] <numGroupRanges> <numPolicies> } ]
- OLD: show nbm flows [ group-based [ group <group-ip> ] | { flow-policy { <cfg-pol-name> | <unknown-pol-name> } } | source <source-ip> [ group <group-ip> ] | group <group-ip> [ source <source-ip> ] | interface <if-name> | logical-id { none | any | <lid-val> } | profile-id <prof-id> ] [ all | active | inactive | no-receiver ] [ detail ] [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ \_\_readonly\_\_ [ TABLE\_vrf <vrf-name> [ TABLE\_flows { <mcast\_grp> <src\_ip> [ <start\_time> ] <uptime> <src\_intf> <src\_nbr\_device> [ <lid> <profile> <status> ] <num\_rx> <bw\_mbps> [ <cfg\_mbps> ] <src\_slot> <src\_unit> <src\_slice> } [ { <act\_slot> <act\_unit> <stdby\_slot> <stdby\_unit> } ] { <dscp> <qos> [ <owner\_type> ] <policed> [ <is\_fhr> ] <pol\_name> } [ <flag> ] [ TABLE\_num\_int\_links { <n\_link> <num\_links> } ] [ TABLE\_int\_links { <iiod> <ilink> <i\_ifidx> <fab\_iiod> <fab\_oiod> <fab\_ifidx> <oiod> <olink> <i\_ieth\_port> <fab\_ieth\_port> } ] [ TABLE\_oifs { [ <oif\_num> ] <oif\_slot> <oif\_unit> <oif\_slot\_unit\_num\_rx> <oif\_if\_idx> <oif\_ioid> <oif\_name> <oif\_nbr\_device> } ] [ { <end\_timestr> <flow\_rate\_bps> <packets> <bytes> } ] ] ] ]
- NEW: show nbm flows [ group-based [ group <group-ip> ] | { flow-policy { <cfg-pol-name> | <unknown-pol-name> } } | source <source-ip> [ group <group-ip> ] | group <group-ip> [ source





```
<afd-size-units>] [<afd-queue-desired>] [<afd-ecn>]] [<pause> <size-in-bytes> <xoff-bytes>
<xon-bytes>] [<priority-group-number>] [<bw-units>] [<bw-rate>] [<rem-bw-units>] [
<rem-bw-rate>] [<agg-policer-name>] [<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_police <police-key> [<cnf-act>] [<exc-act>] [<vio-act>
] [<set-type>] [<enum-spec>] [<set-val>] [<ptmap-from>] [<ptmap-to>] [<ptmap-name>]] [
<burst-detect-enable>]]]] }
```

- OLD: show policy-map system [ type { network-qos | qos [ input2 ] | queuing [ input | output ] } ] [ \_\_readonly\_\_ { [ <display-all> ] [ TABLE\_xpmap <xpmap-name> [ <desc> ] [ TABLE\_xcmap <xcmap-name> [ TABLE\_xaction <xaction-key> [ <cos-list> ] [ <qos-group-list> ] [ <protocol> ] [ <pause> <timeout> <size-in-bytes> <xoff-bytes> <xon-bytes> ] [ <pfc-cos-list> ] [ <pfc\_rx\_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctp-threshold> ] [ <queue-limit> ] [ <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> [ <slot-num> ] [ <class-pkts> ] [ <agg-forward> ] [ TABLE\_match <match-key> [ <not> ] [ <inner> ] [ <cos-list> ] [ <dscp-list> ] [ <exp-value-top> ] [ <protocol-name> ] [ <match-cmap-xqos-or-q> ] [ <match-cmap-opts> ] [ <match-cmap-name> ] ] [ TABLE\_action <action-key> [ <set-inner> ] [ <cos> ] [ <qos-group> ] [ <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> ] [ <rdet-agg> ] [ <rdet-mode> ] [ <rdet-burst-opt> ] [ <rdet-mesh-opt> ] [ TABLE\_rdet <rdet-key> [ <rdet-values> ] [ <rdet-min-thresh> ] [ <rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob> ] [ <rdet-weight> ] [ <rdet-cap-average> ] ] [ <rdet-ecn> ] [ TABLE\_afd <afd-key> [ <afd-values> ] [ <afd-queue-desired> ] [ <afd-size-units> ] [ <afd-ecn> ] ] [ <pause> <size-in-bytes> <xoff-bytes> <xon-bytes> ] ] ] ] }
- NEW: show policy-map system [ type { network-qos | qos [ input2 ] | queuing [ input | output ] } ] [ \_\_readonly\_\_ { [ <display-all> ] [ TABLE\_xpmap <xpmap-name> [ <desc> ] [ TABLE\_xcmap <xcmap-name> [ TABLE\_xmatch <xmatch-key> [ <xcos-list> ] [ <xqos-group-list> ] [ <xprotocol> ] ] [ TABLE\_xaction <xaction-key> [ <cos-list> ] [ <qos-group-list> ] [ <protocol> ] [ <pause> <timeout> <size-in-bytes> <xoff-bytes> <xon-bytes> ] [ <pfc-cos-list> ] [ <pfc\_rx\_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctp-threshold> ] [ <queue-limit> ] [ <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> [ <slot-num> ] [ <class-pkts> ] [ <agg-forward> ] [ TABLE\_match <match-key> [ <not> ] [ <inner> ] [ <cos-list> ] [ <dscp-list> ] [ <exp-value-top> ] [ <protocol-name> ] [ <match-cmap-xqos-or-q> ] [ <match-cmap-opts> ] [ <match-cmap-name> ] ] [ TABLE\_action <action-key> [ <set-inner> ] [ <cos> ] [ <qos-group> ] [ <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> ] [ <rdet-agg> ] [ <rdet-mode> ] [ <rdet-burst-opt> ] [ <rdet-mesh-opt> ] [ TABLE\_rdet <rdet-key> [ <rdet-values> ] [ <rdet-min-thresh> ] [ <rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob> ] [ <rdet-weight> ] [ <rdet-cap-average> ] ] [ <rdet-ecn> ] [ <afd-mode> ] [ TABLE\_afd <afd-key> [ <afd-values> ] [ <afd-size-units> ] [ <afd-queue-desired> ] [ <afd-ecn> ] ] [ <pause> <size-in-bytes> <xoff-bytes> <xon-bytes> ] ] ] ] }

- OLD: show policy-map type network-qos [ <pmap-name-nq> ] [ \_\_readonly\_\_ { [ <display-all> ] [ TABLE\_xpmap <xpmap-name> [ <desc> ] [ TABLE\_xcmap <xcmap-name> [ TABLE\_action <action-key> [ <cos-list> ] [ <qos-group-list> ] [ <protocol> ] [ <pause> <timeout> <size-in-bytes> <xoff-bytes> <xon-bytes> ] [ <pfc-cos-list> ] [ <pfc\_rx\_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold> ] [ <queue-limit> ] ] ] ] } ]
- NEW: show policy-map type network-qos [ <pmap-name-nq> ] [ \_\_readonly\_\_ { [ <display-all> ] [ TABLE\_xpmap <xpmap-name> [ <desc> ] [ TABLE\_xcmap <xcmap-name> [ TABLE\_xmatch <xmatch-key> [ <xcos-list> ] [ <xqos-group-list> ] [ <xprotocol> ] ] [ TABLE\_action <action-key> [ <cos-list> ] [ <qos-group-list> ] [ <protocol> ] [ <pause> <timeout> <size-in-bytes> <xoff-bytes> <xon-bytes> ] [ <pfc-cos-list> ] [ <pfc\_rx\_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold> ] [ <queue-limit> ] ] ] ] } ]
- OLD: show port-channel load-balance { [ module <module> ] } { fex { all } } } [ \_\_readonly\_\_ [ <sys-cfg> ] + <sys-cfg-sel> [ { <module-cfg> } ] + <non-ip-val> <non-ip-sel> <ipv4-val> <ipv4-sel> [ <ipv6-val> ] [ <ipv4-encap> ] { TABLE\_mod\_configs [ <mod-number> ] <mod-non-ip-val> <mod-non-ip-sel> <mod-ipv4-val> <mod-ipv4-sel> [ <mod-ipv4-encap> ] } ]
- NEW: show port-channel load-balance { [ module <module> ] } { fex { all } } } [ \_\_readonly\_\_ [ <sys-cfg> ] + [ <sys-cfg-sel> ] [ { <module-cfg> } ] + <non-ip-val> <non-ip-sel> <ipv4-val> <ipv4-sel> [ <ipv6-val> ] [ <ipv4-encap> ] { TABLE\_mod\_configs [ <mod-number> ] <mod-non-ip-val> <mod-non-ip-sel> <mod-ipv4-val> <mod-ipv4-sel> [ <mod-ipv4-encap> ] } ]
- OLD: 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> <device-type> <encap> <slave-clock-oper> <master-clock-oper> <src-ip> <slave-only> [ <correction-threshold> ] [ <mean-path-delay-threshold> ] [ <gmTimeBaseIndicator> ] [ <last\_gm\_phase\_change> ] [ <master\_cum\_scaled\_rate\_offset> ] [ <scaled\_last\_gm\_freq\_change> ] [ <cum\_scaled\_rate\_offset> ] <local-clock-time> <bs-status> ]
- NEW: 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> <device-type> <encap> <slave-clock-oper> <master-clock-oper> <src-ip> <slave-only> [ <correction-threshold> ] [ <mean-path-delay-threshold> ] [ <gmTimeBaseIndicator> ] [ <last\_gm\_phase\_change> ] [ <master\_cum\_scaled\_rate\_offset> ] [ <scaled\_last\_gm\_freq\_change> ] [ <cum\_scaled\_rate\_offset> ] <local-clock-time> [ <bs-status> ] <clock-state> ]
- OLD: show queuing [ interface [ <if\_list> ] ] [ summary ] [ module <module> ] [ \_\_readonly\_\_ [ TABLE\_interface\_mtu <intf\_name> <mtu\_val> ] [ TABLE\_queuing\_interface <dir> <if\_name\_str> [ TABLE\_qosgrp\_cfg <qosgrp> [ <bandwidth> ] [ <priority> ] [ <shape-min> ] [ <shape-max> ] [ <shape-units> ] [ <buffer-size> ] [ <pause-threshold> ] [ <resume-threshold> ] [ <q-limit> ] [ <q-limit-type> ] ] [ <mc-drop-pkt> ] [ 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\_egress\_stats\_entry <ep-stat-type> <ep-stat-units> <ep-stat-value> ] [ TABLE\_ingress\_stats\_entry <ip-stat-type> <ip-stat-units> <ip-stat-value> ] [ <tx-ppp> <rx-ppp> [ TABLE\_pfc\_stats <cos> [ <pfc-qosgrp> ] [ <pfc-pg> ] <tx-pause-state> <rx-pause-count> <rx-pause-state> <rx-pause-count> ] ] ] ]
- NEW: show queuing [ interface [ <if\_list> ] ] [ summary ] [ module <module> ] [ \_\_readonly\_\_ [ TABLE\_interface\_mtu <intf\_name> <mtu\_val> ] [ TABLE\_queuing\_interface <dir> <if\_name\_str> [ <mtu\_val> ] [ TABLE\_qosgrp\_cfg <qosgrp> [ <bandwidth> ] [ <priority> ] [ <shape-min> ] [

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][<q-limit-type>][<mc-drop-pkt>][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_egress_stats_entry <ep-stat-type>
<ep-stat-units> <ep-stat-value>][TABLE_ingress_stats_entry <ip-stat-type> <ip-stat-units>
<ip-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>]]]]
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- OLD: 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\_uc\_ecn\_pkt\_qos\_0> <tx\_uc\_ecn\_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> ] ]
- NEW: 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> ] [ TABLE\_queuing\_counter <counter\_name\_str> [ <qos\_group\_0> ] [ <qos\_group\_1> ] [ <qos\_group\_2> ] [ <qos\_group\_3> ] [ <qos\_group\_4> ] [ <qos\_group\_5> ] [ <qos\_group\_6> ] [ <qos\_group\_7> ] [ <qos\_group\_cpu> ] [ <qos\_group\_span> ] ] [ <tx\_uc\_pkt\_qos\_0> ] [ <tx\_uc\_byte\_qos\_0> ] [ <tx\_uc\_drop\_pkt\_qos\_0> ] [ <tx\_uc\_drop\_byte\_qos\_0> ] [ <tx\_uc\_ecn\_pkt\_qos\_0> ] [ <tx\_uc\_ecn\_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> ] ] ]
- OLD: show routing [ ip | ipv4 ] [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ip-addr> | { <ip-prefix> [ { longer-prefixes | shorter-prefixes } ] } ] [ { <protocol> [ all ] } | { bind-label <bind-lbl> | next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary [ cached ] | detail | summary-counter-consistency-check ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ \_\_readonly\_\_ TABLE\_vrf <vrf-name-out> TABLE\_addrf <addrf> [ TABLE\_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE\_path [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ] [ <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ] [ <hidden> ] [ <stale-label> ] [ <bgpbackuppath> ] [ <type2> ] [ <ubest> ] [ <mbest> ] [ <remote-sid> ] [ <src-ip> ] [ <sid-fct> ] ] [ TABLE\_summary <routes> <paths> [ <multicast\_paths> ] [ TABLE\_unicast [ <clientnamemuni> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_route\_count [ <mask\_len> ] [ <count> ] ] ] ]
- NEW: show routing [ ip | ipv4 ] [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ip-addr> | { <ip-prefix> [ { longer-prefixes | shorter-prefixes } ] } ] [ { <protocol> [ all ] } | { bind-label <bind-lbl> | next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [ since

- <stime> ] [ until <utime> ] } } ] + [ summary [ cached ] | detail | summary-counter-consistency-check ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ \_\_readonly\_\_ TABLE\_vrf <vrf-name-out> TABLE\_addrf <addrf> [ TABLE\_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE\_path [ <ipnexthop> ] [ <ipv6nexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ] [ <hidden> ] [ <stale-label> ] [ <bgpbackuppath> ] [ <type2> ] [ <remote-sid> ] [ <src-ip> ] [ <sid-ict> ] [ <bsid> ] [ <ubest> ] [ <mbest> ] ] [ TABLE\_summary <routes> <paths> [ <multicast\_paths> ] [ TABLE\_ucicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_route\_count [ <mask\_len> ] [ <count> ] ] ] ] ]
- OLD: show routing [ ip | ipv4 ] multicast sr [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ \_\_readonly\_\_ [ TABLE\_vrf <vrf-name> <mode> <mac-rewrite> [ TABLE\_route <interface> <in-group-range> <to-group-range> <group-mask> <in-source-range> <to-source-range> <source-mask> ] ] ]
  - NEW: show routing [ ip | ipv4 ] multicast sr [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ \_\_readonly\_\_ [ TABLE\_vrf <vrf-name> <mode> <mac-rewrite> [ TABLE\_route <in-group-range> <to-group-range> <group-mask> <in-source-range> <to-source-range> <source-mask> <udp-src-port> <udp-dest-port> <static-oif> ] ] ]
  - OLD: 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> [ <source\_addrs> <group\_addrs> ] <pending> <bidir> <uptime> <moifr> [ TABLE\_mpib [ <mpib-name> ] [ <oif-count> ] [ <stale-route> ] ] [ <mdt-encap> ] [ <mdt-decap> ] [ <mdt-last-hop> ] [ <mdt-encap-index> ] [ <stats-pkts> ] [ <stats-bytes> ] [ <stats-rate-buf> ] [ <lisp-src-rloc> ] [ <translated-route-src> ] [ <translated-route-grp> ] [ <route-iif> ] [ <rpfr-nbr> ] [ <moifr-iif> ] [ <moifr-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> ] [ <core-interest> ] [ <fabric-interest> ] ] <rpfr> ] [ <route-mdt-iod> ] [ <oif-list-bitfield> ] [ TABLE\_extranet [ <extranet\_vrf\_name> ] [ <extranet\_addr> ] [ <extranet\_oif\_count> ] ] ] ] ]
  - NEW: 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> ] [ <sr-routes> ] [ <pre-routes> ] [ <post-routes> ] [ <ingress-routes> ] [ <egress-routes> ] ] [ TABLE\_summary\_source [ <group\_addr> ] [ <group\_mask\_len> ] [ <source\_count> ] [ TABLE\_one\_sg [ <sgroup\_addr> ] [ <source\_addr> ] [ <packets> ] [ <bytes> ] [ <aps> ] [ <pps> ] [ <rate\_buf> ] [ <oifs> ] [ <sr\_type> ] [ <software\_fwd> ] [ <rpf-failed-pkts> ] [ <rpf-failed-bytes> ] ] ] [ TABLE\_one\_route <mcast-addr> [ <source\_addrs> <group\_addrs> ] <pending> <bidir> <uptime> <moifr> [ TABLE\_mpib [ <mpib-name> ] [ <oif-count> ] [ <stale-route> ] ] [ <mdt-encap> ] [ <mdt-decap> ] [ <mdt-last-hop> ] [ <mdt-encap-index> ] [ <stats-pkts> ] [ <stats-bytes> ] [ <stats-rate-buf> ] [ <lisp-src-rloc> ] [

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- OLD: show routing ipv6 [ unicast ] [ internal ] event-history { statistics | msgs | am | cli | detail | dme | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary | sidmgr }
- NEW: show routing ipv6 [ unicast ] [ internal ] event-history { statistics | msgs | am | cli | detail | dme | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary | cc | sidmgr }
- OLD: show routing ipv6 [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ipv6-addr> | { <ipv6-prefix> [ { longer-prefixes | shorter-prefixes } ] } ] [ { <ipv6-protocol> [ all ] } | { bind-label <bind-lbl> | next-hop <next-hop> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary [ cached ] | summary-counter-consistency-check | { [ detail ] [ deleted ] } ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ \_\_readonly\_\_ TABLE\_vrf <vrf-name-out> TABLE\_addrf <addrf> [ TABLE\_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [ <attached> ] TABLE\_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ] [ <srv6-funct> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <stalelbl> ] [ <hidden> ] [ <remote-sid> ] [ <src-ip> ] [ <sid-fct> ] ] [ TABLE\_summary <routes> <paths> [ <multicast\_paths> ] [ TABLE\_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_route\_count [ <mask\_len> ] [ <count> ] ] ] ] ]
- NEW: show routing ipv6 [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ipv6-addr> | { <ipv6-prefix> [ { longer-prefixes | shorter-prefixes } ] } ] [ { <ipv6-protocol> [ all ] } | { bind-label <bind-lbl> | next-hop <next-hop> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary [ cached ] | summary-counter-consistency-check | { [ detail ] [ deleted ] } ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ \_\_readonly\_\_ TABLE\_vrf <vrf-name-out> TABLE\_addrf <addrf> [ TABLE\_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [ <attached> ] TABLE\_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ] [ <srv6-funct> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <stalelbl> ] [ <hidden> ] [ <remote-sid> ] [ <src-ip> ] [ <sid-fct> ] [ <bsid> ] ] [ TABLE\_summary <routes> <paths> [ <multicast\_paths> ] [ TABLE\_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_route\_count [ <mask\_len> ] [ <count> ] ] ] ] ]
- OLD: show routing ipv6 multicast [ internal ] event-history { errors | msgs | <mrrib-event-hist-buf-name> | statistics }
- NEW: show routing ipv6 multicast [ internal ] event-history { errors | msgs | rib | rib-summary | mfdm-debug | mfdm-events | mfdm-stats | vrf | mdt | nbm | cli | notify-clients | pim-library | urib-debug | objstore-events | objstore-error | mofrr }
- OLD: show routing ipv6 multicast sr [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ \_\_readonly\_\_ [ TABLE\_vrf <vrf-name> <mode> <mac-rewrite> [ TABLE\_route <interface> <in-group-range> <to-group-range> <group-mask> <in-source-range> <to-source-range> <source-mask> ] ] ]
- NEW: show routing ipv6 multicast sr [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ \_\_readonly\_\_ [ TABLE\_vrf <vrf-name> <mode> <mac-rewrite> [ TABLE\_route <in-group-range> <to-group-range>



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][<udp-rx-no-port-bcast>][<udp-rx-no-port-mcast>][<udp-rx-full-socket-drop>][<udp-tx-total>
][<raw-rx-version>][<raw-rx-rcvd>][<raw-rx-no-port>][<raw-rx-full-socket-drop>][<raw-tx-sent>
][<inpcb-tot-alloc>][<inpcb-tot-bind>][<inpcb-tot-laddr>][<inpcb-tot-connect>][
<inpcb-tot-disconnect>][<inpcb-tot-detach>][<inpcb-tot-detach-noinc>][<inpcb-tot-detach-rort>
][<inpcb-tot-rtfree>][<inpcb-tot-setsock-addr>][<inpcb-tot-setpeeraddr>][<inpcb-tot-notify>][
<inpcb-tot-lookup-npacl-deny>][<inpcb-tot-lookup-npacl-allow>][<inpcb-tot-inshash-ipv4>][
<inpcb-tot-inshash-ipv6>][<inpcb-tot-brehash-ipv4>][<inpcb-tot-brehash-ipv6>][
<inpcb-tot-bremhash>][<inpcb-err-allocnomem>][<inpcb-err-bindeinavl>][<inpcb-err-eaddrinuse>
][<inpcb-err-eagain>][<inpcb-err-eagain2>][<inpcb-err-eaddrnotavail>][<inpcb-err-eafnosupport>
][<inpcb-err-enomem>][<inpcb-err-ehostunreach>][<inpcb-err-laddr-enxio>][
<inpcb-err-laddr-ehostunreach2>][<inpcb-err-connectladdr>][<inpcb-err-connect-eaddrinuse>][
<inpcb-err-connbnd>][<inpcb-err-sockaddrenomem>][<inpcb-err-sockadreconnreset>][
<inpcb-err-peeraddr-enomem>][<inpcb-err-econnrest>][<inpcb-err-respond-enobufs>][
<inpcb-err-binshash-enobufs>][<in6pcb-tot-setport>][<in6pcb-tot-bind>][<in6pcb-tot-laddr>][
<in6pcb-tot-connect>][<in6pcb-tot-disconnect>][<in6pcb-tot-detach>][<in6pcb-tot-sockaddr>][
<in6pcb-tot-peeraddr>][<in6pcb-tot-notify>][<in6pcb-tot-lookuplocal>][
<in6pcb-tot-hashnpacli-deny>][<in6pcb-err-setporteagain>][<in6pcb-err-setporteagain2>][
<in6pcb-err-seteagain3>][<in6pcb-bind-eafnosupport>][<in6pcb-err-bindeaddrinuse>][
<in6pcb-err-bindeaddrinuse2>][<in6pcb-err-bindeaddrinuse3>][<in6pcb-err-bindeaddrinuse4>][
<in6pcb-err-bindsetport>][<in6pcb-err-bindeagain>][<in6pcb-err-laddr-eafnosupport>][
<in6pcb-err-eaddrnotavail>][<in6pcb-err-laddr-enomem>][<in6pcb-err-laddr-ehostreach>][
<in6pcb-err-laddr-ehostunreach2>][<in6pcb-err-laddr-ehostunreach3>][
<in6pcb-err-laddr-ehostunreach4>][<in6pcb-err-laddr-enxio>][<in6pcb-err-connladdr>][

```

- ```

<in6pcb-err-conneaddrinuse> ] [ <in6pcb-err-connbind> ] [ <in6pcb-err-sockaddr-enomem> ] [
<in6pcb-err-v4maps-enomem> ] [ <in6pcb-err-setsock-noinp> ] [ <in6pcb-err-setpeer-noinp> ] [
<in6pcb-err-sockaddr-noinp> ] [ <in6pcb-err-peeraddr-noinp> ] [ <in6pcb-err-notify-einavl> ] [
<in6pcb-err-ctloutput-nosoopt> ] } } ]

```
- NEW: show sockets statistics [all | tcp | tcp6 | tcpsum | udp | udp6 | udpsum | raw | raw6 | rawsum] [__readonly__ [{ TABLE_stat [<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-oo-drop-cnt>] [<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>] [<rx-rcv-memdrop>] [<rx-dig-mssing>] [<rx-dig-unexpected>] [<rx-dig-notused>] [<rx-dig-valid>] [<rx-dig-invalid>] [<rx-get-passwd-fail>] [<rx-md5-mbuf-exded>] [<rx-uspec-src-recvd>] [<rx-pkt-too-short>] [<rx-sin-finest>] [<rx-black-hole-syn>] [<rx-black-hole>] [<rx-drop-no-inpcb>] [<rx-drop-notpcb>] [<rx-drp-sock-closed>] [<rx-syn-with-rst>] [<rx-syn-drop>] [<rx-bandlim>] [<rx-forged-pkt>] [<rx-drp-mbcast>] [<rx-drp-syn-add>] [<rx-drp-syn-recvd>] [<rx-drp-cc-sent>] [<rx-drp-rst-ccsent>] [<rx-frecv-enqueue>] [<rx-frecv-enqueue-fail>] [<rx-ftp-cant-rcv-more>] [<rx-ftp-data-ack-toapp-fail>] [<rx-ftp-data-ack-toapp>] [<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-encrypt>] [<tx-unencrypt>] [<tx-md5rst>] [<tx-conn-init>] [<tx-conn-accepted>] [<tx-conn-estd>] [<closed>] [<dropped>] [<emb-dropped>] [<tx-rxmt-timeout>] [<tx-rxmt-timeout-dropped>] [<tx-ka-timeout>] [<tx-ka-probe>] [<tx-ka-drop>] [<gen-seg-timed>] [<gen-rtt-updated>] [<gen-delack>] [<gen-persist-timeout>] [<gen-paws-drop>] [<gen-predack>] [<gen-preddat>] [<gen-pcb-cachemiss>] [<gen-cache-drtt>] [<gen-cache-drttvar>] [<gen-cached-ssthresh>] [<gen-usedrtt>] [<gen-usedrttvar>] [<gen-usedssthresh>] [<gen-persistdrop>] [<gen-badsyn>] [<gen-mturesent>] [<gen-list-endrop>] [<gen-rpm-bind-synsock>] [<gen-rpm-bindsynadd>] [<gen-rpm-bindlookup>] [<gen-rpm-bindsetsock>] [<gen-rpm-unbind-getpass>] [<gen-rpm-unbinduser1>] [<gen-rpm-unbinduser2>] [<gen-rpm-unbindrollover>] [<gen-rpm-unbind-synfree>] [<gen-rpm-unbind-tpfree>] [<syn-sc-added>] [<syn-retransmitted>] [<syn-dupsyn>] [<syn-dropped>] [<syn-completed>] [<syn-bucket-overflow>] [<syn-cache-overflow>] [<syn-sc-reset>] [<syn-sc-stale>] [<syn-sc-aborted>] [<syn-sc-badack>] [<syn-sc-unreach>] [<syn-sc-zonefail>] [<syn-sc-sendcookie>] [<syn-sc-recvcookie>] [<syn-sc-crosshits>] [<syn-sc-supsyncrosshits>] [<syn-sc-removecrosshits>] [<udp-rx-version>] [<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-version>] [<raw-rx-rcvd>] [<raw-rx-no-port>] [<raw-rx-full-socket-drop>] [<raw-tx-sent>] [<inpcb-tot-alloc>] [<inpcb-tot-bind>] [<inpcb-tot-laddr>] [<inpcb-tot-connect>] [<inpcb-tot-disconnect>] [<inpcb-tot-detach>] [<inpcb-tot-detach-noinp>] [<inpcb-tot-detach-rort>] [<inpcb-tot-rtfree>] [<inpcb-tot-setsock-addr>] [<inpcb-tot-setpeeraddr>] [<inpcb-tot-notify>] [<inpcb-tot-lookup-npacl-deny>] [<inpcb-tot-lookup-npacl-allow>] [<inpcb-tot-inshash-ipv4>] [<inpcb-tot-inshash-ipv6>] [<inpcb-tot-brehash-ipv4>] [<inpcb-tot-brehash-ipv6>] [<inpcb-tot-bremhash>] [<inpcb-err-allocnomem>] [<inpcb-err-bindeinavl>] [<inpcb-err-eaddrinuse>] [<inpcb-err-eagain>] [<inpcb-err-eagain2>] [<inpcb-err-eaddrnotavail>] [<inpcb-err-eafnosupport>] [<inpcb-err-enomem>] [<inpcb-err-ehostunreach>] [<inpcb-err-laddr-enoent>] [<inpcb-err-laddr-ehostunreach2>] [<inpcb-err-connectladdr>] [<inpcb-err-connect-eaddrinuse>] [<inpcb-err-connbind>] [<inpcb-err-sockaddr-enomem>] [<inpcb-err-sockaddrconreset>] [<inpcb-err-peeraddr-enomem>] [<inpcb-err-econnrest>] [<inpcb-err-respond-enobufs>] [<inpcb-err-binshash-enobufs>] [<in6pcb-tot-setport>] [<in6pcb-tot-bind>] [<in6pcb-tot-laddr>] [<in6pcb-tot-connect>] [<in6pcb-tot-disconnect>] [<in6pcb-tot-detach>] [<in6pcb-tot-sockaddr>] [<in6pcb-tot-peeraddr>] [<in6pcb-tot-notify>] [<in6pcb-tot-lookuplocal>] [<in6pcb-tot-hashnpacl-deny>] [<in6pcb-err-setporteagain>] [<in6pcb-err-setporteagain2>]]

- OLD: show tech-support usd-all
- NEW: show tech-support usd-all [time-optimized]
- OLD: show telemetry control { database [subscriptions | destination-groups | destinations | [{ [sensor-paths | sensor-groups] [detail] }]] | stats } [__readonly__ [<subscription_db_size>] [{ TABLE_subscriptions <subscription_id> <data_collector_type> }] [<sensor_grp_db_size>] [{ TABLE_sensor_grp <snsr_grp_row_idx> <snsr_grp_id> <snsr_grp_type> <snsr_grp_collector_type> <snsr_grp_timer_interval> <snsr_grp_timer_status> <snsr_grp_sub_count> <snsr_grp_sub_id> <snsr_grp_dc_cur_time> <snsr_grp_dc_min_time> <snsr_grp_dc_max_time> <snsr_grp_enc_cur_time> <snsr_grp_enc_min_time> <snsr_grp_enc_max_time> <snsr_grp_trans_cur_time> <snsr_grp_trans_min_time> <snsr_grp_trans_max_time> <snsr_grp_stream_cur_time> <snsr_grp_stream_min_time> <snsr_grp_stream_max_time> <snsr_grp_stream_col_id_drop> <snsr_grp_stream_last_col_id_drop> <snsr_grp_stream_col_drop> }] [<sensor_path_db_size>] [{ TABLE_sensor_path <path_row_idx> <path_subscribed> <path_group_count> <path_secondary_group_count> <path_level> <path_name> <path_grp_id> <path_query_condition> <path_filter_condition> <path_gpb_cur_enc_size> <path_gpb_min_enc_size> <path_gpb_max_enc_size> <path_json_cur_enc_size> <path_json_min_enc_size> <path_json_max_enc_size> <path_cgpb_cur_enc_size> <path_cgpb_min_enc_size> <path_cgpb_max_enc_size> <path_dc_cur_time> <path_dc_min_time> <path_dc_max_time> <path_enc_cur_time> <path_enc_min_time> <path_enc_max_time> <path_trans_cur_time> <path_trans_min_time> <path_trans_max_time> <path_stream_cur_time> <path_stream_min_time> <path_stream_max_time> }] [<destination_group_db_size>] [{ TABLE_destination_group <destination_group_id> <destination_group_refcount> <destination_group_use_vrf> }] [<destination_db_size>] [{ TABLE_destinations <destination_ip> <destination_port> <destination_encoding> <destination_transport> <destination_refcount> }] [db_statistics <chunk_alloc_fail> <sensor_path_chunk_create_fail> <sensor_group_chunk_create_fail> <destination_chunk_create_fail> <destination_group_chunk_create_fail> <subscription_chunk_create_fail> <sensor_path_db_create_fail> <sensor_group_db_create_fail> <destination_db_create_fail> <destination_group_db_create_fail> <subscription_db_create_fail> <sensor_path_db_insert_fail> <sensor_group_db_insert_fail> <destination_db_insert_fail> <destination_group_db_insert_fail> <subscription_db_insert_fail> <sensor_path_db_delete_fail> <sensor_group_db_delete_fail> <destination_db_delete_fail> <destination_group_db_delete_fail> <subscription_db_delete_fail> <sensor_path_delete_in_use> <sensor_group_delete_in_use> <destination_delete_in_use> <destination_group_delete_in_use> <delete_destination_in_use_fail> <sensor_path_sensor_group_list_create_fail> <sensor_path_prop_list_create_fail> <sensor_path_secondary_sensor_path_list_create_fail> <sensor_path_secondary_sensor_group_list_create_fail> <sensor_group_sensor_path_list_create_fail> <sensor_group_subscription_list_create_fail> <destination_group_subscription_list_create_fail> <destination_group_destination_list_create_fail> <destination_destination_group_list_create_fail> <subscription_sensor_group_list_create_fail> <subscription_destination_group_list_create_fail> <sensor_group_sensor_path_list_delete_fail> <sensor_group_subscription_list_delete_fail> <sensor_group_subscription_unsupported_data_source_fail> <destination_group_subscription_list_delete_fail> <destination_group_destination_list_delete_fail> <subscription_sensor_group_list_delete_fail> <subscription_destination_group_list_delete_fail> <destination_destination_group_list_delete_fail> <destination_delete_from_destination_group_fail> <destination_group_delete_from_subscription_fail> <sensor_group_delete_from_subscription_fail> <sensor_path_delete_from_sensor_group_fail> <get_encode_cb_fail> <get_transport_cb_fail>]]
- NEW: show telemetry control { database [subscriptions | destination-groups | destinations | [{ [sensor-paths | sensor-groups] [detail] }]] | stats } [__readonly__ [<subscription_db_size>] [{ TABLE_subscriptions <subscription_id> <data_collector_type> }] [<sensor_grp_db_size>] [{ TABLE_sensor_grp <snsr_grp_row_idx> <snsr_grp_id> <snsr_grp_type> <snsr_grp_collector_type>

```

<snsr_grp_timer_interval> <snsr_grp_timer_status> <snsr_grp_sub_count> <snsr_grp_sub_id>
<snsr_grp_dc_cur_time> <snsr_grp_dc_min_time> <snsr_grp_dc_max_time> <snsr_grp_enc_cur_time>
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<snsr_grp_stream_min_time> <snsr_grp_stream_max_time> <snsr_grp_stream_col_id_drop>
<snsr_grp_stream_last_col_id_drop> <snsr_grp_stream_col_drop> } ] [ <sensor_path_db_size> ] [ {
TABLE_sensor_path <path_row_idx> <path_subscribed> <path_group_count>
<path_secondary_group_count> <path_level> <path_name> <path_grp_id> <path_query_condition>
<path_filter_condition> <path_gpb_cur_enc_size> <path_gpb_min_enc_size> <path_gpb_max_enc_size>
<path_json_cur_enc_size> <path_json_min_enc_size> <path_json_max_enc_size>
<path_cgpb_cur_enc_size> <path_cgpb_min_enc_size> <path_cgpb_max_enc_size> <path_dc_cur_time>
<path_dc_min_time> <path_dc_max_time> <path_enc_cur_time> <path_enc_min_time>
<path_enc_max_time> <path_trans_cur_time> <path_trans_min_time> <path_trans_max_time>
<path_stream_cur_time> <path_stream_min_time> <path_stream_max_time> } ] [
<destination_group_db_size> ] [ { TABLE_destination_group <destination_group_id>
<destination_group_refcount> <destination_group_use_vrf> <destination_group_filter_filename>
<destination_group_filter_md5hash> <destination_group_md5_checksum>
<destination_group_file_modified> <destination_group_file_synced> } ] [ <destination_db_size> ] [ {
TABLE_destinations <destination_ip> <destination_port> <destination_encoding> <destination_transport>
<destination_refcount> } ] [ db_statistics <chunk_alloc_fail> <sensor_path_chunk_create_fail>
<sensor_group_chunk_create_fail> <destination_chunk_create_fail>
<destination_group_chunk_create_fail> <subscription_chunk_create_fail> <sensor_path_db_create_fail>
<sensor_group_db_create_fail> <destination_db_create_fail> <destination_group_db_create_fail>
<subscription_db_create_fail> <sensor_path_db_insert_fail> <sensor_group_db_insert_fail>
<destination_db_insert_fail> <destination_group_db_insert_fail> <subscription_db_insert_fail>
<sensor_path_db_delete_fail> <sensor_group_db_delete_fail> <destination_db_delete_fail>
<destination_group_db_delete_fail> <subscription_db_delete_fail> <sensor_path_delete_in_use>
<sensor_group_delete_in_use> <destination_delete_in_use> <destination_group_delete_in_use>
<delete_destination_in_use_fail> <sensor_path_sensor_group_list_create_fail>
<sensor_path_prop_list_create_fail> <sensor_path_secondary_sensor_path_list_create_fail>
<sensor_path_secondary_sensor_group_list_create_fail> <sensor_group_sensor_path_list_create_fail>
<sensor_group_subscription_list_create_fail> <destination_group_subscription_list_create_fail>
<destination_group_destination_list_create_fail> <destination_destination_group_list_create_fail>
<subscription_sensor_group_list_create_fail> <subscription_destination_group_list_create_fail>
<sensor_group_sensor_path_list_delete_fail> <sensor_group_subscription_list_delete_fail>
<sensor_group_subscription_unsupported_data_source_fail>
<destination_group_subscription_list_delete_fail> <destination_group_destination_list_delete_fail>
<subscription_sensor_group_list_delete_fail> <subscription_destination_group_list_delete_fail>
<destination_destination_group_list_delete_fail> <destination_delete_from_destination_group_fail>
<destination_group_delete_from_subscription_fail> <sensor_group_delete_from_subscription_fail>
<sensor_path_delete_from_sensor_group_fail> <get_encode_cb_fail> <get_transport_cb_fail> ] ]

```

- OLD: show telemetry transport [<session_id> [{ stats | errors }]] [__readonly__ [{
TABLE_transport_info <session_idx> [<ip_address>] [<port>] [<dest_info>] [<encoding_type>]
<transport_type> <transport_status> [<transport_security_cert_fname>] [<transport_last_connected>
] [<transport_last_disconnected>] [<transport_errors_count>] [<transport_last_tx_error> }]] [
<t_session_id>] [{ transport_statistics [{ connect_statistics <connect_count> <last_connected>
<disconnect_count> <last_disconnected> }] { trans_statistics <compression> <source_interface_name>
<source_interface_ip> <transmit_count> <last_tx_time> <min_tx_time> <max_tx_time> <avg_tx_time>
<cur_tx_time> } }] [{ transport_errors { connect_errors <connect_errors_count> } { trans_errors
<trans_errors_count> <last_tx_error> [<last_tx_return_code>] } }] [{ transport_retry_stats

- ```
<ts_event_retry_bytes> <ts_event_retry_size> <ts_timer_retry_bytes> <ts_timer_retry_size>
<ts_retries_sent> <ts_retries_dropped> }] [<retry_buffer_size>] [<event_retry_bytes>] [
<timer_retry_bytes>] [<retries_sent>] [<retries_dropped>]]
```
- NEW: show telemetry transport [ { <session\_id> [ { stats | errors | kafka-info } ] | kafka | all } ] [
 \_\_readonly\_\_ [ { TABLE\_transport\_info <session\_idx> [ <ip\_address> ] [ <port> ] [ <dest\_info> ] [
 <encoding\_type> ] <transport\_type> <transport\_status> [ <transport\_security\_cert\_fname> ] [
 <transport\_last\_connected> ] [ <transport\_last\_disconnected> ] [ <transport\_errors\_count> ] [
 <transport\_last\_tx\_error> ] } ] [ <t\_session\_id> ] [ { transport\_statistics [ { connect\_statistics
 <connect\_count> <last\_connected> <disconnect\_count> <last\_disconnected> } ] { trans\_statistics
 <compression> <source\_interface\_name> <source\_interface\_ip> <transmit\_count> <last\_tx\_time>
 <min\_tx\_time> <max\_tx\_time> <avg\_tx\_time> <cur\_tx\_time> } } ] [ { transport\_errors { connect\_errors
 <connect\_errors\_count> } } { trans\_errors <trans\_errors\_count> <last\_tx\_error> [ <last\_tx\_return\_code>
 ] } } ] [ { TABLE\_transport\_kafka <row\_idx> [ <broker> ] [ <topic> ] [ <kafka\_msg\_count> } ] [
 <kafka\_producer\_name> ] [ <kafka\_producer\_request\_size> ] [ <kafka\_producer\_request\_timeout> ] [
 <kafka\_lib\_version> ] [ { transport\_retry\_stats <ts\_event\_retry\_bytes> <ts\_event\_retry\_size>
 <ts\_timer\_retry\_bytes> <ts\_timer\_retry\_size> <ts\_retries\_sent> <ts\_retries\_dropped> } ] [
 <retry\_buffer\_size> ] [ <event\_retry\_bytes> ] [ <timer\_retry\_bytes> ] [ <retries\_sent> ] [
 <retries\_dropped> ] [ { TABLE\_transport\_kafka\_all <k\_ss\_idx> [ <kafka\_broker> ] [ <kafka\_producer>
 ] [ <kafka\_encoding> ] [ <kafka\_topic> ] [ <kafka\_status> } } ] ] ]
  - OLD: show telemetry yang direct-path { all | cisco-nxos-device | openconfig-interfaces | openconfig-lldp
 | openconfig-network-instance } [ \_\_readonly\_\_ [ { TABLE\_path\_list <list\_row\_idx> <path\_name> }
 ] ]
  - NEW: show telemetry yang direct-path cisco-nxos-device [ \_\_readonly\_\_ [ { TABLE\_path\_list
 <list\_row\_idx> <path\_name> } ] ]
  - OLD: 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\_timer\_value> [ <st\_obj\_state> ] [ <st\_obj\_chg\_cnt> ] [ <st\_last\_chg\_time> ] [ <st\_threshold\_info>
 ] [ <st\_track\_list\_obj> ] + [ <st\_vrf> ] [ <st\_ipsla\_rcode> ] [ <st\_ipsla\_rtt> ] [ <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> ] +
 <st\_obj\_up\_delay> <st\_obj\_down\_delay> } <show\_track\_end> } ]
  - NEW: 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\_ms\_up> <st\_obj\_ms\_down> [ <st\_obj\_instance>
 ] <st\_obj\_param> <st\_obj\_timer\_value> [ <st\_obj\_state> ] [ <st\_obj\_chg\_cnt> ] [ <st\_last\_chg\_time>
 ] [ <st\_threshold\_info> ] [ <st\_track\_list\_obj> ] + [ <st\_vrf> ] [ <st\_ipsla\_rcode> ] [ <st\_ipsla\_rtt> ] [
 <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> ] + <st\_obj\_up\_delay> <st\_obj\_down\_delay> } <show\_track\_end> } ]
  - OLD: show version [ \_\_readonly\_\_ <header\_str> <bios\_ver\_str> [ <loader\_ver\_str> ] <kickstart\_ver\_str>
 <nxos\_ver\_str> [ <sys\_ver\_str> ] <bios\_cmpl\_time> <kick\_file\_name> <nxos\_file\_name>
 <kick\_cmpl\_time> <nxos\_cmpl\_time> <kick\_tmstmp> <nxos\_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> ] [ <slot1\_size>
 ] <kern\_uptm\_days> <kern\_uptm\_hrs> <kern\_uptm\_mins> <kern\_uptm\_secs> [ <rr\_usec> ] [ <rr\_ctime>

] <rr\_reason> <rr\_sys\_ver> <rr\_service> <plugins> <manufacturer> [ TABLE\_smu\_list <install\_smu\_id> + ] [ TABLE\_package\_list <package\_id> + ] ]

- NEW: show version [ \_\_readonly\_\_ <header\_str> <bios\_ver\_str> [ <epld\_ver\_str> ] [ <loader\_ver\_str> ] <kickstart\_ver\_str> <nxos\_ver\_str> [ <sys\_ver\_str> ] <bios\_cmpl\_time> <kick\_file\_name> <nxos\_file\_name> <kick\_cmpl\_time> <nxos\_cmpl\_time> <kick\_tmstamp> <nxos\_tmstamp> [ <isan\_file\_name> ] [ <isan\_cmpl\_time> ] [ <isan\_tmstamp> ] [ <boot\_lxc\_mode> ] <chassis\_id> [ <module\_id> ] <cpu\_name> <memory> <mem\_type> <proc\_board\_id> <host\_name> <bootflash\_size> [ <slot0\_size> ] [ <slot1\_size> ] <kern\_uptm\_days> <kern\_uptm\_hrs> <kern\_uptm\_mins> <kern\_uptm\_secs> [ <rr\_usecsec> ] [ <rr\_ctime> ] <rr\_reason> <rr\_sys\_ver> <rr\_service> <plugins> <manufacturer> [ TABLE\_smu\_list <install\_smu\_id> + ] [ TABLE\_package\_list <package\_id> + ] ]
- OLD: 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> ] ] [ TABLE\_match <module> <module\_match\_count> ] [ <nve\_vni> ] [ <nve\_vni> ] [ <label1> [ <label2> <label3> <label4> ] ] <remark> } ] [ <action> <actionid> ] ] ]
- NEW: 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\_mask> ] | <dscp\_str> ] [ [ <ttl> ] ] [ <log> ] [ <telemetry\_queue> ] [ <telemetry\_path> ] [ <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> ] ] [ TABLE\_match <module> <module\_match\_count> ] [ <nve\_vni> ] [ <nve\_vni> ] [ <label1> [ <label2> <label3> <label4> ] ] <remark> } ] [ <action> <actionid> ] ] ]
- OLD: 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> ] ] ] ]

- NEW: show vlan access-map [ <name> ] [ \_\_readonly\_\_ [ TABLE\_vacl <vacl\_name> [ TABLE\_seqno [ <seqno> ] [ <ip\_ipv6\_mac> { <match\_name> } + [ <action\_drop> ] [ <action\_log> ] [ <action\_telemetry\_queue> ] [ <action\_telemetry\_path> ] [ <action\_fwd> ] [ <action\_capture> ] [ <action\_redirect> <intf> ] ] [ <statistics> ] ] ] ] ]

## Deprecated Commands

The following commands are removed in this release.

- show forwarding [ vrf { <vrf-name> | <vrf-known-name> } | table <table\_id> ] [ ipv4 ] pss route [ module <module> ]
- 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> ] [ <eth\_l3in\_ipv4bytes> ] [ <eth\_l3in\_ipv4pkts> ] [ <eth\_l3in\_ipv6bytes> ] [ <eth\_l3in\_ipv6pkts> ] } { 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> ] [ <eth\_l3out\_ipv4bytes> ] [ <eth\_l3out\_ipv4pkts> ] [ <eth\_l3out\_ipv6bytes> ] [ <eth\_l3out\_ipv6pkts> ] } ]
- show { ip | ipv6 } eigrp [ <eigrp-ptag> ] [ internal ] event-history bfd
- show { ip | ipv6 } eigrp [ <eigrp-ptag> ] [ internal ] event-history { fsm | packet | rib }
- 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> ] ] ]
- 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-wincont> ] ] ]
- 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_rcv_seq_num_dup> <auth_rcv_seq_num_out_of_range> <auth_send_challenges_rcvd>
<auth_send_challenge_responses_sent> <auth_rcv_challenges_sent> <auth_rcv_challenge_timeouts>
<auth_rcv_challenges_resent> <auth_rcv_challenge_responses_rcvd> <auth_rcv_during_challenge>
<auth_rcv_wrong_challenge_response> <auth_rcv_challenge_response_dup>
<auth_rcv_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> <pathtear-rx>
<pathtear-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-pathtear-rx> <bundle-pathtear-tx> <bundle-resvtear-rx> <bundle-resvtear-tx> <bundle-ack-rx>
<bundle-ack-tx>]]

```

- 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> ] ] ]
- 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> ] ] ]
- show ip rsvp hello client neighbor [ detail ] [ \_\_readonly\_\_ [ TABLE\_clnt\_nbr\_sum <nbr-addr> <nbr-type> <nbr-state> <hi-state> <lsp-count> ] ]
- 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> ] ]
- 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> ] ]
- 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> ] ]
- 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> ] ] ] ]

- 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 [ <unsub-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\_fspect [ <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> ] ] ] ]
- 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 [ <unsub-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\_tspect <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> ] ] ] ] ]

- 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> ]
- show ip rsvp signalling rate-limit [ \_\_readonly\_\_ TABLE\_counters <rlim-ena> <limit> <intvl> ]
- show ip rsvp signalling refresh interval [ \_\_readonly\_\_ TABLE\_counters <interval> ]
- show ip rsvp signalling refresh misses [ \_\_readonly\_\_ TABLE\_counters <misses> ]
- show ip rsvp signalling refresh reduction [ \_\_readonly\_\_ TABLE\_counters <rr-ena> <ackdelay> <ackdelay> <epoch> [ <msgid-inuse> <msgid-alloc> <msgid-free> ] ]
- show logging level ip igmp
- show logging level mfw
- show logging level mpls traffic-eng
- show logging level plbm
- show logging level rsvp
- show logging level smartc
- show logging level tunenc\_mgr
- show mpls traffic-eng autoroute [ <ipaddr> ] [ \_\_readonly\_\_ [ <aa\_enabled> ] [ { TABLE\_dest <aa\_fa\_tun\_list\_type> <aa\_fa\_igp\_node\_id> <aa\_fa\_igp\_area\_id> <aa\_fa\_tun\_count> [ { TABLE\_tunidx <aa\_fa\_intf\_name> [ <aa\_fa\_load\_balance\_metric> ] <aa\_fa\_nexthop\_addr> [ <aa\_fa\_metric\_mode> <aa\_fa\_igp\_metric> ] <aa\_set> <fa\_set> [ <fa\_holdtime> } } ] } ] ]
- 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> ] ] ]
- 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> } } ] ]
- show mpls traffic-eng forwarding-adjacency [ <ipaddr> ] [ \_\_readonly\_\_ [ <aa\_enabled> ] [ { TABLE\_dest <aa\_fa\_tun\_list\_type> <aa\_fa\_igp\_node\_id> <aa\_fa\_igp\_area\_id> <aa\_fa\_tun\_count> [ { TABLE\_tunidx <aa\_fa\_intf\_name> [ <aa\_fa\_load\_balance\_metric> ] <aa\_fa\_nexthop\_addr> [ <aa\_fa\_metric\_mode> <aa\_fa\_igp\_metric> ] <aa\_set> <fa\_set> [ <fa\_holdtime> } } ] } ] ]
- 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\_> ]
- 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\_srlgs <link\_srlg\_number> } ] <link\_srlg\_none>





- `<pcalc_lsp_bw_alloc> <pcalc_lsp_bw_avail> ] [ TABLE_inprogress <pcalc_in_progress_pri> <pcalc_in_progress_bw> <pcalc_in_progress_sub_bw> ] ] ] ]`
- `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> ] ] ]`
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<midpoints> <tails_shown> <tails>]]

```

- show mpls traffic-eng { fast-reroute database summary | tunnels fast-reroute summary | tunnels protection summary } [ \_\_readonly\_\_ [ <fr\_num\_lsps> <fr\_num\_active\_lsps> <fr\_backup\_tunnels> <fr\_active\_intfs> ] ]
- 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\_fr\_db <protected\_tun> [ <sprint\_downlink\_name> <sprint\_tun\_protected\_bw> [ <sprint\_prot\_bw> ] [ <backup\_none> | <sprint\_tun\_backup\_name> <sprint\_tun\_lsp\_fir\_out\_active> <sprint\_tun\_fir\_protect\_level> <sprint\_tun\_fir\_out\_nnhop> ] ] } ] ] ]

- show plb [ service <service-name> ] [ brief ] [ \_\_readonly\_\_ <is\_firstentry> <is\_detail> <is\_active> <is\_firstentry\_routemap> <is\_firstentry\_standby> <is\_firstentry\_acl> <is\_lastentry> [ TABLE\_summary <service\_name> <state> [ <reason> ] <lb\_scheme> [ <interface> ] <buckets> [ <vrf\_name> ] [ <excl\_acl> ] [ <src\_interface> ] [ TABLE\_device <device\_grp> <dg\_probe> <dg\_probe\_port> ] [ TABLE\_route\_map [ <route\_map> ] <interface> <r\_status> ] [ 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> ] ] ] ] ] ]
- show plb analytics [ service <service-name> ] [ src { <sip> | <sipv6> } | node { <nip> | <nipv6> } | vip { <vip> | <vipv6> } | device-group <group-name> ] [ brief ] [ \_\_readonly\_\_ <plbshowinfo-stats-svc-hdr> [ TABLE\_stats\_svc <plbshowinfo-stats-service\_name> <plbshowinfo-stats-dev-grp> <plbshowinfo-stats-vip> <plbshowinfo-stats-vip-pkts> <plbshowinfo-stats-vip-pkts-percentage> [ <plbshowinfo-stats-ace-seq> ] [ <plbshowinfo-stats-ace-ip> ] <plbshowinfo-stats-bkt-hdr> [ TABLE\_stats\_bkt <plbshowinfo-stats-acl> [ <plbshowinfo-stats-oper-node> ] <plbshowinfo-stats-node-mode> <plbshowinfo-stats-orig-node> <plbshowinfo-stats-node-pkts> <plbshowinfo-stats-node-pkts-percentage> [ <plbshowinfo-stats-acl-pkts> ] [ <plbshowinfo-for-ace> ] ] ] <plb-show-end> [ <plb-true-end> ] ]
- show plb session device-group [ <group-name> ] [ \_\_readonly\_\_ <first\_entry> [ TABLE\_svc <node> ] ]
- show plb vrf [ <vrf-name> ] [ \_\_readonly\_\_ <plbshowinfo-vrf-hdr> { TABLE\_svc <plbshowinfo-vrf-service\_name> <plbshowinfo-vrf-name> <plbshowinfo-vrf-id> } <plb-show-end> [ <plb-true-end> ] ]
- show running-config mpls traffic-eng [ all ]
- show running-config plb-services
- show running-config rsvp
- show running-config smart-channel
- show smart-channel <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> <lb\_scheme> [ <interface> ] <state> <buckets> [ <reason> ] <vrf\_name> <userACL> [ 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> ] [ 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>]]]]]

```

- show startup-config mpls traffic-eng [ all ]
- show startup-config plb-services
- show startup-config rsvp
- show startup-config smart-channel
- show system dme status [ \_\_readonly\_\_ <dme-status> ]
- show tech-support ip rsvp [ brief ]
- show tech-support mpls traffic-eng [ brief ]
- show tech-support plb-services [ detail ]
- show tech-support smartc [ detail ]



## **New, Changed, and Deprecated Show Commands in Cisco Nexus 9000 Release 9.3(6) to 9.3(9)**

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- [New, Changed, and Deprecated Show Commands in Cisco Nexus 9000 Release 9.3\(6\) to 9.3\(9\)](#), on page 3396

# New, Changed, and Deprecated Show Commands in Cisco Nexus 9000 Release 9.3(6) to 9.3(9)

The following sections describe changes in the Cisco Nexus 9000 CLI since Release 9.3(5).

## New Commands

The following show commands are added.

- show aaa user blocked [ \_\_readonly\_\_ [ <total\_users> ] { TABLE\_sessions <u\_name> <u\_state> } ]
- show consistency-checker vxlan qinvni
- show hardware vxlan storm-control
- show ipv6 nd router adjacencies
- show ipv6 nd router iods
- show nbm info shm table flow-detail vrf { <vrf-name> | <nbm-vrf-known-name> | all } [ oif <oif-name> ] [ \_\_readonly\_\_ [ TABLE\_vrf <vrf-name> [ TABLE\_flows { <index> <mcast\_grp> <src\_ip> <iif> <bw\_mbps> <ignore\_intf> <ignore\_intf\_iod> <num\_oif> <policer\_pending> <policer> } [ TABLE\_oifs { <oif-name> <owner> <nat-count> } ] ] ] ]
- show running-config service-reflect
- show tech-support pss

## Changed Commands

The following show commands are modified.

- OLD: show [ <ip\_ipv6\_mac> ] access-lists [ <name> ] [ capture session <capture\_session> ] [ <expanded> | <summary> | <private> | <brief> | <stats-detail> ] [ \_\_readonly\_\_ TABLE\_ip\_ipv6\_mac <op\_ip\_ipv6\_mac> <show\_summary> <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\_mask> ] | <dscp\_str> ] ] [ <ttl> ] ] [ <log> ] [ <telemetry\_queue> ] [ <telemetry\_path> ] [ <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> ] ] [ TABLE\_match <module> <module\_match\_count> ] [ <nve\_vni> ] [ <remark> [ <action> <actionid> ] ] [ ethertype <ethertypeid> | vlan <vlanid> | ingress\_intf { <intfid> | <intfname> } | vlan\_priority <vlanpriorityid> ] + [ [ <stats\_enabled> ] [ <frag\_option> ] [ <ign\_rtable> ] [ <num\_ace> ] { <conf\_if\_header> } [ <conf\_if> ] { <active\_if\_header> } [ <active\_if> ] ] ] ]

- NEW: show [ <ip\_ipv6\_mac> ] access-lists [ <name> ] [ capture session <capture\_session> ] [ <expanded> | <summary> | <private> | <brief> | <stats-detail> ] [ \_\_readonly\_\_ TABLE\_ip\_ipv6\_mac <op\_ip\_ipv6\_mac> <show\_summary> <acl\_name> [ <statistics> ] [ <frag\_opt\_permit\_deny> ] [ <global\_capture\_session> ] [ <ipv6\_extn\_hdr> ] [ 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\_mask> ] | <dscp\_str> ] [ <ttl> ] [ <log> ] [ <telemetry\_queue> ] [ <telemetry\_path> ] [ <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> ] [ TABLE\_match <module> <module\_match\_count> ] [ <nve\_vni> ] [ <remark> [ <action> <actionid> ] ] [ <ethertype> <ethertypeid> | <vlan> <vlanid> | <ingress\_intf> { <intfid> | <intfname> } | <vlan\_priority> <vlanpriorityid> ] + [ <stats\_enabled> ] [ <frag\_option> ] [ <ign\_rtable> ] { <num\_ace> } { <conf\_if\_header> } [ <conf\_if> ] { <active\_if\_header> } [ <active\_if> ] ] ] ]
- OLD: show [ ip ] bgp peer-template [ <peer-template-name> ] [ \_\_readonly\_\_ { TABLE\_neighbor <templatepeer> [ <remoteas> ] [ <inherit-template> ] [ <inherit-session-template> ] [ { <prefix-parent> | <ipv6prefix-parent> | <interface-parent> } ] [ <description> ] [ <sourcecif> ] [ <connectedcheck> ] [ <lowmemexempt> ] [ <bfd> ] [ <bfdmintxinterval> ] [ <bfdminrxinterval> ] [ <bfdmultiplier> ] [ <bfdauthenticationtype> ] [ <ttlsecurity> ] [ <ttllimit> ] [ <dscp> ] [ <password> ] [ <passiveonly> ] [ <localas-inactive> ] [ <remove-privateas> ] [ <gshut-activate> ] [ <gshut-map> ] [ <configholdtime> <configkeepalivetime> ] [ TABLE\_peraf <per-afi> TABLE\_persaf <per-safi> <per-af-name> [ <tableversion> ] [ <neighbortableversion> ] [ <pfxrecvd> ] [ <pathsrecvd> ] [ <pfxbytes> ] [ <pfxtreataswithdrawn> ] [ <pfxsent> ] [ <pathssent> ] [ <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> [ <defaultoriginatormap> ] [ <defaultsent> ] [ <grpalthssaved> ] [ <firsteorrecvd> ] [ <firsteortime> ] [ <pathsflushed> ] [ <lasteorrecvtime> ] [ <lasteorsenttime> ] [ <firstconvgttime> ] [ <pfxsentfirsteor> ] [ <unsuppress-map> ] [ { TABLE\_policy\_template <preference> <inherit-policy-template> } ] [ TABLE\_vrf <vrf-name> [ TABLE\_inheritingpeer <inheritingpeer> [ <interface-parent> ] ] ] ] }
- NEW: show [ ip ] bgp peer-template [ <peer-template-name> ] [ \_\_readonly\_\_ { TABLE\_neighbor <templatepeer> [ <remoteas> ] [ <inherit-template> ] [ <inherit-session-template> ] [ { <prefix-parent> | <ipv6prefix-parent> | <interface-parent> } ] [ <description> ] [ <sourcecif> ] [ <connectedcheck> ] [ <lowmemexempt> ] [ <bfd> ] [ <bfdsessiontype> ] [ <bfdmintxinterval> ] [ <bfdminrxinterval> ] [ <bfdmultiplier> ] [ <bfdauthenticationtype> ] [ <ttlsecurity> ] [ <ttllimit> ] [ <dscp> ] [ <password> ] [ <passiveonly> ] [ <localas-inactive> ] [ <remove-privateas> ] [ <gshut-activate> ] [ <gshut-map> ] [ <configholdtime> <configkeepalivetime> ] [ TABLE\_peraf <per-afi> TABLE\_persaf <per-safi> <per-af-name> [ <tableversion> ] [ <neighbortableversion> ] [ <pfxrecvd> ] [ <pathsrecvd> ] [ <pfxbytes> ] [ <pfxtreataswithdrawn> ] [ <pfxsent> ] [ <pathssent> ] [ <conditionmap> <advertisemap> <advertisemapstatus> ] [ <insoftreconfigallowed> ] [ <insoftreconfigallowedalways> ] [ <sendcommunity>

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][<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>] [<defaultoriginatormap>] [<defaultsent>]
][<grpalthssaved>] [<firsteorrecvd>] [<firsteortime>] [<pathsflushed>] [<lasteorrecvtime>] [
<lasteorsenttime>] [<firstconvgttime>] [<pfxsentfirsteor>] [<unsuppress-map>] [{
TABLE_policy_template <preference> <inherit-policy-template> }] [TABLE_vrf <vrf-name> [
TABLE_inheritingpeer <inheritingpeer> [<interface-parent>]]] }]

```

- OLD: show bfd intfipmap [ interface <intf> address-type <addrtype> address <addr> ] [ \_\_readonly\_\_ TABLE\_ipMapTable <ciscoBfdSessInterface> <ciscoBfdSessAddrType> <ciscoBfdSessAddr> <ciscoBfdSessIpMapIndex> ]
- NEW: show bfd intfipmap [ interface <intf\_index> address-type <addrtype> address <addr> ] [ \_\_readonly\_\_ TABLE\_ipMapTable <ciscoBfdSessInterface> <ciscoBfdSessAddrType> <ciscoBfdSessAddr> <ciscoBfdSessIpMapIndex> ]
- OLD: 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> <gshut-aware> <gshut-activate> [ <gshut-map> ] <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-evpn-mpls> ] [ <vrf-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-topo-id> ] [ <vrf-encap-type> ] [ <vrf-vtep-ip> ] [ <vrf-vtep-virtual-ip> ] [ <vrf-vtep-vipr> ] [ <vrf-router-mac> ] [ <vrf-vip-router-mac> ] [ <vrf-vipr-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-configured> ] [ <vrf-rd> ] [ <vrf-secondary-rd-configured> ] [ <vrf-secondary-rd> ] [ <vrf-pending-rd> ] [ <vrf-pending-secondary-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> } ] <wait-igp-convergence> [ { 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> ] [ TABLE\_mvpn\_export\_rt <mvpn-export-rt> ] [ TABLE\_mvpn\_import\_rt <mvpn-import-rt> ] [ <af-label-mode> ] [ <af-aggregate-label> ] [ <af-alloc-index> ] [ <srv6-sid-locator-name> ] [ <srv6-sid-locator-id> ] [ <srv6-sid-locator-prefix> ] [ <srv6-sid-src-enc-address> ] [ <srv6-vrf-sid-alloc> ] [ <srv6-vrf-dt-sid> ] [ <srv6-vrf-dt-sid-alloc-pending> ] [ <srv6-vrf-dt-sid-del-pending> ] [ <srv6-vrf-sid-alloc-pending-reason> ] [ <srv6-tbl-sid-alloc> ] [ <srv6-tbl-dt-type> ] [ <srv6-tbl-dt-sid> ] [ <srv6-tbl-dt-sid-alloc-pending> ] [ <srv6-tbl-dt-sid-del-pending> ] [ <srv6-tbl-dt-sid-alloc-pending-reason> ] [ <srv6-alloc-mode> ] [ <importdefault\_prefixlimit> <importdefault\_prefixcount> <importdefault\_map> <importdefault\_advertisevpn> ] [ <import\_vrf\_advertisevpn> ] [ <exportdefault\_prefixlimit> <exportdefault\_prefixcount> <exportdefault\_map> <exportdefault\_allowvpn> ] [ <export\_vrf\_allowvpn> ] [ <af-rr> <default-information-enabled> ] [ <default-information-rd> <default-information-rt> ] [ <nexthop-trigger-delay-critical> <nexthop-trigger-delay-non-critical> ] [ <nexthop-route-map> ] } ] ]

- NEW: 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> [ <clibinarydone> <cliasciiidone> ] <isolatemode> <gshut-aware> <gshut-activate> [ <gshut-map> ] <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-evpn-mpls> ] [ <vrf-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-topo-id> ] [ <vrf-encap-type> ] [ <vrf-vtep-ip> ] [ <vrf-vtep-virtual-ip> ] [ <vrf-vtep-vipr> ] [ <vrf-router-mac> ] [ <vrf-vip-router-mac> ] [ <vrf-vipr-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-configured> ] [ <vrf-rd> ] [ <vrf-secondary-rd-configured> ] [ <vrf-secondary-rd> ] [ <vrf-pending-rd> ] [ <vrf-pending-secondary-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> } ] <wait-igp-convergence> [ { 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> ] [ TABLE\_mvpn\_export\_rt <mvpn-export-rt> ] [ TABLE\_mvpn\_import\_rt <mvpn-import-rt> ] [ <af-label-mode> ] [ <af-aggregate-label> ] [ <af-alloc-index> ] [ <srv6-sid-locator-name> ] [ <srv6-sid-locator-id> ] [ <srv6-sid-locator-prefix> ] [ <srv6-sid-src-enc-address> ] [ <srv6-vrf-sid-alloc> ] [ <srv6-vrf-dt46-sid> ] [ <srv6-vrf-dt-sid-alloc-pending> ] [ <srv6-vrf-dt-sid-del-pending> ] [ <srv6-vrf-sid-alloc-pending-reason> ] [ <srv6-tbl-sid-alloc> ] [ <srv6-tbl-dt-type> ] [ <srv6-tbl-dt-sid> ] [ <srv6-tbl-dt-sid-alloc-pending> ] [ <srv6-tbl-dt-sid-del-pending> ] [ <srv6-tbl-dt-sid-alloc-pending-reason> ] [ <srv6-alloc-mode> ] [ <importdefault\_prefixlimit> <importdefault\_prefixcount> <importdefault\_map> <importdefault\_advertisevpn> ] <import\_vrf\_advertisevpn> [ <exportdefault\_prefixlimit> <exportdefault\_prefixcount> <exportdefault\_map> <exportdefault\_allowvpn> ] <export\_vrf\_allowvpn> <af-rr> <default-information-enabled> [ <default-information-rd> <default-information-rt> ] <nexthop-trigger-delay-critical> <nexthop-trigger-delay-non-critical> [ <nexthop-route-map> ] } }
- OLD: show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] { ipv4 { unicast | multicast } | ipv6 { unicast | multicast } | all } } | vpv4 unicast | vpv6 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> | <neighbor-interface> } ] [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] [ \_\_readonly\_\_ [ TABLE\_neighbor { <neighbor> | <ipv6neighbor> | <templatepeer> | <ipv4prefixneighbor> | <ipv6prefixneighbor> | <interfaceneighbor> } [ <remoteas> ] [ <localas> ] <link> [ <peertype> ] [ <index> ] [ { TABLE\_conf-filter <discard-attr> } ] [ { TABLE\_filter <in-attr-type> <no-discard-attr> <dfilter-type> } ] [ { TABLE\_conf-wfilter <withdrawn-attr> } ] [ { TABLE\_wfilter <in-wattr-type> <no-withdrawn-attr> <wfilter-type> } ] [ TABLE\_peer <peer> ] [ <maxprefixpeers> ] [ <configpeer> ] [ <inherit-template> ] [ <inherit-session-template> ] [ { <prefix-parent> | <ipv6prefix-parent> | <interface-parent> } ] [ <description> ] [ <version> <remote-id> <prevstate> <state> <up> <vrf> [ <elapsedtime> ] [ <restarttime> ] ] [ <sourceif> ] [ <connectedif> ] [ <connectedcheck> ] [ <lowmemexempt> ] [ <bfd> ] [ <bfdmintxinterval> ] [ <bfdminrxinterval> ] [ <bfdmultiplier> ] [ <bfdauthenticationtype> ] [ <ttlsecurity> ] [ <ttllimit> ] [ <dscp> ] [ <password> ] [ <passiveonly> ] [ <activepeers> <closingpeers> <maxconcurrentpeers> ] [ <allocatedpeers> ] [ <totalpeersaccepted> ] [ <localas-inactive> ] <remove-privateas> [ <gshut-activate> ] [ <gshut-map> ] }

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- NEW: 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 | 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> |
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- OLD: show boot [ \_\_readonly\_\_ { { TABLE\_bootvar\_show <Str1> } ] [ TABLE\_Current\_Bootvar <current\_sup\_module> <current\_image> [ <current\_sup\_module> ] [ <current\_image> ] <current\_poap\_status> + ] [ TABLE\_Startup\_Bootvar <start\_sup\_module> <start\_image> [ <start\_sup\_module> ] [ <start\_image> ] <start\_poap\_status> + ] } } ]
- NEW: show boot [ \_\_readonly\_\_ { { TABLE\_bootvar\_show <Str1> } ] [ TABLE\_Current\_Bootvar <current\_sup\_module> <current\_image> [ <current\_sup\_module> ] [ <current\_image> ] <current\_poap\_status> + [ <current\_exclude\_cfg> ] ] [ TABLE\_Startup\_Bootvar <start\_sup\_module> <start\_image> [ <start\_sup\_module> ] [ <start\_image> ] <start\_poap\_status> + [ <configured\_exclude\_cfg> ] } } ]

- OLD: show consistency-checker hardware-telemetry inband { brief | detail }
- NEW: show consistency-checker hardware-telemetry inband
- OLD: show consistency-checker hardware-telemetry postcard { brief | detail }
- NEW: show consistency-checker hardware-telemetry postcard
- OLD: show forwarding multicast outgoing-interface-list { L2 | L3 | vxlan-encap | vxlan-ir-dci-encap | mvpn } [ platform ] [ module <module> ] [ <index> ] [ \_\_readonly\_\_ [ <refcount> ] [ <total\_l2\_oiflist> ] [ <total\_l3\_oiflist> ] [ <slot> ] [ TABLE\_MCAST\_OIF\_INFO <oiflist\_idx> [ <vlan> ] [ <num\_oif> ] [ TABLE\_MCAST\_OIF\_INTF\_INFO [ <intf> ] [ <dvif> ] ] [ <encap\_id> ] <hw\_oiflist\_idx> [ <mcidx> ] ] ] ]
- NEW: show forwarding multicast outgoing-interface-list { L2 | L3 | vxlan-encap | vxlan-ir-dci-encap | mvpn } [ platform ] [ module <module> ] [ <index> ] [ \_\_readonly\_\_ [ <refcount> ] [ <total\_l2\_oiflist> ] [ <total\_l3\_oiflist> ] [ <slot> ] [ TABLE\_MCAST\_OIF\_INFO [ <oiflist\_idx> ] [ <vlan> ] [ <num\_oif> ] [ TABLE\_MCAST\_OIF\_INTF\_INFO [ <intf> ] [ <dvif> ] ] [ <encap\_id> ] [ <hw\_oiflist\_idx> ] [ <mcidx> ] ] ] ]
- OLD: show forwarding nve l2 ingress-replication-peers [ ipv4 <peer\_ip> | ipv6 <v6\_peer\_ip> ] + [ \_\_readonly\_\_ [ { TABLE\_VLAN <vlan\_id> <vni> <ifindex> <plt\_space> <peer\_bmp> <peer> + } { TABLE\_PSS\_VLAN <vlan\_pss\_id> <VNI> <vtep> <peercnt> <pss\_peer\_bmp> { <pss\_peer> <marked> } + } ] + [ [ <peer> <id> <repl\_id> <oif> <hash\_algo> <path\_intf> + <vcount> <vlan\_id> + [ <path> <hash> <flags> <nh> <intf> + ] ] [ <pss\_peer> <pss\_id> <pss\_repl\_id> <pss\_oif> <pss\_hash\_algo> <pss\_path\_intf> + <pss\_vcount> <vlan\_pss\_id> + [ <pss\_path> <pss\_hash> <pss\_flags> <pss\_nh> <pss\_intf> + ] ] ] ] ]
- NEW: show forwarding nve l2 ingress-replication-peers [ ipv4 <peer\_ip> | ipv6 <v6\_peer\_ip> ] + [ \_\_readonly\_\_ [ { TABLE\_VLAN <vlan\_id> <vni> <ifindex> <plt\_space> <peer\_bmp> <peer> + } { TABLE\_PSS\_VLAN <vlan\_pss\_id> <VNI> <vtep> <peercnt> <pss\_peer\_bmp> { <pss\_peer> <marked> } + } ] + [ [ <peer> <id> <repl\_id> <oif> <hash\_algo> <path\_intf> + <vcount> <vlan\_id> + <resync\_vcount> <resync\_vlan\_id> + [ <path> <hash> <flags> <nh> <intf> + ] ] [ <pss\_peer> <pss\_id> <pss\_repl\_id> <pss\_oif> <pss\_hash\_algo> <pss\_path\_intf> + <pss\_vcount> <vlan\_pss\_id> + [ <pss\_path> <pss\_hash> <pss\_flags> <pss\_nh> <pss\_intf> + ] ] ] ] ]
- OLD: show forwarding nve l2 ingress-replication-peers { ipv4 | ipv6 } detail [ \_\_readonly\_\_ [ { TABLE\_VLAN <vlan\_id> <vni> <ifindex> <plt\_space> <peer> + } { TABLE\_PSS\_VLAN <vlan\_pss\_id> <VNI> <vtep> <peercnt> { <pss\_peer> <marked> } + } ] + [ [ <peer> <id> <repl\_id> <oif> <hash\_algo> <path\_intf> + <vcount> <vlan\_id> + [ <path> <hash> <flags> <nh> <intf> + ] ] [ <pss\_peer> <pss\_id> <pss\_repl\_id> <pss\_oif> <pss\_hash\_algo> <pss\_path\_intf> + <pss\_vcount> <vlan\_pss\_id> + [ <pss\_path> <pss\_hash> <pss\_flags> <pss\_nh> <pss\_intf> + ] ] ] ] ]
- NEW: show forwarding nve l2 ingress-replication-peers { ipv4 | ipv6 } detail [ \_\_readonly\_\_ [ { TABLE\_VLAN <vlan\_id> <vni> <ifindex> <plt\_space> <peer> + } { TABLE\_PSS\_VLAN <vlan\_pss\_id> <VNI> <vtep> <peercnt> { <pss\_peer> <marked> } + } ] + [ [ <peer> <id> <repl\_id> <oif> <hash\_algo> <path\_intf> + <vcount> <vlan\_id> + [ <resync\_vcount> <resync\_vlan\_id> + ] [ <path> <hash> <flags> <nh> <intf> + ] ] [ <pss\_peer> <pss\_id> <pss\_repl\_id> <pss\_oif> <pss\_hash\_algo> <pss\_path\_intf> + <pss\_vcount> <vlan\_pss\_id> + [ <pss\_path> <pss\_hash> <pss\_flags> <pss\_nh> <pss\_intf> + ] ] ] ] ]
- OLD: show frequency synchronization clock-interface brief [ \_\_readonly\_\_ [ TABLE\_fsycn <source\_class> <clock\_node> <clock\_id> <clock\_name> <clock\_state> <assigned\_for\_selection>

```
<ssm_support> <ssm_enabled> <loop_back> <squelched> <input_disabled> <output_disabled>
<ql_rcv_option> <ql_rcv> <ql_use_option> <ql_use> <priority> <ql_snt_option> <ql_snt>
<selected_source_class> <selected_source_ifh> <selected_source_clock_node>
<selected_source_clock_id> <selected_source_clock_name>] <fsync-end>]
```

- NEW: show frequency synchronization clock-interface brief [ \_\_readonly\_\_ [ TABLE\_fsync  

```
<clock_name> <source_class> <clock_node> <clock_id> <clock_state> <assigned_for_selection>
<ssm_support> <ssm_enabled> <loop_back> <squelched> <input_disabled> <output_disabled>
<ql_rcv_option> <ql_rcv> <ql_use_option> <ql_use> <priority> <ql_snt_option> <ql_snt>
<selected_source_class> <selected_source_ifh> <selected_source_clock_node>
<selected_source_clock_id> <selected_source_clock_name>] <fsync-end>]
```
- OLD: show frequency synchronization clock-interface detail [ \_\_readonly\_\_ [ TABLE\_fsync  

```
<source_class> <clock_node> <clock_id> <clock_name> <clock_state> <clock_type> <pd_down_reason>
<selection_input> <wtr_time> <ssm_state> <ssm_support> <input_disabled> <input_damping_state>
<input_damping_time> <cfgd_in_ql_min_option> <cfgd_in_ql_min> <cfgd_in_ql_max_option>
<cfgd_in_ql_max> <cfgd_in_ql_exact_option> <cfgd_in_ql_exact> <effective_in_ql_option>
<effective_in_ql> <priority> <tod_priority> <supp_freq> <supp_time> <loop_back> <output_disabled>
<selected_source_class> <selected_source_ifh> <selected_source_clock_node>
<selected_source_clock_id> <selected_source_clock_name> <selected_source_ql_option>
<selected_source_ql> <cfgd_out_ql_min_option> <cfgd_out_ql_min> <cfgd_out_ql_max_option>
<cfgd_out_ql_max> <cfgd_out_ql_exact_option> <cfgd_out_ql_exact> <effective_out_ql_option>
<effective_out_ql> <squelched> <num_next_seln_points> <next_selection_points> + <current_clock_end>
] <fsync-end>]
```
- NEW: show frequency synchronization clock-interface detail [ \_\_readonly\_\_ [ TABLE\_fsync  

```
<clock_name> <source_class> <clock_node> <clock_id> <clock_state> <clock_type> <pd_down_reason>
<selection_input> <wtr_time> <ssm_state> <ssm_support> <input_disabled> <input_damping_state>
<input_damping_time> <cfgd_in_ql_min_option> <cfgd_in_ql_min> <cfgd_in_ql_max_option>
<cfgd_in_ql_max> <cfgd_in_ql_exact_option> <cfgd_in_ql_exact> <effective_in_ql_option>
<effective_in_ql> <priority> <tod_priority> <supp_freq> <supp_time> <loop_back> <output_disabled>
<selected_source_class> <selected_source_ifh> <selected_source_clock_node>
<selected_source_clock_id> <selected_source_clock_name> <selected_source_ql_option>
<selected_source_ql> <cfgd_out_ql_min_option> <cfgd_out_ql_min> <cfgd_out_ql_max_option>
<cfgd_out_ql_max> <cfgd_out_ql_exact_option> <cfgd_out_ql_exact> <effective_out_ql_option>
<effective_out_ql> <squelched> <num_next_seln_points> <next_selection_points> + <current_clock_end>
] <fsync-end>]
```
- OLD: show frequency synchronization configuration errors [ \_\_readonly\_\_ [ TABLE\_fsync <fsync\_src>  

```
<enable_err> <input_min_err> <input_exact_err> <input_max_err> <output_min_err> <output_exact_err>
<output_max_err> <ext_ql_input_min_err> <ext_ql_input_exact_err> <ext_ql_input_max_err>
<ext_ql_output_min_err> <ext_ql_output_exact_err> <ext_ql_output_max_err> <input_output_mismatch>
<input_min_ql> <input_min_ql_option> <input_exact_ql> <input_exact_ql_option> <input_max_ql>
<input_max_ql_option> <output_min_ql> <output_min_ql_option> <output_exact_ql>
<output_exact_ql_option> <output_max_ql> <output_max_ql_option> <cmd_src_index>] <fsync-end>
]
```
- NEW: show frequency synchronization configuration errors [ \_\_readonly\_\_ [ TABLE\_fsync <fsync\_src>  

```
<enable_err> <input_min_err> <input_exact_err> <input_max_err> <output_min_err> <output_exact_err>
<output_max_err> <ext_ql_input_min_err> <ext_ql_input_exact_err> <ext_ql_input_max_err>
<ext_ql_output_min_err> <ext_ql_output_exact_err> <ext_ql_output_max_err> <input_output_mismatch>
<input_min_ql_option> <input_min_ql> <input_exact_ql_option> <input_exact_ql>
```

```
<input_max_ql_option> <input_max_ql> <output_min_ql_option> <output_min_ql>
<output_exact_ql_option> <output_exact_ql> <output_max_ql_option> <output_max_ql>
<cmd_src_index>] <fsync-end>]
```

- OLD: show frequency synchronization interface <if0> [ \_\_readonly\_\_ <if\_state> <selection\_input> <wtr\_time> <ssm\_state> <esmc\_peer\_state> <esmc\_peer\_time\_secs> <esmc\_peer\_time\_nsecs> <last\_ssm\_time\_secs> <last\_ssm\_time\_nsecs> <peer\_up\_count> <peer\_timeout\_count> <esmc\_infos\_sent> <esmc\_events\_sent> <esmc\_dnus\_sent> <esmc\_infos\_rcvd> <esmc\_events\_rcvd> <esmc\_dnus\_rcvd> <esmc\_malformed\_rcvd> <esmc\_rcvd\_error> <input\_damping\_state> <input\_damping\_time> <last\_rcvd\_ql\_option> <last\_rcvd\_ql> <cfgd\_in\_ql\_min\_option> <cfgd\_in\_ql\_min> <cfgd\_in\_ql\_max\_option> <cfgd\_in\_ql\_max> <cfgd\_in\_ql\_exact\_option> <cfgd\_in\_ql\_exact> <effective\_in\_ql\_option> <effective\_in\_ql> <priority> <tod\_priority> <ql\_data\_rcvd\_has\_ext\_data> <ql\_data\_rcvd\_orig\_clock\_id> <ql\_data\_rcvd\_synce\_steps> <ql\_data\_rcvd\_esynce\_steps> <ql\_data\_rcvd\_all\_steps\_synce> <ql\_data\_rcvd\_chain\_complete> <supp\_freq> <supp\_time> <selected\_source\_class> <selected\_source\_ifh> <selected\_source\_clock\_node> <selected\_source\_clock\_id> <selected\_source\_clock\_name> <selected\_source\_ql\_option> <selected\_source\_ql> <cfgd\_out\_ql\_min\_option> <cfgd\_out\_ql\_min> <cfgd\_out\_ql\_max\_option> <cfgd\_out\_ql\_max> <cfgd\_out\_ql\_exact\_option> <cfgd\_out\_ql\_exact> <effective\_out\_ql\_option> <effective\_out\_ql> <ql\_data\_to\_send\_has\_ext\_data> <ql\_data\_to\_send\_orig\_clock\_id> <ql\_data\_to\_send\_synce\_steps> <ql\_data\_to\_send\_esynce\_steps> <ql\_data\_to\_send\_all\_steps\_synce> <ql\_data\_to\_send\_chain\_complete> <sqelched> <num\_next\_seln\_points> <next\_selection\_points> + ]
- NEW: show frequency synchronization interface <if0> [ \_\_readonly\_\_ <if\_state> <selection\_input> <wtr\_time> <ssm\_state> <esmc\_peer\_state> <esmc\_peer\_time\_secs> <esmc\_peer\_time\_nsecs> <last\_ssm\_time\_secs> <last\_ssm\_time\_nsecs> <peer\_up\_count> <peer\_timeout\_count> <esmc\_infos\_sent> <esmc\_events\_sent> <esmc\_dnus\_sent> <esmc\_infos\_rcvd> <esmc\_events\_rcvd> <esmc\_dnus\_rcvd> <esmc\_malformed\_rcvd> <esmc\_rcvd\_error> <input\_damping\_state> <input\_damping\_time> [ <last\_rcvd\_ql\_option> ] [ <last\_rcvd\_ql> ] <cfgd\_in\_ql\_min\_option> <cfgd\_in\_ql\_min> <cfgd\_in\_ql\_max\_option> <cfgd\_in\_ql\_max> <cfgd\_in\_ql\_exact\_option> <cfgd\_in\_ql\_exact> [ <effective\_in\_ql\_option> ] [ <effective\_in\_ql> ] <priority> <tod\_priority> [ <ql\_data\_rcvd\_has\_ext\_data> ] [ <ql\_data\_rcvd\_orig\_clock\_id> ] [ <ql\_data\_rcvd\_synce\_steps> ] [ <ql\_data\_rcvd\_esynce\_steps> ] [ <ql\_data\_rcvd\_all\_steps\_synce> ] [ <ql\_data\_rcvd\_chain\_complete> ] <supp\_freq> <supp\_time> [ <selected\_source\_class> ] [ <selected\_source\_ifh> ] [ <selected\_source\_clock\_node> ] [ <selected\_source\_clock\_id> ] [ <selected\_source\_clock\_name> ] [ <selected\_source\_ql\_option> ] [ <selected\_source\_ql> ] <cfgd\_out\_ql\_min\_option> <cfgd\_out\_ql\_min> <cfgd\_out\_ql\_max\_option> <cfgd\_out\_ql\_max> <cfgd\_out\_ql\_exact\_option> <cfgd\_out\_ql\_exact> [ <effective\_out\_ql\_option> ] [ <effective\_out\_ql> ] [ <ql\_data\_to\_send\_has\_ext\_data> ] [ <ql\_data\_to\_send\_orig\_clock\_id> ] [ <ql\_data\_to\_send\_synce\_steps> ] [ <ql\_data\_to\_send\_esynce\_steps> ] [ <ql\_data\_to\_send\_all\_steps\_synce> ] [ <ql\_data\_to\_send\_chain\_complete> ] <sqelched> <num\_next\_seln\_points> <next\_selection\_points> + ]
- OLD: show frequency synchronization interface brief [ \_\_readonly\_\_ [ TABLE\_fsync <fsync\_port> <if\_state> <assigned\_for\_selection> <ssm\_state> <esmc\_peer\_state> <sqelched> <ql\_rcv\_option> <ql\_rcv> <ql\_use\_option> <ql\_use> <priority> <ql\_snt\_option> <ql\_snt> <selected\_source\_class> <selected\_source\_ifh> <selected\_source\_clock\_node> <selected\_source\_clock\_id> <selected\_source\_clock\_name> <port\_end> ] <fsync-end> ]
- NEW: show frequency synchronization interface brief [ \_\_readonly\_\_ [ TABLE\_fsync <fsync\_port> <if\_state> <assigned\_for\_selection> <ssm\_state> <esmc\_peer\_state> <sqelched> [ <ql\_rcv\_option> ] [ <ql\_rcv> ] [ <ql\_use\_option> ] [ <ql\_use> ] <priority> [ <ql\_snt\_option> ] [ <ql\_snt> ] [

```
<selected_source_class>][<selected_source_ifh>][<selected_source_clock_node>][
<selected_source_clock_id>][<selected_source_clock_name>] <port_end>] <fsync-end>]
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- OLD: show frequency synchronization selection [ \_\_readonly\_\_ [ TABLE\_sp <seln\_pt> <num\_inputs> <num\_inputs\_selected> <last\_programmed\_secs> <last\_programmed\_nsecs> <last\_selection\_secs> <last\_selection\_nsecs> <spa\_selection\_points> + <spa\_selection\_points\_num> <node\_selection\_points> + <node\_selection\_points\_num> <chassis\_selection\_points> + <chassis\_selection\_points\_num> <router\_selection\_points> + <router\_selection\_points\_num> <tod\_sp> <local\_line\_output> <local\_clock\_output> <local\_tod\_output> <stream\_table\_start> [ TABLE\_stream <output\_id> <input> <last\_sp> <ql> <tod\_priority> <priority> <state> ] <stream-end> ] <sp-end> ]
- NEW: show frequency synchronization selection [ \_\_readonly\_\_ [ TABLE\_sp <seln\_pt> <num\_inputs> <num\_inputs\_selected> <last\_programmed\_secs> <last\_programmed\_nsecs> <last\_selection\_secs> <last\_selection\_nsecs> [ <spa\_selection\_points> + ] [ <spa\_selection\_points\_num> ] [ <node\_selection\_points> + ] [ <node\_selection\_points\_num> ] [ <chassis\_selection\_points> + ] [ <chassis\_selection\_points\_num> ] [ <router\_selection\_points> + ] [ <router\_selection\_points\_num> ] <tod\_sp> <local\_line\_output> <local\_clock\_output> <local\_tod\_output> <stream\_table\_start> [ TABLE\_stream <output\_id> <input> <last\_sp> <ql> [ <tod\_priority> ] <priority> <state> ] <stream-end> ] <sp-end> ]
- OLD: show install all status
- NEW: show install all status [ \_\_readonly\_\_ { [ <no\_install\_status> ] [ TABLE\_installstage <rownum> <moduleid> <starttime> <stage> <stagesatus> <endtime> ] [ TABLE\_installcompatibility <compat\_module\_id> <bootable> <impact> <install\_type> [ <reason> ] ] [ TABLE\_installversion <entryid> <version\_module\_id> <image> <running\_version> <new\_version> <upg\_required> ] [ TABLE\_installadditionalinfo <add\_info> ] } ]
- OLD: show interface <ifeth\_ctr> counters [ \_\_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> ] [ <eth\_l3in\_ipv4bytes> ] [ <eth\_l3in\_ipv4pkts> ] [ <eth\_l3in\_ipv6bytes> ] [ <eth\_l3in\_ipv6pkts> ] } { 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> ] [ <eth\_l3out\_ipv4bytes> ] [ <eth\_l3out\_ipv4pkts> ] [ <eth\_l3out\_ipv6bytes> ] [ <eth\_l3out\_ipv6pkts> ] } ]
- NEW: show interface <ifeth\_ctr> counters [ \_\_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> ] [ <eth\_l3in\_ipv4bytes> ] [ <eth\_l3in\_ipv4pkts> ] [ <eth\_l3in\_ipv4ucast\_pkts> ] [ <eth\_l3in\_ipv4mcast\_pkts> ] [ <eth\_l3in\_ipv4bcast\_pkts> ] [ <eth\_l3in\_ipv6bytes> ] [ <eth\_l3in\_ipv6pkts> ] [ <eth\_l3in\_ipv6ucast\_pkts> ] [ <eth\_l3in\_ipv6mcast\_pkts> ] [ <eth\_l3in\_ipv6bcast\_pkts> ] } { 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> ] [ <eth\_l3out\_ipv4bytes> ] [ <eth\_l3out\_ipv4pkts> ] [ <eth\_l3out\_ipv4ucast\_pkts> ] [ <eth\_l3out\_ipv4mcast\_pkts> ] [ <eth\_l3out\_ipv4bcast\_pkts> ] [ <eth\_l3out\_ipv6bytes> ] [ <eth\_l3out\_ipv6pkts> ] [ <eth\_l3out\_ipv6ucast\_pkts> ] [ <eth\_l3out\_ipv6mcast\_pkts> ] [ <eth\_l3out\_ipv6bcast\_pkts> ] } } ]
- OLD: 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> ] [ <eth\_l3in\_ipv4bytes> ] [

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}]
```

- NEW: 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> ][ <eth\_l3in\_ipv4bytes> ][ <eth\_l3in\_ipv4pkts> ][ <eth\_l3in\_ipv4ucast\_pkts> ][ <eth\_l3in\_ipv4mcast\_pkts> ][ <eth\_l3in\_ipv4bcast\_pkts> ][ <eth\_l3in\_ipv6bytes> ][ <eth\_l3in\_ipv6pkts> ][ <eth\_l3in\_ipv6ucast\_pkts> ][ <eth\_l3in\_ipv6mcast\_pkts> ][ <eth\_l3in\_ipv6bcast\_pkts> ] } { 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> ][ <eth\_l3out\_ipv4bytes> ][ <eth\_l3out\_ipv4pkts> ][ <eth\_l3out\_ipv4ucast\_pkts> ][ <eth\_l3out\_ipv4mcast\_pkts> ][ <eth\_l3out\_ipv4bcast\_pkts> ][ <eth\_l3out\_ipv6bytes> ][ <eth\_l3out\_ipv6pkts> ][ <eth\_l3out\_ipv6ucast\_pkts> ][ <eth\_l3out\_ipv6mcast\_pkts> ][ <eth\_l3out\_ipv6bcast\_pkts> ] } }
- OLD: show interface <ifeth\_ctr\_po> 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> ][ <eth\_l3in\_ipv4bytes> ][ <eth\_l3in\_ipv4pkts> ][ <eth\_l3in\_ipv6bytes> ][ <eth\_l3in\_ipv6pkts> ] } { 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> ][ <eth\_l3out\_ipv4bytes> ][ <eth\_l3out\_ipv4pkts> ][ <eth\_l3out\_ipv6bytes> ][ <eth\_l3out\_ipv6pkts> ] } }
- NEW: show interface <ifeth\_ctr\_po> 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> ][ <eth\_l3in\_ipv4bytes> ][ <eth\_l3in\_ipv4pkts> ][ <eth\_l3in\_ipv4ucast\_pkts> ][ <eth\_l3in\_ipv4mcast\_pkts> ][ <eth\_l3in\_ipv4bcast\_pkts> ][ <eth\_l3in\_ipv6bytes> ][ <eth\_l3in\_ipv6pkts> ][ <eth\_l3in\_ipv6ucast\_pkts> ][ <eth\_l3in\_ipv6mcast\_pkts> ][ <eth\_l3in\_ipv6bcast\_pkts> ] } { 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> ][ <eth\_l3out\_ipv4bytes> ][ <eth\_l3out\_ipv4pkts> ][ <eth\_l3out\_ipv4ucast\_pkts> ][ <eth\_l3out\_ipv4mcast\_pkts> ][ <eth\_l3out\_ipv4bcast\_pkts> ][ <eth\_l3out\_ipv6bytes> ][ <eth\_l3out\_ipv6pkts> ][ <eth\_l3out\_ipv6ucast\_pkts> ][ <eth\_l3out\_ipv6mcast\_pkts> ][ <eth\_l3out\_ipv6bcast\_pkts> ] } }
- OLD: show interface counters [ module <module> ] [ \_\_readonly\_\_ { TABLE\_rx\_counters <interface\_rx> [ <eth\_inpkts> ][ <fc\_inframes> ][ <eth\_inbytes> ][ <fc\_inbytes> ][ <eth\_inucast> ][ <eth\_inmcast> ][ <eth\_inbcast> ][ <eth\_l3in\_bytes> ][ <eth\_l3in\_ucastpkts> ][ <eth\_l3in\_mcastpkts> ][ <eth\_l3in\_bcastpkts> ][ <eth\_l3in\_ipv4bytes> ][ <eth\_l3in\_ipv4pkts> ][ <eth\_l3in\_ipv6bytes> ][ <eth\_l3in\_ipv6pkts> ] } { 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> ][ <eth\_l3out\_ipv4bytes> ][ <eth\_l3out\_ipv4pkts> ][ <eth\_l3out\_ipv6bytes> ][ <eth\_l3out\_ipv6pkts> ] } }
- NEW: show interface counters [ module <module> ] [ \_\_readonly\_\_ { TABLE\_rx\_counters <interface\_rx> [ <eth\_inpkts> ][ <fc\_inframes> ][ <eth\_inbytes> ][ <fc\_inbytes> ][ <eth\_inucast> ][ <eth\_inmcast> ][ <eth\_inbcast> ][ <eth\_l3in\_bytes> ][ <eth\_l3in\_ucastpkts> ][ <eth\_l3in\_mcastpkts> ][ <eth\_l3in\_bcastpkts> ][ <eth\_l3in\_ipv4bytes> ][ <eth\_l3in\_ipv4pkts> ][ <eth\_l3in\_ipv4ucast\_pkts>



- OLD: show ip arp inspection log [ \_\_readonly\_\_ <log\_buff\_size> <log\_rate\_entries> <log\_rate\_interval> [ <log\_frame> ] ]
- NEW: show ip arp inspection log [ \_\_readonly\_\_ <log\_buff\_size> <log\_rate\_entries> <log\_rate\_interval> [ <log\_frame> ] + ]
- OLD: 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-crtcd> <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-skip-refresh-over-core-and-flood-to-server> <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-crtcd> <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> ] <recv-glean-count> <refresh-req-from-clients> <l2rib-signals> <adds> <dels> <timeouts> ] ]
- NEW: 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-crtcd> <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-skip-refresh-over-core-and-flood-to-server> <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-crtcd> <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> ] <recv-glean-count> <refresh-req-from-clients> <l2rib-signals> <skip-dyn-add> <adds> <dels> <timeouts> <del-dyn-stat-add> ] ]
- OLD: 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\_intfs\_hdr> <server\_id\_override> [ TABLE\_intf <smart\_relay\_enabled\_intfs> ] <subnet\_bcast\_intfs\_hdr> [ TABLE\_intf <subnet\_bcast\_enabled\_intfs> ] <trusted\_port\_intfs\_hdr> [ TABLE\_intf <trusted\_port\_enabled\_intfs> ] <relay\_src\_addr\_hsrp\_hdr> [ TABLE\_intf <src\_addr\_hsrp\_enabled\_intfs> ] <relay\_address\_hdr> [ TABLE\_intf <intf> <relay\_address> <vrf\_name> ] ]
- NEW: 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> <server_id_override> <smart_relay_intfs_hdr> [TABLE_intf
<smart_relay_enabled_intfs>] <subnet_bcast_intfs_hdr> [TABLE_intf <subnet_bcast_enabled_intfs>
] <trusted_port_intfs_hdr> [TABLE_intf <trusted_port_enabled_intfs>] <relay_src_addr_hsrp_hdr> [
TABLE_intf <src_addr_hsrp_enabled_intfs>] <relay_address_hdr> [TABLE_intf <intf> <relay_address>
<vrf_name>]]
```

- OLD: show ip igmp interface [ <interface> ] [ brief ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ serialize ] [ \_\_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> ] [ <rl> ] [ <rc> ] [ <i> ] [ <join-group-map> ] [ <static-group-map> ] [ <host-proxy> ] [ <host-proxy-group-map> ] [ <un-solicited> ] [ <unsoint> ] [ <v1rr> ] [ <v2qs> ] [ <v2qr> ] [ <v2rs> ] [ <v2rr> ] [ <v2ls> ] [ <v2lr> ] [ <v3qs> ] [ <v3qr> ] [ <v3rs> ] [ <v3rr> ] [ <v2gqdest> ] [ <v3gqdest> ] [ <cse> ] [ <ple> ] [ <lsip> ] [ <scf> ] [ <qnq> ] [ <rvm> ] [ <qvm> ] [ <uit> ] [ <v1gdam> ] [ <v2gdam> ] [ <v3dai> ] [ <ra> ] ] ] ]
- NEW: show ip igmp interface [ <interface> ] [ brief ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ serialize ] [ \_\_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> ] [ <rl> ] [ <rc> ] [ <i> ] [ <report-policy> ] [ <join-group-map> ] [ <static-group-map> ] [ <host-proxy> ] [ <host-proxy-group-map> ] [ <un-solicited> ] [ <unsoint> ] [ <v1rr> ] [ <v2qs> ] [ <v2qr> ] [ <v2rs> ] [ <v2rr> ] [ <v2ls> ] [ <v2lr> ] [ <v3qs> ] [ <v3qr> ] [ <v3rs> ] [ <v3rr> ] [ <v2gqdest> ] [ <v3gqdest> ] [ <cse> ] [ <ple> ] [ <lsip> ] [ <scf> ] [ <qnq> ] [ <rvm> ] [ <qvm> ] [ <uit> ] [ <v1gdam> ] [ <v2gdam> ] [ <v3dai> ] [ <ra> ] ] ] ]
- OLD: show ip igmp snooping statistics [ global | vlan <vlan> | bridge-domain <bidid> ] [ serialize ] [ \_\_readonly\_\_ [ <pr> ] [ <inv\_pkt> ] [ <inv\_pkt\_bd> ] [ <inv\_pkt\_no\_fd\_vxlan> ] [ <pnv> ] [ <loopbkpkt> ] [ <mrloopbk> ] [ <pf> ] [ <vpcdrqs> ] [ <vpcdrqr> ] [ <vpcdrqf> ] [ <vpcdrus> ] [ <vpcdrur> ] [ <vpcdruf> ] [ <vpccfssf> ] [ <vpccfssrs> ] [ <vpccfssrr> ] [ <vpccfssrf> ] [ <vpccfssrfp> ] [ <vpccfssurls> ] [ <vpccfssurlr> ] [ <vpccfssurlf> ] [ <vpccfssrls> ] [ <vpccfssrlr> ] [ <vpccfssrlf> ] [ <stptcnr> ] [ <imapif> ] [ <mfreqr> ] [ <mfcmpr> ] [ <inv\_iod> ] [ <mfdgcmpr> ] [ <bufsnt> ] [ <bufackr> ] [ <vpcmismatch> ] [ { TABLE\_vlan [ <vlan-id> ] [ <ut> ] [ <vpr> ] [ <v1rr> ] [ <v2rr> ] [ <v3rr> ] [ <v1qr> ] [ <v2qr> ] [ <v3qr> ] [ <v2lr> ] [ <phr> ] [ <irr> ] [ <iqr> ] [ <v1rs> ] [ <v2rs> ] [ <v2ls> ] [ <v2lsv1> ] [ <v3gs> ] [ <qo> ] [ <v2ro> ] [ <v2lo> ] [ <v3ro> ] [ <vpsr> ] [ <str> ] [ <vmr> ] [ <upr> ] [ <cps> ] [ <cpr> ] [ <cpe> ] [ <mps> ] [ <mpr> ] [ <mpe> ] [ <repflooded> ] [ <repfwded> ] [ <agd> ] [ <egd> ] [ <lvd> ] [ <qd> ] [ <pmd> ] } ] ]
- NEW: show ip igmp snooping statistics [ global | vlan <vlan> | bridge-domain <bidid> ] [ serialize ] [ \_\_readonly\_\_ [ <pr> ] [ <inv\_pkt> ] [ <inv\_pkt\_bd> ] [ <inv\_pkt\_no\_fd\_vxlan> ] [ <pnv> ] [ <loopbkpkt> ] [ <mrloopbk> ] [ <pf> ] [ <vpcdrqs> ] [ <vpcdrqr> ] [ <vpcdrqf> ] [ <vpcdrus> ] [ <vpcdrur> ] [ <vpcdruf> ] [ <vpccfssf> ] [ <vpccfssrs> ] [ <vpccfssrr> ] [ <vpccfssrf> ] [ <vpccfssrfp> ] [ <vpccfssurls> ] [ <vpccfssurlr> ] [ <vpccfssurlf> ] [ <vpccfssrls> ] [ <vpccfssrlr> ] [ <vpccfssrlf> ] [ <stptcnr> ] [ <imapif> ] [ <mfreqr> ] [ <mfcmpr> ] [ <inv\_iod> ] [ <mfdgcmpr> ] [ <bufsnt> ] [ <bufackr> ] [ <vpcmismatch> ] [ { TABLE\_vlan [ <vlan-id> ] [ <ut> ] [ <vpr> ] [ <v1rr> ] [ <v2rr> ] [ <v3rr> ] [ <v1qr> ] [ <v2qr> ] [ <v3qr> ] [ <v2lr> ] [ <phr> ] [ <irr> ] [ <illgr> ] [ <iqr> ] [ <v1rs> ] [ <v2rs> ] [ <v2ls> ] [ <v2lsv1> ] [ <v3gs> ] [ <qo> ] [ <v2ro> ] [ <v2lo> ] [ <v3ro> ] [ <vpsr> ] [ <str> ] [ <vmr> ] [ <upr> ] [ <cps> ] [ <cpr> ] [ <cpe> ] [ <mps> ] [ <mpr> ] [ <mpe> ] [ <repflooded> ] [ <repfwded> ] [ <agd> ] [ <egd> ] [ <lvd> ] [ <qd> ] [ <pmd> ] } ] ]



- OLD: 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> ] ] ] ] ]
- NEW: show ip pim config-sanity [ \_\_readonly\_\_ [ TABLE\_vrf [ <out-context> ] [ TABLE\_RP [ <rp-addr> ] [ <rperr-count> ] [ <rp-interface> ] [ <rp-error> ] [ <rp-sec-addr-err> ] ] [ 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> ] ] ] ] ]
- OLD: show ipv6 [ icmp ] mld 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> ] [ <querier> ] [ <q-ver> ] [ <next-query> ] [ <expires> ] [ <mc> ] [ <ver> ] [ <host-ver> ] [ <q1> ] [ <cqi> ] [ <mrt> ] [ <cmrt> ] [ <sqi> ] [ <csqi> ] [ <sqc> ] [ <lmrt> ] [ <lmqc> ] [ <gt> ] [ <cg> ] [ <qt> ] [ <cqt> ] [ <uri> ] [ <rv> ] [ <crv> ] [ <rll> ] [ <rc> ] [ <il> ] [ <join-group-map> ] [ <static-group-map> ] [ <v2qs> ] [ <v2qr> ] [ <v2rs> ] [ <v2rr> ] [ <v2ls> ] [ <v2lr> ] [ <v3qs> ] [ <v3qr> ] [ <v3rs> ] [ <v3rr> ] [ <v2gqdest> ] [ <v3gqdest> ] [ <cse> ] [ <ple> ] [ <lsip> ] [ <scf> ] [ <qnq> ] [ <rvm> ] [ <qvm> ] [ <uit> ] [ <v2gdam> ] [ <v3dai> ] [ <ra> ] ] ] ] ]
- NEW: show ipv6 [ icmp ] mld 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> ] [ <querier> ] [ <q-ver> ] [ <next-query> ] [ <expires> ] [ <mc> ] [ <ver> ] [ <host-ver> ] [ <q1> ] [ <cqi> ] [ <mrt> ] [ <cmrt> ] [ <sqi> ] [ <csqi> ] [ <sqc> ] [ <lmrt> ] [ <lmqc> ] [ <gt> ] [ <cg> ] [ <qt> ] [ <cqt> ] [ <uri> ] [ <rv> ] [ <crv> ] [ <rll> ] [ <rc> ] [ <il> ] [ <report-policy> ] [ <join-group-map> ] [ <static-group-map> ] [ <v2qs> ] [ <v2qr> ] [ <v2rs> ] [ <v2rr> ] [ <v2ls> ] [ <v2lr> ] [ <v3qs> ] [ <v3qr> ] [ <v3rs> ] [ <v3rr> ] [ <v2gqdest> ] [ <v3gqdest> ] [ <cse> ] [ <ple> ] [ <lsip> ] [ <scf> ] [ <qnq> ] [ <rvm> ] [ <qvm> ] [ <uit> ] [ <v2gdam> ] [ <v3dai> ] [ <ra> ] ] ] ] ]
- OLD: show ipv6 mld snooping statistics [ global | vlan <vlan> | bridge-domain <bdid> ] [ \_\_readonly\_\_ [ <pr> ] [ <inv\_pkt> ] [ <inv\_pkt\_bd> ] [ <inv\_pkt\_no\_fd\_vxlan> ] [ <pnv> ] [ <loopbkpkt> ] [ <mrloopbk> ] [ <pf> ] [ <vpcdrqs> ] [ <vpcdrqr> ] [ <vpcdrqf> ] [ <vpcdrus> ] [ <vpcdrur> ] [ <vpcdruf> ] [ <vpccfssf> ] [ <vpccfsrs> ] [ <vpccfsrr> ] [ <vpccfsrf> ] [ <vpccfsrfp> ] [ <vpccfsurl> ] [ <vpccfsurlr> ] [ <vpccfsurlf> ] [ <vpccfsrls> ] [ <vpccfsrlr> ] [ <vpccfsrlf> ] [ <stptcnr> ] [ <imapif> ] [ <mfreqr> ] [ <mfcmps> ] [ <inv\_iod> ] [ <mfdgcmps> ] [ <bufsnt> ] [ <bufackr> ] [ <vpcmismatch> ] [ { TABLE\_vlan [ <vlan-id> ] [ <ut> ] [ <vpr> ] [ <v1rr> ] [ <v2rr> ] [ <v1qr> ] [ <v2qr> ] [ <v2lr> ] [ <ph> ] [ <irr> ] [ <iqr> ] [ <v1rs> ] [ <v2rs> ] [ <v2ls> ] [ <v2lsv1> ] [ <v3gs> ] [ <qo> ] [ <v2ro> ] [ <v2lo> ] [ <v3ro> ] [ <vpsr> ] [ <str> ] [ <vmr> ] [ <upr> ] [ <cps> ] [ <cpr> ] [ <cpe> ] [ <mps> ] [ <mpr> ] [ <mpe> ] [ <repflooded> ] [ <repfwded> ] [ <agd> ] [ <egd> ] [ <lvd> ] [ <qd> ] [ <pm�> ] ] ] ]
- NEW: show ipv6 mld snooping statistics [ global | vlan <vlan> | bridge-domain <bdid> ] [ \_\_readonly\_\_ [ <pr> ] [ <inv\_pkt> ] [ <inv\_pkt\_bd> ] [ <inv\_pkt\_no\_fd\_vxlan> ] [ <pnv> ] [ <loopbkpkt> ] [ <mrloopbk> ] [ <pf> ] [ <vpcdrqs> ] [ <vpcdrqr> ] [ <vpcdrqf> ] [ <vpcdrus> ] [ <vpcdrur> ] [ <vpcdruf> ]



- NEW: show nve ethernet-segment [ summary ] [ { esi <esi-id> } ] [ \_\_readonly\_\_ [ TABLE\_es { <esi> <if-name> <es-state> [ { [ <sh-esi> ] <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> } } ] ] ]
- OLD: 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 } } } } ] ] ]
- NEW: 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> ] ] <conform-max-rate> <conform-avg-rate> <conform-max-rate-ts> [ { <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> ] <violate-max-rate> <violate-avg-rate> <violate-max-rate-ts> [ { <opt\_drop\_transmit\_violate> } | { set1 dscp3 dscp4 table1 pir-markdown-map } } } } ] ] ]
- OLD: show queuing [ interface [ <if\_list> ] ] [ summary ] [ module <module> ] [ \_\_readonly\_\_ [ TABLE\_interface\_mtu <intf\_name> <mtu\_val> ] [ TABLE\_queuing\_interface <dir> <if\_name\_str> [ <mtu\_val> ] [ TABLE\_qosgrp\_cfg <qosgrp> [ <bandwidth> ] [ <priority> ] [ <shape-min> ] [ <shape-max> ] [ <shape-units> ] [ <buffer-size> ] [ <pause-threshold> ] [ <resume-threshold> ] [ <q-limit> ] [ <q-limit-type> ] ] [ <mc-drop-pkt> ] [ 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\_egress\_stats\_entry <ep-stat-type> <ep-stat-units> <ep-stat-value> ] [ TABLE\_ingress\_stats\_entry <ip-stat-type> <ip-stat-units> <ip-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> ] ] ] ]
- NEW: show queuing [ interface [ <if\_list> ] ] [ summary ] [ module <module> ] [ \_\_readonly\_\_ [ TABLE\_interface\_mtu <intf\_name> <mtu\_val> ] [ TABLE\_queuing\_interface <dir> <if\_name\_str> [ <mtu\_val> ] [ TABLE\_qosgrp\_cfg <qosgrp> [ <bandwidth> ] [ <priority> ] [ <shape-min> ] [



- OLD: show routing ipv6 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> [ <expry\_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> [ <source\_addr> <group\_addr> ] <pending> <bidir> <uptime> <mofr> [ TABLE\_mpib [ <mpib-name> ] [ <oif-count> ] [ <stale-route> ] ] [ <mdt-encap-index> ] [ <stats-pkts> ] [ <stats-bytes> ] [ <stats-rate\_buf> ] [ <lisp-src-rloc> ] [ <nat-mode> ] [ <nat-route-type> ] [ <route-iif> ] [ <rpf-nbr> ] [ <mofr-iif> ] [ <mofr-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> ] [ <core-interest> ] [ <fabric-interest> ] ] <rpf> ] [ <route-mdt-iod> ] [ <oif-list-bitfield> ] [ <sr-count> ] [ TABLE\_sr [ <translated-route-src> ] [ <translated-route-grp> ] [ <udp-src-port> ] [ <udp-dst-port> ] [ <sr-oif> ] ] [ TABLE\_extranet [ <extranet\_vrf\_name> ] [ <extranet\_addr> ] [ <extranet\_oif\_count> ] ] ] ] ]
- NEW: show routing ipv6 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> [ <expry\_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> [ <source\_addr> <group\_addr> ] <pending> <bidir> <uptime> <uptime\_detailed> <mofr> [ TABLE\_mpib [ <mpib-name> ] [ <oif-count> ] [ <stale-route> ] ] [ <mdt-encap-index> ] [ <stats-pkts> ] [ <stats-bytes> ] [ <stats-rate\_buf> ] [ <lisp-src-rloc> ] [ <nat-mode> ] [ <nat-route-type> ] [ <route-iif> ] [ <rpf-nbr> ] [ <mofr-iif> ] [ <mofr-nbr> ] <internal> [ <oif-count> ] <fabric-oif> <fabric-loser> [ <num-vpc-svi-oifs> ] ] [ TABLE\_oif [ <oif-name> ] [ <oif-uptime> ] [ <oif-uptime-detailed> ] ] [ TABLE\_oif\_mpib [ <oif-mpib-name> ] [ <stale-oif> ] [ <omd-vpc-svi> ] [ <core-interest> ] [ <fabric-interest> ] ] <rpf> ] [ <route-mdt-iod> ] [ <oif-list-bitfield> ] [ <sr-count> ] [ TABLE\_sr [ <translated-route-src> ] [ <translated-route-grp> ] [ <udp-src-port> ] [ <udp-dst-port> ] [ <sr-oif> ] ] ] [ TABLE\_extranet [ <extranet\_vrf\_name> ] [ <extranet\_addr> ] [ <extranet\_oif\_count> ] ] ] ] ]
- OLD: show tunnel-encryption info global
- NEW: show tunnel-encryption info global [ \_\_readonly\_\_ { TABLE\_tem\_info\_global <policy\_mode> <sci\_list> <num\_active\_peers> } ]
- OLD: show tunnel-profile [ <profile-name> ] [ \_\_readonly\_\_ [ <num\_of\_profiles> ] [ <num\_of\_err\_routes> ] [ TABLE\_tunnel <profile-name> <encap-type> <src-vtep> <src-intf> <status> ] ]
- NEW: show tunnel-profile [ <profile-name> ] [ \_\_readonly\_\_ [ TABLE\_tunnel <profile-name> <num\_of\_routes> [ <num\_of\_err\_routes> ] <encap-type> <src-vtep> <src-intf> <status> ] ]

### Deprecated Show Commands

No show commands are removed.



## PART **III**

# XML Support

- [Commands with XML/JSON Support, on page 3419](#)





## Commands with XML/JSON Support

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- [XML Support for Show Commands, on page 3420](#)

# XML Support for Show Commands

Table 1:

| Show Commands                                      | XML Support |
|----------------------------------------------------|-------------|
| show aaa accounting                                | yes         |
| show aaa authentication                            | yes         |
| show aaa authentication login                      | yes         |
| show aaa authentication login ascii-authentication | yes         |
| show aaa authentication login error-enable         | yes         |
| show aaa authentication login invalid-username-log | yes         |
| show aaa authorization                             | yes         |
| show aaa bypass-user                               | yes         |
| show aaa client radius statistics                  | yes         |
| show aaa groups                                    | yes         |
| show aaa local user blocked                        | yes         |
| show aaa server radius statistics                  | yes         |
| show aaa user default-role                         | yes         |
| show access-list                                   | yes         |
| show access-list database                          | yes         |
| show access-list resource                          | yes         |
| show access-lists                                  | yes         |
| show accounting log                                | yes         |
| show accounting log all                            | yes         |
| show accounting log last-index                     | yes         |
| show accounting log nvram                          | yes         |
| show accounting log nvram last-index               | yes         |
| show accounting log nvram start-seqnum             | yes         |
| show accounting log start-seqnum                   | yes         |
| show acl status                                    | yes         |

| Show Commands                      | XML Support |
|------------------------------------|-------------|
| show amt process                   | yes         |
| show amt vrf all                   | yes         |
| show archive log config            | yes         |
| show arp access-lists              | yes         |
| show background                    | yes         |
| show banner exec                   | yes         |
| show banner motd                   | yes         |
| show bash-shell                    | yes         |
| show bfd addrmap                   | yes         |
| show bfd clients                   | yes         |
| show bfd discrmap                  | yes         |
| show bfd intfipmap                 | yes         |
| show bfd neighbors                 | yes         |
| show bfd scalar                    | yes         |
| show bfd session                   | yes         |
| show bfd-app session status        | no          |
| show bgp                           | no          |
| show bgp                           | yes         |
| show bgp bmp server                | yes         |
| show bgp community                 | yes         |
| show bgp convergence               | yes         |
| show bgp convergence private       | no          |
| show bgp dampening dampened        | yes         |
| show bgp dampening flap-statistics | yes         |
| show bgp dampening parameters      | yes         |
| show bgp event-history             | no          |
| show bgp evi                       | yes         |
| show bgp extcommunity              | yes         |

| Show Commands                      | XML Support |
|------------------------------------|-------------|
| show bgp l3vpn                     | yes         |
| show bgp neighbors                 | yes         |
| show bgp neighbors commands        | yes         |
| show bgp neighbors flap-statistics | yes         |
| show bgp neighbors paths           | yes         |
| show bgp paths                     | yes         |
| show bgp peer                      | yes         |
| show bgp peer-template             | yes         |
| show bgp prefix-list               | yes         |
| show bgp private                   | no          |
| show bgp private attr              | no          |
| show bgp private damp              | no          |
| show bgp private debug history     | no          |
| show bgp process                   | yes         |
| show bgp received-paths            | yes         |
| show bgp regexp                    | yes         |
| show bgp self-originated           | yes         |
| show bgp sessions                  | yes         |
| show bgp statistics                | yes         |
| show bgp summary                   | 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 order                    | yes         |
| show boot timings                  | no          |
| show boot variables                | yes         |

| Show Commands                                                   | XML Support |
|-----------------------------------------------------------------|-------------|
| show callhome                                                   | yes         |
| show callhome destination-profile                               | yes         |
| show callhome destination-profile profile                       | 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                                     | yes         |
| show catena                                                     | yes         |
| show catena analytics                                           | yes         |
| show cdp                                                        | yes         |
| show cdp all                                                    | yes         |
| show cdp global                                                 | yes         |
| show cdp neighbors                                              | yes         |
| show cdp neighbors detail                                       | yes         |
| show cdp traffic interface2                                     | yes         |
| show cdp traffic interface2 all                                 | yes         |
| show cfs application                                            | yes         |
| show cfs lock                                                   | yes         |
| show cfs merge status                                           | yes         |
| show cfs peers                                                  | yes         |
| show cfs regions                                                | yes         |
| show cfs status                                                 | yes         |
| show checkpoint                                                 | yes         |
| show checkpoint summary                                         | yes         |
| show class-map                                                  | yes         |
| show class-map type control-plane                               | yes         |

| Show Commands                                                     | XML Support |
|-------------------------------------------------------------------|-------------|
| show class-map type network-qos                                   | yes         |
| show cli alias                                                    | yes         |
| show cli dynamic integers                                         | yes         |
| show cli dynamic strings                                          | yes         |
| show cli dynamic-cmd                                              | no          |
| show cli history                                                  | no          |
| show cli interface table                                          | no          |
| show cli list                                                     | no          |
| show cli syntax                                                   | no          |
| show cli variables                                                | yes         |
| show clock                                                        | yes         |
| show config-profile                                               | yes         |
| show config-profile applied                                       | yes         |
| show config-replace log exec                                      | yes         |
| show config-replace status                                        | yes         |
| show config-template                                              | yes         |
| show configuration session                                        | yes         |
| show configuration session global-info                            | yes         |
| show configuration session status                                 | yes         |
| show configuration session summary                                | yes         |
| show consistency-checker copp                                     | no          |
| show consistency-checker egress-xlate private-vlan                | no          |
| show consistency-checker fex-interfaces fex                       | no          |
| show consistency-checker forwarding ipv6                          | yes         |
| show consistency-checker forwarding show forwarding inconsistency | yes         |
| show consistency-checker forwarding single-route ipv4 vrf         | no          |
| show consistency-checker gwmacdb                                  | no          |
| show consistency-checker hardware-telemetry inband brief          | no          |

| Show Commands                                                 | XML Support |
|---------------------------------------------------------------|-------------|
| show consistency-checker hardware-telemetry postcard brief    | no          |
| show consistency-checker kim                                  | no          |
| show consistency-checker kim interface                        | no          |
| show consistency-checker l2 multicast group source vlan       | no          |
| show consistency-checker l2-tahoe mac-address                 | no          |
| show consistency-checker l2-tahoe module                      | no          |
| show consistency-checker l2-tahoe switchport interface        | no          |
| show consistency-checker l3 multicast source vrf              | no          |
| show consistency-checker l3-interface module                  | no          |
| show consistency-checker link-state fabric-ieth               | no          |
| show consistency-checker link-state module                    | no          |
| show consistency-checker membership port-channels             | no          |
| show consistency-checker membership vlan                      | no          |
| show consistency-checker pacl extended ingress ip interface   | no          |
| show consistency-checker pacl extended ingress ip module      | no          |
| show consistency-checker pacl extended ingress ipv6 interface | no          |
| show consistency-checker pacl extended ingress ipv6 module    | no          |
| show consistency-checker pacl extended ingress mac interface  | no          |
| show consistency-checker pacl extended ingress mac module     | no          |
| show consistency-checker pacl module                          | no          |
| show consistency-checker pacl port-channels                   | no          |
| show consistency-checker port-state                           | no          |
| show consistency-checker port-state fabric-ieth               | no          |
| show consistency-checker racl extended egress ip interface    | no          |
| show consistency-checker racl extended egress ipv6 interface  | no          |
| show consistency-checker racl extended ingress ip interface   | no          |
| show consistency-checker racl extended ingress ip module      | no          |
| show consistency-checker racl extended ingress ipv6 interface | no          |

| Show Commands                                              | XML Support |
|------------------------------------------------------------|-------------|
| show consistency-checker racl extended ingress ipv6 module | no          |
| show consistency-checker racl module                       | no          |
| show consistency-checker racl port-channels                | no          |
| show consistency-checker racl svi interface                | no          |
| show consistency-checker segment-routing mpls ip mask vrf  | no          |
| show consistency-checker selective-qinq                    | no          |
| show consistency-checker selective-qinq interface          | no          |
| show consistency-checker stp-state vlan                    | no          |
| show consistency-checker vacl                              | no          |
| show consistency-checker vacl extended ingress ip vlan     | no          |
| show consistency-checker vacl extended ingress ipv6 vlan   | no          |
| show consistency-checker vacl extended ingress mac vlan    | no          |
| show consistency-checker vpc                               | no          |
| show consistency-checker vxlan config-check                | no          |
| show consistency-checker vxlan flood_list                  | no          |
| show consistency-checker vxlan infra                       | no          |
| show consistency-checker vxlan l2 module                   | no          |
| show consistency-checker vxlan l3 vrf start                | no          |
| show consistency-checker vxlan mh mac-addresses            | no          |
| show consistency-checker vxlan mh pathlist                 | no          |
| show consistency-checker vxlan pv                          | no          |
| show consistency-checker vxlan qinq-qinvni                 | no          |
| show consistency-checker vxlan selective-qinvni            | no          |
| show consistency-checker vxlan selective-qinvni interface  | no          |
| show consistency-checker vxlan vlan                        | no          |
| show consistency-checker vxlan xconnect                    | no          |
| show controller accounting log                             | no          |
| show copp diff profile profile2                            | no          |

| Show Commands                                 | XML Support |
|-----------------------------------------------|-------------|
| show copp profile                             | yes         |
| show copp status                              | yes         |
| show copyright                                | yes         |
| show cores                                    | yes         |
| show crypto ca certificates                   | yes         |
| show crypto ca certstore                      | yes         |
| show crypto ca crl                            | yes         |
| show crypto ca remote-certstore               | yes         |
| show crypto ca trustpoints                    | yes         |
| show crypto ca trustpool                      | yes         |
| show crypto ca trustpool last download status | yes         |
| show crypto ca trustpool policy               | yes         |
| show crypto certificatemap                    | yes         |
| show crypto key mypubkey rsa                  | yes         |
| show crypto ssh-auth-map                      | yes         |
| show cts                                      | yes         |
| show current                                  | no          |
| show dampening interface                      | yes         |
| show diagnostic bootup level                  | yes         |
| show diagnostic content module                | yes         |
| show diagnostic description module test all   | yes         |
| show diagnostic events                        | yes         |
| show diagnostic ondemand setting              | yes         |
| show diagnostic result module                 | yes         |
| show diagnostic result module all             | yes         |
| show diagnostic simulation module             | yes         |
| show diagnostic status module                 | yes         |
| show diff rollback-patch                      | yes         |

| Show Commands                                  | XML Support |
|------------------------------------------------|-------------|
| show dot1q-tunnel                              | yes         |
| show dot1q-tunnel interface                    | yes         |
| show dot1x                                     | yes         |
| show dot1x all                                 | yes         |
| show dot1x all details                         | yes         |
| show dot1x all statistics                      | yes         |
| show dot1x all summary                         | yes         |
| show dot1x interface                           | yes         |
| show dot1x interface client statistics         | yes         |
| show dot1x interface client statistics address | yes         |
| show dot1x supplicant interface                | no          |
| show ecp                                       | yes         |
| show elam report                               | no          |
| show email                                     | yes         |
| show encryption service stat                   | yes         |
| show environment                               | yes         |
| show errdisable detect                         | yes         |
| show errdisable flap                           | no          |
| show evb                                       | yes         |
| show evb hosts                                 | yes         |
| show evb vsi                                   | yes         |
| show event manager environment                 | yes         |
| show event manager event-types                 | yes         |
| show event manager events action-log           | yes         |
| show event manager history events              | yes         |
| show event manager policy-state                | yes         |
| show event manager script system               | yes         |
| show event manager system-policy               | yes         |

| Show Commands                        | XML Support |
|--------------------------------------|-------------|
| show fabric database dci             | yes         |
| show fabric database host            | yes         |
| show fabric database host statistics | yes         |
| show fabric database host summary    | yes         |
| show fabric database profile-map     | yes         |
| show fabric database static-host     | yes         |
| show fabric database statistics      | yes         |
| show fabric forwarding host-db       | yes         |
| show fabric forwarding ip local      | yes         |
| show fabric forwarding ipv6 local    | yes         |
| show fabric multicast                | yes         |
| show fabric multicast event-history  | no          |
| show fabric multicast globals        | yes         |
| show fabric multicast ipv4 l2 vni    | yes         |
| show fabric multicast ipv4 rp        | no          |
| show fabric multicast statistics     | no          |
| show fabric multicast vrf            | yes         |
| show fc2 bind                        | yes         |
| show fc2 classf                      | yes         |
| show fc2 exchange                    | yes         |
| show fc2 exchresp                    | yes         |
| show fc2 flogi                       | yes         |
| show fc2 nport                       | yes         |
| show fc2 plogi                       | yes         |
| show fc2 plogi_pwwn                  | yes         |
| show fc2 port brief                  | yes         |
| show fc2 port drops                  | yes         |
| show fc2 port state                  | yes         |

| Show Commands                   | XML Support |
|---------------------------------|-------------|
| show fc2 socket                 | yes         |
| show fc2 sockexch               | yes         |
| show fc2 socknotify             | yes         |
| show fc2 socknport              | yes         |
| show fc2 vsan                   | yes         |
| show fcdroplateny               | yes         |
| show fcoe                       | yes         |
| show fcoe database              | yes         |
| show fcoe-npv issu-impact       | yes         |
| show fctimer                    | yes         |
| show fctimer D_S_TOV            | yes         |
| show fctimer E_D_TOV            | yes         |
| show fctimer F_S_TOV            | yes         |
| show fctimer last action status | yes         |
| show fctimer pending            | yes         |
| show fctimer pending-diff       | yes         |
| show fctimer R_A_TOV            | yes         |
| show fctimer session status     | yes         |
| show fctimer status             | yes         |
| show fctimer vsan               | yes         |
| show feature                    | yes         |
| show feature-set                | yes         |
| show feature-set services       | yes         |
| show fhrp                       | yes         |
| show fhrp verbose               | yes         |
| show file                       | yes         |
| show fips status                | yes         |
| show flow cache                 | yes         |

| Show Commands                                                           | XML Support |
|-------------------------------------------------------------------------|-------------|
| show flow exporter                                                      | yes         |
| show flow filter                                                        | yes         |
| show flow interface                                                     | yes         |
| show flow monitor                                                       | yes         |
| show flow profile                                                       | yes         |
| show flow record                                                        | yes         |
| show flow rtp                                                           | yes         |
| show flow rtp timeout                                                   | yes         |
| show flow system                                                        | yes         |
| show flow timeout                                                       | yes         |
| show flow tracer                                                        | yes         |
| show forwarding                                                         | no          |
| show forwarding adjacency                                               | yes         |
| show forwarding distribution clients                                    | yes         |
| show forwarding distribution fib-state                                  | yes         |
| show forwarding distribution ip igmp snooping                           | yes         |
| show forwarding distribution ipv6 multicast route                       | yes         |
| show forwarding distribution l2 multicast                               | yes         |
| show forwarding distribution lisp counters                              | yes         |
| show forwarding distribution lisp vrf enabled                           | yes         |
| show forwarding distribution multicast                                  | yes         |
| show forwarding distribution multicast client                           | yes         |
| show forwarding distribution multicast client-ack-db                    | yes         |
| show forwarding distribution multicast download                         | no          |
| show forwarding distribution multicast mfib                             | yes         |
| show forwarding distribution multicast outgoing-interface-list          | yes         |
| show forwarding distribution multicast outgoing-interface-list L2_PRIME | yes         |
| show forwarding distribution multicast resp-ack-timer-msgs              | no          |

| Show Commands                                       | XML Support |
|-----------------------------------------------------|-------------|
| show forwarding distribution multicast route        | yes         |
| show forwarding distribution multicast vxlan dsg-db | no          |
| show forwarding distribution nve overlay-vlan       | yes         |
| show forwarding distribution peer-id                | yes         |
| show forwarding distribution trace                  | no          |
| show forwarding ecmp                                | yes         |
| show forwarding ecmp recursive                      | yes         |
| show forwarding interfaces                          | yes         |
| show forwarding ipv6 adjacency                      | yes         |
| show forwarding ipv6 inconsistency                  | yes         |
| show forwarding ipv6 multicast route                | yes         |
| show forwarding ipv6 route                          | yes         |
| show forwarding kvfib cache on                      | no          |
| show forwarding l2 multicast                        | yes         |
| show forwarding l2vpn label vpls                    | yes         |
| show forwarding l2vpn label xconnect                | yes         |
| show forwarding l2vpn vlan                          | yes         |
| show forwarding mpls                                | yes         |
| show forwarding mpls drop-stats                     | yes         |
| show forwarding mpls ecmp                           | yes         |
| show forwarding mpls eompls                         | yes         |
| show forwarding mpls eompls ir                      | yes         |
| show forwarding mpls option_b                       | yes         |
| show forwarding mpls srte module                    | yes         |
| show forwarding mpls summary                        | yes         |
| show forwarding multicast outgoing-interface-list   | yes         |
| show forwarding multicast route                     | yes         |
| show forwarding multicast-sr loopback interface     | yes         |

| Show Commands                                    | XML Support |
|--------------------------------------------------|-------------|
| show forwarding nve l2 ingress-replication-peers | yes         |
| show forwarding nve l3 adjacency tunnel          | yes         |
| show forwarding nve l3 adjacency v6-tunnel       | yes         |
| show forwarding nve l3 ecmp                      | yes         |
| show forwarding nve l3 peers                     | yes         |
| show forwarding nve underlay-interfaces          | yes         |
| show forwarding otv                              | yes         |
| show forwarding security group-tag               | yes         |
| show forwarding security mac                     | yes         |
| show forwarding trace                            | yes         |
| show forwarding trace profile                    | no          |
| show forwarding trace profile funcstats          | yes         |
| show fte event                                   | yes         |
| show fte exporter                                | yes         |
| show fte monitor                                 | yes         |
| show fte record                                  | yes         |
| show guestshell                                  | yes         |
| show hardware                                    | yes         |
| show hardware access-list lou resource threshold | yes         |
| show hardware access-list resource pooling       | yes         |
| show hardware access-list tcam                   | yes         |
| show hardware capacity                           | no          |
| show hardware capacity eobc                      | yes         |
| show hardware capacity fabric-utilization        | yes         |
| show hardware capacity forwarding                | no          |
| show hardware capacity interface                 | yes         |
| show hardware capacity module                    | yes         |
| show hardware capacity power                     | yes         |

| Show Commands                                                                        | XML Support |
|--------------------------------------------------------------------------------------|-------------|
| show hardware fabricpath mac-learning module                                         | yes         |
| show hardware feature-capability                                                     | yes         |
| show hardware flow aging                                                             | no          |
| show hardware flow entry address type                                                | no          |
| show hardware flow etrap                                                             | yes         |
| show hardware flow ip                                                                | no          |
| show hardware flow ipv6                                                              | no          |
| show hardware flow l2                                                                | no          |
| show hardware flow mpls                                                              | no          |
| show hardware flow sampler                                                           | no          |
| show hardware flow utilization                                                       | no          |
| show hardware forwarding interface statistics mode                                   | yes         |
| show hardware forwarding memory health detail                                        | yes         |
| show hardware forwarding memory health summary                                       | yes         |
| show hardware ip verify                                                              | yes         |
| show hardware profile buffer monitor show hardware profile buffer monitor internal   | yes         |
| show hardware profile forwarding-mode                                                | no          |
| show hardware profile latency monitor sampling show hardware profile latency monitor | yes         |
| show hardware profile module                                                         | yes         |
| show hardware profile packet-drop                                                    | yes         |
| show hardware profile status                                                         | yes         |
| show hardware profile tcam region                                                    | yes         |
| show hardware qos afd profile                                                        | yes         |
| show hardware qos burst-detect max-records                                           | yes         |
| show hardware qos eoq stats-class                                                    | yes         |
| show hardware qos include ipg                                                        | yes         |
| show hardware qos ing-pg-hdrm-reserve                                                | yes         |
| show hardware qos ing-pg-no-min                                                      | yes         |

| Show Commands                                         | XML Support |
|-------------------------------------------------------|-------------|
| show hardware qos ing-pg-share                        | yes         |
| show hardware qos min-buffer                          | yes         |
| show hardware qos ns-buffer-profile                   | yes         |
| show hardware qos ns-mcq3-alias                       | yes         |
| show hardware rate-limiter                            | yes         |
| show hardware rate-limiter span-egress                | yes         |
| show hardware rl snmp class-id                        | yes         |
| show hardware rl snmp global class-id                 | yes         |
| show hardware rl snmp local snmp-index class-id       | yes         |
| show hostname                                         | yes         |
| show hosts                                            | yes         |
| show hsrp                                             | yes         |
| show hsrp anycast                                     | no          |
| show hsrp anycast interface vlan                      | no          |
| show hsrp anycast remote-db                           | no          |
| show hsrp anycast summary                             | no          |
| show hsrp bfd-sessions                                | yes         |
| show hsrp delay                                       | yes         |
| show hsrp mgo                                         | yes         |
| show hsrp summary                                     | yes         |
| show icam entries acl module inst                     | yes         |
| show icam health                                      | yes         |
| show icam itd                                         | yes         |
| show icam prediction entries acl module inst          | yes         |
| show icam prediction resource acl_team mod inst trend | yes         |
| show icam prediction resource module inst             | yes         |
| show icam prediction scale                            | yes         |
| show icam resource module inst                        | yes         |

| Show Commands                       | XML Support |
|-------------------------------------|-------------|
| show icam scale                     | yes         |
| show ieth-header-decode             | no          |
| show imp client                     | no          |
| show imp client sa                  | no          |
| show inband-telemetry exporter      | yes         |
| show inband-telemetry flow-profile  | yes         |
| show inband-telemetry monitor       | yes         |
| show inband-telemetry queue-profile | yes         |
| show inband-telemetry record        | yes         |
| show inband-telemetry sessions      | yes         |
| show inband-telemetry watchlist     | yes         |
| show incompatibility system         | yes         |
| show incompatibility-all system     | yes         |
| show install                        | yes         |
| show install all failed-standby     | yes         |
| show install all failure-reason     | yes         |
| show install all impact             | no          |
| show install all impact epld        | yes         |
| show install all status             | no          |
| show install all time-stats         | no          |
| show install epld status            | yes         |
| show install log                    | yes         |
| show install mode                   | yes         |
| show install packages               | yes         |
| show install patches                | yes         |
| show interface                      | yes         |
| show interface bbcredit             | yes         |
| show interface brief                | yes         |

| Show Commands                           | XML Support |
|-----------------------------------------|-------------|
| show interface cable-diagnostics-tdr    | yes         |
| show interface capabilities             | yes         |
| show interface counters                 | yes         |
| show interface counters brief           | yes         |
| show interface counters detailed        | yes         |
| show interface counters detailed all    | yes         |
| show interface counters detailed all    | no          |
| show interface counters detailed all    | yes         |
| show interface counters detailed cached | yes         |
| show interface counters details         | yes         |
| show interface counters errors          | yes         |
| show interface counters errors          | no          |
| show interface counters snmp            | yes         |
| show interface counters storm-control   | yes         |
| show interface counters table           | yes         |
| show interface counters table verbose   | yes         |
| show interface counters trunk           | yes         |
| show interface dampening                | yes         |
| show interface debounce                 | yes         |
| show interface description              | yes         |
| show interface detail-counters          | yes         |
| show interface eltm lif-info            | no          |
| show interface fcoe                     | yes         |
| show interface fec                      | yes         |
| show interface flowcontrol              | yes         |
| show interface hardware-mappings        | no          |
| show interface mac-address              | yes         |
| show interface priority-flow-control    | yes         |

| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show interface private-vlan mapping   | yes         |
| show interface pruning                | yes         |
| show interface snmp-ifindex           | yes         |
| show interface status                 | yes         |
| show interface status err-disabled    | yes         |
| show interface status err-vlans       | yes         |
| show interface switchport             | yes         |
| show interface switchport backup      | yes         |
| show interface transceiver            | yes         |
| show interface transceiver fex-fabric | yes         |
| show interface trunk                  | yes         |
| show interface trunk vsan             | yes         |
| show interface untagged-cos           | yes         |
| show interface vlan mapping           | yes         |
| show inventory                        | yes         |
| show ip adjacency                     | yes         |
| show ip amt relay                     | yes         |
| show ip amt route                     | yes         |
| show ip amt tunnel                    | yes         |
| show ip arp                           | yes         |
| show ip arp anycast topo-info         | yes         |
| show ip arp client                    | yes         |
| show ip arp controller-statistics     | yes         |
| show ip arp esi                       | yes         |
| show ip arp inspection                | yes         |
| show ip arp inspection interfaces     | yes         |
| show ip arp inspection log            | yes         |
| show ip arp inspection statistics     | yes         |

| Show Commands                                  | XML Support |
|------------------------------------------------|-------------|
| show ip arp inspection vlan                    | yes         |
| show ip arp l2 statistics interface            | yes         |
| show ip arp multihoming-statistics             | yes         |
| show ip arp off-list                           | yes         |
| show ip arp open-flow error-statistics         | yes         |
| show ip arp statistics                         | yes         |
| show ip arp suppression topo-info              | yes         |
| show ip arp suppression-cache                  | yes         |
| show ip arp tunnel-statistics                  | yes         |
| show ip arp vpc-statistics                     | yes         |
| show ip as-path-access-list                    | yes         |
| show ip client                                 | yes         |
| show ip community-list                         | yes         |
| show ip debug                                  | no          |
| show ip dhcp global statistics                 | yes         |
| show ip dhcp option82 suboption info interface | yes         |
| show ip dhcp relay                             | yes         |
| show ip dhcp relay address                     | yes         |
| show ip dhcp relay information trusted-sources | yes         |
| show ip dhcp relay statistics                  | yes         |
| show ip dhcp snooping                          | yes         |
| show ip dhcp snooping binding                  | no          |
| show ip dhcp snooping statistics               | no          |
| show ip dhcp status                            | yes         |
| show ip dns source-interface                   | yes         |
| show ip dns source-interface vrf all           | yes         |
| show ip eigrp                                  | yes         |
| show ip eigrp accounting                       | yes         |

| Show Commands                                              | XML Support |
|------------------------------------------------------------|-------------|
| show ip eigrp detail                                       | no          |
| show ip eigrp event-history                                | no          |
| show ip eigrp event-history bfd                            | no          |
| show ip eigrp interfaces                                   | yes         |
| show ip eigrp route-map statistics                         | yes         |
| show ip eigrp traffic                                      | yes         |
| show ip extcommunity-list                                  | yes         |
| show ip fib adjacency                                      | yes         |
| show ip fib distribution                                   | no          |
| show ip fib distribution capture                           | yes         |
| show ip fib distribution clients                           | yes         |
| show ip fib distribution mroute                            | yes         |
| show ip fib distribution multicast                         | yes         |
| show ip fib distribution multicast outgoing-interface-list | yes         |
| show ip fib distribution state                             | yes         |
| show ip ftp source-interface                               | yes         |
| show ip ftp source-interface vrf all                       | yes         |
| show ip http source-interface                              | yes         |
| show ip http source-interface vrf all                      | yes         |
| show ip igmp event-history                                 | no          |
| show ip igmp groups                                        | yes         |
| show ip igmp interface                                     | yes         |
| show ip igmp local-groups                                  | yes         |
| show ip igmp policy statistics reports                     | yes         |
| show ip igmp snooping                                      | yes         |
| show ip igmp snooping event-history                        | no          |
| show ip igmp snooping explicit-tracking                    | yes         |
| show ip igmp snooping filter details                       | yes         |

| Show Commands                           | XML Support |
|-----------------------------------------|-------------|
| show ip igmp snooping groups            | yes         |
| show ip igmp snooping lookup-mode       | yes         |
| show ip igmp snooping mac-oif           | yes         |
| show ip igmp snooping mrouter           | yes         |
| show ip igmp snooping pw vlan brief     | yes         |
| show ip igmp snooping querier           | yes         |
| show ip igmp snooping report statistics | yes         |
| show ip igmp snooping statistics        | yes         |
| show ip igmp vrf all                    | yes         |
| show ip interface                       | yes         |
| show ip lisp                            | no          |
| show ip lisp data-cache                 | no          |
| show ip lisp locator-hash               | no          |
| show ip lisp map-cache                  | no          |
| show ip lisp statistics                 | no          |
| show ip lisp translate-cache            | no          |
| show ip load-sharing                    | yes         |
| show ip local policy                    | yes         |
| show ip logging                         | yes         |
| show ip mbgp                            | no          |
| show ip mbgp community                  | no          |
| show ip mbgp dampening                  | no          |
| show ip mbgp extcommunity               | no          |
| show ip mbgp flap-statistics            | no          |
| show ip mbgp neighbors                  | no          |
| show ip mbgp nexthop                    | no          |
| show ip mbgp nexthop-database           | no          |
| show ip mbgp prefix-list                | no          |

| Show Commands                               | XML Support |
|---------------------------------------------|-------------|
| show ip mbgp received-paths                 | no          |
| show ip mroute                              | yes         |
| show ip msdp count                          | yes         |
| show ip msdp event-history                  | no          |
| show ip msdp mesh-group                     | yes         |
| show ip msdp peer                           | yes         |
| show ip msdp policy statistics sa-policy in | yes         |
| show ip msdp rpf                            | yes         |
| show ip msdp sa                             | yes         |
| show ip msdp sources                        | yes         |
| show ip msdp statistics                     | yes         |
| show ip msdp summary                        | yes         |
| show ip nat max                             | yes         |
| show ip nat statistics                      | yes         |
| show ip nat timeout                         | yes         |
| show ip nat translations                    | yes         |
| show ip nat-alias                           | yes         |
| show ip ospf                                | yes         |
| show ip ospf border-routers                 | yes         |
| show ip ospf database                       | yes         |
| show ip ospf database database-summary      | yes         |
| show ip ospf database detail                | yes         |
| show ip ospf event-history                  | no          |
| show ip ospf event-history detail           | no          |
| show ip ospf interface                      | yes         |
| show ip ospf interface brief                | yes         |
| show ip ospf lsa-content-changed-list       | yes         |
| show ip ospf neighbors                      | yes         |

| Show Commands                                 | XML Support |
|-----------------------------------------------|-------------|
| show ip ospf neighbors detail                 | yes         |
| show ip ospf neighbors summary                | yes         |
| show ip ospf policy statistics                | yes         |
| show ip ospf request-list                     | yes         |
| show ip ospf retransmission-list              | yes         |
| show ip ospf route                            | yes         |
| show ip ospf route summary                    | yes         |
| show ip ospf segment-routing adj-sid-database | yes         |
| show ip ospf segment-routing global-block     | yes         |
| show ip ospf segment-routing sid-database     | yes         |
| show ip ospf sham-links                       | yes         |
| show ip ospf sham-links brief                 | yes         |
| show ip ospf statistics                       | yes         |
| show ip ospf summary-address                  | yes         |
| show ip ospf traffic                          | yes         |
| show ip ospf virtual-links                    | yes         |
| show ip ospf virtual-links brief              | yes         |
| show ip pim config-sanity                     | yes         |
| show ip pim df                                | yes         |
| show ip pim event-history                     | no          |
| show ip pim fabric info                       | yes         |
| show ip pim fabric legacy-vlans               | yes         |
| show ip pim group-range                       | yes         |
| show ip pim host-proxy                        | yes         |
| show ip pim interface                         | yes         |
| show ip pim mdt                               | yes         |
| show ip pim mdt bgp                           | yes         |
| show ip pim mdt history interval              | yes         |

| Show Commands                                        | XML Support |
|------------------------------------------------------|-------------|
| show ip pim mdt receive                              | yes         |
| show ip pim mdt send                                 | yes         |
| show ip pim neighbor                                 | yes         |
| show ip pim oif-list                                 | yes         |
| show ip pim policy statistics                        | yes         |
| show ip pim policy statistics jp                     | yes         |
| show ip pim route                                    | yes         |
| show ip pim rp                                       | yes         |
| show ip pim rp-hash                                  | yes         |
| show ip pim statistics                               | yes         |
| show ip pim vrf                                      | yes         |
| show ip ping source-interface                        | yes         |
| show ip ping source-interface vrf all                | yes         |
| show ip policy                                       | yes         |
| show ip prefix-list                                  | yes         |
| show ip process                                      | yes         |
| show ip rip                                          | yes         |
| show ip rip interface                                | yes         |
| show ip rip neighbor                                 | yes         |
| show ip rip policy statistics redistribute           | yes         |
| show ip rip route                                    | yes         |
| show ip rip statistics                               | yes         |
| show ip route                                        | yes         |
| show ip rsvp                                         | yes         |
| show ip sla application                              | yes         |
| show ip sla configuration                            | yes         |
| show ip sla enhanced-history collection-statistics   | yes         |
| show ip sla enhanced-history distribution-statistics | yes         |

| Show Commands                               | XML Support |
|---------------------------------------------|-------------|
| show ip sla group schedule                  | yes         |
| show ip sla history                         | yes         |
| show ip sla reaction-configuration          | yes         |
| show ip sla reaction-trigger                | yes         |
| show ip sla responder                       | yes         |
| show ip sla statistics                      | yes         |
| show ip sla twamp connection detail         | yes         |
| show ip sla twamp connection requests       | yes         |
| show ip sla twamp session                   | yes         |
| show ip sla twamp standards                 | yes         |
| show ip ssh source-interface                | yes         |
| show ip ssh source-interface vrf all        | yes         |
| show ip static-route                        | yes         |
| show ip tcp mss                             | yes         |
| show ip telnet source-interface             | yes         |
| show ip telnet source-interface vrf all     | yes         |
| show ip tftp source-interface               | yes         |
| show ip tftp source-interface vrf all       | yes         |
| show ip traceroute source-interface         | yes         |
| show ip traceroute source-interface vrf all | yes         |
| show ip traffic                             | yes         |
| show ip udp relay                           | yes         |
| show ip udp relay interface                 | yes         |
| show ip udp relay object-group              | yes         |
| show ip verify source                       | yes         |
| show ipv6 adjacency                         | yes         |
| show ipv6 adjacency aggregate-prefix        | yes         |
| show ipv6 adjacency subnet-prefix           | yes         |

| Show Commands                        | XML Support |
|--------------------------------------|-------------|
| show ipv6 amt tunnel                 | yes         |
| show ipv6 bgp                        | no          |
| show ipv6 bgp community              | no          |
| show ipv6 bgp dampening              | no          |
| show ipv6 bgp extcommunity           | no          |
| show ipv6 bgp flap-statistics        | no          |
| show ipv6 bgp neighbors              | no          |
| show ipv6 bgp nexthop                | no          |
| show ipv6 bgp nexthop-database       | no          |
| show ipv6 bgp received-paths         | no          |
| show ipv6 bgp regexp                 | no          |
| show ipv6 bgp summary                | no          |
| show ipv6 client                     | yes         |
| show ipv6 dhcp guard policy          | yes         |
| show ipv6 dhcp relay                 | yes         |
| show ipv6 dhcp relay statistics      | yes         |
| show ipv6 eigrp route-map statistics | yes         |
| show ipv6 fragments                  | yes         |
| show ipv6 icmp                       | yes         |
| show ipv6 icmp global traffic        | yes         |
| show ipv6 icmp interface             | yes         |
| show ipv6 icmp l2 statistics         | yes         |
| show ipv6 icmp nd local-proxy stats  | yes         |
| show ipv6 icmp off-list              | yes         |
| show ipv6 icmp vaddr                 | yes         |
| show ipv6 icmp vpc-statistics        | yes         |
| show ipv6 interface                  | yes         |
| show ipv6 lisp data-cache            | no          |

| Show Commands                      | XML Support |
|------------------------------------|-------------|
| show ipv6 local policy             | yes         |
| show ipv6 mld groups               | yes         |
| show ipv6 mld local-groups         | yes         |
| show ipv6 mroute                   | yes         |
| show ipv6 mtu                      | yes         |
| show ipv6 nd ra dns search-list    | yes         |
| show ipv6 nd ra dns server         | yes         |
| show ipv6 nd rguard policy         | yes         |
| show ipv6 neighbor binding         | no          |
| show ipv6 neighbor binding mac     | no          |
| show ipv6 neighbor static          | yes         |
| show ipv6 pim df                   | yes         |
| show ipv6 pim event-history        | no          |
| show ipv6 pim fabric info          | yes         |
| show ipv6 pim fabric legacy-vlans  | yes         |
| show ipv6 pim group-range          | yes         |
| show ipv6 pim interface            | yes         |
| show ipv6 pim neighbor             | yes         |
| show ipv6 pim oif-list             | yes         |
| show ipv6 pim policy statistics jp | yes         |
| show ipv6 pim route                | yes         |
| show ipv6 pim rp                   | yes         |
| show ipv6 pim rp-hash              | yes         |
| show ipv6 pim statistics           | yes         |
| show ipv6 pim vrf                  | yes         |
| show ipv6 policy                   | yes         |
| show ipv6 prefix-list              | yes         |
| show ipv6 process                  | yes         |

| Show Commands                                | XML Support |
|----------------------------------------------|-------------|
| show ipv6 rguard statistics                  | yes         |
| show ipv6 rip policy statistics redistribute | yes         |
| show ipv6 route                              | yes         |
| show ipv6 routers                            | yes         |
| show ipv6 snooping capture-policy            | yes         |
| show ipv6 snooping counters vlan             | yes         |
| show ipv6 snooping events                    | yes         |
| show ipv6 snooping features                  | yes         |
| show ipv6 snooping messages                  | yes         |
| show ipv6 snooping policies                  | yes         |
| show ipv6 snooping policy                    | yes         |
| show ipv6 snooping pss database              | yes         |
| show ipv6 static-route                       | yes         |
| show ipv6 traffic                            | yes         |
| show isis                                    | yes         |
| show isis adjacency                          | yes         |
| show isis csnp                               | yes         |
| show isis database                           | yes         |
| show isis distribute-ls                      | yes         |
| show isis dynamic-flooding                   | yes         |
| show isis event-history                      | no          |
| show isis hostname                           | yes         |
| show isis interface                          | yes         |
| show isis ipv6 redistribute route            | yes         |
| show isis ipv6 route                         | yes         |
| show isis ipv6 route-map statistics          | yes         |
| show isis ipv6 summary-address               | yes         |
| show isis lslib                              | no          |

| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show isis lsp free-list               | no          |
| show isis mesh-group                  | yes         |
| show isis non tlv overflow-list       | no          |
| show isis redistribute route          | yes         |
| show isis route                       | yes         |
| show isis route-map statistics        | yes         |
| show isis rrm                         | yes         |
| show isis segment-routing mapcache    | yes         |
| show isis segment-routing remote-srgb | yes         |
| show isis segment-routing sids        | yes         |
| show isis spf-log                     | yes         |
| show isis srm                         | yes         |
| show isis ssn                         | yes         |
| show isis statistics                  | yes         |
| show isis summary-address             | yes         |
| show isis topology                    | yes         |
| show isis traffic                     | yes         |
| show itd                              | yes         |
| show itd session device-group         | yes         |
| show itd statistics                   | yes         |
| show itd vrf                          | yes         |
| show key chain                        | yes         |
| show key chain mode decrypt           | yes         |
| show keystore                         | yes         |
| show kim inconsistency                | no          |
| show kubernetes containers            | no          |
| show l2 mroute                        | yes         |
| show l2 multicast ftag                | yes         |

| Show Commands                          | XML Support |
|----------------------------------------|-------------|
| show l2 multicast trees                | yes         |
| show l2 route                          | yes         |
| show l2fwder l2rib info                | no          |
| show l2fwder statistics                | no          |
| show l2rib clients                     | yes         |
| show l2rib producers                   | yes         |
| show l2rib registrations               | yes         |
| show l2route cmcast topology           | yes         |
| show l2route evpn ead all              | yes         |
| show l2route evpn ethernet-segment esi | yes         |
| show l2route evpn fl all               | yes         |
| show l2route evpn fl evi               | yes         |
| show l2route evpn imet all             | yes         |
| show l2route evpn imet evi             | yes         |
| show l2route evpn mac all              | yes         |
| show l2route evpn mac evi              | yes         |
| show l2route evpn mac-ip all           | yes         |
| show l2route evpn mac-ip evi           | yes         |
| show l2route evpn path-list all        | yes         |
| show l2route evpn startup-route all    | yes         |
| show l2route evpn startup-route evi    | yes         |
| show l2route fl topology               | yes         |
| show l2route peerid                    | yes         |
| show l2route summary                   | yes         |
| show l2route topology                  | yes         |
| show lacp counters                     | yes         |
| show lacp interface                    | yes         |
| show lacp issu-impact                  | yes         |

| Show Commands                        | XML Support |
|--------------------------------------|-------------|
| show lacp neighbor                   | yes         |
| show lacp port-channel               | yes         |
| show lacp system-identifier          | yes         |
| show lcmd stats interface            | no          |
| show ldap-search-map                 | yes         |
| show ldap-server                     | yes         |
| show ldap-server groups              | yes         |
| show ldap-server statistics          | yes         |
| show license                         | yes         |
| show license brief                   | yes         |
| show license default                 | yes         |
| show license feature package mapping | yes         |
| show license file                    | yes         |
| show license host-id                 | yes         |
| show license tech support            | no          |
| show license usage                   | yes         |
| show line                            | yes         |
| show line console                    | yes         |
| show line console connected          | yes         |
| show line console user-input-string  | yes         |
| show lisp ddt                        | no          |
| show lisp ddt queue                  | no          |
| show lisp ddt referral-cache         | no          |
| show lisp dynamic-eid                | no          |
| show lisp elp                        | no          |
| show lisp negative-prefix            | no          |
| show lisp proxy-itr                  | no          |
| show lisp site                       | no          |

| Show Commands                      | XML Support |
|------------------------------------|-------------|
| show lisp site instance-id         | no          |
| show lldp all                      | yes         |
| show lldp dcba interface           | yes         |
| show lldp entry                    | yes         |
| show lldp interface                | yes         |
| show lldp neighbors                | yes         |
| show lldp neighbors detail         | yes         |
| show lldp neighbors system-detail  | yes         |
| show lldp portid-subtype           | yes         |
| show lldp timers                   | yes         |
| show lldp tlv-select               | yes         |
| show lldp traffic                  | yes         |
| show lldp traffic interface        | yes         |
| show lldp traffic interface all    | yes         |
| show locator-led status            | yes         |
| show logging                       | no          |
| show logging console               | no          |
| show logging dropcount             | no          |
| show logging info                  | yes         |
| show logging ip access-list cache  | yes         |
| show logging ip access-list status | yes         |
| show logging last                  | no          |
| show logging level                 | yes         |
| show logging level                 | no          |
| show logging level aaa             | no          |
| show logging level acllog          | no          |
| show logging level aclmgr          | no          |
| show logging level adbm            | no          |

| Show Commands                            | XML Support |
|------------------------------------------|-------------|
| show logging level adjmgr                | no          |
| show logging level amt                   | no          |
| show logging level arp                   | no          |
| show logging level ascii-cfg             | no          |
| show logging level assoc_mgr             | no          |
| show logging level backup                | 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 logging level capability            | no          |
| show logging level catena                | no          |
| show logging level cdp                   | 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 cts                   | no          |
| show logging level dhcp_snoop            | no          |
| show logging level diagnostic diagclient | no          |
| show logging level diagnostic diagmgr    | no          |
| show logging level dot1x                 | no          |
| show logging level ecp                   | no          |
| show logging level eigrp                 | no          |

| Show Commands                           | XML Support |
|-----------------------------------------|-------------|
| show logging level eltm                 | no          |
| show logging level epp                  | no          |
| show logging level ethdstats            | no          |
| show logging level ethpm                | no          |
| show logging level evb                  | no          |
| show logging level evmc                 | no          |
| show logging level evmed                | no          |
| show logging level evms                 | no          |
| show logging level fabric forwarding    | no          |
| show logging level fabricpath isis      | no          |
| show logging level fabricpath switch-id | no          |
| show logging level fcoe_mgr             | no          |
| show logging level feature-mgr          | no          |
| show logging level fs-daemon            | no          |
| show logging level gpixm                | no          |
| show logging level hardware-telemetry   | no          |
| show logging level hsrp                 | no          |
| show logging level icam                 | no          |
| show logging level im                   | no          |
| show logging level imp                  | no          |
| show logging level interface-vlan       | no          |
| show logging level ip igmp              | no          |
| show logging level ip msdp              | no          |
| show logging level ip sla responder     | no          |
| show logging level ip sla sender        | no          |
| show logging level ip sla twamp-server  | no          |
| show logging level ipconf               | no          |
| show logging level ipfib                | no          |

| <b>Show Commands</b>                | <b>XML Support</b> |
|-------------------------------------|--------------------|
| show logging level ipqos            | no                 |
| show logging level ipv6 icmp        | no                 |
| show logging level iscm             | no                 |
| show logging level isis             | no                 |
| show logging level keystore         | no                 |
| show logging level l2fm             | no                 |
| show logging level l3vm             | no                 |
| show logging level lacp             | no                 |
| show logging level ldap             | no                 |
| show logging level license          | no                 |
| show logging level lim              | no                 |
| show logging level lisp             | no                 |
| show logging level lldp             | no                 |
| show logging level m2rib            | no                 |
| show logging level mfdm             | no                 |
| show logging level mfw              | no                 |
| show logging level mmode            | no                 |
| show logging level module           | no                 |
| show logging level monitor          | no                 |
| show logging level mpls ldp         | no                 |
| show logging level mpls manager     | no                 |
| show logging level mpls switching   | no                 |
| show logging level mpls traffic-eng | no                 |
| show logging level mvsh             | no                 |
| show logging level nat              | no                 |
| show logging level nbm              | no                 |
| show logging level netstack         | no                 |
| show logging level nfm              | no                 |

| Show Commands                     | XML Support |
|-----------------------------------|-------------|
| show logging level ngmvpn         | no          |
| show logging level ngoam          | no          |
| show logging level npv            | no          |
| show logging level ntp            | no          |
| show logging level nve            | no          |
| show logging level nxsdk          | no          |
| show logging level openflow       | no          |
| show logging level ospf           | no          |
| show logging level ospfv3         | no          |
| show logging level otv            | no          |
| show logging level pfstat         | no          |
| show logging level pim            | no          |
| show logging level pixm           | no          |
| show logging level pktmgr         | no          |
| show logging level platform       | no          |
| show logging level plbm           | no          |
| show logging level plcmgr         | no          |
| show logging level pltfm_config   | no          |
| show logging level plugin         | no          |
| show logging level poap           | no          |
| show logging level poed           | no          |
| show logging level port           | no          |
| show logging level port-channel   | no          |
| show logging level port-profile   | no          |
| show logging level port-resources | no          |
| show logging level port-security  | no          |
| show logging level private-vlan   | no          |
| show logging level ptp            | no          |

| <b>Show Commands</b>                      | <b>XML Support</b> |
|-------------------------------------------|--------------------|
| show logging level radius                 | no                 |
| show logging level res_mgr                | no                 |
| show logging level rip                    | no                 |
| show logging level routing ipv6 multicast | no                 |
| show logging level routing multicast      | no                 |
| show logging level rpm                    | no                 |
| show logging level rsvp                   | no                 |
| show logging level sal                    | no                 |
| show logging level san-port-channel       | no                 |
| show logging level scheduler              | no                 |
| show logging level security               | no                 |
| show logging level segment-routing        | no                 |
| show logging level session-mgr            | no                 |
| show logging level sflow                  | no                 |
| show logging level smartc                 | 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 tacacs                 | no                 |
| show logging level telemetry              | no                 |
| show logging level template_manager       | no                 |
| show logging level track                  | no                 |
| show logging level tunnel                 | no                 |
| show logging level u2rib                  | no                 |

| Show Commands                      | XML Support |
|------------------------------------|-------------|
| show logging level u6rib           | no          |
| show logging level udld            | 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 vmtracker       | no          |
| show logging level vpc             | no          |
| show logging level vrrp-cfg        | no          |
| show logging level vrrp-eng        | no          |
| show logging level vrrpv3          | no          |
| show logging level vsan            | no          |
| show logging level vshd            | no          |
| show logging level vtp             | no          |
| show logging level wwn             | no          |
| show logging level xbar            | no          |
| show logging logfile               | no          |
| show logging logfile duration      | no          |
| show logging logfile last-index    | no          |
| show logging logfile start-seqn    | no          |
| show logging logfile start-time    | no          |
| show logging loopback              | no          |
| show logging module                | no          |
| show logging monitor               | no          |
| show logging nvram                 | yes         |
| show logging onboard               | no          |

| Show Commands                                | XML Support |
|----------------------------------------------|-------------|
| show logging onboard kernel-trace            | no          |
| show logging origin-id                       | no          |
| show logging pending                         | no          |
| show logging pending-diff                    | no          |
| show logging rate-limit                      | no          |
| show logging rfc-strict                      | 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 on-failure log                    | yes         |
| show login on-successful log                 | yes         |
| show mac address-table                       | yes         |
| show mac address-table aging-time            | yes         |
| show mac address-table count                 | yes         |
| show mac address-table count es              | yes         |
| show mac address-table learning-mode         | yes         |
| show mac address-table limit                 | yes         |
| show mac address-table limit user-defined    | yes         |
| show mac address-table loop-detect           | yes         |
| show mac address-table multicast             | yes         |
| show mac address-table notification mac-move | yes         |
| show mac scalar                              | yes         |
| show mac-list                                | yes         |
| show macsec mka                              | yes         |
| show macsec mka session                      | yes         |
| show macsec mka statistics                   | yes         |

| Show Commands                            | XML Support |
|------------------------------------------|-------------|
| show macsec policy                       | yes         |
| show macsec secy statistics              | yes         |
| show maintenance maint-delay             | yes         |
| show maintenance on-reload reset-reasons | yes         |
| show maintenance profile                 | yes         |
| show maintenance snapshot-delay          | yes         |
| show maintenance timeout                 | yes         |
| show module                              | yes         |
| show module bandwidth-fairness           | yes         |
| show module uptime                       | yes         |
| show monitor                             | yes         |
| show monitor session                     | yes         |
| show mpls extended-ecmp                  | no          |
| show mpls forwarding statistics          | yes         |
| show mpls interfaces                     | yes         |
| show mpls interfaces detail              | yes         |
| show mpls interfaces statistics          | yes         |
| show mpls ip bindings                    | yes         |
| show mpls ip bindings summary            | yes         |
| show mpls ip ttl                         | yes         |
| show mpls label range                    | yes         |
| show mpls load-sharing                   | yes         |
| show mpls oam echo statistics            | yes         |
| show mpls static binding                 | yes         |
| show mpls static trace                   | no          |
| show mpls strip labels                   | yes         |
| show mpls switching                      | yes         |
| show mpls switching clients              | yes         |

| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show mvpn bgp mdt                     | yes         |
| show mvpn mdt encap                   | yes         |
| show mvpn mdt route                   | yes         |
| show mvr groups                       | yes         |
| show mvr interface                    | yes         |
| show mvr members                      | yes         |
| show mvr members count                | yes         |
| show mvr members vlan                 | yes         |
| show mvr receiver-ports               | yes         |
| show mvr source-ports                 | yes         |
| show nat itd                          | yes         |
| show nbm defaults                     | yes         |
| show nbm flow-policy                  | yes         |
| show nbm flows                        | yes         |
| show nbm flows static                 | yes         |
| show nbm flows statistics             | yes         |
| show nbm flows summary                | yes         |
| show nbm host-policy all              | yes         |
| show nbm host-policy applied receiver | yes         |
| show nbm host-policy applied sender   | yes         |
| show nbm interface bandwidth          | yes         |
| show ngoam interface statistics       | yes         |
| show ngoam loopback                   | yes         |
| show ngoam mct-stats                  | yes         |
| show ngoam pathtrace                  | yes         |
| show ngoam probe                      | yes         |
| show ngoam traceroute statistics      | yes         |
| show ngoam xconnect session           | yes         |

| Show Commands                     | XML Support |
|-----------------------------------|-------------|
| show npv external-interface-usage | yes         |
| show npv flogi-table              | yes         |
| show npv status                   | yes         |
| show npv traffic-map              | yes         |
| show ntp access-groups            | yes         |
| show ntp authentication-keys      | yes         |
| show ntp authentication-status    | yes         |
| show ntp information              | yes         |
| 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               | yes         |
| show ntp status                   | yes         |
| show ntp trusted-keys             | yes         |
| show nve adjacency mpls           | yes         |
| show nve bfd neighbors            | yes         |
| show nve core-links               | yes         |
| show nve ethernet-segment         | yes         |
| show nve evi                      | yes         |
| show nve interface                | yes         |
| show nve mpls                     | yes         |
| show nve multisite dci-links      | yes         |
| show nve multisite fabric-links   | yes         |
| show nve peers                    | yes         |

| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show nve peers interface counters     | yes         |
| show nve peers mpls                   | yes         |
| show nve peers vni interface counters | yes         |
| show nve replication-servers          | yes         |
| show nve vni                          | yes         |
| show nve vni counters                 | yes         |
| show nve vni ingress-replication      | yes         |
| show nve vni peer-vtep                | yes         |
| show nve vrf                          | yes         |
| show nve vxlan-params                 | yes         |
| show nxapi                            | yes         |
| show nxapi syntax                     | no          |
| show nxapi-server logs                | no          |
| show object-group                     | yes         |
| show openflow hardware capabilities   | no          |
| show openflow switch                  | yes         |
| show openflow switch flows            | no          |
| show ospfv3                           | yes         |
| show ospfv3 border-routers            | yes         |
| show ospfv3 database                  | yes         |
| show ospfv3 database database-summary | yes         |
| show ospfv3 database detail           | yes         |
| show ospfv3 event-history             | no          |
| show ospfv3 event-history detail      | no          |
| show ospfv3 interface                 | yes         |
| show ospfv3 interface brief           | yes         |
| show ospfv3 neighbors                 | yes         |
| show ospfv3 neighbors detail          | yes         |

| Show Commands                   | XML Support |
|---------------------------------|-------------|
| show ospfv3 neighbors summary   | yes         |
| show ospfv3 policy statistics   | no          |
| show ospfv3 request-list        | yes         |
| show ospfv3 retransmission-list | yes         |
| show ospfv3 route               | yes         |
| show ospfv3 route summary       | yes         |
| show ospfv3 statistics          | yes         |
| show ospfv3 summary-address     | yes         |
| show ospfv3 traffic             | yes         |
| show ospfv3 virtual-links       | yes         |
| show ospfv3 virtual-links brief | yes         |
| show otv                        | no          |
| show param-list                 | yes         |
| show password secure-mode       | yes         |
| show password strength-check    | yes         |
| show plb                        | yes         |
| show plb analytics              | yes         |
| show plb vrf                    | yes         |
| show pmap-int                   | no          |
| show pmap-int-br interface br   | yes         |
| show pnp lease                  | no          |
| show pnp posix_pi configs       | no          |
| show pnp posix_pi tech-support  | no          |
| show pnp profiles               | no          |
| show pnp status                 | no          |
| show pnp summary                | no          |
| show pnp version                | no          |
| show policy-map                 | yes         |

| Show Commands                                                            | XML Support |
|--------------------------------------------------------------------------|-------------|
| show policy-map interface control-plane                                  | yes         |
| show policy-map system                                                   | yes         |
| show policy-map type control-plane                                       | yes         |
| show policy-map type network-qos                                         | yes         |
| show port naming                                                         | no          |
| show port-channel capacity                                               | yes         |
| show port-channel compatibility-parameters                               | yes         |
| show port-channel database                                               | yes         |
| show port-channel fast-convergence                                       | yes         |
| show port-channel load-balance                                           | yes         |
| show port-channel load-balance forwarding-path interface                 | yes         |
| show port-channel load-balance forwarding-path1 interface src-interface  | yes         |
| show port-channel load-balance hardware forwarding-path interface source | yes         |
| show port-channel rbh-distribution                                       | yes         |
| show port-channel scale-fanout                                           | yes         |
| show port-channel summary                                                | yes         |
| show port-channel traffic                                                | yes         |
| show port-channel usage                                                  | yes         |
| show port-license                                                        | yes         |
| show port-profile                                                        | yes         |
| show port-profile brief                                                  | yes         |
| show port-profile expand-interface                                       | yes         |
| show port-profile sync-status                                            | yes         |
| show port-profile usage                                                  | yes         |
| show port-security                                                       | yes         |
| show port-security address                                               | yes         |
| show port-security address interface                                     | yes         |
| show port-security interface                                             | yes         |

| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show port-security state              | yes         |
| show postcard-telemetry exporter      | yes         |
| show postcard-telemetry flow-profile  | yes         |
| show postcard-telemetry monitor       | yes         |
| show postcard-telemetry queue-profile | yes         |
| show postcard-telemetry sessions      | yes         |
| show postcard-telemetry watchlist     | yes         |
| show power inline                     | yes         |
| show power inline police              | yes         |
| show power inline priority            | yes         |
| show privilege                        | yes         |
| show processes                        | yes         |
| show processes cpu                    | yes         |
| show processes cpu history            | no          |
| show processes cpu history data       | yes         |
| show processes cpu module             | yes         |
| show processes log                    | yes         |
| show processes log details            | yes         |
| show processes log pid                | yes         |
| show processes log vdc-all            | yes         |
| show processes memory                 | yes         |
| show processes memory physical        | yes         |
| show processes memory shared          | yes         |
| show processes vdc                    | yes         |
| show processes vdc cpu                | yes         |
| show processes vdc log                | yes         |
| show processes vdc log details        | no          |
| show processes vdc log pid            | no          |

| Show Commands                                                      | XML Support |
|--------------------------------------------------------------------|-------------|
| show processes vdc memory                                          | yes         |
| show processes version                                             | yes         |
| show pss debug                                                     | no          |
| show ptp brief                                                     | yes         |
| show ptp clock                                                     | yes         |
| show ptp clock foreign-masters record                              | yes         |
| show ptp corrections                                               | yes         |
| show ptp cost                                                      | yes         |
| show ptp counters interface                                        | yes         |
| show ptp delay summary                                             | yes         |
| show ptp domain data                                               | yes         |
| show ptp interface domain                                          | yes         |
| show ptp packet-trace                                              | yes         |
| show ptp parent                                                    | yes         |
| show ptp port interface                                            | yes         |
| show ptp time-property                                             | yes         |
| show qos dcbxp incompatibility interface                           | yes         |
| show qos dcbxp info                                                | yes         |
| show qos dcbxp interface                                           | yes         |
| show qos shared-policer                                            | yes         |
| show queuing                                                       | yes         |
| show queuing burst-detect                                          | yes         |
| show queuing pfc-queue                                             | yes         |
| show queuing pfc-queue interface snmp watchdogIfQueueTable ifIndex | yes         |
| show queuing pfc-queue snmp ifIndex                                | yes         |
| show queuing tabular                                               | yes         |
| show queuing tah-pfc-queue                                         | yes         |
| show radius status                                                 | yes         |

| Show Commands                       | XML Support |
|-------------------------------------|-------------|
| show radius-cfs                     | yes         |
| show radius-server                  | yes         |
| show radius-server directed-request | yes         |
| show radius-server groups           | yes         |
| show radius-server sorted           | yes         |
| show radius-server statistics       | yes         |
| show redundancy status              | yes         |
| show regexp                         | no          |
| show reload                         | yes         |
| show resource                       | yes         |
| show rmon                           | yes         |
| show role                           | yes         |
| show role feature                   | yes         |
| show role feature-group             | yes         |
| show rollback log exec              | yes         |
| show rollback status                | yes         |
| show route-map                      | yes         |
| show route-map pbr-statistics       | yes         |
| show router-guard                   | yes         |
| show routing                        | yes         |
| show routing clients                | yes         |
| show routing event-history          | no          |
| show routing hash                   | yes         |
| show routing hidden-nh              | yes         |
| show routing ipv6                   | yes         |
| show routing ipv6 clients           | yes         |
| show routing ipv6 event-history     | no          |
| show routing ipv6 hash              | yes         |

| Show Commands                               | XML Support |
|---------------------------------------------|-------------|
| show routing ipv6 hidden-nh                 | yes         |
| show routing ipv6 memory estimate           | yes         |
| show routing ipv6 memory statistics         | yes         |
| show routing ipv6 multicast                 | yes         |
| show routing ipv6 multicast clients         | yes         |
| show routing ipv6 multicast event-history   | no          |
| show routing ipv6 multicast memory estimate | yes         |
| show routing ipv6 nexthop info              | no          |
| show routing ipv6 nhlfe                     | yes         |
| show routing ipv6 recursive-next-hop        | yes         |
| show routing memory estimate                | yes         |
| show routing memory statistics              | yes         |
| show routing multicast                      | yes         |
| show routing multicast clients              | yes         |
| show routing multicast event-history        | no          |
| show routing multicast lisp encap           | yes         |
| show routing multicast mdt encapsulation    | yes         |
| show routing multicast memory estimate      | yes         |
| show routing multicast sr                   | yes         |
| show routing nhlfe                          | yes         |
| show routing recursive-next-hop             | yes         |
| show routing unresolved-next-hop            | no          |
| show routing vxlan-hash peer-ip             | no          |
| show routing vxlan-hash peer-ipv6           | no          |
| show routing-context                        | yes         |
| show running-config                         | no          |
| show running-config aaa                     | no          |
| show running-config aclog                   | no          |

| Show Commands                       | XML Support |
|-------------------------------------|-------------|
| show running-config aclmgr          | no          |
| show running-config aclmgr active   | no          |
| show running-config adjmgr          | no          |
| show running-config all             | no          |
| show running-config analytics       | no          |
| show running-config arp             | no          |
| show running-config assoc           | no          |
| show running-config backup          | no          |
| show running-config bfd             | no          |
| show running-config bgp             | no          |
| show running-config bloggerd        | no          |
| show running-config callhome        | no          |
| show running-config catena          | no          |
| show running-config cdp             | no          |
| show running-config cert-enroll     | no          |
| show running-config cfs             | no          |
| show running-config clock_manager   | no          |
| show running-config config-profile  | no          |
| show running-config config-template | no          |
| show running-config controller      | no          |
| show running-config copp            | no          |
| show running-config dhcp            | no          |
| show running-config diagnostic      | no          |
| show running-config diff            | no          |
| show running-config dot1x           | no          |
| show running-config ecp             | no          |
| show running-config eem             | no          |
| show running-config eigrp           | no          |

| Show Commands                                 | XML Support |
|-----------------------------------------------|-------------|
| show running-config eltm                      | no          |
| show running-config evb                       | no          |
| show running-config exclude fabricpath        | no          |
| show running-config expand-port-profile       | no          |
| show running-config fabric forwarding         | no          |
| show running-config fabric multicast          | no          |
| show running-config fabricpath                | no          |
| show running-config fabricpath domain default | no          |
| show running-config fabricpath switch-id      | no          |
| show running-config fabricpath topology       | no          |
| show running-config fcoe_mgr                  | no          |
| show running-config hardware-telemetry        | no          |
| show running-config hsrp                      | no          |
| show running-config icam                      | no          |
| show running-config icmpv6                    | no          |
| show running-config igmp                      | no          |
| show running-config imp                       | no          |
| show running-config interface                 | no          |
| show running-config interface explicit        | no          |
| show running-config ip                        | no          |
| show running-config ipqos                     | no          |
| show running-config ipqos active              | no          |
| show running-config ipv6                      | no          |
| show running-config isis                      | no          |
| show running-config l3vm                      | no          |
| show running-config ldap                      | no          |
| show running-config license                   | no          |
| show running-config lisp                      | no          |

| Show Commands                        | XML Support |
|--------------------------------------|-------------|
| show running-config lldp             | no          |
| show running-config macsec           | no          |
| show running-config mmode            | no          |
| show running-config monitor          | no          |
| show running-config mpls ldp         | no          |
| show running-config mpls static      | no          |
| show running-config mpls strip       | no          |
| show running-config mpls traffic-eng | no          |
| show running-config msdp             | no          |
| show running-config mts              | no          |
| show running-config nat              | no          |
| show running-config nbm              | no          |
| show running-config netflow          | no          |
| show running-config ngoam            | no          |
| show running-config ntp              | no          |
| show running-config nv overlay       | no          |
| show running-config nxsdk            | no          |
| show running-config openflow         | no          |
| show running-config ospf             | no          |
| show running-config ospfv3           | no          |
| show running-config otv              | no          |
| show running-config otv-isis         | no          |
| show running-config param-list       | no          |
| show running-config pim              | no          |
| show running-config pim6             | no          |
| show running-config plb-services     | no          |
| show running-config poe              | no          |
| show running-config port-profile     | no          |

| Show Commands                              | XML Support |
|--------------------------------------------|-------------|
| show running-config port-security          | no          |
| show running-config ptp                    | no          |
| show running-config radius                 | no          |
| show running-config rip                    | no          |
| show running-config routing ip multicast   | no          |
| show running-config routing ipv6 multicast | no          |
| show running-config rpm                    | no          |
| show running-config rsvp                   | no          |
| show running-config scheduler              | no          |
| show running-config section                | no          |
| show running-config security               | no          |
| show running-config segment-routing        | no          |
| show running-config services               | no          |
| show running-config sflow                  | no          |
| show running-config sla responder          | no          |
| show running-config sla sender             | no          |
| show running-config sla twamp-server       | no          |
| show running-config smart-channel          | no          |
| show running-config snmp                   | no          |
| show running-config spanning-tree          | no          |
| show running-config srte                   | no          |
| show running-config switch                 | no          |
| show running-config tacacs                 | no          |
| show running-config telemetry              | no          |
| show running-config track                  | no          |
| show running-config udd                    | no          |
| show running-config vdc                    | no          |
| show running-config vdc-all                | no          |

| Show Commands                                           | XML Support |
|---------------------------------------------------------|-------------|
| show running-config virtual-service                     | no          |
| show running-config vlan                                | no          |
| show running-config vmtracker                           | no          |
| show running-config vpc                                 | no          |
| show running-config vrf                                 | no          |
| show running-config vrf default                         | no          |
| show running-config vrrp                                | no          |
| show running-config vrrpv3                              | no          |
| show running-config vshd                                | no          |
| show running-config vtp                                 | no          |
| show running-config wwnm                                | no          |
| show san-port-channel compatibility-parameters          | yes         |
| show san-port-channel consistency                       | yes         |
| show san-port-channel consistency detail                | yes         |
| show san-port-channel database                          | yes         |
| show san-port-channel summary                           | yes         |
| show san-port-channel usage                             | yes         |
| show scheduler config                                   | yes         |
| show scheduler job                                      | yes         |
| show scheduler logfile                                  | yes         |
| show scheduler schedule                                 | yes         |
| show segment-routing                                    | yes         |
| show segment-routing clients                            | yes         |
| show segment-routing ipv4 connected-prefix-sid-map      | yes         |
| show segment-routing mpls                               | yes         |
| show segment-routing mpls clients                       | yes         |
| show segment-routing mpls ipv4 connected-prefix-sid-map | yes         |
| show sflow                                              | yes         |

| <b>Show Commands</b>              | <b>XML Support</b> |
|-----------------------------------|--------------------|
| show sflow statistics             | yes                |
| show smart-channel                | yes                |
| show snapshots                    | yes                |
| show snapshots compare            | yes                |
| show snapshots compare ipv4routes | yes                |
| show snapshots compare ipv6routes | yes                |
| show snapshots compare summary    | yes                |
| show snapshots dump               | yes                |
| 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 nms-statistics          | yes                |
| show snmp oid-statistics          | yes                |
| show snmp pss                     | no                 |
| show snmp roledebug               | no                 |
| show snmp sessions                | yes                |
| show snmp source-interface        | yes                |
| show snmp trap                    | yes                |
| show snmp user                    | yes                |
| show sockets client               | yes                |
| show sockets connection           | yes                |
| show sockets local-port-range     | yes                |
| show sockets ns-port-kiosk        | yes                |
| show sockets statistics           | yes                |

| Show Commands                               | XML Support |
|---------------------------------------------|-------------|
| show sockets tcp keychain binding           | yes         |
| show spanning-tree                          | yes         |
| show spanning-tree blockedports             | yes         |
| show spanning-tree bridge                   | yes         |
| show spanning-tree inconsistentports        | yes         |
| show spanning-tree interface                | yes         |
| show spanning-tree issu-impact              | yes         |
| show spanning-tree mst                      | yes         |
| show spanning-tree mst configuration        | yes         |
| show spanning-tree mst configuration digest | yes         |
| show spanning-tree mst interface            | yes         |
| show spanning-tree pathcost method          | yes         |
| show spanning-tree root                     | yes         |
| show spanning-tree summary                  | yes         |
| show spanning-tree summary totals           | yes         |
| show sprom                                  | yes         |
| show srte pce ipv4 peer                     | yes         |
| show srte policy                            | yes         |
| show srte policy fh                         | yes         |
| show ssh key                                | yes         |
| show ssh server                             | yes         |
| show ssx details                            | yes         |
| show ssx exporter                           | yes         |
| show ssx monitor                            | yes         |
| show ssx record                             | yes         |
| show startup-config                         | no          |
| show startup-config aaa                     | no          |
| show startup-config aclog                   | no          |

| Show Commands                           | XML Support |
|-----------------------------------------|-------------|
| show startup-config aclmgr              | no          |
| show startup-config adjmgr              | no          |
| show startup-config analytics           | no          |
| show startup-config arp                 | no          |
| show startup-config assoc               | no          |
| show startup-config backup              | no          |
| show startup-config bfd                 | no          |
| show startup-config bgp                 | no          |
| show startup-config bloggerd            | no          |
| show startup-config callhome            | no          |
| show startup-config catena              | no          |
| show startup-config cdp                 | no          |
| show startup-config cert-enroll         | no          |
| show startup-config cfs                 | no          |
| show startup-config config-profile      | no          |
| show startup-config copp                | no          |
| show startup-config dhcp                | no          |
| show startup-config diagnostic          | no          |
| show startup-config dot1x               | no          |
| show startup-config ecp                 | no          |
| show startup-config eem                 | no          |
| show startup-config eigrp               | no          |
| show startup-config eltm                | no          |
| show startup-config evb                 | no          |
| show startup-config exclude             | no          |
| show startup-config expand-port-profile | no          |
| show startup-config fabric forwarding   | no          |
| show startup-config fabric multicast    | no          |

| Show Commands                                 | XML Support |
|-----------------------------------------------|-------------|
| show startup-config fabricpath                | no          |
| show startup-config fabricpath domain default | no          |
| show startup-config fabricpath switch-id      | no          |
| show startup-config fabricpath topology       | no          |
| show startup-config fcoe_mgr                  | no          |
| show startup-config glbp                      | no          |
| show startup-config hardware-telemetry        | no          |
| show startup-config hsrp                      | no          |
| show startup-config icam                      | no          |
| show startup-config icmpv6                    | no          |
| show startup-config igmp                      | no          |
| show startup-config imp                       | no          |
| show startup-config interface                 | no          |
| show startup-config ip                        | no          |
| show startup-config ipqos                     | no          |
| show startup-config ipv6                      | no          |
| show startup-config isis                      | no          |
| show startup-config l3vm                      | no          |
| show startup-config ldap                      | no          |
| show startup-config license                   | no          |
| show startup-config lisp                      | no          |
| show startup-config lldp                      | no          |
| show startup-config log                       | no          |
| show startup-config macsec                    | no          |
| show startup-config mmode                     | no          |
| show startup-config monitor                   | no          |
| show startup-config mpls ldp                  | no          |
| show startup-config mpls static               | no          |

| Show Commands                              | XML Support |
|--------------------------------------------|-------------|
| show startup-config mpls strip             | no          |
| show startup-config mpls traffic-eng       | no          |
| show startup-config msdp                   | no          |
| show startup-config mts                    | no          |
| show startup-config nat                    | no          |
| show startup-config nbm                    | no          |
| show startup-config netflow                | no          |
| show startup-config ngoam                  | no          |
| show startup-config ntp                    | no          |
| show startup-config nv overlay             | no          |
| show startup-config nx sdk                 | no          |
| show startup-config openflow               | no          |
| show startup-config ospf                   | no          |
| show startup-config ospfv3                 | no          |
| show startup-config otv                    | no          |
| show startup-config otv-isis               | no          |
| show startup-config param-list             | no          |
| show startup-config pim                    | no          |
| show startup-config pim6                   | no          |
| show startup-config plb-services           | no          |
| show startup-config poe                    | no          |
| show startup-config port-profile           | no          |
| show startup-config port-security          | no          |
| show startup-config ptp                    | no          |
| show startup-config radius                 | no          |
| show startup-config rip                    | no          |
| show startup-config routing ip multicast   | no          |
| show startup-config routing ipv6 multicast | no          |

| Show Commands                        | XML Support |
|--------------------------------------|-------------|
| show startup-config rpm              | no          |
| show startup-config rsvp             | no          |
| show startup-config scheduler        | no          |
| show startup-config security         | no          |
| show startup-config segment-routing  | no          |
| show startup-config services         | no          |
| show startup-config sflow            | no          |
| show startup-config sla responder    | no          |
| show startup-config sla sender       | no          |
| show startup-config sla twamp-server | no          |
| show startup-config smart-channel    | no          |
| show startup-config snmp             | no          |
| show startup-config srte             | no          |
| show startup-config switch           | no          |
| show startup-config tacacs           | no          |
| show startup-config telemetry        | no          |
| show startup-config track            | no          |
| show startup-config uddl             | no          |
| show startup-config vdc              | no          |
| show startup-config vdc-all          | no          |
| show startup-config virtual-service  | no          |
| show startup-config vlan             | no          |
| show startup-config vmtracker        | no          |
| show startup-config vpc              | no          |
| show startup-config vrf              | no          |
| show startup-config vrf default      | no          |
| show startup-config vrrpv3           | no          |
| show startup-config vshd             | no          |

| Show Commands                               | XML Support |
|---------------------------------------------|-------------|
| show startup-config vtp                     | no          |
| show startup-config wwnm                    | no          |
| show summary                                | no          |
| show switch-profile                         | yes         |
| show switch-profile buffer                  | yes         |
| show switch-profile peer                    | yes         |
| show switch-profile status                  | yes         |
| show switch-scope controller                | no          |
| show switching-mode                         | yes         |
| show switching-mode fabric-speed            | yes         |
| show system acl                             | yes         |
| show system auto-collect tech-support       | yes         |
| show system boottime                        | yes         |
| show system clis event-history              | no          |
| show system config reload-pending           | yes         |
| show system cores                           | yes         |
| show system default switchport              | yes         |
| show system dme status                      | yes         |
| show system error-id                        | yes         |
| show system exception-info                  | yes         |
| show system fabric-mode                     | yes         |
| show system fast-reload stabilization-timer | yes         |
| show system image-verification              | yes         |
| show system inband queuing statistics       | yes         |
| show system inband queuing status           | yes         |
| show system login                           | yes         |
| show system login failures                  | yes         |
| show system memory-thresholds               | yes         |

| Show Commands                       | XML Support |
|-------------------------------------|-------------|
| show system mode                    | yes         |
| show system nve infra-vlans         | yes         |
| show system poap                    | yes         |
| show system pss shrink status       | yes         |
| show system redundancy ha status    | yes         |
| show system redundancy status       | yes         |
| show system reset-reason            | yes         |
| show system reset-reason module     | yes         |
| show system resources               | no          |
| show system resources               | yes         |
| show system resources all-modules   | yes         |
| show system routing mode            | yes         |
| show system security                | yes         |
| show system simulate fan-presence   | no          |
| show system standby manual-boot     | yes         |
| show system switch-mode             | yes         |
| show system uptime                  | yes         |
| show system verify bios flash       | yes         |
| show system vlan reserved           | yes         |
| show table-map                      | yes         |
| show tacacs-server                  | yes         |
| show tacacs-server directed-request | yes         |
| show tacacs-server groups           | yes         |
| show tacacs-server sorted           | yes         |
| show tacacs-server statistics       | yes         |
| show tech-support                   | no          |
| show tech-support aaa               | no          |
| show tech-support aclmgr            | no          |

| Show Commands                       | XML Support |
|-------------------------------------|-------------|
| show tech-support aclmgr compressed | no          |
| show tech-support aclqos            | no          |
| show tech-support aclqos compressed | no          |
| show tech-support adjmgr            | no          |
| show tech-support all               | no          |
| show tech-support all binary        | no          |
| show tech-support analytics         | no          |
| show tech-support arp               | no          |
| show tech-support ascii-cfg         | no          |
| show tech-support assoc_mgr         | no          |
| show tech-support backup            | no          |
| show tech-support bcm               | no          |
| show tech-support bfd               | no          |
| show tech-support bgp               | no          |
| show tech-support biosd             | no          |
| show tech-support bloggerd          | no          |
| show tech-support bloggerd-all      | no          |
| 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               | no          |
| show tech-support cli               | no          |
| show tech-support clis              | no          |
| show tech-support clock_manager     | no          |
| show tech-support commands          | no          |
| show tech-support controller        | no          |

| Show Commands                                            | XML Support |
|----------------------------------------------------------|-------------|
| show tech-support copp                                   | no          |
| show tech-support dcbox                                  | no          |
| show tech-support details                                | no          |
| show tech-support dhclient                               | no          |
| show tech-support dhcp                                   | no          |
| show tech-support dme                                    | no          |
| show tech-support dot1x                                  | no          |
| show tech-support ecp                                    | no          |
| show tech-support eem                                    | no          |
| show tech-support eigrp                                  | no          |
| show tech-support eltm                                   | no          |
| show tech-support ethpm                                  | no          |
| show tech-support ethport                                | no          |
| show tech-support evb                                    | no          |
| show tech-support fabric forwarding                      | no          |
| show tech-support fabric multicast                       | no          |
| show tech-support fabricpath isis                        | no          |
| show tech-support fabricpath topology                    | no          |
| show tech-support fast-reload                            | no          |
| show tech-support fc2                                    | no          |
| show tech-support fcoe                                   | 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                  | 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                | no          |
| show tech-support forwarding l3 unicast detail         | no          |
| show tech-support forwarding l3 unicast detail vdc-all | no          |
| show tech-support forwarding l3 unicast vdc-all        | no          |
| show tech-support forwarding mpls                      | no          |
| show tech-support forwarding multicast                 | no          |
| show tech-support gold                                 | no          |
| show tech-support gpixm                                | no          |
| show tech-support ha                                   | no          |
| show tech-support ha module                            | no          |
| show tech-support ha standby                           | no          |
| show tech-support ha_short                             | no          |
| show tech-support hardware-telemetry                   | no          |
| show tech-support hsrp                                 | no          |
| show tech-support hsrp brief                           | no          |
| show tech-support icam                                 | no          |
| show tech-support icmpv6                               | no          |
| show tech-support im                                   | no          |
| show tech-support imp                                  | no          |
| show tech-support inband counters                      | no          |
| show tech-support include-time                         | no          |
| show tech-support install                              | no          |
| show tech-support interface-vlan                       | no          |
| show tech-support ip                                   | no          |
| show tech-support ip igmp                              | no          |
| show tech-support ip igmp snooping                     | no          |
| show tech-support ip msdp                              | no          |

| Show Commands                    | XML Support |
|----------------------------------|-------------|
| show tech-support ip pim         | no          |
| show tech-support ip rsvp        | no          |
| show tech-support ipqos          | no          |
| show tech-support ipv6           | no          |
| show tech-support ipv6 mld       | no          |
| show tech-support ipv6 multicast | no          |
| show tech-support ipv6 pim       | no          |
| show tech-support isis           | no          |
| show tech-support issu           | no          |
| show tech-support kstack         | no          |
| show tech-support l2             | no          |
| show tech-support l2fm           | no          |
| show tech-support l2fm clients   | no          |
| show tech-support l2fm detail    | no          |
| show tech-support l2fm l2dbg     | no          |
| show tech-support l2rib          | no          |
| show tech-support l3vm           | no          |
| show tech-support l3vpn          | no          |
| show tech-support lacp           | no          |
| show tech-support ldap           | no          |
| show tech-support license        | no          |
| show tech-support lim            | no          |
| show tech-support lisp           | no          |
| show tech-support lldp           | no          |
| show tech-support logging        | no          |
| show tech-support m2rib          | no          |
| show tech-support macsec         | no          |
| show tech-support macsec detail  | no          |

| Show Commands                          | XML Support |
|----------------------------------------|-------------|
| show tech-support mfw                  | no          |
| show tech-support mmode                | no          |
| show tech-support 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 ldp             | no          |
| show tech-support mpls manager         | no          |
| show tech-support mpls static          | no          |
| show tech-support mpls strip           | no          |
| show tech-support mpls switching       | no          |
| show tech-support mpls traffic-eng     | no          |
| show tech-support mpls fwd             | no          |
| show tech-support multicast            | no          |
| show tech-support multicast-vxlan-evpn | no          |
| show tech-support mvpn                 | no          |
| show tech-support nat                  | no          |
| show tech-support nbm                  | no          |
| show tech-support nbm group            | no          |
| show tech-support netflow              | no          |
| show tech-support netstack             | no          |
| show tech-support netstack detail      | no          |
| show tech-support ngoam                | no          |
| show tech-support npacl                | no          |
| show tech-support npv                  | no          |
| show tech-support ns                   | no          |
| show tech-support ntp                  | no          |

| Show Commands                       | XML Support |
|-------------------------------------|-------------|
| show tech-support nve               | no          |
| show tech-support nxapi             | no          |
| show tech-support nxsdk             | no          |
| show tech-support object-store      | no          |
| show tech-support openflow          | no          |
| show tech-support openflow platform | no          |
| show tech-support ospf              | no          |
| show tech-support ospfv3            | no          |
| show tech-support otv               | no          |
| show tech-support page              | no          |
| show tech-support patch             | no          |
| show tech-support pbr               | 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            | no          |
| show tech-support platform-sdk      | no          |
| show tech-support plb-services      | no          |
| show tech-support plcmgr            | no          |
| show tech-support pltfm-config      | no          |
| show tech-support pnp               | no          |
| show tech-support poe               | 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 port-security     | no          |

| <b>Show Commands</b>                     | <b>XML Support</b> |
|------------------------------------------|--------------------|
| show tech-support private-vlan           | no                 |
| show tech-support ptp                    | no                 |
| show tech-support radius                 | no                 |
| show tech-support rip                    | no                 |
| show tech-support routing                | no                 |
| show tech-support routing ipv6           | no                 |
| show tech-support routing ipv6 multicast | no                 |
| show tech-support routing multicast      | no                 |
| show tech-support rpm                    | no                 |
| show tech-support sal                    | no                 |
| show tech-support san                    | no                 |
| show tech-support san-port-channel       | no                 |
| show tech-support satmgr                 | no                 |
| show tech-support security               | no                 |
| show tech-support segment-routing        | no                 |
| show tech-support services               | no                 |
| show tech-support session-mgr            | no                 |
| show tech-support sflow                  | no                 |
| show tech-support single-gericho         | no                 |
| show tech-support sksd                   | no                 |
| show tech-support sla responder          | no                 |
| show tech-support sla sender             | no                 |
| show tech-support sla twamp-server       | no                 |
| show tech-support smartc                 | no                 |
| show tech-support smm                    | no                 |
| show tech-support snmp                   | no                 |
| show tech-support sockets                | no                 |
| show tech-support spm                    | no                 |

| Show Commands                     | XML Support |
|-----------------------------------|-------------|
| show tech-support srte            | no          |
| show tech-support statsclient     | no          |
| show tech-support stp             | no          |
| show tech-support sup-filesys     | no          |
| show tech-support sysmgr          | no          |
| show tech-support tacacs          | no          |
| show tech-support telemetry       | no          |
| show tech-support track           | no          |
| show tech-support tunnel          | no          |
| show tech-support u2rib           | no          |
| show tech-support udld            | 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 vmtracker       | no          |
| show tech-support vpc             | no          |
| show tech-support vrrp            | no          |
| show tech-support vrrp brief      | no          |
| show tech-support vrrpv3          | no          |
| show tech-support vsan            | no          |
| show tech-support vshd            | no          |
| show tech-support vtp             | no          |
| show tech-support vvlan           | no          |
| show tech-support vxlan           | no          |
| show tech-support vxlan platform  | no          |
| show tech-support vxlan-evpn      | no          |
| show tech-support xbar            | no          |

| Show Commands                               | XML Support |
|---------------------------------------------|-------------|
| show tech-support xml                       | no          |
| show tech-support xos                       | no          |
| show telemetry control database             | yes         |
| show telemetry data collector brief         | yes         |
| show telemetry event collector stats        | yes         |
| show telemetry pipeline stats               | yes         |
| show telemetry transport                    | yes         |
| show telemetry usability                    | yes         |
| show telnet server                          | yes         |
| show terminal                               | yes         |
| show terminal output xml version            | yes         |
| show time-range                             | yes         |
| show time-stamp running-config last-changed | yes         |
| show trace callhome                         | no          |
| show track                                  | yes         |
| show track brief                            | yes         |
| show troubleshoot l2 mac vlan               | no          |
| show troubleshoot l3 vrf                    | no          |
| show trunk protocol                         | yes         |
| show ttag brief                             | yes         |
| show udd                                    | yes         |
| show udd global                             | yes         |
| show udd neighbors                          | yes         |
| show user-account                           | yes         |
| show username keypair                       | yes         |
| show username passphrase timevalues         | yes         |
| show userpassphrase                         | yes         |
| show users                                  | yes         |

| Show Commands                          | XML Support |
|----------------------------------------|-------------|
| show vdc                               | yes         |
| show vdc current-vdc                   | yes         |
| show vdc fcoe-vlan-range               | yes         |
| show vdc resource                      | yes         |
| show vdc resource template             | yes         |
| show version                           | yes         |
| show version epld                      | yes         |
| show version image                     | yes         |
| show version module                    | yes         |
| show version module epld               | yes         |
| show virtual-service                   | yes         |
| show virtual-service storage pool list | yes         |
| show virtual-service tech-support      | no          |
| show virtual-service utilization name  | yes         |
| show virtual-service version           | yes         |
| show vlan                              | yes         |
| show vlan access-list                  | yes         |
| show vlan access-map                   | yes         |
| show vlan all-ports                    | yes         |
| show vlan counters                     | yes         |
| show vlan dot1Q tag native             | yes         |
| show vlan fcoe                         | yes         |
| show vlan filter                       | yes         |
| show vlan id                           | yes         |
| show vlan id counters                  | yes         |
| show vlan id vn-segment                | yes         |
| show vlan name                         | yes         |
| show vlan private-vlan type            | yes         |

| Show Commands                              | XML Support |
|--------------------------------------------|-------------|
| show vlan xbrief                           | yes         |
| show vlan xsummary                         | yes         |
| show vmtracker                             | yes         |
| show vmtracker certificate                 | yes         |
| show vmtracker fabric auto-config          | yes         |
| show vmtracker status                      | yes         |
| show vpc                                   | yes         |
| show vpc consistency-parameters            | yes         |
| show vpc consistency-parameters vlans      | yes         |
| show vpc fabric-ports                      | yes         |
| show vpc orphan-ports                      | yes         |
| show vpc peer-keepalive                    | yes         |
| show vpc role                              | yes         |
| show vpc statistics peer-keepalive         | yes         |
| show vpc statistics vpc                    | no          |
| show vpc virtual-peerlink dest reachable   | no          |
| show vpc virtual-peerlink vlan consistency | no          |
| show vrf                                   | yes         |
| show vrf                                   | no          |
| show vrrp                                  | yes         |
| show vrrp bfd-sessions                     | yes         |
| show vrrpv3                                | yes         |
| show vrrs client                           | yes         |
| show vrrs pathway                          | yes         |
| show vrrs pathway address                  | no          |
| show vrrs server                           | yes         |
| show vrrs tag                              | yes         |
| show vsan                                  | yes         |

| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show vsan membership                  | yes         |
| show vsan membership interface        | yes         |
| show vsan usage                       | yes         |
| show vtp counters                     | yes         |
| show vtp interface                    | yes         |
| show vtp password                     | yes         |
| show vtp status                       | yes         |
| show wred-queue qos-group-map         | yes         |
| show wrr unicast-bandwidth            | yes         |
| show wrr-queue qos-group-map          | yes         |
| show wwn status                       | yes         |
| show wwn switch                       | yes         |
| show wwn test                         | no          |
| show wwn vsan-wwn                     | yes         |
| show xml server logging configuration | no          |
| show xml server status                | yes         |