



## **Cisco Nexus 9000 Series NX-OS Command Reference (Show Commands), Release 7.0(3)I5(1)**

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## Preface

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This preface includes the following sections:

- [Audience, on page lxxxvii](#)
- [Documentation Conventions, on page lxxxvii](#)
- [Documentation Feedback, on page lxxxviii](#)
- [Communications, Services, and Additional Information, on page lxxxviii](#)

## Audience

This publication is for network administrators who install, configure, and maintain Cisco Nexus switches.

## Documentation Conventions

Command descriptions use the following conventions:

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

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

Examples use the following conventions:

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

## Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to [. We appreciate your feedback.](#)

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## Notice

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# Notice



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**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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## PART I

# All Show Commands

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## A Show Commands

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# show aaa accounting

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

## Syntax Description

Syntax Description		
show		Show running system information
aaa		Show aaa information
accounting		Show accounting configuration
__readonly__	(Optional)	
TABLE_acctMethods	(Optional)	
service	(Optional)	service type
methods	(Optional)	Accounting methods configured for the application

## Command Mode

- /exec

# show aaa authentication

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

## Syntax Description

### Syntax Description

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

Syntax Description	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

### 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

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
<i>__readonly__</i>	(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

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

## Command Mode

- /exec



## show aaa authentication login password-aging

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

### Syntax Description

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

### Command Mode

- /exec

## show aaa authorization

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

### Syntax Description

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

### Command Mode

- /exec

# show aaa groups

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

## Syntax Description

Syntax Description		
show		Show running system information
aaa		Show aaa information
groups		Show configured groups
__readonly__	(Optional)	
TABLE_groups	(Optional)	Table showing aaa groups
group	(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

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

## Command Mode

- /exec

## show aaa user default-role

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

### Syntax Description

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
udr_status	(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>
]
```

### Syntax Description

#### Syntax Description

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

<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: RAACL, VAACL
<i>policy_id</i>	(Optional) policy id
<i>src_ip</i>	(Optional) src ipv4 address
<i>src_mask</i>	(Optional) src mask
<i>dst_ip</i>	(Optional) dst ipv4 address
<i>dst_mask</i>	(Optional) dst mask
<i>proto</i>	(Optional) protocol eg: TCP, UDP ...
<i>l4ops</i>	(Optional) layer 4 operations
<i>action</i>	(Optional) action
<i>mac</i>	(Optional) mac address
<i>cos</i>	(Optional) acos value
<i>vlan</i>	(Optional) vlan id
<i>l2_proto</i>	(Optional) L2 protocol
<i>ethertype</i>	(Optional) ethertype

#### Command Mode

- /exec

## show access-list database

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

### Syntax Description

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

### Command Mode

- /exec



## show access-list resource

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

### Syntax Description

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

<i>detail</i>	(Optional) detailed information
<i>no-header</i>	(Optional) Do not print header
<i>module</i>	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
<i>__readonly__</i>	(Optional)
<i>TABLE_resource_util_info</i>	(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> ] [ __readonly__ TABLE_ip_ipv6_mac <op_ip_ipv6_mac> <acl_name> [
<statistics> ] [ <frag_opt_permit_deny> ] [ <global_capture_session> ] [ TABLE_seqno <seqno> {
<permitdeny> [ <proto_str> | <proto> | <ip> | <ipv6> } { <src_any> | <src_ip_prefix> | <src_ip_addr>
<src_ip_mask> | <src_ipv6_prefix> | <src_ipv6_addr> <src_ipv6_mask> | <mac_src> <mac_src_wild> |
<src_addrgrp> } { <src_port_op> [ <src_port1_str> ] { <src_port1_num> } [ <src_port2_str> | <src_port2_num>
] | <src_portgrp> } { <dest_any> | <dest_ip_prefix> | <dest_ip_addr> <dest_ip_mask> | <dest_ipv6_prefix>
| <dest_ipv6_addr> <dest_ipv6_mask> | <mac_dest> <mac_dest_wild> | <dest_addrgrp> } [ <dest_port_op>
[ <dest_port1_str> ] { <dest_port1_num> } [ <dest_port2_str> | <dest_port2_num> ] | <dest_portgrp> ] [ {
<icmp_type> [ <icmp_code> ] | <icmp_str> } | { <icmpv6_type> [ <icmpv6_code> ] | <icmpv6_str> } ] [
<igmp_type> | <igmp_type_str> ] [ [ <precedence> | <precedence_str> ] [ <tos> | <tos_str> ] ] [ <dscp> |
<dscp_str> ] ] [ <ttl> ] ] [ <log> ] [ <udfs> ] [ <capture_session> ] [ <fragments> ] [ <plen_op> <plen1> [
<plen2> ] ] [ <urg> ] [ <ack> ] [ <psh> ] [ <rst> ] [ <syn> ] [ <fin> ] [ <established> ] [ <http-method> |
<http_opt_str> ] [ <tcp-option-length> ] [ <tcp-flags-mask> ] [ <flow_label> ] [ <timerange> ] [ <eth_proto>
| <eth_proto_str> ] [ <vlan> ] [ <cos> ] [ <match_count> ] [ <nve_vni> ] | <remark> [ <action> <actionid>
] ] [ ethertype <ethertypeid> | vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority
<vlanpriorityid> ] + [ <action> <actionid> ] ]
```

### Syntax Description

#### Syntax Description

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

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

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

<i>syn</i>	(Optional) SYN
<i>fin</i>	(Optional) FIN
<i>established</i>	(Optional) ESTABLISHED
<i>http-method</i>	(Optional) http-method
<i>http_opt_str</i>	(Optional) http_option string
<i>tcp-option-length</i>	(Optional) TCP Option size
<i>tcp-flags-mask</i>	(Optional) TCP Flags mask
<i>flow_label</i>	(Optional) IPv6 flow label
<i>timerange</i>	(Optional) Time-range
<i>eth_proto</i>	(Optional) MAC protocol number
<i>eth_proto_str</i>	(Optional) MAC protocol name
<i>vlan</i>	(Optional) VLAN number
<i>cos</i>	(Optional) CoS value
<i>match_count</i>	(Optional) Number of packets matching the ACL
<i>nve_vni</i>	(Optional) nve vni
<i>remark</i>	(Optional) Remark String
<i>statistics</i>	(Optional) STATISTICS
<i>src_addrgrp</i>	(Optional) Source address group
<i>dest_addrgrp</i>	(Optional) Destination address group
<i>src_portgrp</i>	(Optional) Source port group
<i>dest_portgrp</i>	(Optional) Destination port group
<i>plen_op</i>	(Optional) Source Port operator
<i>plen1</i>	(Optional) Packet length minimum
<i>plen2</i>	(Optional) packet length maximum
<i>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-prot: <1-65535>
<i>expanded</i>	(Optional) EXPANDED
<i>summary</i>	(Optional) SUMMARY

---

*private* (Optional) PRIVATE

---

*brief* (Optional) BRIEF

---

**Command Mode**

- /exec

## show accounting log

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

### Syntax Description

Syntax Description	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

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

Syntax Description		
show	Show running system information	
accounting	Show accounting configuration	
log	Show Accounting Log	
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

```
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

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

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

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
__readonly__		(Optional)
TABLE_acctnvramlog_seq		(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

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

## Command Mode

- /exec

# show acl status

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

## Syntax Description

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

## Command Mode

- /exec

# show adbm internal errors

show adbm internal [ event-history ] errors

## Syntax Description

---

### Syntax Description

show	Show running system information
adbm	Show information about adbm
internal	Show internal adbm information
event-history	(Optional) Show various event logs of Adbms
errors	Show error logs of ADBM

---

## Command Mode

- /exec



# show adbm internal info

```
show adbm internal info [ { global | vsan <i0> } ]
```

## Syntax Description

Syntax Description	
show	Show running system information
adbm	Show information about adbm
internal	Show internal adbm information
info	Show internal data structure information
global	(Optional) Display adbm global info
vsan	(Optional) Enter the vsan id
<i>i0</i>	(Optional)

## Command Mode

- /exec

# show adbm internal mem-stats

show adbm internal mem-stats [ detail ]

## Syntax Description

---

### Syntax Description

show	Show running system information
adbm	Show information about adbm
internal	Show internal adbm information
mem-stats	Show memory allocation statistics of ADBM
detail	(Optional) Show detail memstats for F_Port Server

---

## Command Mode

- /exec

# show adbm internal msgs

show adbm internal [ event-history ] msgs

## Syntax Description

Syntax Description		
show		Show running system information
adbm		Show information about adbm
internal		Show internal adbm information
event-history	(Optional)	Show various event logs of Adbms
msgs		Show various message logs of ADBM

## Command Mode

- /exec

# show adbm internal vsan

show adbm internal [ event-history ] vsan <i0>

## Syntax Description

Syntax Description		
show	Show running system information	
adbm	Show information about adbm	
internal	Show internal adbm information	
event-history	(Optional) Show various event logs of Adbms	
vsan	vsan id:Enter the vsan number.	
<i>i0</i>	Enter vsan id	

## Command Mode

- /exec

# show amt internal event-history

```
show amt internal event-history { errors | msgs | cli }
```

## Syntax Description

Syntax Description		
show		Show running system information
amt		AMT show commands
internal		Commands for internal use
event-history		Show various event logs of AMT
errors		Show error logs of AMT
msgs		Show various message logs of AMT
cli		Show AMT CLI related events

## Command Mode

- /exec

# show amt internal library-info

show amt internal library-info

## Syntax Description

Syntax Description		
show		Show running system information
amt		AMT show commands
internal		Commands for internal use
library-info		Show various event logs of library

## 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

#### 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)
<i>TABLE_vrf</i>	(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)

---

*qqic4* (Optional)

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*tc4* (Optional)

---

*tl4* (Optional)

---

*rc4* (Optional)

---

*rl4* (Optional)

---

*jp4* (Optional)

---

*qqic6* (Optional)

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*tc6* (Optional)

---

*tl6* (Optional)

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*rc6* (Optional)

---

*rl6* (Optional)

---

*jp6* (Optional)

---

*grm4* (Optional)

---

*gjp4* (Optional)

---

*gslp4* (Optional)

---

*gsl4* (Optional)

---

*grm6* (Optional)

---

*gjp6* (Optional)

---

*gslp6* (Optional)

---

*gsl6* (Optional)

---

### Command Mode

- /exec



# show amt vrf all

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

## Syntax Description

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
__readonly__	(Optional)	
TABLE_vrf	(Optional)	
vrf	(Optional)	
cid	(Optional)	
ip_tid	(Optional)	
ipv6_tid	(Optional)	

## Command Mode

- /exec

# show archive log config all

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

## Syntax Description

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

## Command Mode

- /exec

## show arp access-lists

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

### Syntax Description

#### Syntax Description

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

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

### Command Mode

- /exec



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# show background

show background

## Syntax Description

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

## Command Mode

- /exec

# show banner motd

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

## Syntax Description

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

Syntax Description		
show		Show running system information
bash-shell		Show bash shell status
__readonly__	(Optional)	
operation_status	(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

Syntax Description	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

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

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 discrmap

```
show bfd discrmap [ <discr> ] [ __readonly__ TABLE_bfdDiscMapTable <ciscoBfdSessDiscMapIndex> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
bfd		BFD commands
discrmap		Session
<i>discr</i>		(Optional)
<i>__readonly__</i>		(Optional)
<i>TABLE_bfdDiscMapTable</i>	(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

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

### Syntax Description

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

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



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

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<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

Syntax	Description
show	Show running system information
bfd	BFD commands
scalar	bfd mib scalars
<i>__readonly__</i>	(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> <effasynct> <effechodt> ]
```

### Syntax Description

#### 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

<i>all</i>	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>vrf_name_header</i>	(Optional)
<i>TABLE_bfdSessTable</i>	(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 } ] { { ip | ipv4 } {
unicast | multicast } policy statistics { { redistribute [ { { eigrp | isis | ospf | rip } <tag> } | static | direct | amt
| lisp | hmm ] } } | { 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 ] } |
{ 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

### 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
ip	Display BGP information for IPv4 address family
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
tag	(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
<i>__readonly__</i>	(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>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
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
<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
block-offset	(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
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
ip	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
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
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
join	(Optional) Display Multicast Join route
sa	(Optional) Display Multicast Source Active AD route
rp	(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>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)

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

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

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*psid\_len* (Optional)

---

*psid\_lindx\_len* (Optional)

---

*psid\_lindx\_flag* (Optional)

---

*psid\_lindx* (Optional)

---

*psid\_v6sid\_len* (Optional)

---

*psid\_v6sid\_flag* (Optional)

---

*psid\_origsrgb\_len* (Optional)

---

*psid\_origsrgb\_flag* (Optional)

---

*psid\_origsrgb\_base* (Optional)

---

*psid\_origsrgb\_end* (Optional)

---

#### Command Mode

- /exec





community-list	Display routes matching the community-list
<i>commlist-name</i>	Name of community-list
extcommunity-list	Display routes matching the extcommunity-list
<i>extcommlist-name</i>	Name of extcommunity-list
<i>test_pol_name</i>	An existing test-list policy
rd	(Optional) Display information for a route distinguisher
<i>ext-comm-rd-aa4nn2</i>	(Optional) VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ip	Display BGP information for IPv4 address family
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
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
exact-match	(Optional) Exact match of the communities
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)

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

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

<i>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>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_v6sid_flag</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 } ] [ { ip | ipv4 } {
unicast | multicast } | ipv6 { unicast | multicast } | all } { rib-install | rib-uninstall | rib-pending } [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

### 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
ip	Display BGP information for IPv4 address family
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 } ] { { { ip | ipv4 } {
unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpv4 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 } | vpv6 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] |
ipv6 labeled-unicast | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] } nexthop
<ipv6nexthop> } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id>
] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> |
<nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed>
<needsresync> <locked> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ]
[ <mpath> ] ] { TABLE_path <pathnr> { { <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <status> <best> <type> { <ipnexthop> | <ipv6nexthop> } } { <inlabel>
<outlabel> <vpn> <hold_down> } | { <metric> <localpref> <weight> <aspath> <origin> } } } | { [
<policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit>
<pathmultipath> <pathnolabeledrn> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop>
} <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight>
[ <aggregator> <aggregators> ] [ <inlabel> ] [ { TABLE_community <community> } ] [ {
TABLE_extcommunity <extcommunity> } ] [ <originatorid> { TABLE_clusterlist <clusterlist> } ] [
<flappenalty> <dampenedtime> <flaps> <flaptime> <flapflaps> <flapindex> <flaphalflife> <flapreuse>
<flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len>
<psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid_flag> ] [ <psid_origsrgrb_len>
<psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr>
] } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

#### 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
ip	Display BGP information for IPv4 address family



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
l2vpn	Display BGP information for L2VPN 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
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
TABLE_prefix	(Optional)

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

<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenaity</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>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_v6sid_flag</i>	(Optional)
<i>psid_origsrgb_len</i>	(Optional)
<i>psid_origsrgb_flag</i>	(Optional)

---

*psid\_origrsrgb\_base* (Optional)

---

*psid\_origrsrgb\_end* (Optional)

---

**Command Mode**

- /exec



<i>all</i>	Display BGP information for all address families
<i>ipnexthop</i>	(Optional) Nexthop address
<i>__readonly__</i>	(Optional)
<i>TABLE_nhvr</i>	(Optional)
<i>nhvr-name-out</i>	(Optional)
<i>TABLE_nhafi</i>	(Optional)
<i>nhafi</i>	(Optional)
<i>TABLE_nhsafi</i>	(Optional)
<i>nhsafi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>nhcriticaldelay</i>	(Optional)
<i>nhnoncriticaldelay</i>	(Optional)
<i>TABLE_nexthop</i>	(Optional)
<i>ipnexthop-out</i>	(Optional)
<i>refcount</i>	(Optional)
<i>igpmetric</i>	(Optional)
<i>igptype</i>	(Optional)
<i>igppref</i>	(Optional)
<i>TABLE_attachedhops</i>	(Optional)
<i>attachedhop</i>	(Optional)
<i>interface</i>	(Optional)
<i>TABLE_labels</i>	(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)

---

*resolvetime* (Optional)

---

*pendingupdate* (Optional)

---

*pendingtime* (Optional)

---

*ribroute* (Optional)

---

*nextadvertise* (Optional)

---

*rnheepoch* (Optional)

---

*pendingrnheepoch* (Optional)

---

### Command Mode

- /exec



# show bgp

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

## Syntax Description

### 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
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>TABLE_afi</i>	(Optional)
<i>afi</i>	(Optional)
<i>TABLE_safi</i>	(Optional)

<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
<i>dampeningenabled</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>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



ipv6	Display BGP information for IPv6 address family
vpn4	Display BGP information for VPNv4 address family
vpn6	Display BGP information for VPNv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
mdt	Display BGP information for multicast distribution tree
link-state	Display BGP information for link-state address family
l2vpn	Display BGP information for L2VPN address family
vpls	Display BGP information for L2VPN VPLS address family
labeled-unicast	Display BGP information for labeled-unicast address family
mvpn	Display BGP information for MVPN address family
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
community	Display routes matching the BGP communities
<i>regexp-str</i>	Regular expression to match the communities
<i>comm-id</i>	BGP community value
<i>wellknown-id</i>	BGP wellknown community
exact-match	(Optional) Exact match of the communities
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
<i>table-version</i>	(Optional)
<i>router-id</i>	(Optional)

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

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

---

*psid\_lindx* (Optional)

---

*psid\_v6sid\_len* (Optional)

---

*psid\_v6sid\_flag* (Optional)

---

*psid\_origsrgb\_len* (Optional)

---

*psid\_origsrgb\_flag* (Optional)

---

*psid\_origsrgb\_base* (Optional)

---

*psid\_origsrgb\_end* (Optional)

---

### Command Mode

- /exec





<i>firstpeerup</i>	(Optional)
<i>configuredtimeout</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>ribribconvergencesent</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

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

## Command Mode

- /exec

## show bgp dampening dampened

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { ip | 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 [ regexp <regexp-str> ] | history-paths [ regexp <regexp-str> ] } [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ] [ _readonly_ TABLE_vrf <vrf-name-out>
TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [
<rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } ] [ <prefixversion>
<totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [
<export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit>
<pathmultipath> <status> <best> <type> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn>
<hold_down> } | { <metric> <localpref> <weight> <aspath> <origin> } } } | { <policyincomplete>
<pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric>
{ <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator>
<aggregatoras> ] [ <inlabel> ] [ { 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_flag> ] [ <psid_origsrgrb_len> <psid_origsrgrb_flag> <psid_origsrgrb_base>
<psid_origsrgrb_end> ] ] [ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ]
[ <link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [
TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

#### Syntax Description

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

<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ip	Display BGP information for IPv4 address family
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
l2vpn	Display BGP information for L2VPN 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)

## show bgp dampening dampened

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

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



---

*psid\_lindx* (Optional)

---

*psid\_v6sid\_len* (Optional)

---

*psid\_v6sid\_flag* (Optional)

---

*psid\_origsrgb\_len* (Optional)

---

*psid\_origsrgb\_flag* (Optional)

---

*psid\_origsrgb\_base* (Optional)

---

*psid\_origsrgb\_end* (Optional)

---

### Command Mode

- /exec

## show bgp dampening flap-statistics

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

### Syntax Description

#### 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 aa:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	(Optional) VPN route distinguisher in aa:nn format
ip	Display BGP information for IPv4 address family
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
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
<i>dampeningenabled</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>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 } ] [ { ip | 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> <rpm dampsuppress>
<rpm dampreuse> <rpm dampsuppress time> <rpm dampmaxpenalty> ] [ <dampconfigured> <damp halflife>
<damp suppress> <damp reuse> <damp suppress time> <damp maxpenalty> ] ] ]
```

### Syntax Description

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
	ip	Display BGP information for IPv4 address family
	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
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)
<i>af-name</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional) 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)

---

*dampsuppress* (Optional)

---

*dampreuse* (Optional)

---

*dampsuppressstime* (Optional)

---

*dampmaxpenalty* (Optional)

---

**Command Mode**

- /exec

## show bgp default-info

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

### Syntax Description

#### Syntax Description

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

### Command Mode

- /exec



## show bgp event-history

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

### Syntax Description

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

### Command Mode

- /exec

## show bgp extcommunity

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { ip | ipv4 } {
unicast | multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6
unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn
vpls [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } extcommunity
{ <regex-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi
<safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [
<on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <export-on-newlist>
<export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { {
<pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<status> <best> <type> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> } |
{ <metric> <localpref> <weight> <aspath> <origin> } } } } [ <policyincomplete> <pathvalid> <pathbest>
<pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [
<existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> |
<ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras>
] [ <inlabel> ] [ { 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_flag> ] [ <psid_origrsgb_len> <psid_origrsgb_flag> <psid_origrsgb_base> <psid_origrsgb_end>
] ] [ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <link-state-attr>
<link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto
<scheduledto> ] ] ] ]
```

### Syntax Description

#### 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
ip	Display BGP information for IPv4 address family
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
l2vpn	Display BGP information for L2VPN 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>regex-<i>str</i></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
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)

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

<i>best</i>	(Optional)
<i>status</i>	(Optional)
<i>type</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>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>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_v6sid_flag</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 internal

```
show bgp internal { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { all | debug
| io | af | mqstat | bestpath | bfd | inject-map | neighbor { <neighbor-id> | <ipv6-neighbor-id> } | route-target |
vfi [ <vfi-name> ] | peer-template <peer-template-name> | aggregates [ summary ] | peer-policy
<policy-template-name> | peer-session <session-template-name> | nve-peer-vni [ history-buffer ] | route-reflector
} [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] }
```

### Syntax Description

Syntax Description	show	Show running system information
	bgp	Display BGP status and configuration
	internal	Commands for internal use
	all	Show all info
	debug	Show debug info
	io	Show IO info
	af	Show AF info
	bestpath	Show bestpath info
	bfd	Show BFD internal info
	inject-map	Display information about inject maps
	neighbor	Show neighbor specific counters
	<i>neighbor-id</i>	Neighbor IP address
	mqstat	Show message queue stats
	aggregates	Display information about aggregates
	peer-template	Display information about a peer-template
	summary	(Optional) Summary only
	peer-session	Display information about a peer-session
	peer-policy	Display information about a peer-policy
	route-target	Display information about route-target database
	vfi	Display information about VFI database
	nve-peer-vni	Display information about NVE peer-vni database
	history-buffer	(Optional) Display history buffer for NVE peer-vni database



<i>route-reflector</i>	BGP route reflector information
<i>vfi-name</i>	(Optional) VFI name
<i>peer-template-name</i>	Peer-template name
<i>session-template-name</i>	Peer-session name
<i>policy-template-name</i>	Peer-policy name
<i>vrf</i>	(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 internal epe

show bgp internal epe

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

bgp Display BGP status and configuration

---

internal Commands for internal use

---

epe Display BGP Egress Peer Engineering (EPE) information

---

## Command Mode

- /exec

## show bgp internal evi

```
show bgp internal evi [ <evi-id> ] [ __readonly__ <l2ribbound> <l2ribvni reqs> <l2ribvni adds> <l2ribvni dels>
<evpnisup> <evpnregistered> <evpndowninprogress> <evpnupdeferred> <evpnregistercount>
<evpnregisterfail> <evpnderegistercount> <evpnderegisterfail> <evpnflowcontrol> <evpnflowcontrol enabled>
<evpnflowcontroldisabled> { [ TABLE_rinfo <rdinford> <rdinfo l3vni> <rdinfo eviid> <rdinfo name>
<rdinfo nrprefixes local> <rdinfo nrprefixes srib> <rdinfo nr exp local 3vpn paths> <rdinfo nr im pre motel 3vpn paths>
] } { [ TABLE_cfg <cfgeviid> <cfgeviindex> <cfgrd> <cfgexportrtcount> { [ TABLE_cfgexportrts
<cfgexportrt> ] } <cfgimportrtcount> { [ TABLE_cfgimportrts <cfgimportrt> ] } <cfgtopoid> <cfgvtepip>
<cfgvtepvpcip> <cfgenabled> <cfgdeletepending> <cfgnord> <cfgautord> <cfgnoimportrt> <cfgnoexportrt>
] } { [ TABLE_ctx <ctxeviid> <ctx l3vni> <ctxeviname> <ctxrd> <ctxnrprefixes local> <ctxnrprefixes total>
<ctxenabled> <ctxdeletepending> <ctxstale> <ctximportpending> <ctximportinprogress> <ctxencap>
<ctxtopoid> <ctxvtepip> <ctxvtepvpcip> <ctxactiveexportrtcount> [ <ctxactiveexportrtlist> ]
<ctxcfgexportrtcount> { [ TABLE_ctxcfgexportrts <ctxcfgexportrt> ] } <ctxexportrtchanges>
<ctxexportrtchangespending> <ctxactiveimportrtcount> [ <ctxactiveimportrtlist> ] <ctxcfgimportrtcount> {
[ TABLE_ctxcfgimportrts <ctxcfgimportrt> ] } <ctximportrtchanges> <ctximportrtchangespending>
<ctximetreg> <ctximetunreg> <ctxmacreg> <ctxmacunreg> <ctxmacipreg> <ctxmacipunreg> <ctximetadd>
<ctximetdel> <ctxmacadd> <ctxmacdel> <ctxmacipadd> <ctxmacipdel> <ctximetdnld> <ctximetwdraw>
<ctxmacdnld> <ctxmacwdraw> <ctxmacipdnld> <ctxmacipwdraw> ] } ]
```

### Syntax Description

Syntax Description		
show		Show running system information
bgp		Display BGP status and configuration
internal		Commands for internal use
evi		Display information about EVI database
<i>evi-id</i>		(Optional) EVI Id
<i>__readonly__</i>		(Optional)
<i>l2ribbound</i>		(Optional)
<i>l2ribvni reqs</i>		(Optional)
<i>l2ribvni adds</i>		(Optional)
<i>l2ribvni dels</i>		(Optional)
<i>evpnisup</i>		(Optional)
<i>evpnregistered</i>		(Optional)
<i>evpndowninprogress</i>		(Optional)
<i>evpnupdeferred</i>		(Optional)
<i>evpnregistercount</i>		(Optional)
<i>evpnregisterfail</i>		(Optional)



<i>cfgnord</i>	(Optional)
<i>cfgautord</i>	(Optional)
<i>cfgnoimportrt</i>	(Optional)
<i>cfgnoexportrt</i>	(Optional)
TABLE_ctx	(Optional)
<i>ctxevid</i>	(Optional)
<i>ctxl3vni</i>	(Optional)
<i>ctxeiname</i>	(Optional)
<i>ctxrd</i>	(Optional)
<i>ctxnrxprefixeslocal</i>	(Optional)
<i>ctxnrxprefixestotal</i>	(Optional)
<i>ctxenabled</i>	(Optional)
<i>ctxdeletepending</i>	(Optional)
<i>ctxstale</i>	(Optional)
<i>ctximportpending</i>	(Optional)
<i>ctximportinprogress</i>	(Optional)
<i>ctxencap</i>	(Optional)
<i>ctxtopoid</i>	(Optional)
<i>ctxvtepip</i>	(Optional)
<i>ctxvtepvpcip</i>	(Optional)
<i>ctxactiveexportrtcount</i>	(Optional)
<i>ctxactiveexportrtlist</i>	(Optional)
<i>ctxcfgexportrtcount</i>	(Optional)
TABLE_ctxcfgexportrts	(Optional)
<i>ctxcfgexportrt</i>	(Optional)
<i>ctxexportrtchanges</i>	(Optional)
<i>ctxexportrtchangespending</i>	(Optional)
<i>ctxactiveimportrtcount</i>	(Optional)
<i>ctxactiveimportrtlist</i>	(Optional)

<i>ctxcfgimportrtcount</i>	(Optional)
TABLE_ctxcfgimportrts	(Optional)
<i>ctxcfgimportrt</i>	(Optional)
<i>ctximportrtchanges</i>	(Optional)
<i>ctximportrtchangespending</i>	(Optional)
<i>ctximetreg</i>	(Optional)
<i>ctximetunreg</i>	(Optional)
<i>ctxmacreg</i>	(Optional)
<i>ctxmacunreg</i>	(Optional)
<i>ctxmacipreg</i>	(Optional)
<i>ctxmacipunreg</i>	(Optional)
<i>ctximetadd</i>	(Optional)
<i>ctximetdel</i>	(Optional)
<i>ctxmacadd</i>	(Optional)
<i>ctxmacdel</i>	(Optional)
<i>ctxmacipadd</i>	(Optional)
<i>ctxmacipdel</i>	(Optional)
<i>ctximetdnld</i>	(Optional)
<i>ctximetwdraw</i>	(Optional)
<i>ctxmacdnld</i>	(Optional)
<i>ctxmacwdraw</i>	(Optional)
<i>ctxmacipdnld</i>	(Optional)
<i>ctxmacipwdraw</i>	(Optional)

### Command Mode

- /exec

# show bgp internal interface

show bgp internal interface [ <interface> ]

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	bgp	Display BGP status and configuration
	internal	Commands for internal use
	interface	Display BGP interface related information
	<i>interface</i>	(Optional) Interface name of single interface to display

## Command Mode

- /exec

# show bgp internal library-info

show bgp internal library-info

## Syntax Description

Syntax	Description
show	Show running system information
bgp	Display BGP status and configuration
internal	Commands for internal use
library-info	Show various event logs of library

## Command Mode

- /exec



# show bgp internal lslib

show bgp internal lslib

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	bgp	Display BGP status and configuration
	internal	Commands for internal use
	lslib	Display BGP Link-State Library (LSLIB) information

## Command Mode

- /exec

## show bgp internal mem-stats

show bgp internal mem-stats [ { shared | all [ no-libs ] | no-libs } ] [ detail ]

### Syntax Description

Syntax Description	Description
show	Show running system information
bgp	Display BGP status and configuration
internal	Commands for internal use
mem-stats	Show memory allocation statistics
shared	(Optional) Display shared memory statistics
all	(Optional) Display private and shared memory statistics
no-libs	(Optional) Exclude libraries
detail	(Optional) Display detailed information

### Command Mode

- /exec

# show bgp internal pss

show bgp internal pss

## Syntax Description

Syntax Description	
show	Show running system information
bgp	Display BGP status and configuration
internal	Commands for internal use
pss	Display BGP Persistent System Storage (PSS) information

## Command Mode

- /exec

# show bgp internal rpc

show bgp internal rpc

## Syntax Description

Syntax Description	
show	Show running system information
bgp	Display BGP status and configuration
internal	Commands for internal use
rpc	Display BGP Resilient Per-CE (RPC) information

## Command Mode

- /exec

## show bgp internal statistics

```
show bgp internal { { ip | ipv4 } { unicast | multicast } | ipv6 { unicast | multicast } | ipv4 mdt | vpv4 unicast
| vpv6 unicast | ipv6 labeled-unicast | link-state | l2vpn vpls | ipv4 mvpn | ipv6 mvpn | l2vpn evpn | ipv4
labeled-unicast | all } statistics [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }
] [ detail ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
internal	Commands for internal use
ip	Display BGP information for IPv4 address family
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
l2vpn	Display BGP information for L2VPN address family
mvpn	Display BGP information for MVPN address family
vpls	Display BGP information for L2VPN VPLS address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
statistics	BGP Internal statistics
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
detail	(Optional) Detailed output

**Command Mode**

- /exec

## show bgp l3vpn

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

### Syntax Description

Syntax Description		
show		Show running system information
bgp		Display BGP status and configuration
l3vpn		BGP l3vpn information
vrf		(Optional) Virtual Router Context
detail		(Optional) Detailed information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
<i>__readonly__</i>		(Optional) Read Only
TABLE_vrf		(Optional)
<i>vrf-name-out</i>		(Optional) VRF name
<i>vrf-id</i>		(Optional) VRF ID
<i>vrf-state</i>		(Optional) VRF State
<i>vrf-state-rsn</i>		(Optional) VRF State Reason
<i>vrf-rd</i>		(Optional) VRF RD
<i>vrf-pending-rd</i>		(Optional) VRF pending RD
TABLE_af		(Optional)
<i>af-id</i>		(Optional) AF ID
<i>af-table-id</i>		(Optional) AF table
<i>af-name</i>		(Optional) AF table name
<i>af-state</i>		(Optional) AF table state
<i>af-state-rsn</i>		(Optional) AF table state reason

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

### Command Mode

- /exec



## show bgp neighbors

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ip | 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__ TABLE_neighbor { <neighbor> |
<ipv6neighbor> | <templatepeer> } [ <remoteas> ] [ <localas> ] <link> [ <index> ] [ <configpeer> ] [
<inherit-template> ] [ <inherit-session-template> ] [ { <prefix-parent> | <ipv6prefix-parent> } ] [ <description>
] [ <version> <remote-id> <state> <up> <elapsedtime> [ <restarttime> ] ] [ <sourceif> ] [ <connectedif> ] [
<connectedcheck> ] [ <lowmemexempt> ] [ <bfd> ] [ <ttlsecurity> ] [ <ttllimit> ] [ <password> ] [
<passiveonly> ] [ <localas-inactive> ] <remove-privateas> { { <lastread> <holdtime> <keepalivetime>
<lastwrite> [ <keepalive> ] <msgrecvd> <notificationsrcvd> <rcvbufbytes> <msgsent> <notificationssent>
<sentbytesoutstanding> <connsestablished> <connsdropped> [ <connattempts> ] } { <peerresettime>
<peerresetreason> <resettime> <resetreason> } | { <resettime> <resetreason> <peerresettime>
<peerresetreason> } } [ <capsnegotiated> <capmpadvertised> <caprefreshadvertised>
<capgrdynamicadvertised> [ <capmprecvd> <caprefreshrecvd> <capgrdynamicrecvd> ]
<capolddynamicadvertised> <capolddynamicrecvd> <caprradvertised> <caprrrecvd> <capolddradvertised>
<capolddrrrecvd> <capas4advertised> <capas4recvd> [ { TABLE_af <af-afi> TABLE_saf <af-safi>
<af-advertised> <af-recvd> <af-name> } ] [ <capgradvertised> <capgrrecvd> ] [ { TABLE_graf <gr-afi>
TABLE_grsaf <gr-safi> <gr-af-name> <gr-adv> <gr-recv> <gr-fwd> } ] [ <grrestarttime> <grstaletime> ] [
<grrecvdrestarttime> ] [ [ { TABLE_addpathscapaf <addpathscap-afi> TABLE_addpathscapsaf
<addpathscap-safi> <addpathscap-af-name> <addpathssendcap-adv> <addpathsrecvcap-adv>
<addpathssendcap-recv> <addpathsrecvcap-recv> } ] [ <capaddpathsadvertised> <capaddpathsrecvd> ] ]
<capextendednhadvertised> <capextendednhrecvd> [ { TABLE_capextendednhaf <capextendednh-afi>
TABLE_capextendednhsaf <capextendednh-safi> <capextendednh-af-name> } ] ] | [ <configholdtime>
<configkeepalivetime> ] ] [ <grstate> <gexpiry> ] [ <firstkeepalive> ] [ <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> } ] ] [ <openssent>
<opensrecvd> <updatesent> <updatesrecvd> <keepalivesent> <keepaliverecvd> <rtrefreshsent>
<rtrefreshrecvd> <capabilitiesent> <capabilitiesrecvd> <bytesent> <bytesrecvd> ] [ [ { TABLE_peraf
<per-afi> TABLE_persaf <per-safi> <per-af-name> [ <tableversion> ] [ <neighborstableversion> ] [ <pfxrecvd>
] [ <pfxbytes> ] [ <pfxsent> ] [ <conditionmap> <advertisemap> <advertisemapstatus> ]
<insoftreconfigallowed> [ <insoftreconfigallowedalways> ] [ <sendcommunity> ] [ <sendextcommunity> ]
[ { <localnexthop> | <ipv6localnexthop> } ] [ <thirdpartynexthop> ] [ <maxpfx> ] [ <maxpfx_threshold> ]
[ <soo> ] [ <weight> ] [ <allowasin> ] <asoverride> <peerascheckdisabled> [ <vpls signalingprotocol> ] [ {
TABLE_inpolicy <inpolicynr> <inpolicytype> <inpolicyname> [ <inpolicyhandle> } ] ] [ { TABLE_outpolicy
<outpolicynr> <outpolicytype> <outpolicyname> [ <outpolicyhandle> } ] ] [ <rrconfigured> ] [
<defaultoriginate> ] [ <defaultoriginatemap> ] [ <defaultsent> ] [ <grpalthsaved> ] [ <grEoRrecvd> ] [
<grEoRtime> ] [ <unsuppress-map> ] [ { TABLE_policy_template <preference> <inherit-policy-template>
} ] [ TABLE_vrf [ <vrf-name> ] [ TABLE_peer_template <inheritingpeer> ] ] ] ] [ <threadid> ] [
<passivethreadid> <passivefd> ] [ { <localaddr> | <ipv6localaddr> } <localport> { <remoteaddr> |
<ipv6remoteaddr> } <remoteport> <fd> ] ] ]
```

### Syntax Description

#### 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
ip	Display BGP information for IPv4 address family
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
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
<i>__readonly__</i>	(Optional)
TABLE_neighbor	(Optional)
<i>neighbor</i>	(Optional)
<i>templatepeer</i>	(Optional)
<i>remoteas</i>	(Optional)
<i>localas</i>	(Optional)
<i>link</i>	(Optional)
<i>index</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>sourceif</i>	(Optional)
<i>connectedif</i>	(Optional)
<i>connectedcheck</i>	(Optional)
<i>lowmemexempt</i>	(Optional)
<i>bfd</i>	(Optional)
<i>ttlsecurity</i>	(Optional)
<i>tllimit</i>	(Optional)
<i>localas-inactive</i>	(Optional)
<i>passiveonly</i>	(Optional)
<i>password</i>	(Optional)
<i>remove-privateas</i>	(Optional)
<i>lastread</i>	(Optional)
<i>holdtime</i>	(Optional)
<i>keepalivetime</i>	(Optional)
<i>lastwrite</i>	(Optional)
<i>keepalive</i>	(Optional)
<i>msgrecvd</i>	(Optional)
<i>notificationsrcvd</i>	(Optional)

<i>recvbufbytes</i>	(Optional)
<i>msgsent</i>	(Optional)
<i>notificationssent</i>	(Optional)
<i>sentbytesoutstanding</i>	(Optional)
<i>connsestablished</i>	(Optional)
<i>connsdropped</i>	(Optional)
<i>connattempts</i>	(Optional)
<i>peerresetime</i>	(Optional)
<i>peerresetreason</i>	(Optional)
<i>resetime</i>	(Optional)
<i>resetreason</i>	(Optional)
<i>configholdtime</i>	(Optional)
<i>configkeepalivetime</i>	(Optional)
<i>grstate</i>	(Optional)
<i>grexpiry</i>	(Optional)
<i>firstkeepalive</i>	(Optional)
<i>epe</i>	(Optional)
<i>epe-adj-sids</i>	(Optional)
<i>epe-peer-rpc-set</i>	(Optional)
<i>epe-peer-sid</i>	(Optional)
<i>epe-peer-set-name</i>	(Optional)
<i>epe-peer-set-rpc-set</i>	(Optional)
<i>epe-peer-set-sid</i>	(Optional)
TABLE_epe-adj	(Optional)
<i>epe-adj-ip-local</i>	(Optional)
<i>epe-adj-ip-remote</i>	(Optional)
<i>epe-adj-ifindex</i>	(Optional)
<i>epe-adj-rpc-set</i>	(Optional)
<i>epe-adj-sid</i>	(Optional)

<i>openssent</i>	(Optional)
<i>opensrcvd</i>	(Optional)
<i>updatesent</i>	(Optional)
<i>updatesrcvd</i>	(Optional)
<i>keepalivesent</i>	(Optional)
<i>keepaliverecvd</i>	(Optional)
<i>rtrefreshsent</i>	(Optional)
<i>rtrefreshrcvd</i>	(Optional)
<i>capabilitiesent</i>	(Optional)
<i>capabilitiesrcvd</i>	(Optional)
<i>bytessent</i>	(Optional)
<i>bytesrcvd</i>	(Optional)
<i>threadid</i>	(Optional)
<i>fd</i>	(Optional)
<i>passivethreadid</i>	(Optional)
<i>passivefd</i>	(Optional)
<i>localaddr</i>	(Optional)
<i>localport</i>	(Optional)
<i>remoteaddr</i>	(Optional)
<i>remoteport</i>	(Optional)
<i>capsnegotiated</i>	(Optional)
<i>capmpadvertised</i>	(Optional)
<i>capgrdynamicadvertised</i>	(Optional)
<i>capaddpathsadvertised</i>	(Optional)
<i>caprefreshadvertised</i>	(Optional)
<i>capmprcvd</i>	(Optional)
<i>capgrdynamicrcvd</i>	(Optional)
<i>capaddpathsrcvd</i>	(Optional)
<i>caprefreshrcvd</i>	(Optional)

<i>capolddynamicadvertised</i>	(Optional)
<i>capolddynamicrecvd</i>	(Optional)
<i>caprradvertised</i>	(Optional)
<i>caprrrecvd</i>	(Optional)
<i>capoldrradvertised</i>	(Optional)
<i>capoldrrrecvd</i>	(Optional)
<i>capas4advertised</i>	(Optional)
<i>capas4recvd</i>	(Optional)
TABLE_af	(Optional)
<i>af-afi</i>	(Optional)
TABLE_saf	(Optional)
<i>af-safi</i>	(Optional)
<i>af-advertised</i>	(Optional)
<i>af-recvd</i>	(Optional)
<i>af-name</i>	(Optional)
<i>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>addpathsendcap-adv</i>	(Optional)
<i>addpathsrecvcap-adv</i>	(Optional)
<i>addpathsendcap-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>pfxrecvd</i>	(Optional)
<i>pfxbytes</i>	(Optional)
<i>pfxsent</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)
<i>inpolicynr</i>	(Optional)
<i>inpolicytype</i>	(Optional)
<i>inpolicyname</i>	(Optional)
<i>inpolicyhandle</i>	(Optional)
<i>outpolicynr</i>	(Optional)
<i>outpolicytype</i>	(Optional)
<i>outpolicyname</i>	(Optional)
<i>outpolicyhandle</i>	(Optional)
<i>rrconfigured</i>	(Optional)
<i>defaultoriginate</i>	(Optional)
<i>defaultoriginatermap</i>	(Optional)
<i>defaultsent</i>	(Optional)
<i>grpathssaved</i>	(Optional)
<i>grEoRrecvd</i>	(Optional)
<i>grEoRtime</i>	(Optional)
<i>unsuppress-map</i>	(Optional)
<i>thirdpartynexthop</i>	(Optional)
<i>soo</i>	(Optional)
<i>weight</i>	(Optional)
<i>allowasin</i>	(Optional)
<i>asoverride</i>	(Optional)
<i>peerascheckdisabled</i>	(Optional)
<i>vplssignalingprotocol</i>	(Optional)



TABLE_policy_template	(Optional)
<i>preference</i>	(Optional)
<i>inherit-policy-template</i>	(Optional)
TABLE_inpolicy	(Optional)
TABLE_outpolicy	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_peer_template	(Optional)
<i>inheritingpeer</i>	(Optional)

**Command Mode**

- /exec

## show bgp neighbors

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] } { ip | ipv4 } {
unicast | multicast } | ipv6 { unicast | multicast } | all } } | vpnv4 unicast | vpnv6 unicast | ipv6 labeled-unicast
| l2vpn evpn | ipv4 labeled-unicast } neighbors { <neighbor-id> | <ipv6-neighbor-id> } { routes [ advertised
| received | dampened ] | advertised-routes | received-routes } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi
<safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [
<on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <export-on-newlist>
<export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { {
<pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<status> <best> <type> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> } |
{ <metric> <localpref> <weight> <aspath> <origin> } } } } [ <policyincomplete> <pathvalid> <pathbest>
<pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabelednrh> ] [
<existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> |
<ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras>
] [ <inlabel> ] [ { 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_flag> ] [ <psid_origrsgb_len> <psid_origrsgb_flag> <psid_origrsgb_base> <psid_origrsgb_end>
] ] [ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <link-state-attr>
<link-state-attr-len> ] [ <mdt_grp_addr> ] } } } [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto
<scheduledto> ] ] ] ]
```

### Syntax Description

Syntax Description	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
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
vpnv4	Display BGP information for VPNv4 address family
vpnv6	Display BGP information for VPNv6 address family
labeled-unicast	Display BGP information for labeled-unicast address family

ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
routes	Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
advertised-routes	Display all the routes advertised to this peer
received-routes	Display all the routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
TABLE_afi	(Optional)
afi	(Optional)
TABLE_safi	(Optional)
safi	(Optional)
af-name	(Optional)
table-version	(Optional)
router-id	(Optional)
TABLE_rd	(Optional)
rd_val	(Optional)
rd_vrf	(Optional)
rd_vniid	(Optional)
TABLE_prefix	(Optional)
ipprefix	(Optional)
nonipprefix	(Optional)

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

<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>vpn</i>	(Optional)
<i>hold_down</i>	(Optional)
<i>outlabel</i>	(Optional)
<i>flappenaity</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>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_v6sid_flag</i>	(Optional)
<i>psid_origrsrgb_len</i>	(Optional)
<i>psid_origrsrgb_flag</i>	(Optional)
<i>psid_origrsrgb_base</i>	(Optional)
<i>psid_origrsrgb_end</i>	(Optional)

**Command Mode**

- /exec





---

*sessioncmdtemplate* (Optional)

---

TABLE\_af (Optional)

---

*af-afi* (Optional)

---

TABLE\_saf (Optional)

---

*af-safi* (Optional)

---

*af-name* (Optional)

---

TABLE\_polcmd (Optional)

---

*polycmd* (Optional)

---

*polycmdstatus* (Optional)

---

*polycmdtemplate* (Optional)

---

### Command Mode

- /exec

## show bgp neighbors flap-statistics

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

### Syntax Description

#### 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
ip	Display BGP information for IPv4 address family
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
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_safi	(Optional)
<i>safi</i>	(Optional)

<i>af-name</i>	(Optional)
TABLE_rd	(Optional)
<i>rd_val</i>	(Optional)
<i>rd_vrf</i>	(Optional)
<i>rd_vniid</i>	(Optional)
<i>dampeningenabled</i>	(Optional)
<i>historypaths</i>	(Optional)
<i>dampenedpaths</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>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 } ] { ip | ipv4 } {
unicast | multicast } | ipv6 { unicast | multicast } | all } | vpnv4 unicast | vpnv6 unicast | ipv6 labeled-unicast
| l2vpn evpn | ipv4 labeled-unicast } 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

#### 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
ip	Display BGP information for IPv4 address family
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
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
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)

---

TABLE\_afi (Optional)

---

*afi* (Optional)

---

TABLE\_safi (Optional)

---

*safi* (Optional)

---

*af-name* (Optional)

---

TABLE\_id (Optional)

---

*id* (Optional)

---

*hashvalue* (Optional)

---

*refcount* (Optional)

---

*metric* (Optional)

---

*aspath* (Optional)

---

#### Command Mode

- /exec

# show bgp paths

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

## Syntax Description

### Syntax Description

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

## Command Mode

- /exec

## show bgp peer-template

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

### Syntax Description

#### Syntax Description

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

<i>ttlsecurity</i>	(Optional)
<i>ttllimit</i>	(Optional)
<i>passiveonly</i>	(Optional)
<i>password</i>	(Optional)
<i>remove-privateas</i>	(Optional)
<i>configholdtime</i>	(Optional)
<i>configkeepalivetime</i>	(Optional)
TABLE_peraf	(Optional)
<i>per-afi</i>	(Optional)
TABLE_persaf	(Optional)
<i>per-safi</i>	(Optional)
<i>per-af-name</i>	(Optional)
<i>tableversion</i>	(Optional)
<i>neighbortableversion</i>	(Optional)
<i>pxrecvd</i>	(Optional)
<i>pxbytes</i>	(Optional)
<i>pxsent</i>	(Optional)
<i>conditionmap</i>	(Optional)
<i>advertisemap</i>	(Optional)
<i>advertisemapstatus</i>	(Optional)
<i>insoftreconfigallowed</i>	(Optional)
<i>insoftreconfigallowedalways</i>	(Optional)
<i>sendcommunity</i>	(Optional)
<i>sendextcommunity</i>	(Optional)
<i>maxpx</i>	(Optional)
<i>maxpx_threshold</i>	(Optional)
<i>localnexthop</i>	(Optional)
<i>inpolicynr</i>	(Optional)
<i>inpolicytype</i>	(Optional)



<i>inpolicyname</i>	(Optional)
<i>inpolicyhandle</i>	(Optional)
<i>outpolicynr</i>	(Optional)
<i>outpolicytype</i>	(Optional)
<i>outpolicyname</i>	(Optional)
<i>outpolicyhandle</i>	(Optional)
<i>rrconfigured</i>	(Optional)
<i>defaultoriginate</i>	(Optional)
<i>defaultoriginatemap</i>	(Optional)
<i>defaultsent</i>	(Optional)
<i>grpathssaved</i>	(Optional)
<i>grEoRrecvd</i>	(Optional)
<i>grEoRtime</i>	(Optional)
<i>unsuppress-map</i>	(Optional)
<i>thirdpartynexthop</i>	(Optional)
<i>soo</i>	(Optional)
<i>weight</i>	(Optional)
<i>allowasin</i>	(Optional)
<i>asoverride</i>	(Optional)
<i>peerascheckdisabled</i>	(Optional)
<i>vplssignalingprotocol</i>	(Optional)
TABLE_policy_template	(Optional)
<i>preference</i>	(Optional)
<i>inherit-policy-template</i>	(Optional)
TABLE_inpolicy	(Optional)
TABLE_outpolicy	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_peer_template	(Optional)

---

*inheritingpeer* (Optional)

---

**Command Mode**

- /exec

## show bgp peer

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

### Syntax Description

#### Syntax Description

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

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

**Command Mode**

- /exec

# show bgp prefix-list

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ip | ipv4 } {
unicast | multicast } | ipv6 { unicast | multicast } } prefix-list { <prfxlist-name> | <test_pol_name> } [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd
[ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [
<prefixversion> <totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync>
<locked> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] {
TABLE_path <pathnr> { { <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathvermaxaslimit> <pathmultipath> <status> <best> <type> { <ipnexthop> | <ipv6nexthop> } { { <inlabel>
<outlabel> <vpn> <hold_down> } | { <metric> <localpref> <weight> <aspath> <origin> } } } | [
<policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathvermaxaslimit>
<pathmultipath> <pathnolabeledrn> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop>
} <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight>
[ <aggregator> <aggregators> ] [ <inlabel> ] [ { 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_flag> ] [ <psid_origsrgrb_len>
<psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr>
] ] ] ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ] ]
```

## Syntax Description

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
	ip	Display BGP information for IPv4 address family
	ipv4	Display BGP information for IPv4 address family
	ipv6	Display BGP information for IPv6 address family
	unicast	Display BGP information for unicast address family
	multicast	Display BGP information for multicast address family
	__readonly__	(Optional)

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

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

<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>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>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_v6sid_flag</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

#### 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

### 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 } ] { { ip | ipv4
} { unicast | multicast } | ipv6 { unicast | multicast } | all } damp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

## Syntax Description

### 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
ip	Display BGP information for IPv4 address family
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 process

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

### Syntax Description

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

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

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

<i>af-retain-rt</i>	(Optional) Retain RT
TABLE_redist	(Optional)
<i>protocol</i>	(Optional) Protocol
<i>route-map</i>	(Optional) Route Map
TABLE_add_paths_selection	(Optional)
<i>route-map</i>	(Optional) Route Map
TABLE_export_rt	(Optional)
<i>export-rt</i>	(Optional) Export route target
TABLE_import_rt	(Optional)
<i>import-rt</i>	(Optional) Import route target
TABLE_evpn_export_rt	(Optional)
<i>evpn-export-rt</i>	(Optional) Export EVPN route target
TABLE_evpn_import_rt	(Optional)
<i>evpn-import-rt</i>	(Optional) Import EVPN route target
<i>af-label-mode</i>	(Optional) Label allocation mode
<i>af-aggregate-label</i>	(Optional) Aggregate Label
<i>importdefault_prefixlimit</i>	(Optional) Maximum number of prefixes allowed
<i>importdefault_prefixcount</i>	(Optional) Current number of prefixes
<i>importdefault_map</i>	(Optional) Configured route-map
<i>exportdefault_prefixlimit</i>	(Optional) Maximum number of prefixes allowed
<i>exportdefault_prefixcount</i>	(Optional) Current number of prefixes
<i>exportdefault_map</i>	(Optional) Configured route-map
<i>af-rr</i>	(Optional) Is a Route-reflector

### Command Mode

- /exec



## show bgp received-paths

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { ip | ipv4 } {
unicast | multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6
unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn
vpls [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } received-paths
[ private ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf<vrf-name-out> TABLE_afi<afi> TABLE_safi<safi> <af-name> [ <table-version> <router-id>
] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> |
<nonipprefix> } ] [ <prefixversion> <totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed>
<needsresync> <locked> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ]
[ <mpath> ] ] { TABLE_path<pathnr> { { <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <status> <best> <type> { <ipnexthop> | <ipv6nexthop> } } { <inlabel>
<outlabel> <vpn> <hold_down> } | { <metric> <localpref> <weight> <aspath> <origin> } } } | { [
<policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit>
<pathmultipath> <pathnolabelednrh> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop>
} <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight>
[ <aggregator> <aggregators> ] [ <inlabel> ] [ { 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_flag> ] [ <psid_origsrgrb_len>
<psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr>
] ] ] ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ] ] ]
```

### Syntax Description

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
ip	Display BGP information for IPv4 address family
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
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
private	(Optional) private
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
TABLE_afi	(Optional)
afi	(Optional)
TABLE_safi	(Optional)
safi	(Optional)
af-name	(Optional)
table-version	(Optional)
router-id	(Optional)
TABLE_rd	(Optional)
rd_val	(Optional)
rd_vrf	(Optional)
rd_vniid	(Optional)

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

<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)
<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>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>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_v6sid_flag</i>	(Optional)
<i>psid_origsr gb_len</i>	(Optional)

---

*psid\_origsrgb\_flag* (Optional)

---

*psid\_origsrgb\_base* (Optional)

---

*psid\_origsrgb\_end* (Optional)

---

**Command Mode**

- /exec

## show bgp regexp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { ip | ipv4 } {
unicast | multicast } | ipv6 { unicast | multicast } | all } regexp <regexp-str> [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out>
TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [
<rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion>
<totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [
<export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit>
<pathmultipath> <status> <best> <type> { <ipnexthop> | <ipv6nexthop> } } { <inlabel> <outlabel> <vpn>
<hold_down> } | { <metric> <localpref> <weight> <aspath> <origin> } } } | [ <policyincomplete>
<pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric>
{ <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator>
<aggregators> ] [ <inlabel> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity
<extcommunity> } ] [ <originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime>
<flaps> <flaptime> <flapflags> <flapindex> <flaphalfife> <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_flag> ] [ <psid_origrsrgb_len> <psid_origrsrgb_flag> <psid_origrsrgb_base>
<psid_origrsrgb_end> ] ] [ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ]
[ <link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> } } ] [ TABLE_advertisedto <advertisedto> ] [
TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

Syntax Description	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
ip	Display BGP information for IPv4 address family
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>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>ipnexthop</i>	(Optional)
<i>neighbor</i>	(Optional)
<i>neighborid</i>	(Optional)
<i>metric</i>	(Optional)
<i>localpref</i>	(Optional)
<i>weight</i>	(Optional)
<i>existpath</i>	(Optional)
<i>aspath</i>	(Optional)
<i>origin</i>	(Optional)
<i>source</i>	(Optional)
<i>policyincomplete</i>	(Optional)
<i>pathvalid</i>	(Optional)
<i>pathbest</i>	(Optional)
<i>pathdeleted</i>	(Optional)
<i>pathstaled</i>	(Optional)
<i>pathhistory</i>	(Optional)
<i>pathmultipath</i>	(Optional)
<i>pathovermaxaslimit</i>	(Optional)
<i>pathnolabeledrn</i>	(Optional)
<i>nexthopmetric</i>	(Optional)

<i>aggregator</i>	(Optional)
<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>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>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_v6sid_flag</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 } ] { { ip | ipv4 } {
unicast | multicast } | ipv6 { unicast | multicast } | all } self-originated [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi>
TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [
<rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths>
<bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <export-on-newlist>
<export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { {
<pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<status> <best> <type> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> } |
{ <metric> <localpref> <weight> <aspath> <origin> } } } [ { <policyincomplete> <pathvalid> <pathbest>
<pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [
<existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> |
<ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras>
] [ <inlabel> ] [ { 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_flag> ] [ <psid_origrsgb_len> <psid_origrsgb_flag> <psid_origrsgb_base> <psid_origrsgb_end>
] ] [ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <link-state-attr>
<link-state-attr-len> ] [ <mdt_grp_addr> ] ] ] ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto
<scheduledto> ] ] ] ]
```

### Syntax Description

Syntax Description	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
ip	Display BGP information for IPv4 address family
ipv4	Display BGP information for IPv4 address family
ipv6	Display BGP information for IPv6 address family
unicast	Display BGP information for unicast address family
multicast	Display BGP information for multicast address family
all	Display BGP information for all address families
self-originated	Self originated routes
__readonly__	(Optional)
TABLE_vrf	(Optional)

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

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

<i>aggregatoras</i>	(Optional)
<i>inlabel</i>	(Optional)
<i>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>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_v6sid_flag</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> <remoteas> <connectionsdropped> <lastflap> <lastread>
<lastwrite> <state> <localport> <remoteport> <notificationssent> <notificationreceived> ]
```

### Syntax Description

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>remoteas</i>		(Optional)
<i>connectionsdropped</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> <updatercvd> <kasent> <karecvd> <notifsent> <notifrcvd> <rrefreshsent> <rrefreshrcvd>
<capsent> <caprcvd> ]
```

## Syntax Description

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

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

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

### Syntax Description

Syntax Description	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
ip	Display BGP information for IPv4 address family
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
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
l2vpn	Display BGP information for L2VPN address family
evpn	Display BGP information for L2VPN EVPN address family
all	Display BGP information for all address families
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional) VRF name
<i>vrf-id</i>	(Optional) VRF ID
<i>vrf-state</i>	(Optional) VRF State
<i>vrf-state-rsn</i>	(Optional) VRF State Reason
<i>vrf-delete-pending</i>	(Optional) VRF delete pending
<i>vrf-vni-id</i>	(Optional) VRF VNI ID
<i>vrf-vni-id-valid</i>	(Optional) VRF VNI ID validity
<i>vrf-encap-type</i>	(Optional) VRF encapsulation type
<i>vrf-vtep-ip</i>	(Optional) VRF VTEP IP
<i>vrf-vtep-virtual-ip</i>	(Optional) VRF VTEP Virtual IP
<i>vrf-router-mac</i>	(Optional) VRF Router MAC
<i>vrf-router-id</i>	(Optional) Router ID
<i>vrf-cfgd-id</i>	(Optional) Configured Router-ID
<i>vrf-local-as</i>	(Optional) Local AS
<i>vrf-confed-id</i>	(Optional) Cluster-ID
<i>vrf-cluster-id</i>	(Optional) Cluster-ID
<i>vrf-reconnect-interval</i>	(Optional) VRF reconnect interval
<i>vrf-peers</i>	(Optional) No. of configured peers
<i>vrf-pending-peers</i>	(Optional) No. of pending peers
<i>vrf-est-peers</i>	(Optional) No. of established peers

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

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

**Command Mode**

- /exec

# show boot

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

## Syntax Description

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

## Command Mode

- /exec

# show boot auto-copy

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

## Syntax Description

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
	Str1	(Optional)

## Command Mode

- /exec

# show boot auto-copy list

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

## Syntax Description

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

## Command Mode

- /exec

# show boot current

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

## Syntax Description

Syntax Description		
show		Show running system information
boot		Show Bootvar Variables
current		Show Current Bootvar Variables
__readonly__		(Optional)
TABLE_bootvar_current	(Optional)	Bootvar current table
Str1		(Optional)

## Command Mode

- /exec

# show boot mode

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

## Syntax Description

### Syntax Description

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

## Command Mode

- /exec



# show boot module

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

## Syntax Description

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

## Command Mode

- /exec

# show boot order

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

## Syntax Description

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

## Command Mode

- /exec

# show boot sup-1

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

## Syntax Description

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

## Command Mode

- /exec

## show boot sup-2

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

### Syntax Description

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

### Command Mode

- /exec

# show boot timings

show boot timings

## Syntax Description

Syntax	Description
show	Show running system information
boot	show boot information
timings	show boot timings

## Command Mode

- /exec

# show boot variables

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

## Syntax Description

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

## Command Mode

- /exec

# show bootmode

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

## Syntax Description

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

## Command Mode

- /exec

# show buffers ip

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

## Syntax Description

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

## Command Mode

- /exec





## C Show Commands

---

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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

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)

---

*per\_time* (Optional)

---

*per\_timeofday* (Optional)

---

*dist* (Optional)

---

**Command Mode**

- /exec

## show callhome destination-profile

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

### Syntax Description

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

### Command Mode

- /exec

## show callhome destination-profile profile

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

### Syntax Description

#### Syntax Description

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

### Command Mode

- /exec

## show callhome destination-profile profile CiscoTAC-1

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

### Syntax Description

#### Syntax Description

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

### Command Mode

- /exec



# show callhome destination-profile profile full-txt-destination

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

## Syntax Description

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

## Command Mode

- /exec

## show callhome destination-profile profile short-txt-destination

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

### Syntax Description

#### Syntax Description

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

### Command Mode

- /exec

# show callhome transport-email

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

## Syntax Description

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

## Command Mode

- /exec

## show callhome transport

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

### Syntax Description

#### Syntax Description

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

### Command Mode

- /exec

# show callhome user-def-cmds

show callhome user-def-cmds

## Syntax Description

---

### Syntax Description

---

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

---

## Command Mode

- /exec

# show cdp

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

## Syntax Description

### 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

---

*v4mgmtaddr* (Optional) IP V4 Mgmt Address

---

*v6mgmtaddr* (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

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

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

## Command Mode

- /exec

# show cdp internal event-history debugs

show cdp internal event-history debugs

## Syntax Description

Syntax Description		
show		Show running system information
cdp		Show Cisco Discovery Protocol information
internal		Commands for internal use
event-history	switch wide event history configuration	
debugs		Debug msgs of CDP

## Command Mode

- /exec

# show cdp internal event-history errors

show cdp internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
cdp		Show Cisco Discovery Protocol information
internal		Commands for internal use
event-history	switch wide event history configuration	
errors		Error logs of CDP

## Command Mode

- /exec

# show cdp internal event-history msgs

show cdp internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
cdp		Show Cisco Discovery Protocol information
internal		Commands for internal use
event-history	switch wide event history configuration	
msgs		MTS logs of CDP

## Command Mode

- /exec

# show cdp internal global-info

show cdp internal global-info

## Syntax Description

Syntax Description		
show	Show running system information	
cdp	Show Cisco Discovery Protocol information	
internal	Commands for internal use	
global-info	globally stored data	

## Command Mode

- /exec

# show cdp internal mem-stats

show cdp internal mem-stats [ detail ]

## Syntax Description

Syntax Description		
show	Show running system information	
cdp	Show Cisco Discovery Protocol information	
internal	Commands for internal use	
mem-stats	Show memory allocation statistics for CDP	
detail	(Optional) Show detail memstats for CDP	

## Command Mode

- /exec

# show cdp internal runtime-contexts

show cdp internal runtime-contexts [ interface <if> ]

## Syntax Description

Syntax Description		
show		Show running system information
cdp		Show Cisco Discovery Protocol information
internal		Commands for internal use
runtime-contexts		runtime contexts dump
interface		(Optional) runtime context dump for an interface
<i>if</i>		(Optional)

## 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

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

## Command Mode

- /exec

## show cdp neighbors detail

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

### Syntax Description

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

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

**Command Mode**

- /exec

## show cdp traffic interface2

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

### Syntax Description

#### Syntax Description

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

### Command Mode

- /exec

# show cfs application

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

## Syntax Description

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

## Command Mode

- /exec

# show cfs internal application

show cfs internal application [ { name <cfs-dyn-app-name> | sap <i1> } ]

## Syntax Description

Syntax Description		
show		Show running system information
cfs		CFS Show Command handler
internal		Show internal information
application		Show detail information of a given application
name	(Optional)	Show detail information of a given application
<i>cfs-dyn-app-name</i>	(Optional)	Registered name of the local application
sap	(Optional)	show detail information of a application for given sap
<i>i1</i>	(Optional)	SAP

## Command Mode

- /exec

# show cfs internal ethernet-peer

show cfs internal ethernet-peer { database | statistics | error-statistics | event-log }

## Syntax Description

Syntax Description		
	show	Show running system information
	cfs	CFS Show Command handler
	internal	Show internal information
	ethernet-peer	Show details of vpc peers
	database	Show details of vpc peer database
	statistics	Show statistics of eth peer
	error-statistics	Show Error statistics of eth peer
	event-log	Show event log

## Command Mode

- /exec

# show cfs internal event-history errors

show cfs internal event-history errors

## Syntax Description

Syntax Description		
	show	Show running system information
	cfs	CFS Show Command handler
	internal	Show internal information
	event-history	Show event history
	errors	Show error event history

## Command Mode

- /exec



# show cfs internal event-history init

```
show cfs internal event-history init [ { ip | ethernet-discovery | transmission } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
cfs		CFS Show Command handler
internal		Show internal information
event-history		Show event history
init		Show initialization event history
ip		(Optional) Show initialization event history for ip
ethernet-discovery		(Optional) Show initialization event history for ethernet discovery
transmission		(Optional) Show event history for ethernet transmissions

## Command Mode

- /exec

## show cfs internal event-history merge

```
show cfs internal event-history merge [ { [ name <cfs-dyn-app-name> ] | [ sap <i1> ] } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
cfs	CFS Show Command handler
internal	Show internal information
event-history	Show event history
merge	Show merge event history
name	(Optional) Show merge event history for the given name
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
sap	(Optional) Show merge event history for the given sap
<i>i1</i>	(Optional) SAP of the application

### Command Mode

- /exec

# show cfs internal event-history msgs

show cfs internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
cfs		CFS Show Command handler
internal		Show internal information
event-history		Show event history
msgs		Show various message logs

## Command Mode

- /exec

## show cfs internal event-history notif

```
show cfs internal event-history notif [ { name <cfs-dyn-app-name> | sap <i0> } ]
```

### Syntax Description

Syntax Description		
show		Show running system information
cfs		CFS Show Command handler
internal		Show internal information
event-history		Show event history
notif		Show physical notification event history
name		(Optional) Show physical notification event history for a given name
<i>cfs-dyn-app-name</i>		(Optional) Registered name of the local application
sap		(Optional) Show physical notification event history for a given sap
<i>i0</i>		(Optional) SAP of the application

### Command Mode

- /exec

# show cfs internal ip database

show cfs internal ip database

## Syntax Description

Syntax	Description
show	Show running system information
cfs	CFS Show Command handler
internal	Show internal information
ip	Show details of IP
database	Show details of IP database

## Command Mode

- /exec

# show cfs internal mem-stats

show cfs internal mem-stats [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
cfs	CFS Show Command handler
internal	Show internal information
mem-stats	Show memory statistics
detail	(Optional) Show detailed memory statistics

## Command Mode

- /exec

## show cfs internal merge log name

```
show cfs internal merge log { name <cfs-dyn-app-name> | sap <i1> }
```

### Syntax Description

Syntax Description		
show		Show running system information
cfs		CFS Show Command handler
internal		Show internal information
merge		Show cfs internal info in merge
log		Show merge logs
name		Show merge log for given name
<i>cfs-dyn-app-name</i>		Registered name of the local application
sap		Show merge log for given sap
<i>i1</i>		SAP of the application

### Command Mode

- /exec

## show cfs internal message-context name

```
show cfs internal message-context { name <cfs-dyn-app-name> | sap <i0> }
```

### Syntax Description

#### Syntax Description

show	Show running system information
cfs	CFS Show Command handler
internal	Show internal information
message-context	Show current message context details
name	Show current message contexts for given application
<i>cfs-dyn-app-name</i>	Registered name of the local application
sap	Show current message contexts for given sap
<i>i0</i>	SAP

### Command Mode

- /exec



## show cfs internal notification log name

show cfs internal notification log { name <cfs-dyn-app-name> | sap <i1> }

### Syntax Description

Syntax Description		
show		Show running system information
cfs		CFS Show Command handler
internal		Show internal information
notification		Show cfs internal info in notification
log		Show notification logs
name		Show notification log for given name
<i>cfs-dyn-app-name</i>		Registered name of the local application
sap		Show merge log for given sap
<i>i1</i>		SAP of the application

### Command Mode

- /exec

# show cfs internal remote application

show cfs internal remote application

## Syntax Description

Syntax Description		
show		Show running system information
cfs		CFS Show Command handler
internal		Show internal information
remote		Show cfs information on remote
application		Show remote cfs applications

## Command Mode

- /exec

## show cfs internal session-history name

```
show cfs internal session-history { name <cfs-dyn-app-name> [ { detail } ] | sap <i1> [ { detail2 } ] }
```

### Syntax Description

Syntax Description		
show	Show running system information	
cfs	CFS Show Command handler	
internal	Show internal information	
session-history	Show session history	
name	Show session history for given name	
<i>cfs-dyn-app-name</i>	Registered name of the local application	
detail	(Optional) Show detailed session history for given name	
sap	Show session history for given SAP	
<i>i1</i>	SAP	
detail2	(Optional) Show detailed session history	

### Command Mode

- /exec

# show cfs internal static-peers info

```
show cfs internal static-peers { info | log }
```

## Syntax Description

Syntax Description		
show		Show running system information
cfs		CFS Show Command handler
internal		Show internal information
static-peers		Show detailed information of static peers
info		Show detailed information of static peers
log		Show event history of static peers

## Command Mode

- /exec

# show cfs internal statistics

```
show cfs internal statistics [ { name <s0> | sap <i1> } ]
```

## Syntax Description

Syntax Description	
show	Show running system information
cfs	CFS Show Command handler
internal	Show internal information
statistics	Show application stats
name	(Optional) Show application stats
s0	(Optional) name
sap	(Optional) show sap stats
i1	(Optional) SAP

## Command Mode

- /exec

# show cfs internal vsan database

show cfs internal vsan database

## Syntax Description

Syntax Description	
show	Show running system information
cfs	CFS Show Command handler
internal	Show internal information
vsan	Show internal vsan info
database	Show internal vsan database

## 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

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>il</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

Syntax Description	Description
show	Show running system information
cfs	CFS Show Command handler
merge	Show cfs merge information
status	Show status of merge
name	(Optional) Show merge status by name
<i>cfs-dyn-app-name</i>	(Optional) Registered name of the local application
detail	(Optional) Show merge status by name in detail
sap	(Optional) Show merge status by sap
<i>i1</i>	(Optional) Application sap
detail2	(Optional) Show merge status by sap in detail
__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

### 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

#### 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

---

*TABLE\_switches* (Optional) all switches in region

---

*wwn* (Optional) wwn

---

*ip\_addr* (Optional) ip\_addr

---

*region* (Optional) region

---

*app\_name* (Optional) name

---

*enabled* (Optional) enabled

---

*scope* (Optional) scope

---

### Command Mode

- /exec

# show cfs remote-app vsan domain

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

## Syntax Description

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

## Command Mode

- /exec

## show cfs remote-switches vsan

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

### Syntax Description

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

### Command Mode

- /exec

# show cfs static peers

show cfs static peers

## Syntax Description

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

## Command Mode

- /exec

## show cfs status

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

### Syntax Description

#### Syntax Description

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

### Command Mode

- /exec



# show checkpoint

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

## Syntax Description

Syntax Description	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
name	(Optional) Checkpoint name
checkpoint_config	(Optional) Configuration entry from checkpoint

## Command Mode

- /exec

# show checkpoint

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

## Syntax Description

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

## Command Mode

- /exec

# show checkpoint summary

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

## Syntax Description

### Syntax Description

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

## Command Mode

- /exec

## show class-map

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

### Syntax Description

#### Syntax Description

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

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

#### Command Mode

- /exec

## show class-map type control-plane

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

### Syntax Description

#### 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 [ <imap-name-nq> ] [ __readonly__ { <display-all> <desc> <ximap-name>
<cos-list> <qos-group-list> <protocol> } ]
```

### Syntax Description

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

### Command Mode

- /exec

## show class-map type psp

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

### Syntax Description

#### Syntax Description

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



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

#### Command Mode

- /exec

# show cli alias

show cli alias [ name <s0> ]

## Syntax Description

---

**Syntax Description**

---

*show* Show running system information

---

*cli* Show CLI information

---

*alias* Display the alias configuration

---

*name* (Optional) Display a specific alias

---

*s0* (Optional) Specify the alias

---

## Command Mode

- /exec

# show cli dynamic integers

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

## Syntax Description

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)
	<i>TABLE_dynamic_integers</i>	(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

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

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

Syntax	Description
show	show
cli	cli
interface	interface
table	table

## Command Mode

- /exec

# show cli internal ishow cli ctags

{ show cli internal | ishow cli } ctags

## Syntax Description

Syntax Description	
show	Show running system information
internal	Commands for internal use
ishow	Show internal information
cli	Show CLI information
ctags	Show

## Command Mode

- /exec

# show cli internal ishow cli dynamic-keywords

{ show cli internal | ishow cli } dynamic-keywords

## Syntax Description

Syntax Description		
show		Show running system information
internal		Commands for internal use
ishow		Show internal information
cli		Show CLI information
dynamic-keywords	Show	

## Command Mode

- /exec



# show cli internal ishow cli pid

{ show cli internal | ishow cli } pid [ <epid> ]

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	internal	Commands for internal use
	ishow	Show internal information
	cli	Show CLI information
	cli	
	pid	pid
	epid	(Optional)

## Command Mode

- /exec

# show cli internal ishow cli pss

{ show cli internal | ishow cli } pss [ startup ]

## Syntax Description

Syntax	Description
show	Show running system information
internal	Commands for internal use
ishow	Show internal information
cli	Show CLI information
pss	Show
startup	(Optional) Show

## Command Mode

- /exec

# show cli internal ishow cli sdb

{ show cli internal | ishow cli } sdb

## Syntax Description

Syntax Description	
show	Show running system information
internal	Commands for internal use
ishow	Show internal information
cli	Show CLI information
sdb	Show

## Command Mode

- /exec

# show cli internal ishow cli server

{ show cli internal | ishow cli } server

## Syntax Description

Syntax Description	
show	Show running system information
internal	Commands for internal use
ishow	Show internal information
cli	Show CLI information
server	Show

## Command Mode

- /exec

# show cli internal last-command status

show cli internal last-command status

## Syntax Description

Syntax	Description
show	Show running system information
cli	Show CLI information
internal	Commands for internal use
last-command	Last command run on CLI
status	Status of last command run on CLI

## Command Mode

- /exec

# show cli internal mem-stats

show cli internal mem-stats [ no-libs ] [ detail ]

## Syntax Description

Syntax Description		
show	Show running system information	
cli	CLI	
internal	Commands for internal use	
mem-stats	Show memory allocation statistics	
no-libs	(Optional) Exclude libraries	
detail	(Optional) Display detailed information	

## Command Mode

- /exec

# show cli internal sdwrap

show cli internal sdwrap

## Syntax Description

Syntax	Description
show	Show running system information
cli	
internal	Commands for internal use
sdwrap	Show all debugging flags of clis

## Command Mode

- /exec

# show cli list

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

## Syntax Description

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

## Command Mode

- /exec



# show cli registry

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

## Syntax Description

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

## Command Mode

- /exec

# show cli syntax

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

## Syntax Description

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

## Command Mode

- /exec

# show cli variables

show cli variables

## Syntax Description

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

## Command Mode

- /exec

# show clock

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

## Syntax Description

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

## Command Mode

- /exec

# show clock utc

show clock utc

## Syntax Description

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

## Command Mode

- /exec

# show config-profile

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

## Syntax Description

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 manually

show config-profile applied manually [ *\_\_readonly\_\_* <profiles> ]

## Syntax Description

Syntax Description	
show	Show running system information
config-profile	Show config-profiles
applied	List of applied config-profiles
manually	List of all config-profiles which were configured directly from cli
<i>__readonly__</i>	(Optional)
<i>profiles</i>	(Optional)

## Command Mode

- /exec

# show configuration session

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

## Syntax Description

### Syntax Description

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

## Command Mode

- /exec



# show configuration session

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

## Syntax Description

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

## Command Mode

- /exec

# show configuration session global-info

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

## Syntax Description

### 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
<i>__readonly__</i>	(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 nx-api rest

show configuration session nx-api rest

## Syntax Description

Syntax	Description
show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
nx-api	NX-API
rest	NX-API REST JSON format

## Command Mode

- /exec

# show configuration session nx-yang json

```
show configuration session nx-yang { json | xml }
```

## Syntax Description

Syntax Description		
show	Show running system information	
configuration	Show information about configuration sessions	
session	Show active configuration sessions	
nx-yang	NXOS YANG	
json	NXOS YANG JSON format	
xml	NXOS YANG XML format	

## Command Mode

- /exec

# show configuration session status

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

## Syntax Description

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

## Command Mode

- /exec

# show configuration session summary

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

## Syntax Description

### 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>hdr</i>	(Optional)
<i>ssn-name</i>	(Optional)
<i>username</i>	(Optional)
<i>tstamp</i>	(Optional)
<i>trlr</i>	(Optional)

## Command Mode

- /exec

## show configuration session vsh

show configuration session <s3> vsh [ \_\_readonly\_\_ <ssn-name> { <ssn-cmd-num> <command> } + ]

### Syntax Description

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
vsh		
__readonly__	(Optional)	Read only
ssn-name	(Optional)	
ssn-cmd-num	(Optional)	
command	(Optional)	

### Command Mode

- /exec

# show consistency-checker copp

show consistency-checker copp

## Syntax Description

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

## Command Mode

- /exec



# show consistency-checker fex-interfaces fex

show consistency-checker fex-interfaces fex <id>

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker forwarding recover

show consistency-checker forwarding recover

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker l2-tahoe module

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

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker l2-tahoe switchport interface

show consistency-checker l2-tahoe switchport interface <if\_name>

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker l3-interface module

show consistency-checker l3-interface module <moduleid>

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker link-state module

show consistency-checker link-state module <module>

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker membership port-channels

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

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker membership vlan

show consistency-checker membership vlan <vlanid> [ private-vlan ]

## Syntax Description

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

## Command Mode

- /exec



# show consistency-checker nxapi interface

show consistency-checker nxapi interface

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker pacl module

show consistency-checker pacl module <module>

## Syntax Description

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

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 qinvni

show consistency-checker qinvni

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker racl module

show consistency-checker racl module <module>

## Syntax Description

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

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

## Command Mode

- /exec

# show consistency-checker stp-state vlan

show consistency-checker stp-state vlan <vlan>

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker vacl

show consistency-checker vacl

## Syntax Description

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

## Command Mode

- /exec



# show consistency-checker vxlan bgp

show consistency-checker vxlan bgp

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker vxlan interface

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

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker vxlan peers

show consistency-checker vxlan peers

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker vxlan routes

show consistency-checker vxlan routes

## Syntax Description

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

## Command Mode

- /exec

# show consistency-checker vxlan vlan

show consistency-checker vxlan vlan <vlanid>

## Syntax Description

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

## Command Mode

- /exec

# show controller l2-vxlan accounting log

show controller l2-vxlan <ctrl-id> accounting log

## Syntax Description

Syntax Description		
show	Show	running system information
controller	Controller	command
l2-vxlan	l2-vxlan	
<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

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

## Command Mode

- /exec

## show copp profile

```
show copp profile { strict | moderate | lenient | dense } [ __readonly__ <acl-type> <acl-grp-name> {
<permitdeny> } { <proto_str> | <proto> | <ip> | <ipv6> } { <src_any> | <src_ip_prefix> | <src_ip_addr>
<src_ip_mask> | <src_ipv6_prefix> | <src_addrgrp> | <src_mac_any> | <src_mac_addr> <src_mac_mask>
} [ <src_port_op> { <src_port1_str> | <src_port1_num> } [ <src_port2_str> | <src_port2_num> ] | <src_portgrp>
] { <dest_any> | <dest_ip_prefix> | <dest_ip_addr> <dest_ip_mask> | <dest_ipv6_prefix> | <dest_addrgrp>
| <dest_mac_any> | <dest_mac_addr> <dest_mac_mask> } [ <dest_port_op> { <dest_port1_str> |
<dest_port1_num> } [ <dest_port2_str> | <dest_port2_num> ] | <dest_portgrp> ] [ { <icmp_type> [
<icmp_code> ] | <icmp_str> } | { <icmpv6_type> [ <icmpv6_code> ] | <icmpv6_str> } ] <eth_proto> }
<newline> <cmap_name> <opt_any_or_all> { { access_grp <acc_grp_name> } | { redirect
<opt_match_redirect> } | { exception <opt_match_except> } { protocol <opt_match_protocol> } } +
<pmap_name> <class-name> <cir> <opt_kbps_mbps_gbps_pps_cir> { percent <cir-perc> } <pir>
<opt_kbps_mbps_gbps_pps_pir> { percent1 <pir-perc> } <bc> <opt_kbytes_mbytes_gbytes_bc> <be>
<opt_kbytes_mbytes_gbytes_be> { { <opt_drop_transmit_conform> } | { set-cos-transmit <set-cos-val> } |
{ set-dscp-transmit <set-dscp-val> } | { set-prec-transmit <set-prec-val> } } { { <opt_drop_transmit_exceed>
} | { set dscp1 dscp2 table cir-markdown-map } } { { <opt_drop_transmit_violate> } | { set1 dscp3 dscp4
table1 pir-markdown-map } } { { cos [ inner ] <cos-val> } | { dscp [ tunnel ] <dscp-val> } | { precedence [
tunnel1 ] <prec-val> } <policer_show_flags> <set_vld_flg> } + ]
```

### Syntax Description

#### 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
<i>__readonly__</i>	(Optional) Read Only
<i>acl-type</i>	(Optional) access-list type
<i>acl-grp-name</i>	(Optional) name of the access-list
<i>permitdeny</i>	(Optional) permit/deny
<i>proto</i>	(Optional) A protocol number
<i>proto_str</i>	(Optional) Protocol name
<i>ip</i>	(Optional) IP
<i>ipv6</i>	(Optional) IPV6
<i>src_any</i>	(Optional) SRCAny



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

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

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

**Command Mode**

- /exec

## show copp status

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

### Syntax Description

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

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

### 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)
vdc_id	(Optional) vdc id
module_id	(Optional) module id
instance	(Optional) instance number
process_name	(Optional) name of the process
pid	(Optional) process id
sys_time	(Optional) core generate time
e-vdc2	(Optional) Enter VDC <vdc-id>
vdc-id	(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

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

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

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

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 internal certificates

show crypto ca internal certificates

## Syntax Description

Syntax Description		
show	Show running system information	
crypto	show crypto configuration	
ca	show trustpoint configuration	
internal	show internal trustpoints that were created for remote certstore	
certificates	show various certificates	

## 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

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

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

### Command Mode

- /exec

# show crypto certificatemap

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

## Syntax Description

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

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

### Syntax Description

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

## Command Mode

- /exec



# show current


show current

## Syntax Description

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 diagnostic bootup level

show diagnostic bootup level [ *\_\_readonly\_\_* <bootup\_level> ]

## Syntax Description

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

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	
<i>TABLE_module</i>	(Optional) All modules table	
<i>module_id</i>	(Optional) Module Number	
<i>module_type</i>	(Optional) module type description	
<i>TABLE_test</i>	(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

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>		
<i>__readonly__</i>	(Optional)	
<i>TABLE_desc</i>	(Optional) Table of test description	
<i>testname</i>	(Optional) Test name	
<i>testdesc</i>	(Optional) Description of the test	

## Command Mode

- /exec

# show diagnostic events

show diagnostic events [ error | info ]

## Syntax Description

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

## Command Mode

- /exec

# show diagnostic ondemand setting

show diagnostic ondemand setting [ *\_\_readonly\_\_* <test\_iteration\_count> <action\_on\_failure> ]

## Syntax Description

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





<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 Imcompletly tested ports
<i>untested_ports</i>	(Optional) List of untested ports
<i>aborted_ports</i>	(Optional) List of aborted ports
<i>err_disabled_ports</i>	(Optional) List error disabled ports
<i>err_code</i>	(Optional) Error code
<i>total_run_count</i>	(Optional) Total run count
<i>last_execution_time</i>	(Optional) Last execution time
<i>first_failure_time</i>	(Optional) First test failure time
<i>last_failure_time</i>	(Optional) Last test failure time
<i>last_pass_time</i>	(Optional) Last test pass time
<i>total_fail_count</i>	(Optional) Total fail count
<i>consecutive_fail_count</i>	(Optional) Consecutive failure count
<i>last_fail_reason</i>	(Optional) Last failure reason
<i>next_execution_time</i>	(Optional) Next test execution time

### Command Mode

- /exec

# show diagnostic 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

### 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

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

### 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

### 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

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

## Command Mode

- /exec



# show dot1q-tunnel interface

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

## Syntax Description

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

## Command Mode

- /exec

# show dot1x

show dot1x [ *\_\_readonly\_\_* <sys\_auth\_ctrl> <proto\_ver> ]

## Syntax Description

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

## Command Mode

- /exec

# show dot1x all

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

## Syntax Description

### Syntax Description

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

---

*start\_period* (Optional) Show Supplicant Start Period

---

*auth\_period* (Optional) Show Supplicant Auth Period

---

*held\_period* (Optional) Show Supplicant Held Period

---

*max\_start* (Optional) Show Supplicant Max Start

---

**Command Mode**

- /exec

## show dot1x all details

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

### Syntax Description

#### Syntax Description

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

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

### Command Mode

- /exec

## show dot1x all statistics

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

### Syntax Description

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

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

**Command Mode**

- /exec



## show dot1x all summary

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

### Syntax Description

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

### Command Mode

- /exec

## show dot1x interface

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

### Syntax Description

#### Syntax Description

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

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

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

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

**Command Mode**

- /exec

# show dot1x supplicant

show dot1x supplicant

## Syntax Description

Syntax	Description
dot1x	dot1x configuration commands
supplicant	802.1x supplicant

## Command Mode

- /exec

# show dot1x supplicant interface

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

## Syntax Description

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

## Command Mode

- /exec

**show dot1x supplicant interface**





## E Show Commands

---

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# show eemtest internal eem-state

show eemtest internal eem-state

## Syntax Description

Syntax Description	
show	Show commands
eemtest	EEM test publisher commands
internal	EEM test publisher internal commands
eem-state	Show the EEM state in the test publisher

## Command Mode

- /exec

# show email

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

## Syntax Description

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

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

## Command Mode

- /exec

## show environment

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

### Syntax Description

#### Syntax Description

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

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

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



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

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

#### Command Mode

- /exec

# show eol status

show eol status

## Syntax Description

---

<b>Syntax Description</b>	show Show running system information
---------------------------	--------------------------------------

---

eol last
----------

---

status
--------

---

## Command Mode

- /exec

# show errdisable detect

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

## Syntax Description

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	
cause	(Optional) errdisable cause	
state	(Optional) Interface state	
time_interval	(Optional) err recovery time interval	

## Command Mode

- /exec

# show errdisable flap

show errdisable flap

## Syntax Description

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_rcv_vdpdu> <evb_cnt_drop_vdpdu> <evb_cnt_rcv_tlv> <evb_cnt_rcv_mgr_tlv>
<evb_cnt_rcv_assoc_tlv> <evb_cnt_rcv_cmd> ]
```

## Syntax Description

Syntax Description	show	Show running system information
	evb	EVB (Edge Virtual Bridge)
	__readonly__	(Optional)
	evb_role	(Optional) EVB role
	evb_vdp_mac	(Optional) VDP Mac address
	evb_cisco_mac	(Optional) Cisco Mac address
	evb_user_mac	(Optional) User mac address
	evb_rwd	(Optional) Resource wait init exponent
	evb_rka	(Optional) Keep-alive init exponent
	evb_cnt_rcv_vdpdu	(Optional) No. received vdpdu
	evb_cnt_drop_vdpdu	(Optional) No. dropped vdpdu
	evb_cnt_rcv_tlv	(Optional) No. received tlv
	evb_cnt_rcv_mgr_tlv	(Optional) No. received mgr tlv
	evb_cnt_rcv_assoc_tlv	(Optional) No. received assoc tlv
	evb_cnt_rcv_cmd	(Optional) No. received commands

## Command Mode

- /exec



<i>evb_cnt_assoc_vsi</i>	(Optional) No. associated VSI entires
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 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 evb interface

show evb interface [ <intf-name> ]

## Syntax Description

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

## Command Mode

- /exec

# show evb internal event-history

show evb internal event-history { <evt-hist-subsystem> | msgs }

## Syntax Description

Syntax Description		
show		Show running system information
evb		EVB (Edge Virtual Bridge)
internal		Show EVB internal information
event-history		Show EVB event history buffers
msgs		EVB various message logs
<i>evt-hist-subsystem</i>		EVB event history buffers

## Command Mode

- /exec

# show evb internal mem-stats

show evb internal mem-stats [ all ] [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
evb	EVB (Edge Virtual Bridge)
internal	Internal information
mem-stats	Dynamic memory stats
all	(Optional) Display private and shared memory statistics
detail	(Optional) Detailed information

## Command Mode

- /exec

# show evb internal state

show evb internal state

## Syntax Description

Syntax Description	
show	Show running system information
evb	EVB (Edge Virtual Bridge)
internal	Internal information
state	Internal state maintained by EVB

## 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

#### Syntax Description

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

<i>mgr_id</i>	(Optional) Manager id
<i>vsi_id</i>	(Optional) VSI id
<i>vsi_host_name</i>	(Optional) Host name
<i>interface</i>	(Optional) Interface
<i>vpc</i>	(Optional) VPC
<i>s_channel</i>	(Optional) S-Channel
<i>station_mac</i>	(Optional) Station mac address
<i>profile_id</i>	(Optional) Profile id
<i>m_state</i>	(Optional) Machine state
<i>e_state</i>	(Optional) Entry state
<i>reason</i>	(Optional) State 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-history

show event-history

## Syntax Description

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

## Command Mode

- /exec

# show event-history xbar

show event-history xbar

## Syntax Description

---

### Syntax Description

---

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

---

## Command Mode

- /exec



# show event manager environment

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

## Syntax Description

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)

## 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

#### Syntax Description

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

### Command Mode

- /exec

# show event manager events action-log

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

## Syntax Description

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

## Command Mode

- /exec

# show event manager history events

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

## Syntax Description

### Syntax Description

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

## Command Mode

- /exec

# show event manager internal clients

show event manager internal clients [ all ] [ module <module-id> ]

## Syntax Description

### Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
internal	Internal event manager commands
clients	Show information about clients registered with EEM system
all	(Optional) Show information about advanced clients as well
module	(Optional) Show information about services on other modules
<i>module-id</i>	(Optional)

## Command Mode

- /exec

# show event manager internal evmc debug counters

show event manager internal evmc debug counters

## Syntax Description

Syntax Description	
show	Show running system information
event	Event Manager commands
manager	Event Manager commands
internal	Commands for internal use
evmc	Event Manager Client commands
debug	Show debug information
counters	Show information about the debug counters

## Command Mode

- /exec

# show event manager internal evmc errors

show event manager internal evmc errors

## Syntax Description

Syntax Description	
show	Show running system information
event	Event Manager commands
manager	Event Manager commands
internal	Commands for internal use
evmc	Event Manager Client commands
errors	Show error logs

## Command Mode

- /exec

# show event manager internal evmc mem-stats

show event manager internal evmc mem-stats [ detail ]

## Syntax Description

### Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
internal	Commands for internal use
evmc	Event Manager Client commands
mem-stats	Show information about memory allocation statistics
detail	(Optional) Show detailed information about memory allocation statistics

## Command Mode

- /exec



# show event manager internal evmc msgs

show event manager internal evmc msgs

## Syntax Description

Syntax Description	
show	Show running system information
event	Event Manager commands
manager	Event Manager commands
internal	Commands for internal use
evmc	Event Manager Client commands
msgs	Show message logs

## Command Mode

- /exec

# show event manager internal evmed errors

show event manager internal evmed errors

## Syntax Description

Syntax Description	
show	Show running system information
event	Event Manager commands
manager	Event Manager commands
internal	Internal event manager commands
evmed	Generic event publisher
errors	Show error logs

## Command Mode

- /exec

# show event manager internal evmed msgs

show event manager internal evmed msgs

## Syntax Description

Syntax Description	
show	Show running system information
event	Event Manager commands
manager	Event Manager commands
internal	Internal event manager event publisher commands
evmed	Generic event publisher
msgs	Show message logs

## Command Mode

- /exec

# show event manager internal evms debug counters

show event manager internal evms debug counters

## Syntax Description

Syntax Description	
show	Show running system information
event	Event Manager commands
manager	Event Manager commands
internal	Internal event manager commands
evms	Event Manager Server commands
debug	Show debug information
counters	Show information about the debug counters

## Command Mode

- /exec

# show event manager internal evms errors

show event manager internal evms errors

## Syntax Description

Syntax Description		
show	Show running system information	
event	Event Manager commands	
manager	Event Manager commands	
internal	Internal event manager commands	
evms	Event Manager Server commands	
errors	Show error logs	

## Command Mode

- /exec

# show event manager internal evms mem-stats

show event manager internal evms mem-stats [ detail ]

## Syntax Description

### Syntax Description

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
internal	Internal event manager commands
evms	Event Manager Server commands
mem-stats	Show information about memory allocation statistics
detail	(Optional) Show detailed information about memory allocation statistics

## Command Mode

- /exec

# show event manager internal evms msgs

show event manager internal evms msgs

## Syntax Description

Syntax Description	
show	Show running system information
event	Event Manager commands
manager	Event Manager commands
internal	Internal event manager commands
evms	Event Manager Server commands
msgs	Show message logs

## Command Mode

- /exec

# show event manager internal mvsh mem-stats

show event manager internal mvsh mem-stats [ detail ]

## Syntax Description

---

**Syntax Description**

---

show	Show running system information
event	Event Manager commands
manager	Event Manager commands
internal	Commands for internal use
mvsh	MVSH commands
mem-stats	Show information about memory allocation statistics
detail	(Optional) Show detailed information about memory allocation statistics

---

## Command Mode

- /exec



# show event manager internal publisher sap

show event manager internal publisher sap <sapnum> [ module <module-id> ]

## Syntax Description

Syntax Description	
show	Show running system information
event	Event Manager commands
manager	Event Manager commands
internal	Internal event manager commands
publisher	Show information about the EEM state in a publisher
sap	Enter the SAP of the publisher
<i>sapnum</i>	The SAP of the publisher
module	(Optional) Show information about a publisher on other module
<i>module-id</i>	(Optional)

## Command Mode

- /exec

# show event manager policy-state

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

## Syntax Description

### Syntax Description

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

## Command Mode

- /exec

# show event manager policy internal

show event manager policy internal [ <policy-name> | inactive ]

## Syntax Description

Syntax Description		
show		Show running system information
event		Event Manager commands
manager		Event Manager commands
policy		Show information about applets or script policies
internal		Show detailed information about the configured/registered policies
inactive		(Optional) List the policies that are not active in the system
<i>policy-name</i>		(Optional) Show detailed information about the specified policy

## Command Mode

- /exec

# show event manager script system

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

## Syntax Description

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

## Command Mode

- /exec

# show event manager system-policy

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

## Syntax Description

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

## Command Mode

- /exec

show event manager system-policy



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# show fabric database dci

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

## Syntax Description

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

## Command Mode

- /exec

## show fabric database dci

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

### Syntax Description

#### 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>request_time</i>	(Optional)
<i>request_profile</i>	(Optional)
<i>got_profile</i>	(Optional)
<i>sent_to_ppm</i>	(Optional)
<i>profile_apply</i>	(Optional)

---

*del\_to\_ppm* (Optional)

---

**Command Mode**

- /exec

## show fabric database host

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

### Syntax Description

#### Syntax Description

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



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

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

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

### Command Mode

- /exec

## show fabric database host

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

### Syntax Description

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

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

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

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

**Command Mode**

- /exec

# show fabric database host internal

```
show fabric database host [ detail ] [ { vni <vni-id> } | { dot1q <vlan-id> } ] internal
```

## Syntax Description

Syntax	Description
show	Show running system information
fabric	Fabric
database	Fabric Database
host	Host to profile mapping
detail	(Optional) Show VDP hosts and interfaces
vni	(Optional) Virtual Network Identifier
<i>vni-id</i>	(Optional)
dot1q	(Optional) Dot1Q Encapsulation
<i>vlan-id</i>	(Optional)
internal	Internal command

## Command Mode

- /exec





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

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

**Command Mode**

- /exec

## show fabric database host statistics

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

### Syntax Description

#### Syntax Description

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

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

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

#### Command Mode

- /exec

## show fabric database host summary

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

### Syntax Description

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

### Command Mode

- /exec

## show fabric database host summary

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

### Syntax Description

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

### Command Mode

- /exec



# show fabric database internal profile-data

show fabric database internal profile-data

## Syntax Description

Syntax	Description
show	Show running system information
fabric	
database	
internal	Internal information
profile-data	Data learnt from the profile

## 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

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

### Command Mode

- /exec

# show fabric database profile-map

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

## Syntax Description

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

## Command Mode

- /exec

## show fabric database statistics

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

### Syntax Description

#### Syntax Description

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

---

*nores* (Optional) nores

---

*err* (Optional) err

---

*tmout* (Optional) tmout

---

*pend* (Optional) pend

---

**Command Mode**

- /exec

## show fabric forwarding host-db

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

### Syntax Description

#### 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
<i>__readonly__</i>	(Optional) Read Only
TABLE_forwarding_host_db_vrf	(Optional) table show fabric forwarding host-db vrf
<i>vrf</i>	(Optional) TODO
<i>vrf_id</i>	(Optional) TODO
<i>vrf_state</i>	(Optional) TODO
<i>vrf_reason</i>	(Optional) TODO
<i>vni_id</i>	(Optional) TODO
<i>refcount</i>	(Optional) TODO
<i>conversational_learning</i>	(Optional) TODO
TABLE_limit_type	(Optional) table for limit type
<i>limit_type</i>	(Optional) TODO
<i>enable</i>	(Optional) TODO
<i>threshold</i>	(Optional) TODO

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

### Command Mode

- /exec

# show fabric forwarding internal af

show fabric forwarding internal af [ { vrf { <vrf-name> | <vrf-known-name> | all } } ]

## Syntax Description

Syntax Description		
show	Show running system information	
fabric	Fabric	
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)	
internal	Internal information	
af	Show AF 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 fabric forwarding internal buffers

show fabric forwarding internal buffers [ vPC ]

## Syntax Description

Syntax	Description
show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
internal	Internal information
buffers	Internal buffer state maintained by HMM
vPC	(Optional) vPC buffer information

## Command Mode

- /exec

# show fabric forwarding internal clients

show fabric forwarding internal clients

## Syntax Description

Syntax Description		
show	Show running system information	
fabric	Fabric	
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)	
internal	Internal information	
clients	Clients of RPM	

## Command Mode

- /exec

# show fabric forwarding internal debug

show fabric forwarding internal debug

## Syntax Description

Syntax	Description
show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
internal	Internal information
debug	Internal debug info maintained by HMM

## Command Mode

- /exec

# show fabric forwarding internal event-history

show fabric forwarding internal event-history { errors | msgs | trace | events | packets | ha | periodic | auto-config | test }

## Syntax Description

### Syntax Description

show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
internal	Internal information
event-history	Show various event logs of HMM
errors	Show error logs of HMM
msgs	Show various message logs of HMM
trace	Show processing logs of HMM commands
events	Show HMM process events
packets	Show HMM process Packet events
ha	Show HMM process HA debugs
periodic	Show HMM process periodic events
auto-config	Show HMM process auto-config events
test	Show HMM process test events

## Command Mode

- /exec

# show fabric forwarding internal intf local

```
show fabric forwarding internal intf { local-host-db | remote-host-db } [ { vrf { <vrf-name> | <vrf-known-name>
| all } } ] [ <interface> ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
fabric	Fabric	
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)	
internal	Internal information	
intf	Interface on which local host is learnt	
local-host-db	HMM local host database	
remote-host-db	HMM remote 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>interface</i>	(Optional) Interface name	

## Command Mode

- /exec

## show fabric forwarding internal ip dup-host

```
show fabric forwarding internal { ip | ipv6 } dup-host [ { vrf { <vrf-name> | <vrf-known-name> | all } } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
internal	Internal information
ip	Display IP information
ipv6	Display IPv6 information
dup-host	Duplicate host
vrf	(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 fabric forwarding internal ip local-host-db

```
show fabric forwarding internal ip local-host-db [ { vrf { <vrf-name> | <vrf-known-name> | all } } ] [
<ip-prefix> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
fabric		Fabric
forwarding		Fabric Forwarding Protocol: Host Mobility Manager (HMM)
internal		Internal information
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

## Command Mode

- /exec

## show fabric forwarding internal ipv6 local-host-db

```
show fabric forwarding internal ipv6 local-host-db [ { vrf { <vrf-name> | <vrf-known-name> | all } } ] [
<ipv6-prefix> ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
fabric	Fabric	
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)	
internal	Internal information	
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	

### Command Mode

- /exec



# show fabric forwarding internal mac-bd local-host-db

```
show fabric forwarding internal mac-bd local-host-db [ { vrf { <vrf-name> | <vrf-known-name> | all } } ] [
<mac-addr> <bd> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
fabric		Fabric
forwarding		Fabric Forwarding Protocol: Host Mobility Manager (HMM)
internal		Internal information
mac-bd		MAC-BD 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>mac-addr</i>		(Optional) MAC address
<i>bd</i>		(Optional) S/W BD

## Command Mode

- /exec

# show fabric forwarding internal mem-stats

show fabric forwarding internal mem-stats [ all ] [ detail ]

## Syntax Description

Syntax Description		
show	Show running system information	
fabric	Fabric	
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)	
internal	Internal information	
mem-stats	Dynamic memory stats	
all	(Optional) Display private and shared memory statistics	
detail	(Optional) Detailed information	

## Command Mode

- /exec

# show fabric forwarding internal migration-vips

```
show fabric forwarding internal migration-vips [ { vrf { <vrf-name> | <vrf-known-name> | all } } ] [ <svi-intf> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
fabric		Fabric
forwarding		Fabric Forwarding Protocol: Host Mobility Manager (HMM)
internal		Internal information
migration-vips		HMM VIPs DB for migration
vrf		(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>svi-intf</i>		(Optional) Vlan Interface name

## Command Mode

- /exec

# show fabric forwarding internal sdb

show fabric forwarding internal sdb

## Syntax Description

Syntax	Description
show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
internal	Internal information
sdb	SDB state

## Command Mode

- /exec

# show fabric forwarding internal state

show fabric forwarding internal state

## Syntax Description

Syntax Description		
show	Show running system information	
fabric	Fabric	
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)	
internal	Internal information	
state	Internal state maintained by HMM	

## Command Mode

- /exec

# show fabric forwarding internal state vPC

show fabric forwarding internal state vPC

## Syntax Description

Syntax Description		
show	Show running system information	
fabric	Fabric	
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)	
internal	Internal information	
state	Internal state maintained by HMM	
vPC	Internal vPC state maintained by HMM	

## Command Mode

- /exec

# show fabric forwarding internal svi-info

show fabric forwarding internal svi-info [ <svi-intf> ]

## Syntax Description

Syntax Description	
show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
internal	Internal information
svi-info	SVI information DB
<i>svi-intf</i>	(Optional) Vlan Interface name

## Command Mode

- /exec

# show fabric forwarding internal topo-info

show fabric forwarding internal topo-info [ <topo-id> | stale ]

## Syntax Description

Syntax Description		
show	Show running system information	
fabric	Fabric	
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)	
internal	Internal information	
topo-info	E-VPN identifier	
<i>topo-id</i>	(Optional) E-VPN identifier (VLAN-ID or BD-ID)	
stale	(Optional) Display staled E-VPN identifier	

## Command Mode

- /exec



# show fabric forwarding internal work-info

show fabric forwarding internal work-info

## Syntax Description

Syntax	Description
show	Show running system information
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
internal	Internal information
work-info	Internal HMM worker thread info

## Command Mode

- /exec

## show fabric forwarding ip

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

### Syntax Description

#### Syntax Description

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

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

**Command Mode**

- /exec

## show fabric forwarding ipv6

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

### Syntax Description

#### Syntax Description

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

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

### Command Mode

- /exec

## show fabric forwarding statistics conversational-learning

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

### Syntax Description

#### Syntax Description

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

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

**Command Mode**

- /exec

# show fc2 bind

show fc2 bind

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

fc2 show fc2 tables and statistics

---

bind show fc2 socket bindings

---

## Command Mode

- /exec



# show fc2 classf

show fc2 classf

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
classf	show fc2 classf sessions

## Command Mode

- /exec

# show fc2 exchange

show fc2 exchange

## Syntax Description

---

### Syntax Description

---

show	Show running system information
------	---------------------------------

---

fc2	show fc2 tables and statistics
-----	--------------------------------

---

exchange	show fc2 active exchanges
----------	---------------------------

---

## Command Mode

- /exec

# show fc2 exchresp

show fc2 exchresp

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
exchresp	show fc2 active responder exchanges

## Command Mode

- /exec

# show fc2 flogi

show fc2 flogi

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
flogi	show fc2 flogi table

## Command Mode

- /exec

# show fc2 internal cmdcode

show fc2 internal cmdcode

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
cmdcode	show fc2 cmd code information

## Command Mode

- /exec

# show fc2 internal cpuhog

show fc2 internal cpuhog

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	fc2	show fc2 tables and statistics
	internal	show fc2 internal information
	cpuhog	show fc2 cpuhog value

## Command Mode

- /exec

# show fc2 internal cpuperiod

show fc2 internal cpuperiod

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
cpuperiod	show fc2 cpu period value

## Command Mode

- /exec

# show fc2 internal cputimer

show fc2 internal cputimer

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
cputimer	show fc2 cpu timer value

## Command Mode

- /exec



# show fc2 internal debugmon

show fc2 internal debugmon

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
debugmon	show fc2 debugmon value

## Command Mode

- /exec

# show fc2 internal dest\_index

show fc2 internal dest\_index

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
dest_index	show fc2 driver debug dest index

## Command Mode

- /exec

# show fc2 internal device

show fc2 internal device

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
device	show fc2 inband device

## Command Mode

- /exec

# show fc2 internal event-history errors

show fc2 internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
fc2		show fc2 tables and statistics
internal		show fc2 internal information
event-history		show fc2 event-history logs
errors		show fc2 event errors

## Command Mode

- /exec

# show fc2 internal event-history filt\_msg

show fc2 internal event-history filt\_msg

## Syntax Description

Syntax Description		
show		Show running system information
fc2		show fc2 tables and statistics
internal		show fc2 internal information
event-history		show fc2 event-history logs
filt_msg		show fc2 error filt_msg

## Command Mode

- /exec

# show fc2 internal event-history log\_errors

show fc2 internal event-history log\_errors

## Syntax Description

Syntax Description		
show		Show running system information
fc2		show fc2 tables and statistics
internal		show fc2 internal information
event-history		show fc2 event-history logs
log_errors		show fc2 error msgs

## Command Mode

- /exec

# show fc2 internal event-history msgs

show fc2 internal event-history msgs

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
event-history	show fc2 event-history logs
msgs	show fc2 msg logs

## Command Mode

- /exec

# show fc2 internal fc2\_tx\_enable

show fc2 internal fc2\_tx\_enable

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
fc2_tx_enable	show fc2 tx enable value

## Command Mode

- /exec



# show fc2 internal flag

show fc2 internal flag

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
flag	show fc2 driver flag

## Command Mode

- /exec

# show fc2 internal fragsize

show fc2 internal fragsize

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
fragsize	show fc2 skb fragment size in bytes

## Command Mode

- /exec

# show fc2 internal maxrxbuffer

show fc2 internal maxrxbuffer

## Syntax Description

Syntax Description		
show		Show running system information
fc2		show fc2 tables and statistics
internal		show fc2 internal information
maxrxbuffer		show fc2 max receive buffer size in bytes

## Command Mode

- /exec

# show fc2 internal memory\_usage

show fc2 internal memory\_usage

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
memory_usage	show fc2 memory usage

## Command Mode

- /exec

# show fc2 internal pid\_tx

show fc2 internal pid\_tx

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
pid_tx	show fc2 driver debug transmit pid

## Command Mode

- /exec

# show fc2 internal platform

show fc2 internal platform

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
platform	show fc2 platform flag

## Command Mode

- /exec

# show fc2 internal plogi

show fc2 internal plogi

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
plogi	show fc2 over-ride plogi parameters

## Command Mode

- /exec

# show fc2 internal reason\_code

show fc2 internal reason\_code

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
internal	show fc2 internal information
reason_code	show fc2 driver debug reason code

## Command Mode

- /exec



# show fc2 internal rxmaxpacket

show fc2 internal rxmaxpacket

## Syntax Description

Syntax Description		
show		Show running system information
fc2		show fc2 tables and statistics
internal		show fc2 internal information
rxmaxpacket		show fc2 receive max sequence number of packets

## Command Mode

- /exec

# show fc2 internal rxmaxsequence

show fc2 internal rxmaxsequence

## Syntax Description

Syntax Description		
	show	Show running system information
	fc2	show fc2 tables and statistics
	internal	show fc2 internal information
	rxmaxsequence	show fc2 receive max sequence value in bytes

## Command Mode

- /exec

# show fc2 internal sockqueue

show fc2 internal sockqueue <i0>

## Syntax Description

Syntax Description		
show	Show running system information	
fc2	show fc2 tables and statistics	
internal	show fc2 internal information	
sockqueue	show fc2 socket receive queue contents	
i0	fc2 socket address hex value	

## Command Mode

- /exec

# show fc2 internal tstampvalid

show fc2 internal tstampvalid

## Syntax Description

Syntax Description		
show	Show running system information	
fc2	show fc2 tables and statistics	
internal	show fc2 internal information	
tstampvalid	show fc2 timestamp valid flag	

## Command Mode

- /exec

# show fc2 internal tmaxsequence

show fc2 internal tmaxsequence

## Syntax Description

Syntax Description		
show		Show running system information
fc2		show fc2 tables and statistics
internal		show fc2 internal information
tmaxsequence		show fc2 transmit max sequence value in bytes

## Command Mode

- /exec

# show fc2 nport

show fc2 nport

## Syntax Description

---

### Syntax Description

---

`show` Show running system information

---

`fc2` show fc2 tables and statistics

---

`nport` show fc2 local nports

---

## Command Mode

- /exec

# show fc2 plogi

show fc2 plogi

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
plogi	show fc2 plogi sessions

## Command Mode

- /exec

# show fc2 plogi\_pwwn

show fc2 plogi\_pwwn

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
plogi_pwwn	show fc2 plogi pwwn entries

## Command Mode

- /exec



# show fc2 port brief

show fc2 port brief

## Syntax Description

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

## Command Mode

- /exec

# show fc2 port drops

show fc2 port drops

## Syntax Description

---

### 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

---

## Command Mode

- /exec

# show fc2 port state

show fc2 port state

## Syntax Description

Syntax Description	
show	Show running system information
fc2	show fc2 tables and statistics
port	show fc2 physical port table
state	display port state history

## Command Mode

- /exec

# show fc2 socket

show fc2 socket

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

fc2 show fc2 tables and statistics

---

socket show fc2 active sockets

---

## Command Mode

- /exec

# show fc2 sockexch

show fc2 sockexch

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
sockexch	show fc2 active exchanges for each socket

## Command Mode

- /exec

# show fc2 socknotify

show fc2 socknotify

## Syntax Description

---

### Syntax Description

---

show	Show running system information
------	---------------------------------

---

fc2	show fc2 tables and statistics
-----	--------------------------------

---

socknotify	show fc2 local nport plogi/logo notifications per each socket
------------	---

---

## Command Mode

- /exec

# show fc2 socknport

show fc2 socknport

## Syntax Description

Syntax	Description
show	Show running system information
fc2	show fc2 tables and statistics
socknport	show fc2 local nports per each socket

## Command Mode

- /exec

# show fc2 vsan

show fc2 vsan

## Syntax Description

---

### Syntax Description

---

`show` Show running system information

---

`fc2` show fc2 tables and statistics

---

`vsan` show fc2 vsan table

---

## Command Mode

- /exec



# show fcoe\_klm internal event-history errors

show fcoe\_klm internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
fcoe_klm		show fcoe_klm tables and statistics
internal		show fcoe_klm internal information
event-history		show fcoe_klm event-history logs
errors		show fcoe_klm event errors

## Command Mode

- /exec

# show fcoe\_klm internal event-history msgs

show fcoe\_klm internal event-history msgs

## Syntax Description

Syntax	Description
show	Show running system information
fcoe_klm	show fcoe_klm tables and statistics
internal	show fcoe_klm internal information
event-history	show fcoe_klm event-history logs
msgs	show fcoe_klm msg logs

## Command Mode

- /exec

# show fcoe\_klm internal flag

show fcoe\_klm internal flag

## Syntax Description

Syntax	Description
show	Show running system information
fcoe_klm	show fcoe_klm tables and statistics
internal	show fcoe_klm internal information
flag	show fcoe_klm driver flag

## Command Mode

- /exec

# show fcoe\_klm internal platform

show fcoe\_klm internal platform

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

fcoe\_klm show fcoe\_klm tables and statistics

---

internal show fcoe\_klm internal information

---

platform show fcoe\_klm driver platform

---

## Command Mode

- /exec

## show feature-set

```
show feature-set [ <name> ] [ <id> ] [ __readonly__ TABLE-cfcFeatureSetTable <name-out> <id-out>
<cfcFeatureSetName> <cfcFeatureSetAction> <cfcFeatureSetLastAction> <cfcFeatureSetLastActionResult>
<cfcFeatureSetLastFailureReason> <cfcFeatureSetOpStatus> <cfcFeatureSetOpStatusReason> ]
```

### Syntax Description

Syntax Description		
	show	Show running system information
	feature-set	Show feature set status
	<i>name</i>	(Optional) feature-set name
	<i>name-out</i>	(Optional) feature-set name
	<i>id</i>	(Optional) feature-set id
	<i>__readonly__</i>	(Optional)
	TABLE-cfcFeatureSetTable	(Optional) feature-set table
	<i>id-out</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

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-cfcFeatureCtrl2Table <cfcFeatureCtrlIndex2>
<cfcFeatureCtrlInstanceNum2> <cfcFeatureCtrlName2> <cfcFeatureCtrlAction2> <cfcFeatureCtrlLastAction2>
<cfcFeatureCtrlLastActionResult2> <cfcFeatureCtrlLastFailureReason2> <cfcFeatureCtrlOpStatus2>
<cfcFeatureCtrlOpStatusReason2> <cfcFeatureCtrlTag2> } ] ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
feature	Show feature status
__readonly__	(Optional)
TABLE-cfcFeatureCtrl2Table	(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

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

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

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

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

```
show flow exporter [ name ] [ <exportername> ] [ __readonly__ <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

### Syntax Description

show	Show running system information
flow	Show NetFlow information
exporter	Show NetFlow Exporter Configuration and Statistics
name	(Optional) Show a specific Flow Exporter
<i>exportername</i>	(Optional) Specify an exporter
<i>__readonly__</i>	(Optional)
<i>exporter</i>	(Optional)
<i>description</i>	(Optional)
<i>dest</i>	(Optional)
<i>vrf</i>	(Optional)
<i>vrf_id</i>	(Optional)
<i>vrf_resolved</i>	(Optional)
<i>dest_udp</i>	(Optional)
<i>source_intf</i>	(Optional)
<i>source_ip</i>	(Optional)
<i>dscp</i>	(Optional)
<i>seqnum</i>	(Optional)
<i>exp_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 glbl-pkt-cnt

show flow glbl-pkt-cnt

## Syntax Description

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

## Command Mode

- /exec

## show flow interface

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

### Syntax Description

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

### Command Mode

- /exec



# show flow internal

```
show flow internal { { info [ session-errors ] } | [ global ] }
```

## Syntax Description

Syntax Description		
show		Show running system information
flow		Show information about netflow
internal		Show internal nfm information
info		Show internal data structure information
session-errors	(Optional)	Show Netflow session error history
global	(Optional)	Display nfm global info

## Command Mode

- /exec

# show flow internal counter error

show flow internal counter error

## Syntax Description

Syntax Description	
show	Show running system information
flow	Show NetFlow information
internal	Show internal nfm information
counter	Show nfm counter
error	Show nfm info counters

## Command Mode

- /exec

# show flow internal counter info

show flow internal counter info

## Syntax Description

Syntax	Description
show	Show running system information
flow	Show NetFlow information
internal	Show internal nfm information
counter	Show nfm counter
info	Show nfm info counters

## Command Mode

- /exec

# show flow internal counter mts

show flow internal counter mts

## Syntax Description

Syntax Description	
show	Show running system information
flow	Show information about netflow
internal	Show internal nfm information
counter	Show nfm counter
mts	Counter for export msg drops

## Command Mode

- /exec

# show flow internal ddb db

```
show flow internal ddb db [ __readonly__ <ddb_log_string> ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	flow	Show information about netflow
	internal	Show internal nfm information
	ddb	DDB information
	db	DDB database
	__readonly__	(Optional)
	<i>ddb_log_string</i>	(Optional)

## Command Mode

- /exec

# show flow internal event-history

show flow internal event-history

## Syntax Description

Syntax	Description
show	Show running system information
flow	Show information about netflow
internal	Show internal nfm information
event-history	Show various event logs of NFM

## Command Mode

- /exec

# show flow internal event-history ddb

show flow internal event-history ddb

## Syntax Description

Syntax Description		
show		Show running system information
flow		Show information about netflow
internal		Show internal nfm information
event-history		Show various event logs of NFM
ddb		Show various ddb logs

## Command Mode

- /exec

# show flow internal event-history errors

show flow internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
flow		Show information about netflow
internal		Show internal nfm information
event-history		Show various event logs of NFM
errors		Show error logs of NFM

## Command Mode

- /exec



# show flow internal event-history events

show flow internal event-history events

## Syntax Description

Syntax Description		
	show	Show running system information
	flow	Show information about netflow
	internal	Show internal nfm information
	event-history	Show various event logs of NFM
	events	Show various NFM events

## Command Mode

- /exec

# show flow internal event-history export

show flow internal event-history export

## Syntax Description

Syntax Description		
show		Show running system information
flow		Show information about netflow
internal		Show internal nfm information
event-history		Show various event logs of NFM
export		Show NFM export packet logs

## Command Mode

- /exec

# show flow internal event-history lif

show flow internal event-history lif

## Syntax Description

Syntax Description		
show		Show running system information
flow		Show information about netflow
internal		Show internal nfm information
event-history		Show various event logs of NFM
lif		Show NFM logical interface logs

## Command Mode

- /exec

# show flow internal event-history msgs

show flow internal event-history msgs

## Syntax Description

Syntax Description		
	show	Show running system information
	flow	Show information about netflow
	internal	Show internal nfm information
	event-history	Show various event logs of NFM
	msgs	Show various message logs of NFM

## Command Mode

- /exec

# show flow internal event-history swcache

show flow internal event-history swcache

## Syntax Description

Syntax Description		
show		Show running system information
flow		Show information about netflow
internal		Show internal nfm information
event-history		Show various event logs of NFM
swcache		Show NFM software cache logs

## Command Mode

- /exec

# show flow internal lif status

```
show flow internal lif status [ __readonly__ <ifindex> <vlan_id> <num_members> <slot_number>
<num_ports> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
flow	Show information about netflow
internal	Show internal nfm information
lif	Logical interface
status	Download status
<i>__readonly__</i>	(Optional)
<i>ifindex</i>	(Optional) Interface
<i>vlan_id</i>	(Optional)
<i>num_members</i>	(Optional)
<i>slot_number</i>	(Optional)
<i>num_ports</i>	(Optional)

## Command Mode

- /exec

# show flow internal mem-stats

show flow internal mem-stats [ no-libs ] [ detail ]

## Syntax Description

Syntax Description		
show	Show running system information	
flow	Show information about netflow	
internal	Show internal nfm information	
mem-stats	Show memory allocation statistics of NFM	
no-libs	(Optional) Exclude libraries	
detail	(Optional) Show detail memstats for NetFlow Manager	

## Command Mode

- /exec

# show flow internal template

show flow internal template [ <template\_id> ]

## Syntax Description

Syntax Description		
	show	Show running system information
	flow	Show information about netflow
	internal	Show internal nfm information
	template	Show all the template fields
	<i>template_id</i>	(Optional) template id

## Command Mode

- /exec



# show flow monitor

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

## Syntax Description

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

## Command Mode

- /exec

## show flow record

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

### Syntax Description

#### Syntax Description

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

### Command Mode

- /exec

# show flow sw-monitor

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

## Syntax Description

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

## Command Mode

- /exec

# show flow timeout

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

## Syntax Description

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

## Command Mode

- /exec

# show forwarding adjacency

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

## Syntax Description

### Syntax Description

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

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

**Command Mode**

- /exec

# show forwarding bypass-hardware

show forwarding bypass-hardware [ module <module> ]

## Syntax Description

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

## Command Mode

- /exec

# show forwarding capture

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

## Syntax Description

### Syntax Description

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

## Command Mode

- /exec



# show forwarding dvif primary

show forwarding dvif primary

## Syntax Description

<b>Syntax Description</b>	show	show
	forwarding	forwarding
	dvif	simulate dvif region role change
	primary	role has become primary

## Command Mode

- /exec

# show forwarding dvif secondary

show forwarding dvif secondary

## Syntax Description

---

**Syntax Description**

---

show      show

---

forwarding   forwarding

---

dvif          simulate dvif region role change

---

secondary    role has become secondary

---

## Command Mode

- /exec

## show forwarding ecmp

```
show forwarding ecmp [ { [ vrf { <vrf-name> | <vrf-known-name> } ] lisp } ] [ platform ] [ module <module> ] [ partial ] [ __readonly__ <header> <ecmp_hash> <intf> <nh> <v6nh> <hw_index> <num_mpls> <holder> <refcount> <num_paths> <sw_ptr> <ecmp_partial> ]
```

### Syntax Description

Syntax Description	show
forwarding	Display fib information
ecmp	Show information about ECMPs
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
lisp	(Optional) Show information about LISP ECMPs
platform	(Optional) one command to show pi and pd info together
module	(Optional) slot
partial	(Optional) Show partially installed ECMPs
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) o/p header
<i>ecmp_hash</i>	(Optional) ecmp hash
<i>intf</i>	(Optional) interface
<i>nh</i>	(Optional) next hop
<i>v6nh</i>	(Optional) V6 next hop
<i>hw_index</i>	(Optional) Hw index
<i>num_mpls</i>	(Optional) No of MPLS ecmp
<i>holder</i>	(Optional) holder bitmap
<i>refcount</i>	(Optional) refcount
<i>sw_ptr</i>	(Optional) Software pointer
<i>num_paths</i>	(Optional) No of paths
<i>ecmp_partial</i>	(Optional) partial ecmp

**Command Mode**

- /exec

# show forwarding ecmp recursive

```
show forwarding ecmp recursive [ platform ] [ max-display-count <display_count> ] [ module <module> ] [
partial ] [ __readonly__ <header> <num_pfxs> <rn timer_id> <nh> <rn timer_len> <v6nh> <hw_instance>
<nh_vpn_label> <nh_weight> <cnh_intf> <ecmp_partial> ]
```

## Syntax Description

Syntax Description	
show	
forwarding	Display fib information
ecmp	Show information about ECMPs
recursive	Show information about recursive ECMPs
platform	(Optional) one command to show pi and pd info together
module	(Optional) slot
partial	(Optional) Show partially installed ECMPs
<i>module</i>	(Optional) slot number
max-display-count	(Optional) displays max # of routes
<i>display_count</i>	(Optional) count
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) o/p header
<i>num_pfxs</i>	(Optional) Number of prefixes using this virtual object
<i>rn timer_id</i>	(Optional) The table id where the RNs are present
<i>nh</i>	(Optional) Next hop info
<i>rn timer_len</i>	(Optional) Next hop mask length
<i>v6nh</i>	(Optional) V6 Next hop info
<i>hw_instance</i>	(Optional) Hardware instance info
<i>nh_vpn_label</i>	(Optional) NH VPN label
<i>nh_weight</i>	(Optional) weighted ecmp info
<i>cnh_intf</i>	(Optional) cnh output interface
<i>ecmp_partial</i>	(Optional) partial ecmp

## Command Mode

- /exec

# show forwarding file-log disable

show forwarding file-log disable

## Syntax Description

Syntax Description		
show	show	
forwarding	forwarding	
file-log	logging to tmp file	
disable	disable	

## Command Mode

- /exec

# show forwarding file-log enable

show forwarding file-log enable

## Syntax Description

Syntax Description		
show	show	
forwarding	forwarding	
file-log	logging to tmp file	
enable	enable	

## Command Mode

- /exec

# show forwarding interfaces

```
show forwarding interfaces [ module <module> ] [ __readonly__ <intf> <v4adjcnt> <v6adjcnt> <rpfmode>
<mac> ]
```

## Syntax Description

Syntax Description	show
forwarding	fib information
interfaces	show fib interface info
__readonly__	(Optional)
<i>intf</i>	(Optional) interface name
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>v4adjcnt</i>	(Optional) count of v4 adjacencies
<i>v6adjcnt</i>	(Optional) count of v6 adjacencies
<i>mac</i>	(Optional) mac address
<i>rpfmode</i>	(Optional) uRPF mode

## Command Mode

- /exec



# show forwarding internal debugs

show forwarding internal debugs

## Syntax Description

Syntax	Description
show	
forwarding	forwarding information
internal	IPFIB internal information
debugs	show debug traces

## Command Mode

- /exec

# show forwarding internal error counts

```
show forwarding internal error counts [ module <module> ] [ __readonly__ <err-str><count> ]
```

## Syntax Description

### Syntax Description

show	
forwarding	display fib information
internal	internal information
error	display internal errors
counts	display error counts
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)

## Command Mode

- /exec

# show forwarding internal errors

show forwarding internal errors

## Syntax Description

Syntax Description	
show	
forwarding	display fib information
internal	internal information
errors	show IPFBIB error traces

## Command Mode

- /exec

# show forwarding internal info

show forwarding internal info

## Syntax Description

---

### Syntax Description

---

show

---

forwarding forwarding information

---

internal IPFIB internal  
information

---

info show IPFIB data

---

## Command Mode

- /exec

# show forwarding internal ipfib debugs

show forwarding internal ipfib debugs

## Syntax Description

Syntax Description	
show	
forwarding	forwarding information
internal	IPFIB internal information
ipfib	ipfib
debugs	show debug traces

## Command Mode

- /exec

# show forwarding internal l2mcast debugs

show forwarding internal l2mcast debugs

## Syntax Description

Syntax	Description
show	
forwarding	forwarding information
internal	l2mcast internal information
l2mcast	l2 multicast
debugs	show debug traces

## Command Mode

- /exec

# show forwarding internal l2vpn counters

show forwarding internal l2vpn counters [ clear ] [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
l2vpn	l2vpn forwarding	
counters	counters	
clear	(Optional) clear	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

## show forwarding internal l2vpn trace member-config

show forwarding internal l2vpn trace member-config [ module <module> ]

### Syntax Description

Syntax Description	show	show
forwarding	display	fib information
internal	internal	information
trace	bintrace	information
l2vpn	L2VPN	
member-config	member bintrace	configuration
module	(Optional)	slot
<i>module</i>	(Optional)	slot number

### Command Mode

- /exec



# show forwarding internal l2vpn trace member-history

show forwarding internal l2vpn trace member-history [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
l2vpn		L2VPN
trace		internal trace
member-history		member history
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec

# show forwarding internal mem-stats

show forwarding internal mem-stats [ detail ]

## Syntax Description

Syntax Description	
show	
forwarding	forwarding information
internal	IPFIB internal information
mem-stats	show memory allocation stats for IPFIB
detail	(Optional) show detail memstats for IPFIB

## Command Mode

- /exec

# show forwarding internal message counts

show forwarding internal message counts [ module <module> ] [ \_\_readonly\_\_ <msg-str><count> ]

## Syntax Description

Syntax Description	
show	
forwarding	display fib information
internal	internal information
message	display internal message counts
counts	display internal message counts
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)

## Command Mode

- /exec

# show forwarding internal mpls counters

show forwarding internal mpls counters [ clear ] [ module <module> ]

## Syntax Description

Syntax Description	show	show
	forwarding	display fib information
	internal	internal information
	mpls	mpls forwarding
	counters	counters
	clear	(Optional) clear
	module	(Optional) slot
	<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal mpls debugs

show forwarding internal mpls debugs

## Syntax Description

Syntax	Description
show	
forwarding	forwarding information
internal	IPFIB internal information
mpls	mpls lfib information
debugs	show debug traces

## Command Mode

- /exec

# show forwarding internal mpls trace adj-config

show forwarding internal mpls trace adj-config [ module <module> ]

## Syntax Description

Syntax Description	show	show
forwarding	display fib information	
internal	internal information	
mpls	mpls forwarding	
trace	internal trace	
adj-config	bintrace configuration	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal mpls trace adj-history

show forwarding internal mpls trace adj-history [ module <module> ]

## Syntax Description

Syntax Description	
show	show
forwarding	display fib information
internal	internal information
mpls	mpls forwarding
trace	internal trace
adj-history	adj-history
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal mpls trace ecmp-config

show forwarding internal mpls trace ecmp-config [ module <module> ]

## Syntax Description

Syntax Description	show	show
forwarding	display	fib information
internal	internal	information
mpls	mpls	forwarding
trace	internal	trace
ecmp-config	ECMP bintrace	configuration
module	(Optional)	slot
<i>module</i>	(Optional)	slot number

## Command Mode

- /exec



# show forwarding internal mpls trace ecmp-history

show forwarding internal mpls trace ecmp-history [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding	display fib information	
internal	internal information	
mpls	mpls forwarding	
trace	internal trace	
ecmp-history	ECMP history	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal mpls trace label-config

show forwarding internal mpls trace label-config [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
mpls	mpls	
trace	internal trace	
label-config	label bintrace configuration	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal mpls trace label-history

show forwarding internal mpls trace label-history [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
mpls	mpls	
trace	internal trace	
label-history	label history	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal mpls trace te-config

show forwarding internal mpls trace te-config [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
mpls	mpls forwarding	
trace	internal trace	
te-config	TE bintrace configuration	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal mpls trace te-history

show forwarding internal mpls trace te-history [ module <module> ]

## Syntax Description

Syntax Description	
show	show
forwarding	display fib information
internal	internal information
mpls	mpls forwarding
trace	internal trace
te-history	te-history
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal msgs

show forwarding internal msgs

## Syntax Description

Syntax Description	
show	
forwarding	forwarding information
internal	IPFIB internal information
msgs	show IPFIB mts messages

## Command Mode

- /exec

# show forwarding internal multicast counts

```
show forwarding internal multicast counts [ module <module> vdc <vdc_id> ] [ __readonly__ <err-str><count> ]
```

## Syntax Description

Syntax Description	
show	
forwarding	display fib information
internal	internal information
multicast	multicast counters
counts	display counts
module	(Optional) slot
<i>module</i>	(Optional) slot number
vdc	(Optional) vdc id
<i>vdc_id</i>	(Optional) vdc id
<i>__readonly__</i>	(Optional)

## Command Mode

- /exec

# show forwarding internal multicast counts clear

show forwarding internal multicast counts clear [ module <module> vdc <vdc\_id> ]

## Syntax Description

Syntax Description	
show	
forwarding	display fib information
internal	internal information
multicast	multicast counters
counts	display counts
clear	clear mfib counts
module	(Optional) slot
<i>module</i>	(Optional) slot number
vdc	(Optional) vdc id
<i>vdc_id</i>	(Optional) vdc id

## Command Mode

- /exec



# show forwarding internal multicast debugs

show forwarding internal multicast debugs

## Syntax Description

Syntax Description	
show	
forwarding	forwarding information
internal	IPFIB internal information
multicast	multicast
debugs	show debug traces

## Command Mode

- /exec

# show forwarding internal multicast pd debugs

show forwarding internal multicast pd debugs

## Syntax Description

Syntax	Description
show	
forwarding	forwarding information
internal	IPFIB internal information
multicast	multicast
pd	pd
debugs	show debug traces

## Command Mode

- /exec

# show forwarding internal nve counters

```
{ show | clear } forwarding internal nve counters { peer { <ipv4> | all } }
```

## Syntax Description

Syntax Description		
show	Show running system information	
clear	Reset functions	
forwarding	Forwarding information	
internal	internal information	
nve	NVE interface related	
all	All peers	
counters	Show NVE counters	
peer	Show NVE peer counters	
<i>ipv4</i>	NVE peer address	

## Command Mode

- /exec

# show forwarding internal nve ir-peer

show forwarding internal nve ir-peer

## Syntax Description

Syntax Description		
show	Show running system information	
forwarding	Forwarding information	
internal	internal information	
nve	NVE interface related	
ir-peer	Show NVE ir peer info	

## Command Mode

- /exec

# show forwarding internal pss disable

show forwarding internal pss disable

## Syntax Description

Syntax Description	
show	
forwarding	display fib information
internal	internal information
pss	display info from pss
disable	disable

## Command Mode

- /exec

# show forwarding internal pss enable

show forwarding internal pss enable

## Syntax Description

Syntax	Description
show	
forwarding	display fib information
internal	internal information
pss	display info from pss
enable	enable

## Command Mode

- /exec

# show forwarding internal received nexthops

show forwarding internal received nexthops [ module <module> ]

## Syntax Description

Syntax	Description
show	
forwarding	display fib information
internal	internal information
received	BGP learnt
nexthops	Nexthops
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace-profile debugs

show forwarding internal trace-profile debugs

## Syntax Description

Syntax Description	
show	
forwarding	forwarding information
internal	IPFIB internal information
trace-profile	Trace Profile
debugs	show debug traces

## Command Mode

- /exec



# show forwarding internal trace bt-queue

show forwarding internal trace bt-queue { v4-pfx | v6-pfx | v4-adj | v6-adj | v4-rnh | v6-rnh | vobj | labels | ecmp | mpls-ecmp | mpls-adj | te | otv-adj | otv-vlan | all } + [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
trace	internal trace	
bt-queue	bintrace queue	
v4-pfx	v4-pfx	
v6-pfx	v6-pfx	
v4-adj	v4-adj	
v6-adj	v6-adj	
v4-rnh	v4-rnh	
v6-rnh	v6-rnh	
vobj	virtual object	
labels	labels	
ecmp	ecmp	
mpls-ecmp	mpls-ecmp	
mpls-adj	mpls-adj	
te	te	
otv-adj	otv-adj	
otv-vlan	otv-vlan	
all	Display information for all queues	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal trace ecmp-config

show forwarding internal trace ecmp-config [ module <module> ]

## Syntax Description

Syntax Description	show	show
forwarding	display	fib information
internal	internal	information
trace	internal	trace
ecmp-config	ECMP bintrace	configuration
module	(Optional)	slot
<i>module</i>	(Optional)	slot number

## Command Mode

- /exec

# show forwarding internal trace ecmp-history

show forwarding internal trace ecmp-history [ module <module> ]

## Syntax Description

Syntax	Description
show	show
forwarding	display fib information
internal	internal information
trace	internal trace
ecmp-history	ECMP history
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace mfib oif-config

show forwarding internal trace mfib oif-config [ module <module> ]

## Syntax Description

Syntax Description	
show	show
forwarding	display fib information
internal	internal information
trace	bintrace information
mfib	mfib information
oif-config	oif bintrace configuration
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace mfib oif-history

```
show forwarding internal trace mfib oif-history [ module <module> ]
```

## Syntax Description

Syntax Description	
show	show
forwarding	display fib information
internal	internal information
trace	bintrace information
mfib	mfib information
oif-history	oif history
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace mfib oiflist-config

show forwarding internal trace mfib oiflist-config [ module <module> ]

## Syntax Description

Syntax Description	show	show
	forwarding	display fib information
	internal	internal information
	trace	bintrace information
	mfib	mfib information
	oiflist-config	oiflist bintrace configuration
	module	(Optional) slot
	<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace mfib oiflist-history

```
show forwarding internal trace mfib oiflist-history [ module <module> ]
```

## Syntax Description

Syntax Description		
show		show
forwarding	display fib information	
internal	internal information	
trace	bintrace information	
mfib	mfib information	
oiflist-history	oiflist history	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal trace mfib otv oif-config

show forwarding internal trace mfib otv oif-config [ module <module> ]

## Syntax Description

Syntax Description	
show	show
forwarding	display fib information
internal	internal information
trace	bintrace information
mfib	mfib information
otv	otv information
oif-config	oif bintrace configuration
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec



# show forwarding internal trace mfib otv oif-history

show forwarding internal trace mfib otv oif-history [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
trace	bintrace information	
mfib	mfib information	
otv	otv information	
oif-history	oif history	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal trace mfib otv oiflist-history

show forwarding internal trace mfib otv oiflist-history [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
trace	bintrace information	
mfib	mfib information	
otv	otv information	
oiflist-history	oiflist history	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal trace mfib otv oiflist-config

show forwarding internal trace mfib otv oiflist-config [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
trace	bintrace information	
mfib	mfib information	
otv	otv information	
oiflist-config	oiflist bintrace configuration	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal trace mfib otv v4-route-history

show forwarding internal trace mfib otv v4-route-history [ module <module> ]

## Syntax Description

Syntax Description	show	show
forwarding	display fib information	
internal	internal information	
trace	bintrace information	
mfib	mfib information	
otv	otv route history	
v4-route-history	otv v4 route history	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal trace mfib otv v4-route-config

show forwarding internal trace mfib otv v4-route-config [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
trace	bintrace information	
mfib	mfib information	
otv	otv route configuration	
v4-route-config	otv v4 route bintrace configuration	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal trace mfib otv v6-route-history

show forwarding internal trace mfib otv v6-route-history [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		bintrace information
mfib		mfib information
otv		otv route history
v6-route-history		otv v6 route history
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace mfib otv v6-route-config

show forwarding internal trace mfib otv v6-route-config [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
trace	bintrace information	
mfib	mfib information	
otv	otv route configuration	
v6-route-config	otv v6 route bintrace configuration	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal trace mfib platform oiflist-history

show forwarding internal trace mfib platform oiflist-history [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
trace	internal trace	
mfib	mfib information	
platform	platform information	
oiflist-history	oiflist history	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec



# show forwarding internal trace mfib platform oiflist-config

show forwarding internal trace mfib platform oiflist-config [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
trace	internal trace	
mfib	mfib information	
platform	platform information	
oiflist-config	oiflist bintrace configuration	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal trace mfib v4-route-config

show forwarding internal trace mfib v4-route-config [ module <module> ]

## Syntax Description

Syntax Description	show	show
	forwarding	display fib information
	internal	internal information
	trace	bintrace information
	mfib	mfib information
	v4-route-config	V4 route bintrace configuration
	module	(Optional) slot
	<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace mfib v4-route-history

show forwarding internal trace mfib v4-route-history [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		bintrace information
mfib		mfib information
v4-route-history		v4 route history
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace mfib v6-route-config

show forwarding internal trace mfib v6-route-config [ module <module> ]

## Syntax Description

Syntax Description	show	show
forwarding	display	fib information
internal	internal	information
trace	bintrace	information
mfib	mfib	information
v6-route-config	V6 route	bintrace configuration
module	(Optional)	slot
<i>module</i>	(Optional)	slot number

## Command Mode

- /exec

# show forwarding internal trace mfib v6-route-history

show forwarding internal trace mfib v6-route-history [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		bintrace information
mfib		mfib information
v6-route-history		v6 route history
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace nve-ir-peer-history

show forwarding internal trace nve-ir-peer-history [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		internal trace
nve-ir-peer-history		NVE ir-peer history
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace nve-l3-vni-history

show forwarding internal trace nve-l3-vni-history [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		internal trace
nve-l3-vni-history		NVE L3 VNI history
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace nve-peer-history

show forwarding internal trace nve-peer-history [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		internal trace
nve-peer-history		NVE peer history
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec



# show forwarding internal trace otv-adj-config

```
show forwarding internal trace otv-adj-config [ module <module> ]
```

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		internal trace
otv-adj-config		OTV adjacency bintrace configuration
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace otv-adj-history

show forwarding internal trace otv-adj-history [ module <module> ]

## Syntax Description

Syntax Description	show	show
forwarding	display fib	information
internal	internal	information
trace	internal	trace
otv-adj-history	OTV adjacency	history
module	(Optional)	slot
<i>module</i>	(Optional)	slot number

## Command Mode

- /exec

# show forwarding internal trace otv-vlan-config

```
show forwarding internal trace otv-vlan-config [ module <module> ]
```

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		internal trace
otv-vlan-config		OTV vlan bintrace configuration
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace otv-vlan-history

show forwarding internal trace otv-vlan-history [ module <module> ]

## Syntax Description

Syntax Description	show	show
	forwarding	display fib information
	internal	internal information
	trace	internal trace
	otv-vlan-history	OTV vlan history
	module	(Optional) slot
	<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace v4-adj-config

show forwarding internal trace v4-adj-config [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		internal trace
v4-adj-config		V4 adjacency bintrace configuration
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace v4-adj-history

show forwarding internal trace v4-adj-history [ module <module> ]

## Syntax Description

Syntax Description	show	show
	forwarding	display fib information
	internal	internal information
	trace	internal trace
	v4-adj-history	V4 adjacency history
	module	(Optional) slot
	<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace v4-pfx-config

show forwarding internal trace v4-pfx-config [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		internal trace
v4-pfx-config		V4 prefix bintrace configuration
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace v4-pfx-history

show forwarding internal trace v4-pfx-history [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
trace	internal trace	
v4-pfx-history	V4 prefix history	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec



## show forwarding internal trace v4-rnh-config

```
show forwarding internal trace v4-rnh-config [ module <module> ]
```

### Syntax Description

Syntax	Description
show	show
forwarding	display fib information
internal	internal information
trace	internal trace
v4-rnh-config	V4 rnh bintrace configuration
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

# show forwarding internal trace v4-rnh-history

show forwarding internal trace v4-rnh-history [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		internal trace
v4-rnh-history		V4 rnh history
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace v6-adj-config

show forwarding internal trace v6-adj-config [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		internal trace
v6-adj-config		V6 adjacency bintrace configuration
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace v6-adj-history

show forwarding internal trace v6-adj-history [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
trace	internal trace	
v6-adj-history	V6 adjacency history	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal trace v6-pfx-config

show forwarding internal trace v6-pfx-config [ module <module> ]

## Syntax Description

Syntax Description	show	show
forwarding	display fib information	
internal	internal information	
trace	internal trace	
v6-pfx-config	V6 prefix bintrace configuration	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

# show forwarding internal trace v6-pfx-history

show forwarding internal trace v6-pfx-history [ module <module> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
trace	internal trace	
v6-pfx-history	V6 prefix history	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

## Command Mode

- /exec

## show forwarding internal trace v6-rnh-config

show forwarding internal trace v6-rnh-config [ module <module> ]

### Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
internal	internal information	
trace	internal trace	
v6-rnh-config	V6 rnh bintrace configuration	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	

### Command Mode

- /exec

# show forwarding internal trace v6-rnh-history

show forwarding internal trace v6-rnh-history [ module <module> ]

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
internal		internal information
trace		internal trace
v6-rnh-history		V6 rnh history
module		(Optional) slot
<i>module</i>		(Optional) slot number

## Command Mode

- /exec



# show forwarding internal trace vobj-config

show forwarding internal trace vobj-config [ module <module> ]

## Syntax Description

Syntax Description	
show	show
forwarding	display fib information
internal	internal information
trace	internal trace
vobj-config	vobj bintrace configuration
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal trace vobj-history

show forwarding internal trace vobj-history [ module <module> ]

## Syntax Description

Syntax Description	show	show
	forwarding	display fib information
	internal	internal information
	trace	internal trace
	vobj-history	vobj history
	module	(Optional) slot
	<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding internal tracing disable

show forwarding internal tracing disable

## Syntax Description

Syntax Description	
show	
forwarding	display fib information
internal	internal information
tracing	tracing
disable	disable

## Command Mode

- /exec

# show forwarding internal tracing enable

show forwarding internal tracing enable

## Syntax Description

Syntax Description	
show	
forwarding	display fib information
internal	internal information
tracing	tracing
enable	enable

## Command Mode

- /exec

# show forwarding internal ufib funcstats disable

show forwarding internal ufib funcstats disable

## Syntax Description

Syntax Description	
show	
forwarding	display fib information
internal	internal information
ufib	ufib
funcstats	function statistics
disable	disable

## Command Mode

- /exec

# show forwarding internal ufib funcstats enable

show forwarding internal ufib funcstats enable

## Syntax Description

Syntax Description	
show	
forwarding	display fib information
internal	internal information
ufib	ufib
funcstats	function statistics
enable	enable

## Command Mode

- /exec

# show forwarding internal unicast consistency-checker

show forwarding internal unicast consistency-checker

## Syntax Description

Syntax Description	
show	
forwarding	forwarding information
internal	IPFIB internal information
unicast	unicast
consistency-checker	consistency checker debugs

## Command Mode

- /exec

# show forwarding internal unicast counts

```
show forwarding internal unicast counts [ detail ] [ vdc { <vdc_id> | all } ] [ module <module> ] [ __readonly__
<err-str><count> ]
```

## Syntax Description

### Syntax Description

show	
forwarding	display fib information
internal	internal information
unicast	unicast counters
counts	display non-zero counts
detail	(Optional) display all counts
module	(Optional) slot
<i>module</i>	(Optional) slot number
vdc	(Optional) vdc id
<i>vdc_id</i>	(Optional) vdc id
all	(Optional) all VDCs active on the module
__readonly__	(Optional)

## Command Mode

- /exec



# show forwarding internal unicast debugs

show forwarding internal unicast debugs

## Syntax Description

Syntax	Description
show	
forwarding	forwarding information
internal	IPFIB internal information
unicast	unicast
debugs	show debug traces

## Command Mode

- /exec

# show forwarding internal unicast ha

show forwarding internal unicast ha

## Syntax Description

### Syntax Description

show

forwarding forwarding information

internal IPFIB internal  
information

unicast unicast

ha HA debugs

## Command Mode

- /exec

## show forwarding ipv6 adjacency

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 adjacency [ mpls ] [ <aif> ] [ <anh> ] [ detail | stats | platform ] [ module <module> ] [ __readonly__ TABLE_adj <adj-count> <fec> <nexthop> <rewinfo> <interface> <pkts> <bytes> <bgp_rnh> <bgp_orig_as> <bgp_peer_as> <hh> <refcount> ]
```

### Syntax Description

#### Syntax Description

show	
forwarding	display fib information
ipv6	ipv6
adjacency	display adjacency information
platform	(Optional) one command to show pi and pd info together
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
mpls	(Optional) mpls adjacency information
<i>aif</i>	(Optional) adjacency output interface
detail	(Optional) detail
stats	(Optional) adjacency statistics
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
TABLE_adj	(Optional) Table Adjacency
<i>adj-count</i>	(Optional) total adj count
<i>fec</i>	(Optional) FEC info
<i>nexthop</i>	(Optional) next hop address
<i>rewinfo</i>	(Optional) rewrite information
<i>interface</i>	(Optional) output interface
<i>pkts</i>	(Optional) packet stats

---

<i>bytes</i>	(Optional) bytes stats
<i>bgp_rnh</i>	(Optional) next hop address
<i>bgp_orig_as</i>	(Optional) bgp orig as
<i>bgp_peer_as</i>	(Optional) bgp peer as
<i>hh</i>	(Optional) Hardware Handle
<i>refcount</i>	(Optional) reference count

---

**Command Mode**

- /exec

## show forwarding ipv6 multicast route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | all } | table <tab_id> ] ipv6 multicast route { [
group { <group> | <group_addr> } | source { <source> | <source_addr> } | module <module> | vrf { <vrf-name>
| all } ] + | summary [ module <module> | vrf { <vrf-name> | <vrf-known-name> | all } ] + } [ __readonly__
<table_type> <num_routes> <num_starg_routes> <num_sg_routes> <num_gprefix_routes>
<num_prefix_insert_fail> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal> <rpflf> <address>
<flag> <route_pkts> <route_bytes> ]
```

### Syntax Description

#### Syntax Description

show	
forwarding	display fib information
ipv6	ipv6
multicast	IPV6 related Multicast information
route	Multicast route information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>tab_id</i>	(Optional) table number
group	(Optional) Multicast IPv6 Group Address
source	(Optional) Multicast IPv6 Source Address
summary	display route counts
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>num_routes</i>	(Optional) Number of routes
<i>num_starg_routes</i>	(Optional) Number of (*,G) routes
<i>num_sg_routes</i>	(Optional) Number of (S,G) routes
<i>num_gprefix_routes</i>	(Optional) Number of (*,G-prefix) routes

<i>num_prefix_insert_fail</i>	(Optional) Prefix insert fail count
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>address</i>	(Optional) Ipv6 address string
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>flag</i>	(Optional) Route type flag
<i>route_pkts</i>	(Optional) Route packet count
<i>route_bytes</i>	(Optional) Route bytes

**Command Mode**

- /exec

## show forwarding ipv6 pss route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> } | table <table_id> ] ipv6 pss route [ module
<module> ]
```

### Syntax Description

Syntax	Description
show	show
forwarding	forwarding
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
ipv6	ipv6
pss	display info from pss
route	route
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

## show forwarding ipv6 route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] ipv6 { route | rnhdb
} [ recursive ] [ detail | summary | platform | partial | <prefix> [ longer-prefixes ] [ detail | platform ] | <address>
[ detail | platform ] | interface <interface> | next-hop <nh> | attached | unresolved | adjacency { <aif> <anh>
| drop | glean | punt } ] [ max-display-count <display_count> ] [ module <module> | vrf { <vrf-name> |
<vrf-known-name> | <vrf-all> } ] + [ __readonly__ TABLE_vrf <vrfname> <tblname> <prefix_count>
TABLE_prefix <pfx> TABLE_path [ <nexthop> | <special> ] <intf> <route_count> <path_count>
<mask_length> <routes_per_mask> ]
```

### Syntax Description

#### Syntax Description

show	
forwarding	display fib information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table id in hex
ipv6	ipv6
route	display IP routing table
platform	(Optional) one command to show pi and pd info together
rnhdb	rnhdb
recursive	(Optional) display routes with recursive next hops
detail	(Optional) show detailed information about the routes
summary	(Optional) display route counts
partial	(Optional) display routes with partial ECMPs
longer-prefixes	(Optional) display longer prefixes
interface	(Optional) display routes with this output i/f only
<i>interface</i>	(Optional) output interface
next-hop	(Optional) display routes with this next-hop only
attached	(Optional) display directly connected routes



<i>unresolved</i>	(Optional) display unresolved routes
<i>adjacency</i>	(Optional) display routes via specified adjacency
<i>aif</i>	(Optional) adjacency output interface
<i>drop</i>	(Optional) display routes via drop adjacency
<i>glean</i>	(Optional) display routes via glean adjacency
<i>punt</i>	(Optional) display routes via punt adjacency
<i>module</i>	(Optional) slot
<i>module</i>	(Optional) slot number
<i>max-display-count</i>	(Optional) displays max # of routes
<i>display_count</i>	(Optional) count
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional) vrf table
<i>vrfname</i>	(Optional) VRF name
<i>tblname</i>	(Optional) table name
<i>prefix_count</i>	(Optional) total number of prefix in VRF
<i>TABLE_prefix</i>	(Optional) all xml prefix entries
<i>px</i>	(Optional) ipv6 prefix
<i>TABLE_path</i>	(Optional) path table
<i>nexthop</i>	(Optional) next hop address
<i>special</i>	(Optional) special adjacencies
<i>intf</i>	(Optional) output interface
<i>route_count</i>	(Optional) total number of routes in VRF
<i>path_count</i>	(Optional) total number of paths in VRF
<i>mask_length</i>	(Optional) length of mask
<i>routes_per_mask</i>	(Optional)

**Command Mode**

- /exec

# show forwarding kvfib cache on

```
show forwarding kvfib cache { on | off }
```

## Syntax Description

Syntax Description	
show	
forwarding	fib information
kvfib	kvfib
cache	cache
on	set variable
off	reset variable

## Command Mode

- /exec

## show forwarding l2 multicast

```
show forwarding l2 multicast { [ { vlan <vlan-id> [ { group <grpaddr> source <srcaddr> } | destination-mac
<dstmac> ] } ] } [ vdc <vdc-id> ] [ module <num> ] [ __readonly__ <epoch> <resource_id> <dest_index>
<hw_handle> <dmac> <text> <value> ]
```

### Syntax Description

Syntax Description	
show	Show running system information
forwarding	Forwarding information
l2	L2 related information
multicast	Multicast related information
vlan	(Optional) Information Specific to a Vlan
<i>vlan-id</i>	(Optional) Vlan id value
group	(Optional) (S,G) specific information
<i>grpaddr</i>	(Optional) Group address
source	(Optional) source specific information
<i>srcaddr</i>	(Optional) Source address
destination-mac	(Optional) Destination MAC address
<i>dstmac</i>	(Optional) Ethernet MAC address
vdc	(Optional) VDC
<i>vdc-id</i>	(Optional) VDC id
module	(Optional) Slot
<i>num</i>	(Optional) Slot number
<i>__readonly__</i>	(Optional)
<i>resource_id</i>	(Optional) Resource Identifier
<i>dest_index</i>	(Optional) Destination Index Identifier
<i>epoch</i>	(Optional) Epoch number
<i>hw_handle</i>	(Optional) Hardware Handle
<i>dmac</i>	(Optional) Destination MAC address
<i>text</i>	(Optional) String
<i>value</i>	(Optional) Value

**Command Mode**

- /exec

## show forwarding l2vpn ipv6 multicast route

```
show forwarding l2vpn ipv6 multicast route [ [ vlan <vlan-id> ] | [ softwarebd <software-bd> ] ] [ module
<module> ]
```

### Syntax Description

Syntax	Description
show	show
forwarding	forwarding
l2vpn	Layer 2 VPN
ipv6	ipv6
multicast	Multicast IPv6 information
route	Mcast route information
vlan	(Optional) vlan
softwarebd	(Optional) Software Bridge Domain
<i>vlan-id</i>	(Optional) vlan id
<i>software-bd</i>	(Optional) Software bd
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

# show forwarding l2vpn label vpls

show forwarding l2vpn label [ <label\_id> ] vpls [ module module ] [ \_\_readonly\_\_ <label\_id> ]

## Syntax Description

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

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
<i>__readonly__</i>	(Optional)
<i>label_id</i>	(Optional) Label ID

## Command Mode

- /exec

# show forwarding l2vpn multicast outgoing-interface-list

show forwarding l2vpn multicast outgoing-interface-list [ index <oiflist-index> ]

## Syntax Description

Syntax Description	
show	
forwarding	Forwarding information
l2vpn	Layer 2 VPN
multicast	Multicast IPv4 information
outgoing-interface-list	show outgoing interface list info
index	(Optional) oiflist index
<i>oiflist-index</i>	(Optional) oiflist-index

## Command Mode

- /exec



# show forwarding l2vpn multicast route

```
show forwarding l2vpn multicast route [ [ vlan <vlan-id> ] ] [ softwarebd <software-bd> ] [ module <module> ]
```

## Syntax Description

Syntax	Description
show	show
forwarding	forwarding
l2vpn	Layer 2 VPN
multicast	Multicast IPv4 information
route	Mcast route information
vlan	(Optional) vlan
softwarebd	(Optional) Software Bridge Domain
<i>vlan-id</i>	(Optional) vlan id
<i>software-bd</i>	(Optional) Software bd
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

## show forwarding l2vpn service vpls

```
show forwarding l2vpn service vpls { { service_id { <service_id> | all } } | { vlan { <vlan_id> | vlan_all } }
| { peer { { interface <intf-name> | next-hop <addr> | peer_all } } } } [ module <module> ] [ detail ]
```

### Syntax Description

Syntax	Description
show	show
forwarding	display fib information
l2vpn	l2vpn forwarding
service	Services
vpls	Vpls
service_id	Specifies a service_id
<i>service_id</i>	service ID
all	all VPLS services
vlan	VLAN info
<i>vlan_id</i>	VLAN number
vlan_all	all VPLS services
peer	define the peer
peer_all	all peers
interface	PW interface for peer
<i>intf-name</i>	interface name
next-hop	Next hop to reach the peer
<i>addr</i>	IP address
module	(Optional) slot
<i>module</i>	(Optional) slot number
detail	(Optional) Display detailed information

### Command Mode

- /exec

# show forwarding l2vpn service xconnect

```
show forwarding l2vpn service xconnect { service_id { <service_id> | all } } [ module <module> ] [ detail ]
```

## Syntax Description

Syntax	Description
show	show
forwarding	display fib information
l2vpn	l2vpn forwarding
service	Services
xconnect	xconnect or VPWS
service_id	Specify a service_id in hex
<i>service_id</i>	service ID
all	All service-id will be displayed
module	(Optional) slot
<i>module</i>	(Optional) slot number
detail	(Optional) Display detailed information

## Command Mode

- /exec

## show forwarding l2vpn vlan

```
show forwarding l2vpn vlan [ <vlan_id> ] [ module <module> ] [ __readonly__ <vlan> ]
```

### Syntax Description

Syntax Description	show	show
	forwarding	forwarding
	l2vpn	l2vpn forwarding
	vlan	vlan
<i>vlan_id</i>		(Optional) vlan id
module		(Optional) slot
<i>module</i>		(Optional) slot number
<i>__readonly__</i>		(Optional)
<i>vlan</i>		(Optional) vlan

### Command Mode

- /exec

## show forwarding mpls

```
show forwarding mpls [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } [ label <label-id> | <prefix> | <v6prefix> ] | table <table_id> [ label <label-id> | <prefix> | <v6prefix> ] | label-space <label-space-id> | label <label-id> | <prefix> | <v6prefix> ] [ stats ] [ module <module> ] [ implicit ] [ platform ] [ __readonly__ { TABLE_mpls <label> <in-pkts> <in-bytes> <out-pkts> <out-bytes> TABLE_label_nh [ <out-table-id> <fec> <out-ip> <out-intf> <out-op> <out-label> <hh> <ref-count> } ] }
```

### Syntax Description

#### Syntax Description

show	show
forwarding	forwarding
mpls	mpls forwarding
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known vrf name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
label-space	(Optional) label space
<i>label-space-id</i>	(Optional) label space id
label	(Optional) mpls labels
<i>label-id</i>	(Optional) mpls label value
<i>prefix</i>	(Optional) Labels for single exact match route
module	(Optional) slot
<i>module</i>	(Optional) slot number
stats	(Optional) Label Statistics
implicit	(Optional) Display implicit label
platform	(Optional) Display platform information
<i>__readonly__</i>	(Optional)
TABLE_mpls	(Optional)
<i>label</i>	(Optional) mpls label value

<i>TABLE_label_nh</i>	(Optional)
<i>out-table-id</i>	(Optional) Output table-id
<i>fec</i>	(Optional) Prefix/Tunnel ID
<i>out-ip</i>	(Optional) Output Next Hop
<i>out-intf</i>	(Optional) Output Interface
<i>out-op</i>	(Optional) Output Label op
<i>out-label</i>	(Optional) Output Label
<i>hh</i>	(Optional) Hardware Handle
<i>ref-count</i>	(Optional) Ref Count
<i>in-pkts</i>	(Optional) Label Input Packet Stats
<i>in-bytes</i>	(Optional) Label Input Bytes Stats
<i>out-pkts</i>	(Optional) Label Output Packet Stats
<i>out-bytes</i>	(Optional) Label Output Bytes Stats

**Command Mode**

- /exec

# show forwarding mpls aggregate

```
show forwarding mpls aggregate [ label { <label-id> | all } ] [ detail ] [ module <module> ] [ __readonly__
[ { TABLE_label_info <label> <id> [ <sw_index> } } ] ]
```

## Syntax Description

### 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
<i>__readonly__</i>	(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

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 ] [ __readonly__ <pkts> <bytes> ]
```

## Syntax Description

Syntax Description	show	show
forwarding	forwarding	
mpls	mpls forwarding	
drop-stats	MPLS dropped packets	
platform	(Optional) command to display stats per chip	
__readonly__	(Optional)	
<i>pkts</i>	(Optional) Label Packet Stats	
<i>bytes</i>	(Optional) Label Bytes Stats	

## Command Mode

- /exec



# show forwarding mpls summary

```
show forwarding mpls summary [ module <module> ] [ __readonly__ [ { TABLE_labels <space> <count>
} <total_deagg_labels> ] ]
```

## Syntax Description

Syntax Description		
show		show
forwarding		display fib information
mpls		mpls forwarding
summary		summary
module		(Optional) slot
<i>module</i>		(Optional) slot number
<i>__readonly__</i>		(Optional)
TABLE_labels		(Optional)
<i>space</i>		(Optional) label space
<i>count</i>		(Optional) number of labels
<i>total_deagg_labels</i>		(Optional) total deagg labels

## Command Mode

- /exec

## show forwarding mpls te

```
show forwarding mpls te [ <te_if> ] [ detail ] [ module <module> ] [ __readonly__ { TABLE_te <id> [
<midpoint_source> ] [ <dest> ] [ <tunnel_id> ] [ <ext_tunnel_id> ] [ <lisp_id> ] [ <adjacency> ] [ <hh> ] [
<lfib_adj> ] [ <adj_refcount> ] [ <obj_refcount> ] [ <te_state> ] [ <next_hop> ] [ <next_if_index> ] [
<op_label> ] [ <backup_tunnel> ] [ <adj_key_id> ] [ <ftr_label> ] [ <local_label> ] [ <adj_count> ] [ <type>
] [ <out_if> ] [ <out_lbl> ] [ <backup_if> ] [ <backup_lbl> ] } ]
```

### Syntax Description

#### 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>fr_label</i>	(Optional)
<i>local_label</i>	(Optional)
<i>adj_count</i>	(Optional) te related adj count
<i>type</i>	(Optional)
<i>out_if</i>	(Optional)
<i>out_lbl</i>	(Optional)
<i>backup_if</i>	(Optional)
<i>backup_lbl</i>	(Optional)

**Command Mode**

- /exec

## show forwarding multicast outgoing-interface-list L2

```
show forwarding multicast outgoing-interface-list { L2 | L3 } [ platform ] [ module <module> ] [ <index> ]
[ __readonly__ <refcount> <num_oif> <intf> <encap_id> ]
```

### Syntax Description

Syntax Description	
show	
forwarding	Forwarding information
multicast	Multicast IPv4 information
outgoing-interface-list	show outgoing interface list info
L2	Layer 2 oiflist
L3	Layer 3 oiflist
platform	(Optional) Display PI/PD
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>index</i>	(Optional) Outgoing Interface List Index
<i>__readonly__</i>	(Optional)
<i>refcount</i>	(Optional) Reference count
<i>num_oif</i>	(Optional) Number of outgoing interfaces
<i>intf</i>	(Optional) OIF name
<i>encap_id</i>	(Optional) encap_id

### Command Mode

- /exec

## show forwarding multicast route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | all } | table <table_id> ] [ ip | ipv4 ] multicast
route [ platform ] { [ group { <gaddr> [ <mask> ] | <gprefix> } | source { <saddr> [ <smask> ] | <sprefix> }
| module <module> | vrf { <vrf-name> | <vrf-known-name> | all } ] + | summary [ module <module> | vrf {
<vrf-name> | <vrf-known-name> | all } ] + } [ __readonly__ <table_type> <vrfname> <num_routes>
<num_starg_routes> <num_sg_routes> <num_gprefix_routes> <num_prefix_insert_fail> <num_groups>
<num_sources> <src_len> <grp_len> <df_ordinal> <rpfif> <rpf_ifindex> <flag> <flag_value> <route_pkts>
<route_bytes> <oiflist_id> <platform_id> <oif_count> <refcount> <oifname> <oifindex> <oif_pkts>
<oif_bytes> ]
```

### Syntax Description

#### Syntax Description

show	
forwarding	Forwarding information
ip	(Optional) ipv4
ipv4	(Optional) ipv4
multicast	Multicast IPv4 information
route	Mcast route information
platform	(Optional) Platform Details
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
group	(Optional) Multicast IPv4 Group specific info
<i>gaddr</i>	(Optional) Multicast IPv4 Group Address
<i>mask</i>	(Optional) Multicast IPv4 Group Address mask
<i>gprefix</i>	(Optional) Multicast IPv4 Group Prefix
source	(Optional) Multicast IPv4 Source specific info
<i>saddr</i>	(Optional) Multicast IPv4 Source Address
<i>smask</i>	(Optional) Multicast IPv4 Source Address mask
<i>sprefix</i>	(Optional) Multicast IPv4 Source Prefix

<i>summary</i>	display route counts
<i>module</i>	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>vrfname</i>	(Optional) VRF name
<i>num_routes</i>	(Optional) Number of routes
<i>num_starg_routes</i>	(Optional) Number of (*,G) routes
<i>num_sg_routes</i>	(Optional) Number of (S,G) routes
<i>num_gprefix_routes</i>	(Optional) Number of (*,G-prefix) routes
<i>num_prefix_insert_fail</i>	(Optional) Prefix insert fail count
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifindex</i>	(Optional) RPF Interface ifIndex
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>route_pkts</i>	(Optional) Route packet count
<i>route_bytes</i>	(Optional) Route bytes
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>platform_id</i>	(Optional) Platform-index
<i>oif_count</i>	(Optional) Number of OIFs
<i>refcount</i>	(Optional) OIF list Reference Count
<i>oifname</i>	(Optional) OIF Interface name
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>oif_pkts</i>	(Optional) OIF packets



---

*oif\_bytes* (Optional) OIF bytes

---

**Command Mode**

- /exec

# show forwarding nve l2 ingress-replication-peers

show forwarding nve l2 ingress-replication-peers [ <peer\_ip> ]

## Syntax Description

Syntax Description		
show	show	
forwarding	display fib information	
nve	nve related info	
l2	L2 info	
ingress-replication-peers	ingress replication peer info	
<i>peer_ip</i>	(Optional) show detailed info of a peer	

## Command Mode

- /exec

## show forwarding nve l3 adjacency tunnel

```
show forwarding nve l3 adjacency tunnel <tunnel_id> [ bd <bd_id> | detail | module <num> | table <table_id> ] [ __readonly__ <tunnel_id> <bd_id> <table_id> <VNI> <Drop> <RefCount> <Origin> <State> <Del> ]
```

### Syntax Description

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

**Command Mode**

- /exec

# show forwarding nve l3 peers

```
show forwarding nve l3 peers [ peers <peer_id> | tunnel <tunnel_id> | detail | module <num> ] + [ __readonly__
<tunnel_id> <peer_id> <peer_address> <interface> <rmac> <origin> <state> <del> <count> ]
```

## Syntax Description

### Syntax Description

show	show
forwarding	display fib information
nve	nve related info
l3	Layer 3
peers	nve peers
<i>peer_id</i>	(Optional) nve peer-id
tunnel	(Optional) VXLAN tunnel
<i>tunnel_id</i>	(Optional) Unique identifier for the tunnel
detail	(Optional) Show detailed information
module	(Optional) Slot/module
<i>num</i>	(Optional) Slot/module number
<i>__readonly__</i>	(Optional)
<i>tunnel_id</i>	(Optional) tunnel_id
<i>peer_id</i>	(Optional) peer_id
<i>peer_address</i>	(Optional) peer_address
<i>interface</i>	(Optional) interface
<i>rmac</i>	(Optional) rmac
<i>origin</i>	(Optional) origin
<i>state</i>	(Optional) state
<i>del</i>	(Optional) del
<i>count</i>	(Optional) count

## Command Mode

- /exec

## show forwarding otv

```
show forwarding otv <intf> [ peer <peer-id> ] [ module <module> ] [ __readonly__ <vlan> <peer-id>
<peer_vlan_count><tunnel_ifindex><tunnel_ifname> ]
```

### Syntax Description

Syntax Description	
show	
forwarding	fib information
otv	overlay-transport-virtualization
<i>intf</i>	overlay interface
peer	(Optional) overlay peer
<i>peer-id</i>	(Optional) overlay peer-id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>vlan</i>	(Optional) Vlan information
<i>peer-id</i>	(Optional) peer-id

### Command Mode

- /exec



TABLE_otv_mroute	(Optional)
<i>src_addr</i>	(Optional) Ipv6 address string
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_addr</i>	(Optional) Ipv6 address string
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>flag</i>	(Optional) Route type flag
<i>route_pkts</i>	(Optional) Route packet count
<i>route_bytes</i>	(Optional) Route bytes
<i>otv_route_pkts</i>	(Optional) OTV Route packet count
<i>otv_route_bytes</i>	(Optional) OTV Route bytes
TABLE_OIF	(Optional)
<i>oif_count</i>	(Optional) Number of OIFs
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>index</i>	(Optional) outgoing interface list index
<i>refcount</i>	(Optional) reference count
TABLE_OIFLIST	(Optional)
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>oif_pkts</i>	(Optional) OIF packets
<i>oif_bytes</i>	(Optional) OIF bytes
<i>src_addr</i>	(Optional) Multicast IPv4 Source Address
<i>src_len</i>	(Optional) Source Address Mask
<i>oifname</i>	(Optional) OIF Interface name
<i>vlanid</i>	(Optional) vlan id of the route
<i>grp_addr</i>	(Optional) Multicast IPv4 Group Address
<i>grp_len</i>	(Optional) Group address Mask
<i>otv_src_addr</i>	(Optional) Multicast IPv4 Source Address
<i>otv_grp_addr</i>	(Optional) Multicast IPv4 Group Address



**Command Mode**

- /exec

## show forwarding otv multicast outgoing-interface-list

```
show forwarding otv multicast outgoing-interface-list [ __readonly__ { TABLE_OIF <index> [ <refcount>
] [ <intf> ] [ { TABLE_OIFLIST <oifindex> [ <src_addr> ] [ <src_len> ] [ <oifname> ] [ <vlanid> ] [
<grp_addr> ] [ <grp_len> ] } } ] ]
```

### Syntax Description

#### Syntax Description

show	
forwarding	Forwarding information
otv	over-the-top virtualization
multicast	Multicast IPv4 information
outgoing-interface-list	show outgoing interface list info
<i>__readonly__</i>	(Optional)
TABLE_OIF	(Optional) outgoing interface list table
<i>index</i>	(Optional) outgoing interface list index
<i>refcount</i>	(Optional) reference count
<i>intf</i>	(Optional) interface name
TABLE_OIFLIST	(Optional) outgoing interface list table
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>src_addr</i>	(Optional) Multicast IPv4 Source Address
<i>src_len</i>	(Optional) Source Address Mask
<i>oifname</i>	(Optional) OIF Interface name
<i>vlanid</i>	(Optional) vlan id of the route
<i>grp_addr</i>	(Optional) Multicast IPv4 Group Address
<i>grp_len</i>	(Optional) Group address Mask

### Command Mode

- /exec

## show forwarding otv multicast route

```
show forwarding otv multicast route [ [ vlan <vlan-id> ] ] [ softwarebd <software-bd> ] [ module <module> ] [ __readonly__ <replicator> ]
```

### Syntax Description

Syntax	Description
show	show
forwarding	forwarding
otv	over-the-top virtualization
multicast	Multicast IPv4 information
route	Mcast route information
vlan	(Optional) vlan
<i>vlan-id</i>	(Optional) vlan id
softwarebd	(Optional) Software Bridge Domain
<i>software-bd</i>	(Optional) Software bd
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>replicator</i>	(Optional) replicator name

### Command Mode

- /exec

# show forwarding otv vlan

```
show forwarding otv vlan [ <vlan_id> ] [ module <module> ] [ __readonly__ <vlan> ]
```

## Syntax Description

Syntax Description	show	show
	forwarding	forwarding
	otv	otv
	vlan	vlan
<i>vlan_id</i>	(Optional) vlan id	
module	(Optional) slot	
<i>module</i>	(Optional) slot number	
<i>__readonly__</i>	(Optional)	
<i>vlan</i>	(Optional) vlan	

## Command Mode

- /exec

## show forwarding pss route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> } | table <table_id> ] [ ip | ipv4 ] pss route [ module
<module> ]
```

### Syntax Description

Syntax	Description
show	show
forwarding	forwarding
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
ip	(Optional) ipv4
ipv4	(Optional) ipv4
pss	display info from pss
route	route
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

# show forwarding restart

show forwarding restart [ module <module> ]

## Syntax Description

### Syntax Description

---

show

---

forwarding fib information

---

restart restart fib

---

module (Optional) slot

---

*module* (Optional) slot  
number

---

## Command Mode

- /exec

# show forwarding route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ ip | ipv4 ] { route
| rnhdb } [ recursive ] [ summary | detail | platform | partial | <prefix> [ longer-prefixes ] [ detail | platform ]
| <address> [ detail | platform ] |
```

## Syntax Description

### Syntax Description

show	
forwarding	display fib information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table id in hex
ip	(Optional) ipv4
ipv4	(Optional) ipv4
route	display IP routing table
rnhdb	rnh-db
recursive	(Optional) display routes with recursive next hops
partial	(Optional) display routes with partial ECMPs
summary	(Optional) display route counts
<i>prefix</i>	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
<i>address</i>	(Optional) display single longest match route
detail	(Optional) show detailed information about the routes
platform	(Optional) one command to show pi and pd info together

## Command Mode

- /exec

## show forwarding security group-tag

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

### Syntax Description

#### Syntax Description

show	
forwarding	display fib information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
vlan	(Optional) vlan
<i>vlan_id</i>	(Optional) vlan number
ip	(Optional) ipv4
ipv4	(Optional) ipv4
security	display IP security information
group-tag	ip_address->security_group_tag
<i>addr</i>	(Optional) specific ip address
module	(Optional) slot
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) header string
<i>vrfname</i>	(Optional) VRF name
<i>tid</i>	(Optional) table identifier
<i>num</i>	(Optional) module number
<i>pfx-count</i>	(Optional) total prefix count in VRF
<i>ipa</i>	(Optional) ip address
<i>tag</i>	(Optional) security group tag



---

*tv* (Optional) sgt valid

---

*vid* (Optional) vlan identifier

---

**Command Mode**

- /exec

## show forwarding security mac

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ ip | ipv4 ] security
mac [ <addr> ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] + [ __readonly__
<header> <vrfname> <tid> <pfx-count> <ipa> <mac> <p> <m> <v> <intf> ]
```

### Syntax Description

#### Syntax Description

show	
forwarding	display fib information
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
ip	(Optional) ipv4
ipv4	(Optional) ipv4
security	display IP security information
mac	ip_address->mac_address
<i>addr</i>	(Optional) specific ip address
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
<i>header</i>	(Optional) header string
<i>vrfname</i>	(Optional) VRF name
<i>tid</i>	(Optional) table identifier
<i>pfx-count</i>	(Optional) total prefix count in VRF
<i>ipa</i>	(Optional) ip address
<i>mac</i>	(Optional) mac address
<i>p</i>	(Optional) 1 => ip->port binding
<i>m</i>	(Optional) 1 => ip->mac binding

---

*v* (Optional) 1 => ip->vlan binding

---

*intf* (Optional) ip->port interface

---

**Command Mode**

- /exec

# show forwarding test on

show forwarding test { on | off } [ module <module> ]

## Syntax Description

### Syntax Description

show	
forwarding	fib information
test	show test variable
on	set variable
off	reset variable
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# show forwarding trace

```
show forwarding trace [ clear ] [ module <module> ] [ __readonly__ <op> ]
```

## Syntax Description

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

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

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 forwarding trace profile funcstats**





## G Show Commands

---

- [show glbp](#), on page 718
- [show glbp brief](#), on page 723
- [show glbp capability](#), on page 725
- [show glbp internal event-history errors](#), on page 726
- [show glbp internal event-history msgs](#), on page 727
- [show glbp internal info](#), on page 728
- [show glbp internal mem-stats](#), on page 729
- [show guestshell](#), on page 730

# show glbp

```
show glbp [ vrf <vrf-name> ] [ interface <int-num> ] [ group <group-num> ] [ active | standby | disabled | init
| listen ] + [ __readonly__ <show_glbp_start> { TABLE_grp_detail <sg_nsf_state> <sg_print_nsf_state>
<sg_nsf_end> <sg_if_index> <sg_group_num> <sg_state> <sg_state_reason> <sg_state_count>
<sg_state_last_change> <sg_vip> <sg_vip_attr> <sg_num_vip_sec> { TABLE_grp_vip_sec <sg_vip_sec>
<sg_vip_sec_attr> } <sg_vip_sec_end> <sg_active_addr> <sg_cur_hello> <sg_cfg_hello> <sg_active_hello>
<sg_cur_hold> <sg_cfg_hold> <sg_active_hold> <sg_is_hello_timer_running> <sg_next_hello>
<sg_cur_redirect_time> <sg_cfg_redirect_time> <sg_active_redirect_time> <sg_cur_sec_holdtime>
<sg_cfg_sec_holdtime> <sg_active_sec_holdtime> <sg_cfg_ext_holdtime> <sg_timer_end>
<sg_auth_data_type> <sg_auth_data> <sg_preempt> <sg_preempt_min_delay>
<sg_is_preempt_timer_running> <sg_preempt_ts> <sg_delay_end> <sg_active_priority> <sg_active_timer>
<sg_standby_addr> <sg_standby_priority> <sg_standby_timer> <sg_router_end> <sg_grp_priority>
<sg_grp_priority_attr> <sg_weighting> <sg_weighting_attr> <sg_weighting_satisfied> <sg_weighting_max>
<sg_weighting_lower> <sg_weighting_upper> <sg_track_object> <sg_track_state> <sg_track_decrement>
<sg_weighting_end> <sg_load_bal> <sg_red_name> <sg_mem_count> <sg_mem_start> {
TABLE_grp_members <sg_mem_local_mac> <sg_mem_local_ip> <sg_mem_mac> <sg_mem_ip>
<sg_is_mem_local> <sg_is_mem_authenticated> } <sg_mem_end> <sg_all_mem_end> <sg_fwd_count>
<sg_active_fwd_count> { <sg_fwd_start> { TABLE_fwd_detail <sg_fwd_num> <sg_fwd_state>
<sg_fwd_state_change_count> <sg_fwd_last_state_change> <sg_fwd_mac> <sg_fwd_mac_type>
<sg_fwd_cfg_mac> <sg_fwd_owner> <sg_fwd_redirect> <sg_fwd_redirect_timer> <sg_fwd_is_sec_tmr_run>
<sg_fwd_sec_timer> <sg_fwd_ttl> <sg_fwd_ttr> <sg_fwd_pre> <sg_fwd_pre_min_delay>
<sg_fwd_is_pre_min_run> <sg_fwd_pre_min_val> <sg_fwd_active_router> <sg_fwd_active_router_attr>
<sg_fwd_weighting> <sg_fwd_active_addr> <sg_fwd_active_prio> <sg_fwd_active_prio_attr>
<sg_fwd_active_prio_weight_attr> <sg_fwd_active_timer_val> <sg_fwd_arp_replies> <sg_fwd_redirection>
<sg_fwd_preempt> } <sg_fwd_end> <sg_all_fwd_end> } } <show_glbp_end> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
glbp	Show GLBP
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Interface
<i>int-num</i>	(Optional) Interface type and number
group	(Optional) Group number
<i>group-num</i>	(Optional) Group number
active	(Optional) Groups in active state
standby	(Optional) Groups in standby state
disabled	(Optional) Groups in disabled state
init	(Optional) Groups in init state

<i>listen</i>	(Optional) Groups in listen state
<i>__readonly__</i>	(Optional) Read only
<i>show glbp start</i>	(Optional) show glbp start
<i>TABLE_grp_detail</i>	(Optional) Group table detail
<i>sg_nsf_state</i>	(Optional) show nsf state
<i>sg_print_nsf_state</i>	(Optional) Print NSF state
<i>sg_nsf_end</i>	(Optional) End of NSF details
<i>sg_if_index</i>	(Optional) Interface type and number
<i>sg_group_num</i>	(Optional) Group number
<i>sg_state</i>	(Optional) glbp state
<i>sg_state_reason</i>	(Optional) Reason
<i>sg_state_count</i>	(Optional) Number of state changes
<i>sg_state_last_change</i>	(Optional) Time of last state change
<i>sg_vip</i>	(Optional) Virtual IP address
<i>sg_vip_attr</i>	(Optional) Virtual IP address attribute
<i>sg_num_vip_sec</i>	(Optional) Number of Secondary virtual IP address
<i>TABLE_grp_vip_sec</i>	(Optional) Group secondary ip address
<i>sg_vip_sec</i>	(Optional) Secondary virtual IP address
<i>sg_vip_sec_attr</i>	(Optional) Secondary Virtual IP address attribute
<i>sg_vip_sec_end</i>	(Optional) End of Secondary Virtual IP addresses
<i>sg_active_addr</i>	(Optional) Active IP address
<i>sg_cur_hello</i>	(Optional) Current Hello Time
<i>sg_cfg_hello</i>	(Optional) Configured Hello Time
<i>sg_active_hello</i>	(Optional) Active Hello Time
<i>sg_cur_hold</i>	(Optional) Current Hold Time
<i>sg_cfg_hold</i>	(Optional) Configured Hold Time
<i>sg_active_hold</i>	(Optional) Active Hold Time
<i>sg_is_hello_timer_running</i>	(Optional) Hello Timer
<i>sg_next_hello</i>	(Optional) Time for next hello

<i>sg_cur_redirect_time</i>	(Optional) Current redirect time
<i>sg_cfg_redirect_time</i>	(Optional) Configured redirect time
<i>sg_active_redirect_time</i>	(Optional) Active redirect time
<i>sg_cur_sec_holdtime</i>	(Optional) Current secondary hold time
<i>sg_cfg_sec_holdtime</i>	(Optional) Configured secondary hold time
<i>sg_active_sec_holdtime</i>	(Optional) Active secondary hold time
<i>sg_cfg_ext_holdtime</i>	(Optional) Configured Extended hold time
<i>sg_timer_end</i>	(Optional) End of GLBP Timer values
<i>sg_auth_data_type</i>	(Optional) Authentication data type
<i>sg_auth_data</i>	(Optional) Authentication data
<i>sg_preempt</i>	(Optional) Preemption enabled
<i>sg_preempt_min_delay</i>	(Optional) Preemption min delay
<i>sg_is_preempt_timer_running</i>	(Optional) Preemption timer running
<i>sg_preempt_ts</i>	(Optional) Preemption timestamp
<i>sg_delay_end</i>	(Optional) End of delay values
<i>sg_active_priority</i>	(Optional) Active router priority
<i>sg_active_timer</i>	(Optional) Active timer value
<i>sg_standby_addr</i>	(Optional) Standby address
<i>sg_standby_priority</i>	(Optional) Standby priority
<i>sg_standby_timer</i>	(Optional) Standby timer value
<i>sg_router_end</i>	(Optional) End of Routers
<i>sg_grp_priority</i>	(Optional) Group priority
<i>sg_grp_priority_attr</i>	(Optional) Group priority attribute
<i>sg_weighting</i>	(Optional) Weighting
<i>sg_weighting_attr</i>	(Optional) Weighting attribute
<i>sg_weighting_satisfied</i>	(Optional) Weighting satisfied
<i>sg_weighting_max</i>	(Optional) Weighting max
<i>sg_weighting_lower</i>	(Optional) Weighting lower
<i>sg_weighting_upper</i>	(Optional) Weighting upper

<i>sg_track_object</i>	(Optional) Track
<i>sg_track_state</i>	(Optional) Track state
<i>sg_track_decrement</i>	(Optional) Track decrement
<i>sg_weighting_end</i>	(Optional) End of weighting
<i>sg_load_bal</i>	(Optional) Load balancing
<i>sg_red_name</i>	(Optional) IP redundancy name
<i>sg_mem_count</i>	(Optional) Membership count
<i>sg_mem_start</i>	(Optional) Start of membership attributes
TABLE_grp_members	(Optional) Group members
<i>sg_mem_local_mac</i>	(Optional) Member's local mac address
<i>sg_mem_local_ip</i>	(Optional) Member's local ip address
<i>sg_mem_mac</i>	(Optional) Member's mac address
<i>sg_mem_ip</i>	(Optional) Member's ip address
<i>sg_is_mem_local</i>	(Optional) Local
<i>sg_is_mem_authenticated</i>	(Optional) Is Member authenticated
<i>sg_mem_end</i>	(Optional) End of membership attributes
<i>sg_all_mem_end</i>	(Optional) End of all members
<i>sg_fwd_count</i>	(Optional) Number of forwarders in the group
<i>sg_active_fwd_count</i>	(Optional) Number of active forwarders in group
<i>sg_fwd_start</i>	(Optional) Forwarder Start attribute
TABLE_fwd_detail	(Optional) Forwarder table detail
<i>sg_fwd_num</i>	(Optional) Forwarder Number
<i>sg_fwd_state</i>	(Optional) Forwarder State
<i>sg_fwd_state_change_count</i>	(Optional) Forwarder State Change count
<i>sg_fwd_last_state_change</i>	(Optional) Time of last State Change
<i>sg_fwd_mac</i>	(Optional) Forwarder MAC address
<i>sg_fwd_mac_type</i>	(Optional) Forwarder MAC address type
<i>sg_fwd_cfg_mac</i>	(Optional) Configured Forwarder MAC address
<i>sg_fwd_owner</i>	(Optional) Forwarder owner

<i>sg_fwd_redirect</i>	(Optional) Forwarder redirection enabled
<i>sg_fwd_redirect_timer</i>	(Optional) Forwarder redirection timer
<i>sg_fwd_is_sec_tmr_run</i>	(Optional) Is Forwarder secondary timer running
<i>sg_fwd_sec_timer</i>	(Optional) Forwarder secondary timer
<i>sg_fwd_ttl</i>	(Optional) Forwarder ttl
<i>sg_fwd_ttr</i>	(Optional) Forwarder ttr
<i>sg_fwd_pre</i>	(Optional) Forwarder preemption enabled
<i>sg_fwd_pre_min_delay</i>	(Optional) Forwarder preempt min delay
<i>sg_fwd_is_pre_min_run</i>	(Optional) Is Forwarder preempt min running
<i>sg_fwd_pre_min_val</i>	(Optional) Forwarder preempt min value
<i>sg_fwd_active_router</i>	(Optional) Forwarder active router address
<i>sg_fwd_active_router_attr</i>	(Optional) Forwarder active router attribute
<i>sg_fwd_weighting</i>	(Optional) Forwarder weighting
<i>sg_fwd_active_addr</i>	(Optional) Forwarder active address
<i>sg_fwd_active_prio</i>	(Optional) Forwarder active priority
<i>sg_fwd_active_prio_attr</i>	(Optional) Forwarder priority attribute
<i>sg_fwd_active_prio_weight_attr</i>	(Optional) Forwarder priority weight attribute
<i>sg_fwd_active_timer_val</i>	(Optional) Forwarder active timer val
<i>sg_fwd_arp_replies</i>	(Optional) Forwarder arp replies
<i>sg_fwd_redirection</i>	(Optional) Forwarder redirection string
<i>sg_fwd_preempt</i>	(Optional) Forwarder preemption string
<i>sg_fwd_end</i>	(Optional) Forwarder End attribute
<i>sg_all_fwd_end</i>	(Optional) All Forwarders End attribute
<i>show_glbp_end</i>	(Optional) End of Group

### Command Mode

- /exec

## show glbp brief

```
show glbp [ vrf <vrf-name> ] [ interface <int-num> ] [ group <group-num> ] [ active | standby | disabled | init
| listen ] + brief [ __readonly__ { <sg_brf_start> <sg_brf_show_header> { TABLE_grp <sg_brf_int>
<sg_brf_group> <sg_brf_pri> <sg_brf_state> <sg_brf_vip> <sg_brf_act> <sg_brf_stdby> }
<sg_brf_gener_end> <sg_brf_fwd_start> { TABLE_fwd <sg_brf_fwd_int> <sg_brf_fwd_group>
<sg_brf_fwd_num> <sg_brf_fwd_pri> <sg_brf_fwd_state> <sg_brf_fwd_mac> <sg_brf_fwd_act> }
<sg_brf_fwd_end> <sg_brf_all_fwd_end> <sg_brf_end> } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
glbp	Show GLBP
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Interface
<i>int-num</i>	(Optional) Interface type and number
group	(Optional) Group number
<i>group-num</i>	(Optional) Group number
active	(Optional) Groups in active state
standby	(Optional) Groups in standby state
disabled	(Optional) Groups in disabled state
init	(Optional) Groups in init state
listen	(Optional) Groups in listen state
brief	Brief output
<i>__readonly__</i>	(Optional) Read only
<i>sg_brf_start</i>	(Optional) Start of group brief
<i>sg_brf_show_header</i>	(Optional) Show brief header
TABLE_grp	(Optional) Group table
<i>sg_brf_int</i>	(Optional) Interface type and number
<i>sg_brf_group</i>	(Optional) Group number
<i>sg_brf_pri</i>	(Optional) Group priority
<i>sg_brf_state</i>	(Optional) Group state

<i>sg_brf_vip</i>	(Optional) Virtual IP address
<i>sg_brf_act</i>	(Optional) Active router
<i>sg_brf_stdby</i>	(Optional) Standby router
<i>sg_brf_gener_end</i>	(Optional) End of generic configuration for group
<i>sg_brf_fwd_start</i>	(Optional) Start of forwarder brief
TABLE_fwd	(Optional) Forwarder table
<i>sg_brf_fwd_int</i>	(Optional) Forwarder interface
<i>sg_brf_fwd_group</i>	(Optional) Forwarder group number
<i>sg_brf_fwd_num</i>	(Optional) Forwarder number
<i>sg_brf_fwd_pri</i>	(Optional) Forwarder priority
<i>sg_brf_fwd_state</i>	(Optional) Forwarder state
<i>sg_brf_fwd_mac</i>	(Optional) Forwarder MAC address
<i>sg_brf_fwd_act</i>	(Optional) Forwarder active address
<i>sg_brf_fwd_end</i>	(Optional) End of forwarder brief
<i>sg_brf_all_fwd_end</i>	(Optional) End of all forwarders in group
<i>sg_brf_end</i>	(Optional) End of group brief

### Command Mode

- /exec



# show glbp capability

```
show glbp capability [ interface <int-num> ] [ __readonly__ <sg_cap_header> <sg_cap_start> { TABLE_cap
<sg_cap_int> <sg_cap_int_type> <sg_cap_support> <sg_cap_max_groups> } <sg_cap_end>
<sg_cap_all_if_end> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
glbp		GLBP
capability		GLBP capability
interface		(Optional) Interface
<i>int-num</i>		(Optional) Interface type and number
<i>__readonly__</i>		(Optional) Read only
<i>sg_cap_header</i>		(Optional) GLBP capability header
<i>sg_cap_start</i>		(Optional) Start of GLBP capability
TABLE_cap		(Optional) Capability table
<i>sg_cap_int</i>		(Optional) Interface
<i>sg_cap_int_type</i>		(Optional) Interface type
<i>sg_cap_support</i>		(Optional) Is GLBP supported
<i>sg_cap_max_groups</i>		(Optional) Maximum number of GLBP groups
<i>sg_cap_end</i>		(Optional) End of GLBP capability for interface
<i>sg_cap_all_if_end</i>		(Optional) End of GLBP capability for all interfaces

## Command Mode

- /exec

# show glbp internal event-history errors

show glbp internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
glbp		About GLBP
internal		Internal GLBP information
event-history		Various event logs of GLBP
errors		Error logs of GLBP

## Command Mode

- /exec

# show glbp internal event-history msgs

show glbp internal event-history msgs

## Syntax Description

Syntax Description		
show	Show running system information	
glbp	About GLBP	
internal	Internal GLBP information	
event-history	Various event logs of GLBP	
msgs	Message logs of GLBP	

## Command Mode

- /exec

# show glbp internal info

```
show glbp internal info [ global | { [ interface <int-num> ] [ group <group-num> ] } ]
```

## Syntax Description

### Syntax Description

show	Show running system information
glbp	About GLBP
internal	Internal GLBP information
info	Show internal data structure information
global	(Optional) Show internal data structure global information
interface	(Optional) Show internal data structure interface information
<i>int-num</i>	(Optional) Interface type and number
group	(Optional) Group number
<i>group-num</i>	(Optional) Group number

## Command Mode

- /exec

# show glbp internal mem-stats

show glbp internal mem-stats [ uuid <i0> ] [ glbp-only ] [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
glbp	About glbp
internal	Internal GLBP information
mem-stats	Show memory allocation statistics for GLBP
uuid	(Optional) Show stats only for this uuid
<i>i0</i>	(Optional) Enter uuid
glbp-only	(Optional) Show stats for only GLBP
detail	(Optional) Show detail memstats for GLBP

## Command Mode

- /exec

## show guestshell

```
show guestshell [ { detail } ] [ __readonly__ [ TABLE_detail <name> <package_name> <application_name>
<application_version> <application_description> <key_type> <signing_method> <licensing_name>
<licensing_version> <ova_path> <state> <disk_reservation> <memory_reservation> <cpu_reservation>
TABLE_attached_devices <type> <name> <alias> ] ]
```

### Syntax Description

#### 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

---

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## show hardware

```
show hardware [ __readonly__ <header_str> <bios_ver_str> [ <loader_ver_str> ] <kickstart_ver_str> [
<sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <kick_cmpl_time> <kick_tmstamp> [ <isan_file_name>
][ <isan_cmpl_time> ] [ <isan_tmstamp> ] <chassis_id> <module_id> <cpu_name> <memory> <mem_type>
<proc_board_id> [ <host_name> ] <bootflash_size> [ <slot0_size> ] <kern_uptm_days> <kern_uptm_hrs>
<kern_uptm_mins> <kern_uptm_secs> <rr_usecs> <rr_ctime> <rr_reason> [ <rr_sys_ver> ] [ <rr_service>
][ <manufacturer> ] { TABLE_slot [ TABLE_slot_info [ [ <num_slot_str> ] [ <status_ok_empty> ] [ [ <type>
[ <num_submods> ] ] <model_num> <hw_ver> <part_num> <part_revision> <manuf_date> <serial_num>
<CLEI_code> ] ] } }
```

### Syntax Description

Syntax Description	Description
show	Show running system information
hardware	Show hardware information
<i>__readonly__</i>	(Optional)
<i>header_str</i>	(Optional)
<i>bios_ver_str</i>	(Optional)
<i>loader_ver_str</i>	(Optional)
<i>kickstart_ver_str</i>	(Optional)
<i>sys_ver_str</i>	(Optional)
<i>bios_cmpl_time</i>	(Optional)
<i>kick_file_name</i>	(Optional)
<i>kick_cmpl_time</i>	(Optional)
<i>kick_tmstamp</i>	(Optional)
<i>isan_file_name</i>	(Optional)
<i>isan_cmpl_time</i>	(Optional)
<i>isan_tmstamp</i>	(Optional)
<i>chassis_id</i>	(Optional)
<i>module_id</i>	(Optional)
<i>cpu_name</i>	(Optional)
<i>memory</i>	(Optional)
<i>mem_type</i>	(Optional)
<i>proc_board_id</i>	(Optional)

<i>bootflash_size</i>	(Optional)
<i>slot0_size</i>	(Optional)
<i>host_name</i>	(Optional)
<i>kern_uptm_days</i>	(Optional)
<i>kern_uptm_hrs</i>	(Optional)
<i>kern_uptm_mins</i>	(Optional)
<i>kern_uptm_secs</i>	(Optional)
<i>rr_usecs</i>	(Optional)
<i>rr_ctime</i>	(Optional)
<i>rr_reason</i>	(Optional)
<i>rr_sys_ver</i>	(Optional)
<i>rr_service</i>	(Optional)
<i>manufacturer</i>	(Optional)
TABLE_slot	(Optional) Slot
<i>num_slot_str</i>	(Optional) Number of elements
TABLE_slot_info	(Optional) Slot Info
<i>status_ok_empty</i>	(Optional) Status (Present or Absent)
<i>type</i>	(Optional) Description of the element
<i>num_submods</i>	(Optional) Number of Submodules
<i>model_num</i>	(Optional) Model Number
<i>hw_ver</i>	(Optional) Hardware version
<i>part_num</i>	(Optional) Part Number
<i>part_revision</i>	(Optional) Part revision
<i>manuf_date</i>	(Optional) Manufacturing date
<i>serial_num</i>	(Optional) Serial Number
<i>CLEI_code</i>	(Optional) CLEI code

**Command Mode**

- /exec

# show hardware access-list lou resource threshold

```
show hardware access-list lou resource threshold [ __readonly__ { current [ { lou [ { resource [ { threshold [
{ <threshold_value> } ] } ] } ] } ] }
```

## Syntax Description

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

Syntax Description	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

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
<i>__readonly__</i>	(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

---

### Syntax Description

---

show Show running system information

---

hardware Hardware related

---

capacity Hardware usage levels for Power, Switching Fabric, Flash, etc

---

## Command Mode

- /exec

## show hardware capacity eobc

```
show hardware capacity eobc [ __readonly__ { eobc_usage <eobc_rx_packets> <eobc_rx_dropped>
<eobc_rx_pps> <eobc_tx_packets> <eobc_tx_dropped> <eobc_tx_pps> } ]
```

### Syntax Description

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_rx_packets</i>		(Optional)
<i>eobc_rx_dropped</i>		(Optional)
<i>eobc_rx_pps</i>		(Optional)
<i>eobc_tx_packets</i>		(Optional)
<i>eobc_tx_dropped</i>		(Optional)
<i>eobc_tx_pps</i>		(Optional)

### Command Mode

- /exec

# show hardware capacity fabric-utilization

show hardware capacity fabric-utilization

## Syntax Description

Syntax Description		
show		Show running system information
hardware		Show hardware information
capacity		resource inventory and/or usage level
fabric-utilization		Show per module Fabric utilization

## Command Mode

- /exec

# show hardware capacity forwarding

show hardware capacity forwarding

## Syntax Description

Syntax	Description
show	Show running system information
hardware	Hardware related
capacity	Hardware usage levels for Power, Switching Fabric, Flash, etc
forwarding	L2/L3 Forwarding resources

## Command Mode

- /exec

## show hardware capacity interface

```
show hardware capacity interface [ __readonly__ { TABLE_module_drops <module_drops> <tx_drops>
<rx_drops> <max_tx_port> <max_rx_port> } { TABLE_module_buffers <module_buffers> <tx_buffers>
<rx_buffers> } ]
```

### Syntax Description

#### 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>module_drops</i>	(Optional) Module number for Tx/Rx drops
TABLE_module_drops	(Optional) show module
<i>tx_drops</i>	(Optional) Tx drops
<i>rx_drops</i>	(Optional) Rx drops
<i>max_tx_port</i>	(Optional) Port with max Tx drops
<i>max_rx_port</i>	(Optional) Port with max Rx drops
<i>module_buffers</i>	(Optional) Module number for Tx/Rx buffers
TABLE_module_buffers	(Optional) show module
<i>tx_buffers</i>	(Optional) Tx buffers
<i>rx_buffers</i>	(Optional) Rx buffers

### Command Mode

- /exec

# show hardware capacity module

```
show hardware capacity module [ __readonly__ { sup_ha_status <sup_ha_admin_status> <sup_ha_oper_status>
<dual_sup_hw_state> <redundancy_state> } { switch_resouces { TABLE_lcinfo <mod_num> <model_num>
<part_num> <serial_num> } { TABLE_xbarinfo <mod_num1> <model_num1> <part_num1> <serial_num1>
} } { TABLE_flash_nvram_info <mod_num2> <dev_name> <total_bytes> <free_bytes> <percent_used> }
]
```

## Syntax Description

Syntax Description		
show		Show running system information
hardware		Hardware related
capacity		resource inventory and/or usage level
module		SUP, LC, XBAR
<i>__readonly__</i>		(Optional)
<i>sup_ha_status</i>		(Optional)
<i>sup_ha_admin_status</i>		(Optional)
<i>sup_ha_oper_status</i>		(Optional)
<i>dual_sup_hw_state</i>		(Optional)
<i>redundancy_state</i>		(Optional)
<i>switch_resouces</i>		(Optional)
<i>TABLE_lcinfo</i>		(Optional)
<i>mod_num</i>		(Optional)
<i>model_num</i>		(Optional)
<i>part_num</i>		(Optional)
<i>serial_num</i>		(Optional)
<i>TABLE_xbarinfo</i>		(Optional)
<i>mod_num1</i>		(Optional)
<i>model_num1</i>		(Optional)
<i>part_num1</i>		(Optional)
<i>serial_num1</i>		(Optional)
<i>TABLE_flash_nvram_info</i>		(Optional)

<i>mod_num2</i>	(Optional)
<i>dev_name</i>	(Optional)
<i>total_bytes</i>	(Optional)
<i>free_bytes</i>	(Optional)
<i>percent_used</i>	(Optional)

**Command Mode**

- /exec



## show hardware capacity power

```
show hardware capacity power [ __readonly__ { power_summary <ps_redun_mode_admin>
<ps_redun_mode_oper> <power_total> <power_rsvd> <power_rsvd_percent> <power_given_mod>
<power_given_mod_percent> <power_avail> <power_avail_percent> <power_out_actual_draw>
<power_input_actual_draw> } ]
```

### Syntax Description

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

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)	
<i>TABLE_module</i>	(Optional)	
<i>module_num</i>	(Optional)	Specify a module number
<i>port_group</i>	(Optional)	
<i>mac_learning</i>	(Optional)	

## Command Mode

- /exec

# show hardware feature-capability

```
show hardware feature-capability [ detailed ] [ __readonly__ [ TABLE_feature_support <feature_name> [
TABLE_module_support <mod_inst> <support> ] ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
hardware	Show hardware information
feature-capability	show registered features supported
detailed	(Optional) detailed
__readonly__	(Optional)
TABLE_feature_support	(Optional) show features supported
feature_name	(Optional) feature name
TABLE_module_support	(Optional) show registered features supported
mod_inst	(Optional) module instance
support	(Optional) support details

## Command Mode

- /exec

# show hardware flow aging

show hardware flow aging [ instance <inst> ] [ module <num> ]

## Syntax Description

Syntax Description	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

Syntax Description	Description
show	Show running system information
hardware	Show hardware information
flow	Netflow Module
entry	Netflow Table Entry
address	Netflow Table Address
<i>addr</i>	Netflow Table Address
type	Flow Type
ip	Internet Protocol Version 4
ipv6	Internet Protocol Version 6
l2	Layer 2 Protocol
mpls	MPLS Protocol
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

# show hardware flow ip

```
show hardware flow ip [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
hardware	Show hardware information
flow	Netflow Module
ip	Internet Protocol Version 4
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

# show hardware flow ipmac

```
show hardware flow ipmac [ { { profile <prof_id> } | { vlan <vlan_id> } | { interface <interface> } } ] [
instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

Syntax	Description
show	Show running system information
hardware	Show hardware information
flow	Netflow Module
ipmac	IPv4+MAC
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

# show hardware flow ipv6

```
show hardware flow ipv6 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

Syntax	Description
show	Show running system information
hardware	Show hardware information
flow	Netflow Module
ipv6	Internet Protocol Version 6
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec



## show hardware flow l2

```
show hardware flow l2 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } } ] [ instance
<inst> ] [ detail ] [ module <num> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
hardware	Show hardware information
flow	Netflow Module
l2	Layer 2 Protocol
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

### Command Mode

- /exec

# show hardware flow mpls

```
show hardware flow mpls [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

Syntax Description	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

Syntax Description	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

Syntax Description	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

Syntax Description		
show		Show running system information
hardware		Show hardware information
forwarding		Show hardware information for forwarding path
interface		Interface
statistics		Statistics
mode		Statistics mode
__readonly__		(Optional)
system		(Optional)
<i>sysmode</i>		(Optional)
TABLE_module		(Optional)
<i>module</i>		(Optional) Specify a module number
<i>modmode</i>		(Optional)

## Command Mode

- /exec

# show hardware forwarding memory health detail

show hardware forwarding memory health detail

## Syntax Description

Syntax Description		
show	Show running system information	
hardware	Show hardware information	
forwarding	forwarding information	
memory	memory information	
health	memory health information	
detail	show the detail	

## Command Mode

- /exec

# show hardware forwarding memory health summary

show hardware forwarding memory health summary

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
forwarding	forwarding information
memory	memory information
health	memory health information
summary	show the summary

## Command Mode

- /exec

# show hardware internal access-list lookup interface input expanded

```
show hardware internal access-list lookup { { { { src-ip <sa-ip> dst-ip <da-ip> } | { src-ipv6 <v6sa> dst-ipv6 <v6da> } } } protocol <proto> l4-src-port <sport> l4-dst-port <dport> [ vlan <vlan_val> ] } | { src-mac <macsa> dst-mac <macda> [ etype <ethertype> ] } } interface <ifname> { input | output } { expanded | summary } [ instance <inst> ] [ module <num> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
hardware	Hardware information
internal	Commands for internal use
access-list	Access Control List
lookup	Do a lookup
src-ip	Source IP
<i>sa-ip</i>	IP address
dst-ip	Destination IP
<i>da-ip</i>	IP address
src-ipv6	IPv6 Source Address
dst-ipv6	IPv6 Destination Address
src-mac	Source MAC address
<i>macsa</i>	Source MAC address
dst-mac	Destination MAC Address
<i>macda</i>	Destination MAC Address
etype	(Optional) Ether type
<i>ethertype</i>	(Optional) Ether type
protocol	L4 protocol
<i>proto</i>	L4 protocol Value
l4-src-port	L4 Source port
<i>sport</i>	L4 Dest port value
l4-dst-port	L4 Source port



<i>dport</i>	L4 Dest port value
interface	interface name
<i>ifname</i>	display access list for the interface
vlan	(Optional) vlan for L2 Trunk Ports
<i>vlan_val</i>	(Optional) Vlan value
input	Input/ingress direction
output	Output/egress direction
expanded	Detailed view
summary	Brief view
instance	(Optional) ASIC Instance Number
<i>inst</i>	(Optional) ASIC Instance Number in Hex
module	(Optional) Slot/module
<i>num</i>	(Optional) Slot/module number

**Command Mode**

- /exec

# show hardware internal bootflash model

show hardware internal bootflash model

## Syntax Description

Syntax	Description
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
bootflash	Show bootflash related information
model	Show bootflash model name

## Command Mode

- /exec

## show hardware internal buffer info pkt-stats

```
show hardware internal buffer info pkt-stats [ module <module> ] [ instance <instance> ] [ brief | { [ peak ]
[ detail ] } | port-stuck-log [ [ asic-port <port> ] ] | port-log [ [ asic-port <port> ] ] | threshold [ [ carving ] [
cpu ] [ __readonly__ { TABLE_instance <instance> <port_logs> <port_stuck_logs> <cpu_start> <cpu>
<cpu_xpe_a> <cpu_xpe_b> <port_threshold> <supports_8q> <total_instant_usage_1> <rem_instant_usage_1>
<max_cell_usage_1> <switch_cell_count_1> <total_instant_usage_2> <rem_instant_usage_2>
<max_cell_usage_2> <switch_cell_count_2> <total_instant_usage_3> <rem_instant_usage_3>
<max_cell_usage_3> <switch_cell_count_3> <total_instant_usage_4> <rem_instant_usage_4>
<max_cell_usage_4> <switch_cell_count_4> <switch_cell_count_4_detail> <xpe_r_a_instant_usage_1>
<xpe_r_b_instant_usage_1> <xpe_s_a_instant_usage_1> <xpe_s_b_instant_usage_1>
<xpe_r_a_instant_usage_4> <xpe_r_b_instant_usage_4> <xpe_s_a_instant_usage_4>
<xpe_s_b_instant_usage_4> <xpe_r_a_rem_instant_usage_1> <xpe_r_b_rem_instant_usage_1>
<xpe_s_a_rem_instant_usage_1> <xpe_s_b_rem_instant_usage_1> <xpe_r_a_rem_instant_usage_4>
<xpe_r_b_rem_instant_usage_4> <xpe_s_a_rem_instant_usage_4> <xpe_s_b_rem_instant_usage_4>
<xpe_r_a_max_cell_usage_1> <xpe_r_b_max_cell_usage_1> <xpe_s_a_max_cell_usage_1>
<xpe_s_b_max_cell_usage_1> <xpe_r_a_max_cell_usage_4> <xpe_r_b_max_cell_usage_4>
<xpe_s_a_max_cell_usage_4> <xpe_s_b_max_cell_usage_4> <xpe_r_a_switch_cell_count_1>
<xpe_r_b_switch_cell_count_1> <xpe_s_a_switch_cell_count_1> <xpe_s_b_switch_cell_count_1>
<xpe_r_a_switch_cell_count_4> <xpe_r_b_switch_cell_count_4> <xpe_s_a_switch_cell_count_4>
<xpe_s_b_switch_cell_count_4> { TABLE_interface <stats_start> <peak_stats_start> <front_port>
<ucast_count_1> <ucast_count_2> <ucast_count_3> <ucast_count_4> <ucast_count_5> <ucast_count_6>
<ucast_count_7> <ucast_count_8> <ucast_count_9> <ucast_count_10> <xpe_a_ucast_count_1>
<xpe_b_ucast_count_1> <xpe_ucast_count_2> <xpe_ucast_count_3> <xpe_ucast_count_4>
<xpe_ucast_count_5> <xpe_ucast_count_6> <xpe_ucast_count_7> <xpe_ucast_count_8> <xpe_ucast_count_9>
<xpe_ucast_count_10> <mcast_count_1> <mcast_count_2> <mcast_count_3> <mcast_count_4>
<mcast_count_5> <mcast_count_6> <mcast_count_7> <mcast_count_8> <mcast_count_9> <mcast_count_10>
<xpe_a_mcast_count_1> <xpe_b_mcast_count_1> <xpe_mcast_count_2> <xpe_mcast_count_3>
<xpe_mcast_count_4> <xpe_mcast_count_5> <xpe_mcast_count_6> <xpe_mcast_count_7>
<xpe_mcast_count_8> <xpe_mcast_count_9> <xpe_mcast_count_10> } } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
buffer	System buffer information
info	Buffer specific information
pkt-stats	Per port - Per Queue stats information
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
<i>instance</i>	(Optional) ASIC Instance Number in Decimal

<i>brief</i>	(Optional) Show only system buffer stats
<i>detail</i>	(Optional) Show detailed statistics
<i>peak</i>	(Optional) Show peak buffer usage statistics
<i>port-log</i>	(Optional) Show cell usage threshold port log
<i>port-stuck-log</i>	(Optional) Show port stuck monitor log
<i>asic-port</i>	(Optional) Select a hardware/asic port
<i>port</i>	(Optional) Hardware asic port number
<i>threshold</i>	(Optional) Show per port buffer threshold
<i>carving</i>	(Optional) Buffer Carving information
<i>cpu</i>	(Optional) CPU Queue stats information
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_instance</i>	(Optional) Instance
<i>instance</i>	(Optional) Asic Instance
<i>supports_8q</i>	(Optional) Supports 8 user qos-groups
<i>port_logs</i>	(Optional) Port-Log
<i>port_stuck_logs</i>	(Optional) Port-Stuck-Log
<i>cpu_start</i>	(Optional) Header Display for instant cell usage for CPU port queues
<i>cpu</i>	(Optional) CPU
<i>cpu_xpe_a</i>	(Optional) CPU_XPE_A
<i>cpu_xpe_b</i>	(Optional) CPU_XPE_B
<i>port_threshold</i>	(Optional) Port-Threshold
<i>total_instant_usage_1</i>	(Optional) Total Instant Usage for service pool 1
<i>rem_instant_usage_1</i>	(Optional) Remaining Instant Usage for service pool 1
<i>max_cell_usage_1</i>	(Optional) Max Cell Usage for service pool 1
<i>switch_cell_count_1</i>	(Optional) Switch Cell Count for service pool 1
<i>total_instant_usage_2</i>	(Optional) Total Instant Usage for service pool 2
<i>rem_instant_usage_2</i>	(Optional) Remaining Instant Usage for service pool 2
<i>max_cell_usage_2</i>	(Optional) Max Cell Usage for service pool 2
<i>switch_cell_count_2</i>	(Optional) Switch Cell Count for service pool 2

<i>total_instant_usage_3</i>	(Optional) Total Instant Usage for service pool 3
<i>rem_instant_usage_3</i>	(Optional) Remaining Instant Usage for service pool 3
<i>max_cell_usage_3</i>	(Optional) Max Cell Usage for service pool 3
<i>switch_cell_count_3</i>	(Optional) Switch Cell Count for service pool 3
<i>total_instant_usage_4</i>	(Optional) Total Instant Usage for service pool 4
<i>rem_instant_usage_4</i>	(Optional) Remaining Instant Usage for service pool 4
<i>max_cell_usage_4</i>	(Optional) Max Cell Usage for service pool 4
<i>switch_cell_count_4</i>	(Optional) Switch Cell Count for service pool 4
<i>switch_cell_count_4_detail</i>	(Optional) Switch Cell Count for service pool 4
<i>xpe_r_a_instant_usage_1</i>	(Optional) Slice-R, XPE-A Instant Usage for service pool 1
<i>xpe_r_b_instant_usage_1</i>	(Optional) Slice-R, XPE-B Instant Usage for service pool 1
<i>xpe_s_a_instant_usage_1</i>	(Optional) Slice-S, XPE-A Instant Usage for service pool 1
<i>xpe_s_b_instant_usage_1</i>	(Optional) Slice-S, XPE-B Instant Usage for service pool 1
<i>xpe_r_a_instant_usage_4</i>	(Optional) Slice-R, XPE-A Instant Usage for service pool 4
<i>xpe_r_b_instant_usage_4</i>	(Optional) Slice-R, XPE-B Instant Usage for service pool 4
<i>xpe_s_a_instant_usage_4</i>	(Optional) Slice-S, XPE-A Instant Usage for service pool 4
<i>xpe_s_b_instant_usage_4</i>	(Optional) Slice-S, XPE-B Instant Usage for service pool 4
<i>xpe_r_a_rem_instant_usage_1</i>	(Optional) Slice-R, XPE-A Remaining Instant Usage for service pool 1
<i>xpe_r_b_rem_instant_usage_1</i>	(Optional) Slice-R, XPE-B Remaining Instant Usage for service pool 1
<i>xpe_s_a_rem_instant_usage_1</i>	(Optional) Slice-S, XPE-A Remaining Instant Usage for service pool 1
<i>xpe_s_b_rem_instant_usage_1</i>	(Optional) Slice-S, XPE-B Remaining Instant Usage for service pool 1
<i>xpe_r_a_rem_instant_usage_4</i>	(Optional) Slice-R, XPE-A Remaining Instant Usage for service pool 4
<i>xpe_r_b_rem_instant_usage_4</i>	(Optional) Slice-R, XPE-B Remaining Instant Usage for service pool 4
<i>xpe_s_a_rem_instant_usage_4</i>	(Optional) Slice-S, XPE-A Remaining Instant Usage for service pool 4

<i>xpe_s_b_rem_instant_usage_4</i>	(Optional) Slice-S, XPE-B Remaining Instant Usage for service pool 4
<i>xpe_r_a_max_cell_usage_1</i>	(Optional) Max Cell Usage for service pool 1
<i>xpe_r_b_max_cell_usage_1</i>	(Optional) Max Cell Usage for service pool 1
<i>xpe_s_a_max_cell_usage_1</i>	(Optional) Max Cell Usage for service pool 1
<i>xpe_s_b_max_cell_usage_1</i>	(Optional) Max Cell Usage for service pool 1
<i>xpe_r_a_max_cell_usage_4</i>	(Optional) Max Cell Usage for service pool 4
<i>xpe_r_b_max_cell_usage_4</i>	(Optional) Max Cell Usage for service pool 4
<i>xpe_s_a_max_cell_usage_4</i>	(Optional) Max Cell Usage for service pool 4
<i>xpe_s_b_max_cell_usage_4</i>	(Optional) Max Cell Usage for service pool 4
<i>xpe_r_a_switch_cell_count_1</i>	(Optional) Switch Cell Count for service pool 1
<i>xpe_r_b_switch_cell_count_1</i>	(Optional) Switch Cell Count for service pool 1
<i>xpe_s_a_switch_cell_count_1</i>	(Optional) Switch Cell Count for service pool 1
<i>xpe_s_b_switch_cell_count_1</i>	(Optional) Switch Cell Count for service pool 1
<i>xpe_r_a_switch_cell_count_4</i>	(Optional) Switch Cell Count for service pool 4
<i>xpe_r_b_switch_cell_count_4</i>	(Optional) Switch Cell Count for service pool 4
<i>xpe_s_a_switch_cell_count_4</i>	(Optional) Switch Cell Count for service pool 4
<i>xpe_s_b_switch_cell_count_4</i>	(Optional) Switch Cell Count for service pool 4
TABLE_interface	(Optional) Interface
stats_start	(Optional) Header Display for instant stats
peak_stats_start	(Optional) Header Display for peak stats
front_port	(Optional) Front Port
ucast_count_1	(Optional) Unicast Count Queue 1
ucast_count_2	(Optional) Unicast Count Queue 2
ucast_count_3	(Optional) Unicast Count Queue 3
ucast_count_4	(Optional) Unicast Count Queue 4
ucast_count_5	(Optional) Unicast Count Queue 5
ucast_count_6	(Optional) Unicast Count Queue 6
ucast_count_7	(Optional) Unicast Count Queue 7

<i>ucast_count_8</i>	(Optional) Unicast Count Queue 8
<i>ucast_count_9</i>	(Optional) Unicast Count Queue 9
<i>ucast_count_10</i>	(Optional) Unicast Count Queue 10
<i>xpe_a_ucast_count_1</i>	(Optional) xpe_a Unicast Count Queue 1
<i>xpe_b_ucast_count_1</i>	(Optional) xpe_b Unicast Count Queue 1
<i>xpe_ucast_count_2</i>	(Optional) Unicast Count Queue 2
<i>xpe_ucast_count_3</i>	(Optional) Unicast Count Queue 3
<i>xpe_ucast_count_4</i>	(Optional) Unicast Count Queue 4
<i>xpe_ucast_count_5</i>	(Optional) Unicast Count Queue 5
<i>xpe_ucast_count_6</i>	(Optional) Unicast Count Queue 6
<i>xpe_ucast_count_7</i>	(Optional) Unicast Count Queue 7
<i>xpe_ucast_count_8</i>	(Optional) Unicast Count Queue 8
<i>xpe_ucast_count_9</i>	(Optional) Unicast Count Queue 9
<i>xpe_ucast_count_10</i>	(Optional) Unicast Count Queue 10
<i>mcast_count_1</i>	(Optional) Multicast Count Queue 1
<i>mcast_count_2</i>	(Optional) Multicast Count Queue 2
<i>mcast_count_3</i>	(Optional) Multicast Count Queue 3
<i>mcast_count_4</i>	(Optional) Multicast Count Queue 4
<i>mcast_count_5</i>	(Optional) Multicast Count Queue 5
<i>mcast_count_6</i>	(Optional) Multicast Count Queue 6
<i>mcast_count_7</i>	(Optional) Multicast Count Queue 7
<i>mcast_count_8</i>	(Optional) Multicast Count Queue 8
<i>mcast_count_9</i>	(Optional) Multicast Count Queue 9
<i>mcast_count_10</i>	(Optional) Multicast Count Queue 10
<i>xpe_a_mcast_count_1</i>	(Optional) Multicast Count Queue 1
<i>xpe_b_mcast_count_1</i>	(Optional) Multicast Count Queue 1
<i>xpe_mcast_count_2</i>	(Optional) Multicast Count Queue 2
<i>xpe_mcast_count_3</i>	(Optional) Multicast Count Queue 3
<i>xpe_mcast_count_4</i>	(Optional) Multicast Count Queue 4

---

<i>xpe_mcast_count_5</i>	(Optional) Multicast Count Queue 5
<i>xpe_mcast_count_6</i>	(Optional) Multicast Count Queue 6
<i>xpe_mcast_count_7</i>	(Optional) Multicast Count Queue 7
<i>xpe_mcast_count_8</i>	(Optional) Multicast Count Queue 8
<i>xpe_mcast_count_9</i>	(Optional) Multicast Count Queue 9
<i>xpe_mcast_count_10</i>	(Optional) Multicast Count Queue 10

---

**Command Mode**

- /exec



## show hardware internal buffer info pkt-stats input

```
show hardware internal buffer info pkt-stats input [ module <module> ] [ instance <instance> ] [ peak ] [
detail ] [ __readonly__ { TABLE_instance <instance> <total_instant_usage_0> <rem_instant_usage_0>
<max_cell_usage_0> <switch_cell_count_0> <hdrm_pool_count_0> <hdrm_pool_peak_count_0>
<sp_count_1> <sp_count_2> <sp_count_3> <xpe_r_a_total_instant_usage_0> <xpe_r_a_rem_instant_usage_0>
<xpe_r_a_max_cell_usage_0> <xpe_r_a_switch_cell_count_0> <xpe_r_a_hdrm_pool_count_0>
<xpe_r_a_hdrm_pool_peak_count_0> <xpe_s_b_hdrm_pool_peak_count_0> <sp0_xpe_r_b_count>
<sp0_xpe_s_a_count> <sp0_xpe_s_b_count> <sp3_xpe_r_a_count> <sp3_xpe_r_b_count>
<sp3_xpe_s_a_count> <sp3_xpe_s_b_count> { TABLE_interface <stats_start> <peak_stats_start> <front_port>
<front_port_slice_r> <front_port_slice_s> <pg_min_count_0> <pg_shared_count_0> <pg_hdrm_count_0>
<pg_glb_hdrm_count_0> <pg_shared_peak_count_0> <pg_hdrm_peak_count_0> <pg_count_1> <pg_count_2>
<pg_count_3> <pg_count_4> <pg_count_5> <pg_count_6> <pg_count_7> <sp_usage_min>
<sp_usage_shared> <sp_usage_peak> } } ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
buffer	System buffer information
info	Buffer specific information
pkt-stats	Per Port - Per PG stats information
input	Input Per port - Per PG buffer stats information
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
<i>instance</i>	(Optional) ASIC Instance Number in Decimal
detail	(Optional) Show detailed statistics
peak	(Optional) Show peak buffer usage statistics
<i>__readonly__</i>	(Optional) Read Only
TABLE_instance	(Optional) Instance
<i>instance</i>	(Optional) Asic Instance
<i>total_instant_usage_0</i>	(Optional) Total Instant Usage
<i>rem_instant_usage_0</i>	(Optional) Remaining Instant Usage
<i>max_cell_usage_0</i>	(Optional) Max Cell Usage

<i>switch_cell_count_0</i>	(Optional) Switch Cell Count
<i>hdrm_pool_count_0</i>	(Optional) Hdrm pool Count
<i>hdrm_pool_peak_count_0</i>	(Optional) Hdrm pool peak_Count
<i>sp_count_1</i>	(Optional) Service Pool 1 count
<i>sp_count_2</i>	(Optional) Service Pool 2 count
<i>sp_count_3</i>	(Optional) Service Pool 3 count
<i>xpe_r_a_total_instant_usage_0</i>	(Optional) Total Instant Usage
<i>xpe_r_a_rem_instant_usage_0</i>	(Optional) Remaining Instant Usage
<i>xpe_r_a_max_cell_usage_0</i>	(Optional) Max Cell Usage
<i>xpe_r_a_switch_cell_count_0</i>	(Optional) Switch Cell Count
<i>xpe_r_a_hdrm_pool_count_0</i>	(Optional) Hdrm pool Count
<i>xpe_r_a_hdrm_pool_peak_count_0</i>	(Optional) Hdrm pool peak_Count
<i>xpe_s_b_hdrm_pool_peak_count_0</i>	(Optional) Hdrm pool peak_Count
<i>sp0_xpe_r_b_count</i>	(Optional) XPE_R_B_Service Pool 0 count
<i>sp0_xpe_s_a_count</i>	(Optional) XPE_S_A_Service Pool 0 count
<i>sp0_xpe_s_b_count</i>	(Optional) XPE_S_B_Service Pool 0 count
<i>sp3_xpe_r_a_count</i>	(Optional) XPE_R_A_Service Pool 3 count
<i>sp3_xpe_r_b_count</i>	(Optional) XPE_R B_Service Pool 3 count
<i>sp3_xpe_s_a_count</i>	(Optional) XPE_S_A_Service Pool 3 count
<i>sp3_xpe_s_b_count</i>	(Optional) XPE_S_B_Service Pool 3 count
TABLE_interface	(Optional) Interface
<i>stats_start</i>	(Optional) Header Display
<i>peak_stats_start</i>	(Optional) Peak Header Display
<i>front_port</i>	(Optional) Front Port
<i>front_port_slice_r</i>	(Optional) Front Port_slice_r
<i>front_port_slice_s</i>	(Optional) Front Port_slice_s
<i>pg_min_count_0</i>	(Optional) Priority Group 0 min count
<i>pg_shared_count_0</i>	(Optional) Priority Group 0 shared count
<i>pg_hdrm_count_0</i>	(Optional) Priority Group 0 headroom count

<i>pg_glb_hdrm_count_0</i>	(Optional) Priority Group 0 global headroom count
<i>pg_shared_peak_count_0</i>	(Optional) Priority Group 0 shared peak count
<i>pg_hdrm_peak_count_0</i>	(Optional) Priority Group 0 headroom peak count
<i>pg_count_1</i>	(Optional) Priority Group 1 count
<i>pg_count_2</i>	(Optional) Priority Group 2 count
<i>pg_count_3</i>	(Optional) Priority Group 3 count
<i>pg_count_4</i>	(Optional) Priority Group 4 count
<i>pg_count_5</i>	(Optional) Priority Group 5 count
<i>pg_count_6</i>	(Optional) Priority Group 6 count
<i>pg_count_7</i>	(Optional) Priority Group 7 count
<i>sp_usage_min</i>	(Optional) Service pool min count
<i>sp_usage_shared</i>	(Optional) Service pool shared count
<i>sp_usage_peak</i>	(Optional) Service pool peak count

**Command Mode**

- /exec

## show hardware internal buffer info tah-pkt-stats

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show hardware internal buffer info tah-pkt-stats [ input ] [ module <module> ] [ instance <instance> ] [ port
<port> ] [ subport <subport> ] [ brief | detail | peak ] [ __readonly__ { TABLE_ingress_buf <instance>
<inst_total_cell> <inst_used_cell> <inst_free_cell> { TABLE_ingress_buf_per_inst <port> <subport>
<qos0_instant_usage> <qos1_instant_usage> <qos2_instant_usage> <qos3_instant_usage>
<qos4_instant_usage> <qos5_instant_usage> <qos6_instant_usage> <qos7_instant_usage>
<port_instant_usage> <port_remain_usage> <port_peak_usage> } } { TABLE_instance <instance>
<supports_8q> <total_instant_usage_drop_pg> <rem_instant_usage_drop_pg> <max_cell_usage_drop_pg>
<switch_cell_count_drop_pg> <total_instant_usage_no_drop_pg> <rem_instant_usage_no_drop_pg>
<max_cell_usage_no_drop_pg> <switch_cell_count_no_drop_pg> <total_instant_usage_cpu_pg>
<rem_instant_usage_cpu_pg> <max_cell_usage_cpu_pg> <switch_cell_count_cpu_pg>
<total_instant_usage_lcpu_pg> <rem_instant_usage_lcpu_pg> <max_cell_usage_lcpu_pg>
<switch_cell_count_lcpu_pg> <total_instant_usage_rcpu_pg> <rem_instant_usage_rcpu_pg>
<max_cell_usage_rcpu_pg> <switch_cell_count_rcpu_pg> <total_instant_usage_span_pg>
<rem_instant_usage_span_pg> <max_cell_usage_span_pg> <switch_cell_count_span_pg>
<total_instant_desc_usage_drop_pg> <rem_instant_desc_usage_drop_pg> <switch_desc_count_drop_pg>
<total_instant_desc_usage_no_drop_pg> <rem_instant_desc_usage_no_drop_pg>
<switch_desc_count_no_drop_pg> <total_instant_desc_usage_cpu_pg> <rem_instant_desc_usage_cpu_pg>
<switch_desc_count_cpu_pg> <total_instant_desc_usage_lcpu_pg> <rem_instant_desc_usage_lcpu_pg>
<switch_desc_count_lcpu_pg> <total_instant_desc_usage_rcpu_pg> <rem_instant_desc_usage_rcpu_pg>
<switch_desc_count_rcpu_pg> <total_instant_desc_usage_span_pg> <rem_instant_desc_usage_span_pg>
<switch_desc_count_span_pg> <ucpool_instant_usage_0> <ucpool_instant_desc_usage_0>
<ucpool_max_cell_usage_0> <ucpool_instant_usage_1> <ucpool_instant_desc_usage_1>
<ucpool_max_cell_usage_1> <ucpool_instant_usage_2> <ucpool_instant_desc_usage_2>
<ucpool_max_cell_usage_2> <ucpool_instant_usage_3> <ucpool_instant_desc_usage_3>
<ucpool_max_cell_usage_3> <ucpool_instant_usage_4> <ucpool_instant_desc_usage_4>
<ucpool_max_cell_usage_4> <ucpool_instant_usage_5> <ucpool_instant_desc_usage_5>
<ucpool_max_cell_usage_5> <ucpool_instant_usage_6> <ucpool_instant_desc_usage_6>
<ucpool_max_cell_usage_6> <ucpool_instant_usage_7> <ucpool_instant_desc_usage_7>
<ucpool_max_cell_usage_7> <mcpool_instant_usage_0> <mcpool_instant_desc_usage_0>
<mcpool_instant_inq_usage_0> <mcpool_instant_pkts_usage_0> <mcpool_max_cell_usage_0>
<mcpool_instant_usage_1> <mcpool_instant_desc_usage_1> <mcpool_instant_inq_usage_1>
<mcpool_instant_pkts_usage_1> <mcpool_max_cell_usage_1> <mcpool_instant_usage_2>
<mcpool_instant_desc_usage_2> <mcpool_instant_inq_usage_2> <mcpool_instant_pkts_usage_2>
<mcpool_max_cell_usage_2> <mcpool_instant_usage_3> <mcpool_instant_desc_usage_3>
<mcpool_instant_inq_usage_3> <mcpool_instant_pkts_usage_3> <mcpool_max_cell_usage_3>
<mcpool_instant_usage_4> <mcpool_instant_desc_usage_4> <mcpool_instant_inq_usage_4>
<mcpool_instant_pkts_usage_4> <mcpool_max_cell_usage_4> <mcpool_instant_usage_5>
<mcpool_instant_desc_usage_5> <mcpool_instant_inq_usage_5> <mcpool_instant_pkts_usage_5>
<mcpool_max_cell_usage_5> <mcpool_instant_usage_6> <mcpool_instant_desc_usage_6>
<mcpool_instant_inq_usage_6> <mcpool_instant_pkts_usage_6> <mcpool_max_cell_usage_6>
<mcpool_instant_usage_7> <mcpool_instant_desc_usage_7> <mcpool_instant_inq_usage_7>
<mcpool_instant_pkts_usage_7> <mcpool_max_cell_usage_7> { TABLE_detail <egr_port>
<port_uc_cells_q0> <port_mc_cells_q0> <port_mc_desc_q0> <port_uc_cells_q1> <port_mc_cells_q1>
<port_mc_desc_q1> <port_uc_cells_q2> <port_mc_cells_q2> <port_mc_desc_q2> <port_uc_cells_q3>
<port_mc_cells_q3> <port_mc_desc_q3> <port_uc_cells_q4> <port_mc_cells_q4> <port_mc_desc_q4>
<port_uc_cells_q5> <port_mc_cells_q5> <port_mc_desc_q5> <port_uc_cells_q6> <port_mc_cells_q6>
<port_mc_desc_q6> <port_uc_cells_q7> <port_mc_cells_q7> <port_mc_desc_q7> } } TABLE_peak
<peak_drop_pg> <peak_no_drop_pg> <peak_mc_pool_0> <peak_mc_pool_1> <peak_mc_pool_2>

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<peak_mc_pool_3> <peak_mc_pool_4> <peak_mc_pool_5> <peak_mc_pool_6> <peak_mc_pool_7>
<peak_uc_pool_0> <peak_uc_pool_1> <peak_uc_pool_2> <peak_uc_pool_3> <peak_uc_pool_4>
<peak_uc_pool_5> <peak_uc_pool_6> <peak_uc_pool_7> <oport> <count_0> <count_1> } } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
buffer	System buffer information
info	Buffer specific information
tah-pkt-stats	Per port - Per Queue stats information
input	(Optional) Input buffer stats
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
<i>instance</i>	(Optional) ASIC Instance Number in Decimal
port	(Optional) Front port
<i>port</i>	(Optional) Front port number
subport	(Optional) Breakout sub port
<i>subport</i>	(Optional) Breakout sub port number
brief	(Optional) Show only system buffer stats
detail	(Optional) Show detailed system buffer stats
peak	(Optional) Show peak buffer stats
<i>__readonly__</i>	(Optional) Read Only
TABLE_ingress_buf	(Optional) Ingress Buffer Info
<i>instance</i>	(Optional) Asic Instance
<i>inst_total_cell</i>	(Optional) instane total cell allocated
<i>inst_used_cell</i>	(Optional) instance instant cell usage
<i>inst_free_cell</i>	(Optional) instance instant cell remaining
TABLE_ingress_buf_per_inst	(Optional) Per Instance Ingress Buffer Info
<i>port</i>	(Optional) Front port

<i>subport</i>	(Optional) Front breakout subport
<i>qos0_instant_usage</i>	(Optional) qos0 instant cell usage
<i>qos1_instant_usage</i>	(Optional) qos1 instant cell usage
<i>qos2_instant_usage</i>	(Optional) qos2 instant cell usage
<i>qos3_instant_usage</i>	(Optional) qos3 instant cell usage
<i>qos4_instant_usage</i>	(Optional) qos4 instant cell usage
<i>qos5_instant_usage</i>	(Optional) qos5 instant cell usage
<i>qos6_instant_usage</i>	(Optional) qos6 instant cell usage
<i>qos7_instant_usage</i>	(Optional) qos7 instant cell usage
<i>port_instant_usage</i>	(Optional) port instant cell usage
<i>port_remain_usage</i>	(Optional) port remain cell usage
<i>port_peak_usage</i>	(Optional) port peak cell usage
TABLE_instance	(Optional) Instance
<i>instance</i>	(Optional) Asic Instance
<i>supports_8q</i>	(Optional) Supports 8 user qos-groups
<i>total_instant_usage_drop_pg</i>	(Optional) Total Instant Usage for drop pool-group
<i>rem_instant_usage_drop_pg</i>	(Optional) Remaining Instant Usage for drop pool-group
<i>max_cell_usage_drop_pg</i>	(Optional) Max Cell Usage for drop pool-group
<i>switch_cell_count_drop_pg</i>	(Optional) Switch Cell Count for drop pool-group
<i>total_instant_usage_no_drop_pg</i>	(Optional) Total Instant Usage for no-drop pool-group
<i>rem_instant_usage_no_drop_pg</i>	(Optional) Remaining Instant Usage for no-drop pool-group
<i>max_cell_usage_no_drop_pg</i>	(Optional) Max Cell Usage for no-drop pool-group
<i>switch_cell_count_no_drop_pg</i>	(Optional) Switch Cell Count for no-drop pool-group
<i>total_instant_usage_cpu_pg</i>	(Optional) Total Instant Usage for cpu pool-group
<i>rem_instant_usage_cpu_pg</i>	(Optional) Remaining Instant Usage for cpu pool-group
<i>max_cell_usage_cpu_pg</i>	(Optional) Max Cell Usage for cpu pool-group
<i>switch_cell_count_cpu_pg</i>	(Optional) Switch Cell Count for cpu pool-group
<i>total_instant_usage_lcpu_pg</i>	(Optional) Total Instant Usage for lcpu pool-group
<i>rem_instant_usage_lcpu_pg</i>	(Optional) Remaining Instant Usage for lcpu pool-group

<i>max_cell_usage_lcpu_pg</i>	(Optional) Max Cell Usage for lcpu pool-group
<i>switch_cell_count_lcpu_pg</i>	(Optional) Switch Cell Count for lcpu pool-group
<i>total_instant_usage_rcpu_pg</i>	(Optional) Total Instant Usage for rcpu pool-group
<i>rem_instant_usage_rcpu_pg</i>	(Optional) Remaining Instant Usage for rcpu pool-group
<i>max_cell_usage_rcpu_pg</i>	(Optional) Max Cell Usage for rcpu pool-group
<i>switch_cell_count_rcpu_pg</i>	(Optional) Switch Cell Count for rcpu pool-group
<i>total_instant_usage_span_pg</i>	(Optional) Total Instant Usage for span pool-group
<i>rem_instant_usage_span_pg</i>	(Optional) Remaining Instant Usage for span pool-group
<i>max_cell_usage_span_pg</i>	(Optional) Max Cell Usage for span pool-group
<i>switch_cell_count_span_pg</i>	(Optional) Switch Cell Count for span pool-group
<i>total_instant_desc_usage_drop_pg</i>	(Optional) Total Instant Desc Usage for drop pool-group
<i>rem_instant_desc_usage_drop_pg</i>	(Optional) Remaining Instant Desc Usage for drop pool-group
<i>switch_desc_count_drop_pg</i>	(Optional) Switch Desc Count for drop pool-group
<i>total_instant_desc_usage_no_drop_pg</i>	(Optional) Total Instant Desc Usage for no-drop pool-group
<i>rem_instant_desc_usage_no_drop_pg</i>	(Optional) Remaining Instant Desc Usage for no-drop pool-group
<i>switch_desc_count_no_drop_pg</i>	(Optional) Switch Desc Count for no-drop pool-group
<i>total_instant_desc_usage_cpu_pg</i>	(Optional) Total Instant Desc Usage for cpu pool-group
<i>rem_instant_desc_usage_cpu_pg</i>	(Optional) Remaining Instant Desc Usage for cpu pool-group
<i>switch_desc_count_cpu_pg</i>	(Optional) Switch Desc Count for cpu pool-group
<i>total_instant_desc_usage_lcpu_pg</i>	(Optional) Total Instant Desc Usage for lcpu pool-group
<i>rem_instant_desc_usage_lcpu_pg</i>	(Optional) Remaining Instant Desc Usage for lcpu pool-group
<i>switch_desc_count_lcpu_pg</i>	(Optional) Switch Desc Count for lcpu pool-group
<i>total_instant_desc_usage_rcpu_pg</i>	(Optional) Total Instant Desc Usage for rcpu pool-group
<i>rem_instant_desc_usage_rcpu_pg</i>	(Optional) Remaining Instant Desc Usage for rcpu pool-group
<i>switch_desc_count_rcpu_pg</i>	(Optional) Switch Desc Count for rcpu pool-group
<i>total_instant_desc_usage_span_pg</i>	(Optional) Total Instant Desc Usage for span pool-group
<i>rem_instant_desc_usage_span_pg</i>	(Optional) Remaining Instant Desc Usage for span pool-group
<i>switch_desc_count_span_pg</i>	(Optional) Switch Desc Count for span pool-group
<i>ucpool_instant_usage_0</i>	(Optional) Total Instant Usage for UC pool 0

<i>ucpool_instant_desc_usage_0</i>	(Optional) Total Instant Desc Usage for UC pool 0
<i>ucpool_max_cell_usage_0</i>	(Optional) Max Cell Usage for UC pool 0
<i>ucpool_instant_usage_1</i>	(Optional) Total Instant Usage for UC pool 1
<i>ucpool_instant_desc_usage_1</i>	(Optional) Total Instant Desc Usage for UC pool 1
<i>ucpool_max_cell_usage_1</i>	(Optional) Max Cell Usage for UC pool 1
<i>ucpool_instant_usage_2</i>	(Optional) Total Instant Usage for UC pool 2
<i>ucpool_instant_desc_usage_2</i>	(Optional) Total Instant Desc Usage for UC pool 2
<i>ucpool_max_cell_usage_2</i>	(Optional) Max Cell Usage for UC pool 2
<i>ucpool_instant_usage_3</i>	(Optional) Total Instant Usage for UC pool 3
<i>ucpool_instant_desc_usage_3</i>	(Optional) Total Instant Desc Usage for UC pool 3
<i>ucpool_max_cell_usage_3</i>	(Optional) Max Cell Usage for UC pool 3
<i>ucpool_instant_usage_4</i>	(Optional) Total Instant Usage for UC pool 4
<i>ucpool_instant_desc_usage_4</i>	(Optional) Total Instant Desc Usage for UC pool 4
<i>ucpool_max_cell_usage_4</i>	(Optional) Max Cell Usage for UC pool 4
<i>ucpool_instant_usage_5</i>	(Optional) Total Instant Usage for UC pool 5
<i>ucpool_instant_desc_usage_5</i>	(Optional) Total Instant Desc Usage for UC pool 5
<i>ucpool_max_cell_usage_5</i>	(Optional) Max Cell Usage for UC pool 5
<i>ucpool_instant_usage_6</i>	(Optional) Total Instant Usage for UC pool 6
<i>ucpool_instant_desc_usage_6</i>	(Optional) Total Instant Desc Usage for UC pool 6
<i>ucpool_max_cell_usage_6</i>	(Optional) Max Cell Usage for UC pool 6
<i>ucpool_instant_usage_7</i>	(Optional) Total Instant Usage for UC pool 7
<i>ucpool_instant_desc_usage_7</i>	(Optional) Total Instant Desc Usage for UC pool 7
<i>ucpool_max_cell_usage_7</i>	(Optional) Max Cell Usage for UC pool 7
<i>mcpool_instant_usage_0</i>	(Optional) Total Instant Usage for MC pool 0
<i>mcpool_instant_desc_usage_0</i>	(Optional) Total Instant Desc Usage for MC pool 0
<i>mcpool_instant_inq_usage_0</i>	(Optional) Total Instant Inq Usage for MC pool 0
<i>mcpool_instant_pkts_usage_0</i>	(Optional) Total Instant Pkts Usage for MC pool 0
<i>mcpool_max_cell_usage_0</i>	(Optional) Max Cell Usage for MC pool 0
<i>mcpool_instant_usage_1</i>	(Optional) Total Instant Usage for MC pool 1



<i>mcpool_instant_desc_usage_1</i>	(Optional) Total Instant Desc Usage for MC pool 1
<i>mcpool_instant_inq_usage_1</i>	(Optional) Total Instant Inq Usage for MC pool 1
<i>mcpool_instant_pkts_usage_1</i>	(Optional) Total Instant Pkts Usage for MC pool 1
<i>mcpool_max_cell_usage_1</i>	(Optional) Max Cell Usage for MC pool 1
<i>mcpool_instant_usage_2</i>	(Optional) Total Instant Usage for MC pool 2
<i>mcpool_instant_desc_usage_2</i>	(Optional) Total Instant Desc Usage for MC pool 2
<i>mcpool_instant_inq_usage_2</i>	(Optional) Total Instant Inq Usage for MC pool 2
<i>mcpool_instant_pkts_usage_2</i>	(Optional) Total Instant Pkts Usage for MC pool 2
<i>mcpool_max_cell_usage_2</i>	(Optional) Max Cell Usage for MC pool 2
<i>mcpool_instant_usage_3</i>	(Optional) Total Instant Usage for MC pool 3
<i>mcpool_instant_desc_usage_3</i>	(Optional) Total Instant Desc Usage for MC pool 3
<i>mcpool_instant_inq_usage_3</i>	(Optional) Total Instant Inq Usage for MC pool 3
<i>mcpool_instant_pkts_usage_3</i>	(Optional) Total Instant Pkts Usage for MC pool 3
<i>mcpool_max_cell_usage_3</i>	(Optional) Max Cell Usage for MC pool 3
<i>mcpool_instant_usage_4</i>	(Optional) Total Instant Usage for MC pool 4
<i>mcpool_instant_desc_usage_4</i>	(Optional) Total Instant Desc Usage for MC pool 4
<i>mcpool_instant_inq_usage_4</i>	(Optional) Total Instant Inq Usage for MC pool 4
<i>mcpool_instant_pkts_usage_4</i>	(Optional) Total Instant Pkts Usage for MC pool 4
<i>mcpool_max_cell_usage_4</i>	(Optional) Max Cell Usage for MC pool 4
<i>mcpool_instant_usage_5</i>	(Optional) Total Instant Usage for MC pool 5
<i>mcpool_instant_desc_usage_5</i>	(Optional) Total Instant Desc Usage for MC pool 5
<i>mcpool_instant_inq_usage_5</i>	(Optional) Total Instant Inq Usage for MC pool 5
<i>mcpool_instant_pkts_usage_5</i>	(Optional) Total Instant Pkts Usage for MC pool 5
<i>mcpool_max_cell_usage_5</i>	(Optional) Max Cell Usage for MC pool 5
<i>mcpool_instant_usage_6</i>	(Optional) Total Instant Usage for MC pool 6
<i>mcpool_instant_desc_usage_6</i>	(Optional) Total Instant Desc Usage for MC pool 6
<i>mcpool_instant_inq_usage_6</i>	(Optional) Total Instant Inq Usage for MC pool 6
<i>mcpool_instant_pkts_usage_6</i>	(Optional) Total Instant Pkts Usage for MC pool 6
<i>mcpool_max_cell_usage_6</i>	(Optional) Max Cell Usage for MC pool 6

<i>mcpool_instant_usage_7</i>	(Optional) Total Instant Usage for MC pool 7
<i>mcpool_instant_desc_usage_7</i>	(Optional) Total Instant Desc Usage for MC pool 7
<i>mcpool_instant_inq_usage_7</i>	(Optional) Total Instant Inq Usage for MC pool 7
<i>mcpool_instant_pkts_usage_7</i>	(Optional) Total Instant Pkts Usage for MC pool 7
<i>mcpool_max_cell_usage_7</i>	(Optional) Max Cell Usage for MC pool 7
TABLE_detail	(Optional) Detailed per port buffer info
<i>egr_port</i>	(Optional) Egress Port
<i>port_uc_cells_q0</i>	(Optional) UC cell usage for queue 0
<i>port_mc_cells_q0</i>	(Optional) MC cell usage for queue 0
<i>port_mc_desc_q0</i>	(Optional) MC desc usage for queue 0
<i>port_uc_cells_q1</i>	(Optional) UC cell usage for queue 1
<i>port_mc_cells_q1</i>	(Optional) MC cell usage for queue 1
<i>port_mc_desc_q1</i>	(Optional) MC desc usage for queue 1
<i>port_uc_cells_q2</i>	(Optional) UC cell usage for queue 2
<i>port_mc_cells_q2</i>	(Optional) MC cell usage for queue 2
<i>port_mc_desc_q2</i>	(Optional) MC desc usage for queue 2
<i>port_uc_cells_q3</i>	(Optional) UC cell usage for queue 3
<i>port_mc_cells_q3</i>	(Optional) MC cell usage for queue 3
<i>port_mc_desc_q3</i>	(Optional) MC desc usage for queue 3
<i>port_uc_cells_q4</i>	(Optional) UC cell usage for queue 4
<i>port_mc_cells_q4</i>	(Optional) MC cell usage for queue 4
<i>port_mc_desc_q4</i>	(Optional) MC desc usage for queue 4
<i>port_uc_cells_q5</i>	(Optional) UC cell usage for queue 5
<i>port_mc_cells_q5</i>	(Optional) MC cell usage for queue 5
<i>port_mc_desc_q5</i>	(Optional) MC desc usage for queue 5
<i>port_uc_cells_q6</i>	(Optional) UC cell usage for queue 6
<i>port_mc_cells_q6</i>	(Optional) MC cell usage for queue 6
<i>port_mc_desc_q6</i>	(Optional) MC desc usage for queue 6
<i>port_uc_cells_q7</i>	(Optional) UC cell usage for queue 7

<i>port_mc_cells_q7</i>	(Optional) MC cell usage for queue 7
<i>port_mc_desc_q7</i>	(Optional) MC desc usage for queue 7
TABLE_peak	(Optional) Detailed per port peak info
<i>peak_drop_pg</i>	(Optional) Peak usage for drop pool-group
<i>peak_no_drop_pg</i>	(Optional) Peak usage for no-drop pool-group
<i>peak_mc_pool_0</i>	(Optional) Peak usage for MC pool 0
<i>peak_mc_pool_1</i>	(Optional) Peak usage for MC pool 1
<i>peak_mc_pool_2</i>	(Optional) Peak usage for MC pool 2
<i>peak_mc_pool_3</i>	(Optional) Peak usage for MC pool 3
<i>peak_mc_pool_4</i>	(Optional) Peak usage for MC pool 4
<i>peak_mc_pool_5</i>	(Optional) Peak usage for MC pool 5
<i>peak_mc_pool_6</i>	(Optional) Peak usage for MC pool 6
<i>peak_mc_pool_7</i>	(Optional) Peak usage for MC pool 7
<i>peak_uc_pool_0</i>	(Optional) Peak usage for UC pool 0
<i>peak_uc_pool_1</i>	(Optional) Peak usage for UC pool 1
<i>peak_uc_pool_2</i>	(Optional) Peak usage for UC pool 2
<i>peak_uc_pool_3</i>	(Optional) Peak usage for UC pool 3
<i>peak_uc_pool_4</i>	(Optional) Peak usage for UC pool 4
<i>peak_uc_pool_5</i>	(Optional) Peak usage for UC pool 5
<i>peak_uc_pool_6</i>	(Optional) Peak usage for UC pool 6
<i>peak_uc_pool_7</i>	(Optional) Peak usage for UC pool 7
<i>oport</i>	(Optional) Output port
<i>count_0</i>	(Optional) Peak usage counter 0 for port
<i>count_1</i>	(Optional) Peak usage counter 1 for port

### Command Mode

- /exec

# show hardware internal buffer poll-interval

show hardware internal buffer poll-interval [ module <module> ]

## Syntax Description

Syntax Description		
show	Show running system information	
hardware	Show hardware information	
internal	Show hardware internal information	
buffer	System buffer information	
poll-interval	System buffer status polling interval	
module	(Optional) Slot/module	
<i>module</i>	(Optional) Slot/module number	

## Command Mode

- /exec

# show hardware internal cpu-mac eobc counters

show hardware internal cpu-mac eobc counters

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
cpu-mac	Show CPU-MACs related information
eobc	Show EOBC port related information
counters	Show EOBC port counters

## Command Mode

- /exec

# show hardware internal cpu-mac eobc registers

show hardware internal cpu-mac eobc registers

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
cpu-mac	Show CPU-MACs related information
eobc	Show EOBC port related information
registers	Show EOBC port registers

## Command Mode

- /exec

# show hardware internal cpu-mac eobc stats

show hardware internal cpu-mac eobc stats

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
cpu-mac	Show CPU-MACs related information
eobc	Show EOBC port related information
stats	Show EOBC port statistics

## Command Mode

- /exec

# show hardware internal cpu-mac inband active-fm traffic-from-sup

show hardware internal cpu-mac inband active-fm traffic-from-sup

## Syntax Description

Syntax Description		
show		Show running system information
hardware		Show hardware information
internal		Show hardware internal information
cpu-mac		Show CPU-MACs related information
inband		Show inband port related information
active-fm		Show active fabric module
traffic-from-sup	For Traffic from sup	inband traffic

## Command Mode

- /exec



# show hardware internal cpu-mac inband active-fm traffic-to-sup

show hardware internal cpu-mac inband active-fm traffic-to-sup

## Syntax Description

Syntax Description		
	show	Show running system information
	hardware	Show hardware information
	internal	Show hardware internal information
	cpu-mac	Show CPU-MACs related information
	inband	Show inband port related information
	active-fm	Show active fabric module
	traffic-to-sup	For Traffic to sup inband traffic

## Command Mode

- /exec

# show hardware internal cpu-mac inband counters

show hardware internal cpu-mac inband counters

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
cpu-mac	Show CPU-MACs related information
inband	Show inband port related information
counters	Show inband port counters

## Command Mode

- /exec

# show hardware internal cpu-mac inband registers

show hardware internal cpu-mac inband registers

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
cpu-mac	Show CPU-MACs related information
inband	Show inband port related information
registers	Show inband port registers

## Command Mode

- /exec

# show hardware internal cpu-mac inband stats

show hardware internal cpu-mac inband stats

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
cpu-mac	Show CPU-MACs related information
inband	Show inband port related information
stats	Show inband port statistics

## Command Mode

- /exec

# show hardware internal cpu-mac mgmt counters

show hardware internal cpu-mac mgmt counters

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
cpu-mac	Show CPU-MACs related information
mgmt	Show management port related information
counters	Show management port counters

## Command Mode

- /exec

# show hardware internal cpu-mac mgmt registers

show hardware internal cpu-mac mgmt registers

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
cpu-mac	Show CPU-MACs related information
mgmt	Show management port related information
registers	Show management port registers

## Command Mode

- /exec

# show hardware internal cpu-mac mgmt stats

show hardware internal cpu-mac mgmt stats

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
cpu-mac	Show CPU-MACs related information
mgmt	Show management port related information
stats	Show management port statistics

## Command Mode

- /exec

# show hardware internal cpu interface asic counters module instance

show hardware internal cpu interface asic counters module <module> instance <instance>

## Syntax Description

### Syntax Description

show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
cpu	Show cpu interface counters
interface	Show interface status and information
asic	Show interface counters from asic for ex. from broadcom shell
counters	Show detailed interface counters
module	Slot/module
<i>module</i>	Slot/module number
instance	ASIC Instance Number
<i>instance</i>	ASIC Instance Number in Decimal

## Command Mode

- /exec



# show hardware internal dev-port-map

show hardware internal dev-port-map

## Syntax Description

Syntax Description		
	show	Show running system information
	hardware	Show hardware information
	internal	Show hardware internal information
	dev-port-map	Show device port map

## Command Mode

- /exec

# show hardware internal dev-version

show hardware internal dev-version

## Syntax Description

Syntax	Description
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
dev-version	Show device versions

## Command Mode

- /exec

# show hardware internal dev-version details

show hardware internal dev-version details

## Syntax Description

Syntax Description		
show	Show running system information	
hardware	Show hardware information	
internal	Show hardware internal information	
dev-version	Show device versions	
details	Check if versions are latest	

## Command Mode

- /exec

# show hardware internal eobc stats

show hardware internal eobc stats

## Syntax Description

Syntax	Description
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
eobc	Show eobc related information
stats	Show statistics of eobc interface

## Command Mode

- /exec





# show hardware internal fabric interface asic counters module

show hardware internal fabric interface asic counters module <module>

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
fabric	Show fabric interface counters
interface	Show interface status and information
asic	Show interface counters from asic
counters	Show interface counters into different buckets
module	Limit display to fabric interfaces on module
<i>module</i>	Slot/module number

## Command Mode

- /exec

# show hardware internal fabric interface asic counters module instance asic-port

show hardware internal fabric interface asic counters module <module> instance <instance> asic-port <port> [ snmp ]

## Syntax Description

### Syntax Description

show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
fabric	Show fabric interface counters
interface	Show interface status and information
asic	Show interface counters from asic for ex. from broadcom shell
counters	Show detailed interface counters
module	Slot/module
<i>module</i>	Slot/module number
instance	ASIC Instance Number
<i>instance</i>	ASIC Instance Number in Decimal
asic-port	Select a hardware/asic port
<i>port</i>	Hardware asic port number
snmp	(Optional) Show snmp hardware/asic counters

## Command Mode

- /exec



## show hardware internal flow resource utilization

```
show hardware internal flow resource utilization [ table ] [ icam | ipv4 | ipv6 ] [ no-header ] [ instance <inst>
] [ module <num> ] [ __readonly__ TABLE_nf_resource_info <flow_util> <flow_used> <flow_free>
<flow_fail> <icam_util> <icam_used> <icam_free> <ipv4_util> <ipv4_used> <ipv4_free> <ipv6_util>
<ipv6_used> <ipv6_free> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
flow	Netflow Module
resource	Show resource information
utilization	Show utilization
table	(Optional) Flow table usage
icam	(Optional) ICAM usage
ipv4	(Optional) IPv4 masks usage
ipv6	(Optional) IPv6 masks usage
no-header	(Optional) Don't show header
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
TABLE_nf_resource_info	(Optional) netflow resource info
<i>flow_util</i>	(Optional) percentage of flow table used
<i>flow_used</i>	(Optional) flow table entries used
<i>flow_free</i>	(Optional) flow table entries free
<i>flow_fail</i>	(Optional) flow create failures
<i>icam_util</i>	(Optional) percentage of ICAM used
<i>icam_used</i>	(Optional) ICAM entries used

<i>icam_free</i>	(Optional) ICAM entries free
<i>ipv4_util</i>	(Optional) percentage of IPv4 masks used
<i>ipv4_used</i>	(Optional) ipv4 masks used
<i>ipv4_free</i>	(Optional) ipv4 masks free
<i>ipv6_util</i>	(Optional) percentage of IPv6 masks used
<i>ipv6_used</i>	(Optional) ipv6 masks used
<i>ipv6_free</i>	(Optional) ipv6 masks free

**Command Mode**

- /exec

# show hardware internal forwarding adjacency statistics default-route

show hardware internal forwarding adjacency statistics default-route [ module <module> ]

## Syntax Description

Syntax Description	
show	SHOW_HELP
hardware	SHOW_HW_HELP
internal	SHOW_HW_INT_HELP
forwarding	Show hardware information for forwarding Asic
adjacency	display adjacency utilization
statistics	Show hardware statistics
default-route	For special adjacency of default route on linecards
module	(Optional) slot
<i>module</i>	(Optional) Slot/module number

## Command Mode

- /exec

## show hardware internal forwarding adjacency utilization

```
show hardware internal forwarding adjacency utilization [ no-header ] [ module <module> ] [ instance
<instance> ] [ __readonly__ { <header> } [ <module> ] { TABLE_adjacency <adj_type> <used> <used_util>
<free> <free_util> <total> } ]
```

### Syntax Description

#### Syntax Description

show	SHOW_HELP
hardware	SHOW_HW_HELP
internal	SHOW_HW_INT_HELP
forwarding	Show hardware information for forwarding Asic
adjacency	display adjacency utilization
utilization	Show hardware utilization summary
no-header	(Optional) Do not print header
module	(Optional) slot
<i>module</i>	(Optional) Slot/module number
instance	(Optional) Asic Instance
<i>instance</i>	(Optional) ASIC instance number
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) Header for subsequent information
<i>module</i>	(Optional) Module for which the information is displayed
TABLE_adjacency	(Optional) Table with adj types for which the information is displayed
<i>adj_type</i>	(Optional) Adjacency type
<i>used</i>	(Optional) Number of adjacency entries used
<i>used_util</i>	(Optional) Percentage usage of adjacency table entries
<i>free</i>	(Optional) Number of adjacency entries available
<i>free_util</i>	(Optional) Percentage availability of adjacency table entries
<i>total</i>	(Optional) Total number of adjacency entries

### Command Mode

- /exec

# show hardware internal forwarding l3 counters

show hardware internal forwarding l3 counters [ module <module> ]

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware usage settings
internal	SHOW_HW_INT_HELP
forwarding	Show forwarding related settings
l3	Layer-3
counters	Show Layer-3 Counters
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

## Command Mode

- /exec

## show hardware internal forwarding table utilization

```
show hardware internal forwarding table utilization [ no-header ] [ module <module> ] [ instance <instance>
] [ __readonly__ <header> [ <module> ] { TABLE_route <rt_type> <used_log> <used_phy> <util> <free_log>
<free_phy> <free> <total_log> <total_phy> } ]
```

### Syntax Description

Syntax Description	
show	SHOW_HELP
hardware	SHOW_HW_HELP
internal	SHOW_HW_INT_HELP
forwarding	Show hardware information for forwarding Asic
table	FIB TCAM table utilization
utilization	FIB TCAM table utilization
no-header	(Optional) Do not print header
module	(Optional) slot
<i>module</i>	(Optional) Slot/module number
instance	(Optional) Asic Instance
<i>instance</i>	(Optional) ASIC instance number
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) Header for subsequent information
<i>module</i>	(Optional) Module for which the information is displayed
TABLE_route	(Optional) Table with route types for which the information is displayed
<i>rt_type</i>	(Optional) Route types
<i>used_log</i>	(Optional) Number of logical entries used
<i>used_phy</i>	(Optional) Number of physical entries used
<i>free_log</i>	(Optional) Number of logical entries available
<i>free_phy</i>	(Optional) Number of physical entries available
<i>total_log</i>	(Optional) Total number of logical entries
<i>total_phy</i>	(Optional) Total number of physical entries
<i>util</i>	(Optional) Percentage utilization of routing table entries
<i>free</i>	(Optional) Percentage availability of routing table entries

**Command Mode**

- /exec

# show hardware internal forwarding table utilization mib module

show hardware internal forwarding table utilization mib module <module> [ \_\_readonly\_\_ <counterString> <counterValue> ]

## Syntax Description

Syntax Description	
show	SHOW_HELP
hardware	SHOW_HW_HELP
internal	SHOW_HW_INT_HELP
forwarding	Show hardware information for forwarding Asic
table	FIB TCAM table utilization
utilization	FIB TCAM table utilization
mib	show mib
module	slot
<i>module</i>	Slot/module number
<i>__readonly__</i>	(Optional)
<i>counterString</i>	(Optional) counter string
<i>counterValue</i>	(Optional) counter value

## Command Mode

- /exec



# show hardware internal inband-rcpu cpu-queue slot

```
show hardware internal inband-rcpu cpu-queue [ name <queue-name> ] slot <slot-num> [ reset-stats ] [
reset-pps ]
```

## Syntax Description

Syntax	Description
show	commands to display
hardware	Show hardware information
internal	Show hardware internal information
inband-rcpu	BCM RCPU
cpu-queue	Show BCM RCPU cpu queue
name	(Optional) cpu queue name
<i>queue-name</i>	(Optional) name of the queue
slot	Slot/module
<i>slot-num</i>	Slot/module number
reset-stats	(Optional) Reset CPU Queue Stats
reset-pps	(Optional) Reset CPU Queue PPS

## Command Mode

- /exec

# show hardware internal interface asic counters

show hardware internal interface <ifeth\_ctr\_hw> asic counters [ snmp ]

## Syntax Description

Syntax Description		
show	Show running system information	
hardware	Show hardware information	
internal	Show hardware internal information	
interface	Show interface status and information	
<i>ifeth_ctr_hw</i>	Enter interface type and number in module/slot format	
asic	Show interface counters from asic for ex. from broadcom shell	
counters	Show detailed interface counters	
snmp	(Optional) Show snmp hardware/asic counters	

## Command Mode

- /exec

# show hardware internal interface asic counters module

show hardware internal interface asic counters module <module>

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
interface	Show interface status and information
asic	Show interface counters from asic
counters	Show interface counters into different buckets
module	Limit display to interfaces on module
<i>module</i>	Enter module number

## Command Mode

- /exec

# show hardware internal logflash model

show hardware internal logflash model

## Syntax Description

Syntax	Description
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
logflash	Show logflash related information
model	Show logflash model name

## Command Mode

- /exec

# show hardware internal logflash model

show hardware internal logflash model

## Syntax Description

Syntax	Description
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
logflash	Show logflash related information
model	Show logflash model name

## Command Mode

- /exec

# show hardware internal memory-ecc statistics

show hardware internal memory-ecc statistics

## Syntax Description

Syntax Description		
	show	Show running system information
	hardware	Show hardware information
	internal	Show hardware internal information
	memory-ecc	Show memory dram ecc error
	statistics	Show memory dram ecc error statistics

## Command Mode

- /exec

# show hardware internal memory-model

show hardware internal memory-model

## Syntax Description

Syntax Description		
	show	Show running system information
	hardware	Show hardware information
	internal	Show hardware internal information
	memory-model	Show memory dimm related information

## Command Mode

- /exec

# show hardware internal mgmt0 stats

show hardware internal mgmt0 stats

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
mgmt0	Show mgmt0 related information
stats	Show statistics of mgmt0 interface

## Command Mode

- /exec



## show hardware internal ns buffer info pkt-stats

```
show hardware internal ns buffer info pkt-stats [ input ] [ module <module> ] [ instance <instance> ] [ detail
] [ __readonly__ { TABLE_instance <instance> { TABLE_direction <direction> <total_instant_usage_0>
<rem_instant_usage_0> <shared_cell_count_0> <total_cell_count_0> <sp_count_1> <sp_count_2>
<sp_count_3> { TABLE_interface <stats_start> <front_port> <ucast_count_0> <ucast_count_1>
<ucast_count_2> <ucast_count_3> <mcast_count_0> <mcast_count_1> <mcast_count_2> <mcast_count_3>
<sup_count> <sup_na> } } TABLE_eoq <eoq_stats_start> <eoq_name> <eoq_count_0> <eoq_count_1>
<eoq_count_2> <eoq_count_3> } } }
```

### Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
ns	Northstar
buffer	System buffer information
info	Buffer specific information
pkt-stats	Per Port per Pool buffer stats information
input	(Optional) Input buffer stats
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
<i>instance</i>	(Optional) ASIC Instance Number in Decimal
detail	(Optional) Show detailed statistics
<i>__readonly__</i>	(Optional) Read Only
TABLE_instance	(Optional) Instance
<i>instance</i>	(Optional) Asic Instance
TABLE_direction	(Optional) Direction
<i>direction</i>	(Optional) Traffic Direction
<i>total_instant_usage_0</i>	(Optional) Total Instant Usage
<i>rem_instant_usage_0</i>	(Optional) Remaining Instant Usage
<i>shared_cell_count_0</i>	(Optional) Max Cell Usage

<i>total_cell_count_0</i>	(Optional) Total Cell Count
<i>sp_count_1</i>	(Optional) Service Pool 1 count
<i>sp_count_2</i>	(Optional) Service Pool 2 count
<i>sp_count_3</i>	(Optional) Service Pool 3 count
TABLE_interface	(Optional) Interface
<i>stats_start</i>	(Optional) Header Display
<i>front_port</i>	(Optional) Front Port
<i>ucast_count_0</i>	(Optional) Unicast Count Queue 0
<i>ucast_count_1</i>	(Optional) Unicast Count Queue 1
<i>ucast_count_2</i>	(Optional) Unicast Count Queue 2
<i>ucast_count_3</i>	(Optional) Unicast Count Queue 3
<i>mcast_count_0</i>	(Optional) Multicast Count Queue 0
<i>mcast_count_1</i>	(Optional) Multicast Count Queue 1
<i>mcast_count_2</i>	(Optional) Multicast Count Queue 2
<i>mcast_count_3</i>	(Optional) Multicast Count Queue 3
<i>sup_count</i>	(Optional) Sup Queue Count
<i>sup_na</i>	(Optional) Sup Queue Not Applicable
TABLE_eoq	(Optional) EOQ
<i>eoq_stats_start</i>	(Optional) Header Display
<i>eoq_name</i>	(Optional) Front Port
<i>eoq_count_0</i>	(Optional) EOQ Count Queue 0
<i>eoq_count_1</i>	(Optional) EOQ Count Queue 1
<i>eoq_count_2</i>	(Optional) EOQ Count Queue 2
<i>eoq_count_3</i>	(Optional) EOQ Count Queue 3

**Command Mode**

- /exec

# show hardware internal ns interrupts

```
show hardware internal ns interrupts [ __readonly__ { TABLE_instance <asic> { TABLE_interrupts <reg>
<reg_field> <inst> <count> <thresh_hit> <currently_set> } } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
hardware		Show hardware information
internal		Show hardware internal information
ns		Northstar
interrupts		Interrupts
<i>__readonly__</i>	(Optional)	Read Only
<i>TABLE_instance</i>	(Optional)	ASIC instance
<i>asic</i>	(Optional)	ASIC instance
<i>TABLE_interrupts</i>	(Optional)	Interrupts
<i>reg</i>	(Optional)	Register name
<i>reg_field</i>	(Optional)	Register Field name
<i>inst</i>	(Optional)	Register instance
<i>count</i>	(Optional)	Interrupt count
<i>thresh_hit</i>	(Optional)	Threshold hit
<i>currently_set</i>	(Optional)	Currently set

## Command Mode

- /exec

# show hardware internal plog errors

show hardware internal plog errors

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
plog	Configure plog debugging
errors	Show persistent logging errors

## Command Mode

- /exec

# show hardware internal plog msgs

show hardware internal plog msgs

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
plog	Configure plog debugging
msgs	Show persistent logging msgs

## Command Mode

- /exec

# show hardware internal plog print

```
show hardware internal plog print [ file-type <filetype> [ { count <count> } | { uuid <uuid> } ] ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
plog	Configure plog debugging
print	Show persistent error logs
file-type	(Optional) Show persistent error logs for file type
<i>filetype</i>	(Optional)
count	(Optional) Show last count persistent error logs
<i>count</i>	(Optional)
uuid	(Optional) Show persistent error logs of a specific uuid
<i>uuid</i>	(Optional)

## Command Mode

- /exec

# show hardware internal plog print list-file-types

show hardware internal plog print list-file-types

## Syntax Description

Syntax Description		
	show	Show running system information
	hardware	Show hardware information
	internal	Show hardware internal information
	plog	Configure plog debugging
	print	Show persistent error logs
	list-file-types	List all file types available

## Command Mode

- /exec

# show hardware internal plog stat uuid

show hardware internal plog stat uuid <uuid>

## Syntax Description

---

### Syntax Description

---

show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
plog	Configure plog debugging
stat	Show persistent logging statistics
uuid	Show persistent logging statistics of a specific uuid

---

*uuid*

---

## Command Mode

- /exec



# show hardware internal proc-info

show hardware internal proc-info <s0>

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
proc-info	Displays any file under /proc directory
s0	Enter file name or path after /proc/

## Command Mode

- /exec

# show hardware internal sensor event-history errors

show hardware internal sensor event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
hardware		Show hardware information
internal		Show hardware internal information
sensor		Show sensor commands
event-history		Show sensor internal event history
errors		Show sensor internal error history

## Command Mode

- /exec

# show hardware internal sensor event-history msgs

show hardware internal sensor event-history msgs

## Syntax Description

Syntax Description		
	show	Show running system information
	hardware	Show hardware information
	internal	Show hardware internal information
	sensor	Show sensor commands
	event-history	Show sensor internal event history
	msgs	Show sensor internal message history

## Command Mode

- /exec

# show hardware internal sensor mem-stats

show hardware internal sensor mem-stats [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
sensor	Show sensor commands
mem-stats	Show memory allocation statistics for sensor
detail	(Optional) Show detailed stats

## Command Mode

- /exec

# show hardware internal sprom event-log

show hardware internal sprom event-log

## Syntax Description

Syntax	Description
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
sprom	Show sprom internal information
event-log	Show sprom driver event-log

## Command Mode

- /exec

# show hardware internal statistics module-all pktflow all

show hardware internal statistics module-all pktflow all

## Syntax Description

### Syntax Description

show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
statistics	Shows stats Information
module-all	Shows stats of all modules
pktflow	Shows pktflow stats
all	show packetflow boundary stats from all devices

## Command Mode

- /exec

# show hardware internal statistics module-all pktflow rates

show hardware internal statistics module-all pktflow rates

## Syntax Description

Syntax Description		
show	Show running system information	
hardware	Show hardware information	
internal	Show hardware internal information	
statistics	Shows stats Information	
module-all	Shows stats of all modules	
pktflow	Shows pktflow stats	
rates	Shows rates stats	

## Command Mode

- /exec

# show hardware internal statistics module-all rates

show hardware internal statistics module-all rates

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
statistics	Shows stats Information
module-all	Shows stats of all modules
rates	Shows rates stats

## Command Mode

- /exec



# show hardware internal statistics module pktflow all

show hardware internal statistics module <module> pktflow all

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
statistics	Shows stats Information
module	Shows stats of a single module
<i>module</i>	Enter module number
pktflow	Shows pktflow stats
all	show packetflow boundary stats from all devices

## Command Mode

- /exec

# show hardware internal statistics module pktflow rates

show hardware internal statistics module <module> pktflow rates

## Syntax Description

Syntax	Description
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
statistics	Shows stats Information
module	Shows stats of a single module
<i>module</i>	Enter module number
pktflow	Shows pktflow stats
rates	Shows rates stats

## Command Mode

- /exec

# show hardware internal statistics module rates

show hardware internal statistics module <module> rates

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
statistics	Shows stats Information
module	Shows stats of a single module
<i>module</i>	Enter module number
rates	Shows rates stats

## Command Mode

- /exec

# show hardware internal statistics pktflow all

show hardware internal statistics pktflow all

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
statistics	Shows stats Information
pktflow	Shows pktflow stats
all	show packetflow boundary stats from all devices

## Command Mode

- /exec

# show hardware internal statistics pktflow rates

show hardware internal statistics pktflow rates

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
statistics	Shows stats Information
pktflow	Shows pktflow stats
rates	Shows rates stats

## Command Mode

- /exec



# show hardware internal tah interface

show hardware internal tah interface <if\_name>

## Syntax Description

Syntax	Description
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
tah	tahoe
interface	interface info
<i>if_name</i>	Physical or Logical interface

## Command Mode

- /exec

# show hardware internal tah l3 v4lpm

show hardware internal tah l3 v4lpm

## Syntax Description

Syntax	Description
show	show
hardware	show hardware information
internal	Commands for internal use
tah	tahoe
l3	L3 hardware info
v4lpm	IPV4 LPM

## Command Mode

- /exec



# show hardware internal tah l3 v6lpm

show hardware internal tah l3 v6lpm

## Syntax Description

Syntax	Description
show	show
hardware	show hardware information
internal	Commands for internal use
tah	tahoe
l3	L3 hardware info
v6lpm	IPV6 LPM

## Command Mode

- /exec

# show hardware internal tah sdk logs all

show hardware internal tah sdk logs all

## Syntax Description

Syntax Description	
show	Show running system information
hardware	Show hardware information
internal	Show hardware internal information
tah	Tahoe
sdk	Software Development Kit
logs	Dump internal tahoe logs
all	Dump all available logs

## Command Mode

- /exec

# show hardware internal version

show hardware internal version [ *\_\_readonly\_\_* <devname> <instance> <version> <bios\_ver> ]

## Syntax Description

Syntax Description		
	show	Show running system information
	hardware	Show hardware information
	internal	Show hardware internal information
	version	Show device versions
	<i>__readonly__</i>	(Optional)
	<i>devname</i>	(Optional) Device name
	<i>instance</i>	(Optional) Device Instance
	<i>version</i>	(Optional) Device version
	<i>bios_ver</i>	(Optional) BIOS version

## Command Mode

- /exec

# show hardware ip verify

```
show hardware [ forwarding ] ip verify [ module <module> ] [ __readonly__ <info_str> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	(Optional) Show hardware information for forwarding path
ip	IP
verify	Show IP packet verification checks enabled in hardware
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
<i>info_str</i>	(Optional) IDS Check Stats

## Command Mode

- /exec

## show hardware profile status

```
show hardware profile status [ module <module> ] [ detail ] [ __readonly__ { <total_lpm> <total_host>
<reserved_lpm> <max_host4_limit> <max_host6_limit> <max_mcast_limit> <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_mcast_oifl> <used_host_in_host_total> <used_host4_in_host>
<used_host6_in_host> <mfib_fd_status> <mfib_fd_maxroute> <mfib_fd_count>
<max_v6_lpm_65_to_127_limit> <max_v6_lpm_limit> <max_ecmp_table_limit> <used_ecmp_table>
<lpm_to_host_migrate_table> <host_to_lpm_migrate_table> <max_mcast_transit_route_limit>
<used_mcast_transit_routes> <max_ecmp_nh_table_limit> <used_ecmp_nh_table> } ]
```

### Syntax Description

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>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_mcast_oifl</i>	(Optional) Used Mcast OIFL Entries
<i>used_host_in_host_total</i>	(Optional) Used Host Entries in Host (Total)
<i>used_host4_in_host</i>	(Optional) Used Host4 Entries in Host
<i>used_host6_in_host</i>	(Optional) Used Host6 Entries in Host
<i>mfib_fd_status</i>	(Optional) MFIB fd status
<i>mfib_fd_maxroute</i>	(Optional) MFIB fd maxroute
<i>mfib_fd_count</i>	(Optional) MFIB fd count
<i>max_v6_lpm_65_to_127_limit</i>	(Optional) Max Ucast IPv6 LPM_65_to_127 Limit Entries
<i>max_v6_lpm_limit</i>	(Optional) Max Ucast IPv6 LPM Limit Entries
<i>max_ecmp_table_limit</i>	(Optional) Max ECMP table Limit Entries
<i>used_ecmp_table</i>	(Optional) Used ECMP Table Entries
<i>lpm_to_host_migrate_table</i>	(Optional) Times Route Migrated from LPM to Host Table
<i>host_to_lpm_migrate_table</i>	(Optional) Times Route Migrated from Host to LPM Table
<i>max_mcast_transit_route_limit</i>	(Optional) Max Mcast Transit Route Limit Entries
<i>used_mcast_transit_routes</i>	(Optional) Used Mcast Transit Routes
<i>max_ecmp_nh_table_limit</i>	(Optional) Max ECMP NH table Limit Entries
<i>used_ecmp_nh_table</i>	(Optional) Used ECMP NH Table Entries

**Command Mode**

- /exec

## show hardware profile tcam region

```
show hardware profile tcam region [ __readonly__ { TCAM_Region [ { TABLE_Sizes <tcam_compat_type>
<tcam_compat_size> <tcam_compat_width> } ] } ]
```

### Syntax Description

Syntax Description	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

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)
<i>TABLE_qos_afd_profile</i>		(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

Syntax Description	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

### 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)
<i>TABLE_qos_eoq_stats_class</i>	(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

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

Syntax Description	Description
show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-hdrm-reserve	Show ing-pg-hdrm-reserve config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ing_pg_hdrm_reserve	(Optional) the xml qos_ing_pg_hdrm_reserve configuration

## Command Mode

- /exec

# show hardware qos ing-pg-no-min

```
show hardware qos ing-pg-no-min [ module <module> ] [ __readonly__ TABLE_qos_ing_pg_no_min
<module> ]
```

## Syntax Description

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)
<i>TABLE_qos_ing_pg_no_min</i>		(Optional) the xml qos_ing_pg_no_min configuration

## Command Mode

- /exec

# show hardware qos ing-pg-share

```
show hardware qos ing-pg-share [ module <module> ] [ __readonly__ TABLE_qos_ing_pg_share <module> ]
```

## Syntax Description

### 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)
<i>TABLE_qos_ing_pg_share</i>	(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

Syntax Description	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)
<i>TABLE_qos_min_buffer_profile</i>	(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

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

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)
<i>TABLE_qos_ns_mcq3_alias</i>	(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> | f1 <f1-opts> ] [ __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

#### 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)
f1	(Optional) Control packets from F1 modules to supervisor
<i>f1-opts</i>	(Optional)
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 rl snmp class-id

```
show hardware rl snmp class-id <class-id> [ __readonly__ TABLE-classRateLimiterTable <class-id-out>
<class-descr> ]
```

### Syntax Description

#### 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

Syntax Description	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

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
<i>__readonly__</i>	(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

Syntax Description		
show		Show running system information
hostname		show the system's hostname
switchname		show the system's hostname
__readonly__	(Optional)	Read Only
hostname	(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

Syntax Description		
show		Show running system information
hosts		Show information about DNS
<i>__readonly__</i>		(Optional)
<i>dnslookup</i>		(Optional) dns lookup enable status
<i>dnsnameservice</i>		(Optional) name service
TABLE_vrf		(Optional) vrf domain servers
<i>vrfname</i>		(Optional) vrf name
<i>defaultdomains</i>		(Optional) default domain
<i>additionaldomainserver</i>		(Optional) additionaldomain
<i>domainservers</i>		(Optional) domain server
<i>nameservice</i>		(Optional) name service
<i>dhcpdomains</i>		(Optional) dhcp domains
<i>dhcpdomainservers</i>		(Optional) dhcpservers
TABLE_dnsconfigvrf		(Optional) dns config vrf
<i>dnsvrfname</i>		(Optional) vrfname
<i>usevrf</i>		(Optional) usevrf
<i>token</i>		(Optional) token
TABLE_dnsconfigvrfconfig		(Optional) dns config vrf config
<i>config</i>		(Optional) token
TABLE_hosts		(Optional) all configured dns hosts
<i>host</i>		(Optional) xml host information
<i>address</i>		(Optional) xml address information

## Command Mode



- /exec

## show hsrp

```
show hsrp [ interface <interface-id> ] [ group <group-number> ] [ active | init | learn | listen | speak | standby
] + [ all ] [ brief [ all ] | detail ] [ ipv4 | ipv6 ] [ __readonly__ <show_hsrp_start> { TABLE_grp_detail
<sh_if_index> <sh_group_num> <sh_group_type> <sh_group_version> <sh_group_state> <sh_state_reason>
<sh_prio> <sh_cfg_prio> <sh_fwd_lower_threshold> <sh_fwd_upper_threshold> <sh_can_forward>
<sh_preempt> <sh_preempt_min_delay> <sh_preempt_min_delay_active> <sh_preempt_reload_delay>
<sh_preempt_reload_delay_active> <sh_preempt_sync_delay> <sh_preempt_sync_delay_active>
<sh_cur_hello> <sh_cur_hello_attr> <sh_cfg_hello> <sh_cfg_hello_attr> <sh_active_hello> <sh_cur_hold>
<sh_cur_hold_attr> <sh_cfg_hold> <sh_cfg_hold_attr> <sh_vip> <sh_vip_v6> <sh_vip_attr>
<sh_num_vip_sec> { TABLE_grp_vip_sec <sh_vip_sec> <sh_vip_sec_v6> } <sh_active_router_addr>
<sh_active_router_addr_v6> <sh_active_router_prio> <sh_active_router_timer> <sh_standby_router_addr>
<sh_standby_router_addr_v6> <sh_standby_router_prio> <sh_authentication_type> <sh_authentication_data>
<sh_keystring_attr> <sh_keystring_timeout> <sh_keystring_cur_valid> <sh_vmac> <sh_vmac_attr>
<sh_num_of_state_changes> <sh_last_state_change> <sh_num_of_total_state_changes>
<sh_last_total_state_change> <sh_num_track_obj> { TABLE_grp_track_obj <sh_track_obj>
<sh_track_obj_state> <sh_track_obj_prio> } <sh_ip_redund_name> <sh_ip_redund_name_attr> }
<show_hsrp_end> ]
```

### Syntax Description

#### 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

<i>ipv6</i>	(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_ymac</i>	(Optional) Virtual MAC
<i>sh_ymac_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

### 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

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 internal info

show hsrp anycast internal info [ <id> { ipv4 | ipv6 | both } ]

### Syntax Description

Syntax Description	Description
show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
internal	HSRP internal information
info	Internal datastructure information display
<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 internal info pss-rec config

```
show hsrp anycast internal info pss-rec { config | info } [ <id> { ipv4 | ipv6 | both } ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
internal	HSRP internal information
info	Internal datastructure information display
pss-rec	HSRP Anycast PSS record
config	HSRP Anycast configuration records from pss
info	HSRP Anycast Running information records from pss
<i>id</i>	(Optional) Bundle number
ipv4	(Optional) IPv4 version of the bundle
ipv6	(Optional) IPv6 version of the bundle
both	(Optional) IP Version 4 and 6 for the bundle

## Command Mode

- /exec

## show hsrp anycast remote-db

show hsrp anycast remote-db [ <id> { ipv4 | ipv6 | both } ]

### Syntax Description

#### 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

Syntax	Description
show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
summary	Show HSRP summary

## Command Mode

- /exec

## show hsrp bfd-sessions

```
show hsrp bfd-sessions [ interface <interface-id> [ to <ipaddress> ] ] [ __readonly__ TABLE_bfd_sess
<interface> <list_size> { <src_addr> | <src_addr_v6> } { <dst_addr> | <dst_addr_v6> } <ref_count> {
TABLE_ref_groups <ref_group_id> } { TABLE_hist_groups <hist_group_id> <hist_operation>
<hist_rel_time> <hist_abs_time> <hist_ref_count> <hist_group_state> <hist_status> <hist_op_reason> } ]
```

### Syntax Description

#### 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

---

*hist\_status* (Optional) Status

---

*hist\_op\_reason* (Optional) Op reason

---

**Command Mode**

- /exec

# show hsrp bfd-sessions

show hsrp bfd-sessions [ interface <interface-id> [ to <ipaddress> ] ]

## Syntax Description

Syntax Description		
show	Show running system information	
hsrp	Hot Standby Router Protocol (HSRP) information	
bfd-sessions	BFD sessions	
interface	(Optional) Groups on this interface	
<i>interface-id</i>	(Optional) Interface	
to	(Optional) To IP address	
<i>ipaddress</i>	(Optional) Sessions to IP address	

## Command Mode

- /exec

# show hsrp delay

```
show hsrp delay [ interface <interface-id> ] [ __readonly__ TABLE_delay <interface> <min_delay>
<reload_delay> ]
```

## Syntax Description

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)
<i>TABLE_delay</i>	(Optional)
<i>interface</i>	(Optional) Interface
<i>min_delay</i>	(Optional) Min delay
<i>reload_delay</i>	(Optional) Reload delay

## Command Mode

- /exec

## show hsrp ext-mib sec-addr

```
show hsrp ext-mib sec-addr [ <ifindex-in> <group-id-in> <ip1-in> <ip2-in> <ip3-in> <ip4-in> ] [ __readonly__
TABLE_cHsrpExtSecAddrTable <ifindex-out> <group-id-out> <ip1-out> <ip2-out> <ip3-out> <ip4-out> {
<cHsrpExtSecAddrTable> <cHsrpExtSecAddrAddress> <cHsrpExtSecAddrRowStatus> } ]
```

### Syntax Description

#### Syntax Description

<u>__readonly__</u>	(Optional) Read Only
show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
ext-mib	Show hsrp extended mib specific configuration
sec-addr	Secondary virtual address
<i>ifindex-in</i>	(Optional) hsrp group ifindex
<i>group-id-in</i>	(Optional) hsrp group id
<i>group-id-out</i>	(Optional) hsrp group num
<i>ifindex-out</i>	(Optional) hsrp group interface index
<i>ip1-in</i>	(Optional) first part of vip
<i>ip2-in</i>	(Optional) second part of vip
<i>ip3-in</i>	(Optional) third part of vip
<i>ip4-in</i>	(Optional) fourth part of vip
<i>ip1-out</i>	(Optional) first part of vip out
<i>ip2-out</i>	(Optional) second part of vip out
<i>ip3-out</i>	(Optional) third part of vip out
<i>ip4-out</i>	(Optional) fourth part of vip out
TABLE_cHsrpExtSecAddrTable	(Optional) Hsrp extended mib secondary address table
<i>cHsrpExtSecAddrTable</i>	(Optional) Hsrp extended mib Secondary address table
<i>cHsrpExtSecAddrAddress</i>	(Optional) Hsrp extended mib Secondary Address
<i>cHsrpExtSecAddrRowStatus</i>	(Optional) Hsrp extended mib secondary address row status

### Command Mode

- /exec



## show hsrp ext-mib use-bia

```
show hsrp ext-mib use-bia [ <ifindex-in> ] [ __readonly__ TABLE_cHsrpExtIfEntry <ifindex-out> {
<cHsrpExtIfUseBIA> <cHsrpExtIfRowStatus> } ]
```

### Syntax Description

Syntax Description		
<code>__readonly__</code>	(Optional)	Read Only
<code>show</code>		Show running system information
<code>hsrp</code>		Hot Standby Router Protocol (HSRP) information
<code>ext-mib</code>		Show hsrp extended mib specific configuration
<code>use-bia</code>		Use BIA
<i>ifindex-in</i>	(Optional)	hsrp group ifindex
<i>ifindex-out</i>	(Optional)	hsrp group ifindex
<code>TABLE_cHsrpExtIfEntry</code>	(Optional)	Use BIA info table
<i>cHsrpExtIfUseBIA</i>	(Optional)	Use BIA enabled
<i>cHsrpExtIfRowStatus</i>	(Optional)	Use BIA row status

### Command Mode

- /exec

## show hsrp internal bulk-db

```
show hsrp internal bulk-db { [ <val1> [ <val2> ] ] | [ in-use-only ] }
```

### Syntax Description

Syntax	Description
show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
internal	HSRP internal information
bulk-db	Show HSRP bulk-db fields
<i>val1</i>	(Optional) (Start) Index in the db to dump
<i>val2</i>	(Optional) End Index in the db to dump
in-use-only	(Optional) Show only recs in use

### Command Mode

- /exec

# show hsrp internal counters

```
show hsrp internal counters [ <value> ]
```

## Syntax Description

Syntax	Description
show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
internal	HSRP internal information
counters	Show HSRP non-zero counters
value	(Optional) Specific counter

## Command Mode

- /exec

# show hsrp internal counters

show hsrp internal counters [ <value> ]

## Syntax Description

Syntax	Description
show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
internal	HSRP internal information
counters	Show HSRP non-zero counters
<i>value</i>	(Optional) Specific counter

## Command Mode

- /exec

# show hsrp internal debugs

show hsrp internal [ event-history ] debugs

## Syntax Description

Syntax	Description
show	Show running system information
hsrp	Show information about hsrp
internal	Show internal hsrp information
event-history	(Optional) Show various event logs of hsrp
debugs	Show debug logs of HSRP

## Command Mode

- /exec

# show hsrp internal errors

show hsrp internal [ event-history ] errors

## Syntax Description

Syntax Description		
show		Show running system information
hsrp		Show information about hsrp
internal		Show internal hsrp information
event-history	(Optional)	Show various event logs of hsrp
errors		Show error logs of HSRP

## Command Mode

- /exec

# show hsrp internal info

```
show hsrp internal info [ { [ global ] | [ interface <interface-id> ] [ group <group-number> ] [ active | init |
learn | listen | speak | standby ] + } ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
hsrp	HSRP information	
internal	Commands for internal use	
info	Data structure display	
global	(Optional) Global Data structure display only	
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	

## Command Mode

- /exec

# show hsrp internal info fsrv

show hsrp internal info fsrv

## Syntax Description

Syntax	Description
show	Show running system information
hsrp	Show information about hsrp
internal	Show internal hsrp information
info	Data structure display
fsrv	Show HSRP global information(FSRV)

## Command Mode

- /exec



## show hsrp internal info pss-rec config

```
show hsrp internal info pss-rec { config | info } [ { interface <interface-id> group <group-number> { ipv4 | ipv6 } } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
hsrp	Hot Standby Router Protocol (HSRP) information	
internal	HSRP internal information	
info	Internal datastructure information display	
pss-rec	HSRP PSS record	
config	HSRP configuration records from pss	
info	HSRP Running information records from pss	
interface	(Optional) Groups on this interface	
<i>interface-id</i>	(Optional) Interface	
group	(Optional) Group number	
<i>group-number</i>	(Optional) Group Number	
ipv4	(Optional) Configure IP Version 4 group	
ipv6	(Optional) Configure IP Version 6 group	

### Command Mode

- /exec

# show hsrp internal mem-stats

show hsrp internal mem-stats [ uuid <i0> ] [ hsrp-only ] [ detail ]

## Syntax Description

Syntax Description	Description
show	Show running system information
hsrp	Show information about hsrp
internal	Show internal hsrp information
mem-stats	Show memory allocation statistics of HSRP
uuid	(Optional) Show stats only for this uuid
<i>i0</i>	(Optional) Enter uuid
hsrp-only	(Optional) Show stats of only HSRP Engine
detail	(Optional) Show detail memstats for hsrp

## Command Mode

- /exec

# show hsrp internal msgs

show hsrp internal [ event-history ] msgs

## Syntax Description

Syntax Description		
show		Show running system information
hsrp		Show information about hsrp
internal		Show internal hsrp information
event-history	(Optional)	Show various event logs of hsrp
msgs		Show various message logs of HSRP

## Command Mode

- /exec

# show hsrp mgo

```
show hsrp mgo [ name <name> | brief ]
```

## Syntax Description

---

### Syntax Description

---

*show* Show running system information

---

*hsrp* Hot Standby Router Protocol (HSRP) information

---

*mgo* Show HSRP mgo details

---

*name* (Optional) Redundancy name string

---

*name* (Optional) name string

---

*brief* (Optional) show HSPR mgo brief

---

## 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

Syntax Description	
show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
summary	Show HSRP summary
<i>__readonly__</i>	(Optional)
<i>switchover_notify_rxed</i>	(Optional) Switchover notification received (1 => active)
<i>bfd_enabled</i>	(Optional) BFD status
<i>num_of_groups</i>	(Optional) Total number of groups
<i>num_of_v4_v1_groups</i>	(Optional) Number of IPv4 V1 groups
<i>num_of_v4_v2_groups</i>	(Optional) Number of IPv4 V2 groups
<i>num_of_v6_v2_groups</i>	(Optional) Number of IPv6 V2 groups
<i>num_of_active_groups</i>	(Optional) Number of active groups
<i>num_of_standby_groups</i>	(Optional) Number of standby groups
<i>num_of_listen_groups</i>	(Optional) Number of listen groups
<i>num_of_v6_active_groups</i>	(Optional) Number of IPv6 active groups
<i>num_of_v6_standby_groups</i>	(Optional) Number of IPv6 standby groups
<i>num_of_v6_listen_groups</i>	(Optional) Number of IPv6 listen groups
<i>num_of_hsrp_enabled_ifs</i>	(Optional) Number of HSRP enabled interfaces
<i>counter_pkts_tx</i>	(Optional) Number of packet transmission successes
<i>counter_pkts_tx_failure</i>	(Optional) Number of packet transmission failure
<i>counter_pkts_in</i>	(Optional) Number of packets received successfully
<i>counter_pkts_bad_vr</i>	(Optional) Number of packets for unknown groups
<i>counter_mts_rx</i>	(Optional) Number of MTS messages received

**Command Mode**

- /exec



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# show ieth-header-decode

show ieth-header-decode <ieth>

## Syntax Description

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

---

<b>Syntax Description</b>	<code>show</code> Show running system information
---------------------------	---

---

	<code>imp</code> ipsec management process
--	---

---

	<code>client</code> Show ipsec clients name
--	---

---

## Command Mode

- /exec

# show imp client sa

show imp client sa

## Syntax Description

<b>Syntax Description</b>	<b>show</b> Show running system information
	<b>imp</b> IPsec management process
	<b>client</b> IMP client
	<b>sa</b> Display all SAs

## Command Mode

- /exec

# show imp internal event-history acfg

show imp internal event-history acfg

## Syntax Description

Syntax Description		
show		Show running system information
imp		Display IMP information
internal		IMP Internal State
event-history		Show various event logs of IMP
acfg		ACFG debugs

## Command Mode

- /exec



# show imp internal event-history errors

show imp internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
imp		Display IMP information
internal		IMP Internal State
event-history		Show various event logs of IMP
errors		Error messages

## Command Mode

- /exec

# show imp internal event-history events

show imp internal event-history events

## Syntax Description

Syntax Description		
show		Show running system information
imp		Display IMP information
internal		IMP Internal State
event-history		Show various event logs of IMP
events		Event messages

## Command Mode

- /exec

# show imp internal event-history ha

show imp internal event-history ha

## Syntax Description

Syntax Description		
show		Show running system information
imp		Display IMP information
internal		IMP Internal State
event-history		Show various event logs of IMP
ha		HA messages

## Command Mode

- /exec

# show imp internal event-history log

show imp internal event-history log

## Syntax Description

Syntax Description		
show		Show running system information
imp		Display IMP information
internal		IMP Internal State
event-history		Show various event logs of IMP
log		MTS debugs

## Command Mode

- /exec

# show imp internal event-history msgs

show imp internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
imp		Display IMP information
internal		IMP Internal State
event-history		Show various event logs of IMP
msgs		Show various message logs of IMP

## Command Mode

- /exec

# show imp internal event-history mts

show imp internal event-history mts

## Syntax Description

Syntax Description		
show		Show running system information
imp		Display IMP information
internal		IMP Internal State
event-history		Show various event logs of IMP
mts		MTS debugs

## Command Mode

- /exec

# show imp internal event-history pss

show imp internal event-history pss

## Syntax Description

Syntax Description		
show		Show running system information
imp		Display IMP information
internal		IMP Internal State
event-history		Show various event logs of IMP
pss		PSS debugging

## Command Mode

- /exec

# show imp internal event-history trace

show imp internal event-history trace

## Syntax Description

Syntax Description		
show		Show running system information
imp		Display IMP information
internal		IMP Internal State
event-history		Show various event logs of IMP
trace		Trace debugging

## Command Mode

- /exec



# show imp internal info

show imp internal info [ { global | vsan <i0> } ]

## Syntax Description

Syntax Description	
show	Show running system information
imp	Show information about IPsec Management Process
internal	Show internal imp information
info	Show internal data structure information
global	(Optional) Display imp global info
vsan	(Optional) Enter the vsan id
<i>i0</i>	(Optional)

## Command Mode

- /exec

# show imp internal mem-stats

show imp internal mem-stats [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
imp	Show information about IPsec Management Process
internal	Show internal imp information
mem-stats	Show memory allocation statistics of IMP
detail	(Optional) Show detail memstats for F_Port Server

## 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

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)	
<i>TABLE_incompat_all</i>	(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

Syntax Description	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)
<i>TABLE_incompat</i>	(Optional) Show incompatibility system table
<i>Str1</i>	(Optional)
<i>Serv</i>	(Optional)
<i>Cap</i>	(Optional)
<i>Desc</i>	(Optional)
<i>Req</i>	(Optional)
<i>Enable</i>	(Optional)
<i>Dynamic</i>	(Optional)

## Command Mode

- /exec

# show install

```
show install { inactive | active [ brief ] | committed } [ __readonly__ { <curr_nxos_image> [ TABLE_smu_list
<install_smu_id> + ] [ TABLE_package_list <package_id> } ] }
```

## Syntax Description

Syntax Description		
show		Show running system information
install		Install related show commands
inactive		Inactive packages
active		Active packages
brief		(Optional) Brief
committed		Committed packages
__readonly__		(Optional)
<i>curr_nxos_image</i>		(Optional) NXOS image
TABLE_smu_list		(Optional)
<i>install_smu_id</i>		(Optional) install operation smu identifier
TABLE_package_list		(Optional)
<i>package_id</i>		(Optional) Package name

## Command Mode

- /exec

## show install all failed-standby

```
show install all failed-standby [ __readonly__ { [ TABLE_installFailStandby <Str1> ] } ]
```

### Syntax Description

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

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

Syntax Description		
show	Show running system information	
install	Show the software install impact between two images	
all	show install all information	
impact	show impact of the install all command	
nxos	(Optional) boot-variable name	
<i>uri</i>	(Optional) Enter image uri	
non-disruptive	(Optional) non-disruptive show install	

## Command Mode

- /exec



# show install all impact epld

show install all impact epld <uri1>

## Syntax Description

Syntax Description	
show	Show running system information
install	Show the software install status
all	show install all information
impact	show impact of the install all epld command
epld	Show EPLD install information
<i>uri1</i>	Local URI containing EPLD Image

## Command Mode

- /exec

# show install all status

show install all status

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

install Show the software install impact between two images

---

all show install all information

---

status show status of the current or last install all

---

## Command Mode

- /exec

# show install epld status

show install epld status

## Syntax Description

<b>Syntax Description</b>	show Show running system information
	install Show the software install status
	epld Show EPLD install information
	status Show status of previous EPLD upgrades

## Command Mode

- /exec

# show install impact

show install impact <uri0>

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

install Show the software install impact between two images

---

impact impact system\_uri {active\_system\_uri/active\_kickstart\_uri}

---

uri0 Enter system URI

---

## Command Mode

- /exec

# show install impact

```
show install impact <uri0> <uri1>
```

## Syntax Description

<b>Syntax Description</b>	<i>show</i> Show running system information
	<i>install</i> Show the software install impact between two images
	<i>impact</i> impact system_uri {active_system_uri/active_kickstart_uri}
	<i>uri0</i> Enter system URI
	<i>uri1</i> Enter active URI

## Command Mode

- /exec

# show install impact detail

show install impact <uri0> detail

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

install Show the software install impact between two images

---

impact impact system\_uri {active\_system\_uri/active\_kickstart\_uri}

---

uri0 Enter system URI

---

detail Show detailed install impact of given system image

---

## Command Mode

- /exec

# show install log

```
show install log { [ <id> | from <id1> ] [ detail ] [ reverse ] [ last ] } [ __readonly__ { current_time <curr_time>
[ TABLE_show_log_output <install_id> <install_log_entry> + ] } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
install		Install related show commands
log		log
<i>id</i>		(Optional) Install Identifies
from		(Optional) Starting at this install identifier
<i>id1</i>		(Optional) Install Identifier
detail		(Optional) Detailed information including impacted processes
reverse		(Optional) Displays the logs in reverse order
last		(Optional) Display the logs for last install operation
__readonly__		(Optional)
current_time		(Optional) current time
<i>curr_time</i>		(Optional) current time
TABLE_show_log_output		(Optional)
<i>install_id</i>		(Optional) install operation id
<i>install_log_entry</i>		(Optional) install log entry

## Command Mode

- /exec

# show install packages

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

## Syntax Description

Syntax Description		
show		Show running system information
install		Install related show commands
packages		All packages
<i>__readonly__</i>		(Optional)
<i>curr_nxos_image</i>		(Optional) NXOS image
TABLE_package_list		(Optional)
<i>package_name</i>		(Optional) Package name
<i>version</i>		(Optional) Package version
<i>state</i>		(Optional) package state

## Command Mode

- /exec



# show install patches

```
show install patches [ __readonly__ { <curr_nxos_image> [ TABLE_smu_list <install_smu_id>
<install_smu_state> [ TABLE_module_list <install_modno> <install_mod_smu_state> ] ] } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
install		Install related show commands
patches		All Patches
<i>__readonly__</i>		(Optional)
<i>TABLE_smu_list</i>		(Optional)
<i>curr_nxos_image</i>		(Optional) NXOS image
<i>install_smu_id</i>		(Optional) install operation smu identifier
<i>install_smu_state</i>		(Optional) install operation smu state
<i>TABLE_module_list</i>		(Optional)
<i>install_modno</i>		(Optional) install operation module number
<i>install_mod_smu_state</i>		(Optional) install operation module state

## Command Mode

- /exec

## show interface

```

show interface <ifid> [ brief|quick ] [ __readonly__ TABLE_interface <interface> [ <desc> ] [ <svi_if_index>
] [ <svi_admin_state> ] [ <svi_rsn_desc> ] [ <svi_line_proto> ] [ <svi_hw> ] [ <svi_mac> ] [ <svi_desc> ] [
<svi_ip_addr> ] [ <svi_ip_mask> ] [ <svi_mtu> ] [ <svi_bw> ] [ <svi_delay> ] [ <svi_tx_load> ] [
<svi_rx_load> ] [ <svi_carrier_delay_sec> ] [ <svi_carrier_delay_msec> ] [ <svi_arp_type> ] [
<svi_arp_timeout> ] [ <svi_time_last_cleared> ] { [ TABLE_sec_vlan ] [ <sec_vlan> ] [ <sec_vlan_type> ]
} [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [ <eth_load_interval1_tx> ] [
<eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [ <eth_inrate2_bits> ] [
<eth_inrate2_pkts> ] [ <eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_load_interval3> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [ <eth_outrate3_pkts> ] [ <eth_l2_ucastpkts>
] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [
<eth_l2_bcastbytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [
<eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [
<eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [
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<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> ] [
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<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> ] [
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<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

Syntax Description		
<code>show</code>		Show running system information
<code>interface</code>		Show interface status and information
<code>ifid</code>		Enter interface type and number in module/slot format
<code>brief</code>		(Optional) Show brief info of interface
<code>quick</code>		(Optional) Show info of interface skipping stats
<code>__readonly__</code>		(Optional) Read Only
<code>interface</code>		(Optional) Interface index
<code>TABLE_interface</code>		(Optional) show interface
<code>desc</code>		(Optional) Interface description
<code>switchport</code>		(Optional) Switchport enabled
<code>svi_if_index</code>		(Optional) Interface
<code>svi_admin_state</code>		(Optional)
<code>svi_rsn_desc</code>		(Optional) Interface state reason detailed
<code>svi_line_proto</code>		(Optional)
<code>svi_hw</code>		(Optional) Hardware
<code>svi_mac</code>		(Optional) Address
<code>svi_desc</code>		(Optional) Interface Description
<code>svi_ip_addr</code>		(Optional) IP Address
<code>svi_ip_mask</code>		(Optional) IP address mask
<code>svi_mtu</code>		(Optional) MTU size in bytes
<code>svi_bw</code>		(Optional) Bandwidth in kilobits
<code>svi_delay</code>		(Optional) Throughput delay (tens of microseconds)
<code>svi_tx_load</code>		(Optional) Tx Load
<code>svi_rx_load</code>		(Optional) Rx Load
<code>svi_carrier_delay_sec</code>		(Optional) carrier delay value in seconds
<code>svi_carrier_delay_msec</code>		(Optional) carrier delay value in milli-seconds
<code>svi_arp_type</code>		(Optional) ARP type
<code>svi_arp_timeout</code>		(Optional) ARP timeout value

<i>svi_time_last_cleared</i>	(Optional) Time last cleared
TABLE_sec_vlan	(Optional) secondary vlans
<i>sec_vlan</i>	(Optional) vlan id
<i>sec_vlan_type</i>	(Optional) secondary vlan type
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts

<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts

<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched

<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes

<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets



---

<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_rcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_rcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter
<i>svi_reliability</i>	(Optional) Reliability

---

**Command Mode**

- /exec

## show interface

```
show interface <ifmgmt> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <share_state> ] [ <eth_bundle> ] [ <eth_dce_mode> ] [
<vpc_status> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [ <eth_ip_addr> ] [
<eth_ip_mask> ] [ <eth_ip_prefix> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_encap_vlan> ] [ <eth_dly> ] [
<eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [ <eth_loopback> ] [ <eth_keepalive> ] [ <eth_duplex>
] [ <eth_speed> ] [ <eth_mode> ] [ <eth_ratemode> ] [ <eth_autoneg> ] [ <eth_beacon> ] [ <eth_media> ] [
<eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_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_cnt> ] [ <mgmt_hw_desc> ] [ <mgmt_hw_addr> ] [
<mgmt_ip_addr> ] [ <mgmt_ip_mask> ] [ <mgmt_mtu> ] [ <mgmt_speed> ] [ <mgmt_duplex> ] [
<vdc_lvl_in_avg_bits> ] [ <vdc_lvl_in_avg_pkts> ] [ <vdc_lvl_out_avg_bits> ] [ <vdc_lvl_out_avg_pkts>
] [ <vdc_lvl_in_pkts> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [ <vdc_lvl_in_bcast> ] [
<vdc_lvl_in_bytes> ] [ <vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_out_pkts> ] [ <vdc_lvl_out_ucast>
] [ <vdc_lvl_out_mcast> ] [ <vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_bps> ] [
<vdc_lvl_out_pps> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt</i>	Enter interface type and number in module/slot format
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>share_state</i>	(Optional) Interface ownership
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_dce_mode</i>	(Optional) DCE mode description
<i>vpc_status</i>	(Optional) VPC status
<i>eth_hw_desc</i>	(Optional) HW description

<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_loopback</i>	(Optional) Loopback
<i>eth_keepalive</i>	(Optional) Keepalive
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_mode</i>	(Optional) Port mode
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_media</i>	(Optional) Media type
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_sw_t_monitor</i>	(Optional) Switchport Monitor
<i>eth_ethertype</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_clk_mode</i>	(Optional) Clock mode

<i>eth_arp_type</i>	(Optional) ARP type
<i>eth_arp_timeout</i>	(Optional) ARP timeout
<i>eth_last_in</i>	(Optional) Last input
<i>eth_last_out</i>	(Optional) Last output
<i>eth_out_hang</i>	(Optional) Last output hang
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_inq_size</i>	(Optional) Input queue size
<i>eth_inq_max</i>	(Optional) Input queue max
<i>eth_inq_drops</i>	(Optional) Input queue drops
<i>eth_inq_flush</i>	(Optional) Input queue flushes
<i>eth_out_drop</i>	(Optional) Output drops
<i>eth_q_strategy</i>	(Optional) Queueing strategy
<i>eth_outq_size</i>	(Optional) Output queue size
<i>eth_outq_max</i>	(Optional) Output queue max
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>mgmt_hw_desc</i>	(Optional) HW description
<i>mgmt_hw_addr</i>	(Optional) HW address
<i>mgmt_ip_addr</i>	(Optional) IP address
<i>mgmt_ip_mask</i>	(Optional) IP address mask
<i>mgmt_mtu</i>	(Optional) MTU
<i>mgmt_speed</i>	(Optional) Speed
<i>mgmt_duplex</i>	(Optional) Duplex
<i>vdc_lvl_in_avg_bits</i>	(Optional) VDC level average input bits
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_out_avg_bits</i>	(Optional) VDC level average output bits
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets

<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second

**Command Mode**

- /exec

## show interface

```

show interface [ controller | quick ] [ _readonly_ TABLE interface <interface> [ <state> ] [ <state_rsn_desc>
] [ <state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <admin_state> ] [ <share_state> ] [ <parent_interface>
] [ <vpc_status> ] [ <eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [
<eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_dly> ] [
<eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [ <eth_encap_vlan> ] [ <medium> ] [ <eth_mode> ] [
<eth_duplex> ] [ <eth_speed> ] [ <eth_media> ] [ <eth_beacon> ] [ <eth_autoneg> ] [ <eth_in_flowctrl> ] [
<eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_ratemode> ] [ <eth_swt_monitor> ] [ <eth_ethertype> ] [
<eth_eee_state> ] [ <eth_members> ] [ <eth_link_flapped> ] [ <eth_clear_counters> ] [ <eth_reset_cntr> ] [
<eth_load_interval1> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [
<eth_load_interval3> ] [ <eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [
<eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_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> ] [
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] [ <mgmt_late_col> ] [ <mgmt_excess_col> ] [ <mgmt_carri_sen> ] [ <mgmt_runs> ] [ <mgmt_giants> ] [
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<keepalive-period> <keepalive-retries> { <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> }
<dest-hostname> <vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu>
<tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate>
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] [ <svi_admin_state> ] [ <svi_rsn_desc> ] [ <svi_line_proto> ] [ <svi_hw> ] [ <svi_mac> ] [ <svi_desc> ] [
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<svi_rx_load> ][ <svi_carrier_delay_sec> ][ <svi_carrier_delay_msec> ][ <svi_arp_type> ][
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<overlay_tx_bitrate> ][ <overlay_tx_pktrate> ] <switchport> ]

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### Syntax Description

Syntax Description	show	Show running system information
interface	interface	Show interface status and information
controller	controller	(Optional) Show controller configured interfaces
quick	quick	(Optional) Show info of interface skipping stats
__readonly__	__readonly__	(Optional) Read Only
interface	interface	(Optional) Interface index
TABLE_interface	TABLE_interface	(Optional) show interface
state	state	(Optional) Interface state
state_rsn_desc	state_rsn_desc	(Optional) Interface state reason detailed
state_rsn	state_rsn	(Optional) Interface state reason
switchport	switchport	(Optional) Switchport enabled
eth_rsn_fac	eth_rsn_fac	(Optional) State reason facility
eth_rsn_code	eth_rsn_code	(Optional) State reason code
admin_state	admin_state	(Optional) admin state
share_state	share_state	(Optional) Interface ownership
parent_interface	parent_interface	(Optional) parent interface

<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>medium</i>	(Optional) medium type
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_sw_t_monitor</i>	(Optional) Switchport Monitor
<i>eth_ethertype</i>	(Optional) EtherType



<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>eth_load_interval1</i>	(Optional) interval 1 timer value in sec
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts

<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_jumbo_inpkts</i>	(Optional) Incoming jumbo pkts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_runts</i>	(Optional) runts
<i>eth_giants</i>	(Optional) giants
<i>eth_crc</i>	(Optional) CRC

<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inerr</i>	(Optional) input errors
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_indiscard</i>	(Optional) discards
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_jumbo_outpkts</i>	(Optional) Outgoing jumbo pkts
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_deferred</i>	(Optional) deferred
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_outdiscard</i>	(Optional) output discard
<i>eth_outpause</i>	(Optional) PAUSE output
<i>mgmt_hw_desc</i>	(Optional) HW description

<i>mgmt_hw_addr</i>	(Optional) HW address
<i>mgmt_ip_addr</i>	(Optional) IP address
<i>mgmt_ip_mask</i>	(Optional) IP address mask
<i>mgmt_mtu</i>	(Optional) MTU
<i>mgmt_speed</i>	(Optional) Speed
<i>mgmt_duplex</i>	(Optional) Duplex
<i>vdc_lvl_in_avg_bits</i>	(Optional) VDC level average input bits
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_out_avg_bits</i>	(Optional) VDC level average output bits
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors

<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error
<i>loop_in_pkts</i>	(Optional) Input packets

<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>wccp_header</i>	(Optional) wccp header
<i>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>svi_rsn_desc</i>	(Optional) Interface state reason detailed
<i>svi_line_proto</i>	(Optional)
<i>svi_hw</i>	(Optional) Hardware
<i>svi_mac</i>	(Optional) Address
<i>svi_desc</i>	(Optional) Interface Description
<i>svi_ip_addr</i>	(Optional) IP Address
<i>svi_ip_mask</i>	(Optional) IP address mask
<i>svi_mtu</i>	(Optional) MTU size in bytes
<i>svi_bw</i>	(Optional) Bandwidth in kilobits
<i>svi_delay</i>	(Optional) Throughput delay (tens of microseconds)
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_carrier_delay_sec</i>	(Optional) carrier delay value in seconds
<i>svi_carrier_delay_msec</i>	(Optional) carrier delay value in milli-seconds
<i>svi_arp_type</i>	(Optional) ARP type
<i>svi_arp_timeout</i>	(Optional) ARP timeout value
<i>svi_time_last_cleared</i>	(Optional) Time last cleared

<i>TABLE_sec_vlan</i>	(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



---

*overlay\_tx\_bcastpkts* (Optional) Trasnmitted bcast pkts

---

*overlay\_tx\_bcastbytes* (Optional) Trasnmitted bcast bytes

---

*overlay\_tx\_pkts* (Optional) Total transmitted pkts

---

*overlay\_tx\_bytes* (Optional) Total transmitted bytes

---

*overlay\_tx\_bitrate* (Optional) Transmit bit rate

---

*overlay\_tx\_pktrate* (Optional) Transmit pkt rate

---

### Command Mode

- /exec

## show interface

```
show interface <ifloop> [ __readonly__ TABLE_interface <interface> [ <state> ] [ <admin_state> ] [
<share_state> ] [ <state_rsn> ] [ <state_rsn_desc> ] [ <desc> ] [ <eth_bundle> ] [ <mgmt_sfp> ] [ <mgmt_type>
] [ <eth_eee_state> ] [ <eth_dce_mode> ] [ <vpc_status> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [
<eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix>
] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_encap_vlan> ] [ <eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [
<eth_rxload> ] [ <eth_loopback> ] [ <eth_keepalive> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_mode> ] [
<eth_ratemode> ] [ <eth_autoneg> ] [ <eth_beacon> ] [ <eth_media> ] [ <eth_in_flowctrl> ] [
<eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_sw_t_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [
<eth_clk_mode> ] [ <eth_arp_type> ] [ <eth_arp_timeout> ] [ <eth_last_in> ] [ <eth_last_out> ] [
<eth_out_hang> ] [ <eth_clear_counters> ] [ <eth_link_flapped> ] [ <eth_inq_size> ] [ <eth_inq_max> ] [
<eth_inq_drops> ] [ <eth_inq_flush> ] [ <eth_out_drop> ] [ <eth_q_strategy> ] [ <eth_outq_size> ] [
<eth_outq_max> ] [ <eth_reset_cntr> ] [ <loop_in_pkts> ] [ <loop_in_bytes> ] [ <loop_in_mcast> ] [
<loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame> ] [ <loop_in_overrun> ] [ <loop_in_fifo>
] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns> ] [ <loop_out_errors> ] [
<loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop</i>	Enter interface type and number in module/slot format
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>admin_state</i>	(Optional) Interface admin state
<i>share_state</i>	(Optional) Interface ownership
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>mgmt_sfp</i>	(Optional) mgmt sfp
<i>mgmt_type</i>	(Optional) mgmt type
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_dce_mode</i>	(Optional) DCE mode description

<i>vpc_status</i>	(Optional) VPC status
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP Prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_loopback</i>	(Optional) Loopback
<i>eth_keepalive</i>	(Optional) Keepalive
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_mode</i>	(Optional) Port mode
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_media</i>	(Optional) Media type
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_sw_t_monitor</i>	(Optional) Switchport Monitor

<i>eth_etherType</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_clk_mode</i>	(Optional) Clock mode
<i>eth_arp_type</i>	(Optional) ARP type
<i>eth_arp_timeout</i>	(Optional) ARP timeout
<i>eth_last_in</i>	(Optional) Last input
<i>eth_last_out</i>	(Optional) Last output
<i>eth_out_hang</i>	(Optional) Last output hang
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_inq_size</i>	(Optional) Input queue size
<i>eth_inq_max</i>	(Optional) Input queue max
<i>eth_inq_drops</i>	(Optional) Input queue drops
<i>eth_inq_flush</i>	(Optional) Input queue flushes
<i>eth_out_drop</i>	(Optional) Output drops
<i>eth_q_strategy</i>	(Optional) Queueing strategy
<i>eth_outq_size</i>	(Optional) Output queue size
<i>eth_outq_max</i>	(Optional) Output queue max
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes

---

*loop\_out\_underruns* (Optional) Output underruns

---

*loop\_out\_errors* (Optional) Output errors

---

*loop\_out\_collisions* (Optional) Output collisions

---

*loop\_out\_fifo* (Optional) Output fifo

---

*loop\_out\_carriers* (Optional) Output carrier errors

---

### Command Mode

- /exec

## show interface

```
show interface <iftun_desc> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<desc> ] <admin-state> { <tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type>
<keepalive-period> <keepalive-retries> { <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> }
<dest-hostname> <vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu>
<tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate>
<tunnel_tx_pkt_count> <tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter> ]
```

### Syntax Description

#### 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>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> ] [ <medium> ] [ <eth_mode> ] [
<eth_duplex> ] [ <eth_speed> ] [ <eth_media> ] [ <eth_beacon> ] [ <eth_autoneg> ] [ <eth_in_flowctrl> ] [
<eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_ratemode> ] [ <eth_swt_monitor> ] [ <eth_ethertype> ] [
<eth_eee_state> ] [ <eth_members> ] [ <eth_link_flapped> ] [ <eth_clear_counters> ] [ <eth_reset_cntr> ] [
<eth_load_interval1> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [
<eth_load_interval3> ] [ <eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [
<eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_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_runs> ] [ <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

#### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth</i>	Enter interface type and number in module/slot format
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>eth_rsn_fac</i>	(Optional) State reason facility



<i>eth_rsn_code</i>	(Optional) State reason code
<i>admin_state</i>	(Optional) admin state
<i>share_state</i>	(Optional) Interface ownership
<i>parent_interface</i>	(Optional) parent interface
<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>medium</i>	(Optional) medium type
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol

<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_swt_monitor</i>	(Optional) Switchport Monitor
<i>eth_ethertype</i>	(Optional) EtherType
<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>eth_load_interval1</i>	(Optional) interval 1 timer value in sec
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts

<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) 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

#### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>overlay_addr</i>	(Optional) Overlay address
<i>overlay_addr_mask</i>	(Optional) Overlay address mask
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_encap_str</i>	(Optional) Encap type
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address
<i>overlay_last_link_flap</i>	(Optional) Last link flap
<i>overlay_clear_counters</i>	(Optional) Last clearing of show interface counters

---

<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes
<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted bcast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pktrate</i>	(Optional) Transmit pkt rate

---

**Command Mode**

- /exec

## show interface

```
show interface <ifrange> [ __readonly__ TABLE interface <interface> <state> [ <state_rsn_desc> ] [
<state_rsn> ] [ <admin_state> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <share_state> ] [ <vpc_status> ] [
<eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [ <eth_ip_addr> ] [
<eth_ip_mask> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [ <eth_rxload>
] [ <eth_encap_vlan> ] [ <eth_mode> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_media> ] [ <eth_beacon> ]
[ <eth_autoneg> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_ratemode> ] [
<eth_sw_t_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [ <eth_link_flapped> ] [ <eth_clear_counters>
] [ <eth_reset_cntr> ] [ <nve_addr> ] [ <nve_addr_mask> ] [ <nve_vcid> ] [ <nve_mtu> ] [ <nve_bandwidth>
] [ <nve_encap_str> ] [ <nve_vrf> ] [ <nve_src_addr> ] [ <nve_dst_addr> ] [ <nve_last_link_flap> ] [
<nve_clear_counters> ] [ <nve_load_interval> ] [ <nve_rx_ucastpkts> ] [ <nve_rx_ucastbytes> ] [
<nve_rx_mcastpkts> ] [ <nve_rx_mcastbytes> ] [ <nve_rx_pkts> ] [ <nve_rx_bytes> ] [ <nve_rx_bcastpkts>
] [ <nve_rx_bcastbytes> ] [ <nve_rx_bitrate> ] [ <nve_rx_pktrate> ] [ <nve_tx_ucastpkts> ] [
<nve_tx_ucastbytes> ] [ <nve_tx_mcastpkts> ] [ <nve_tx_mcastbytes> ] [ <nve_tx_bcastpkts> ] [
<nve_tx_bcastbytes> ] [ <nve_tx_pkts> ] [ <nve_tx_bytes> ] [ <nve_tx_bitrate> ] [ <nve_tx_pktrate> ] ] ]
```

### Syntax Description

#### 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>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_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

---

*nve\_tx\_pktrate* (Optional) Transmit pkt rate

---

**Command Mode**

- /exec

# show interface brief

```
show interface <ifpch_brf> brief [ __readonly__ TABLE_interface <interface> [ <vlan> ] <type> <portmode>
<state> <state_rsn_desc> <speed> <ratemode> [ <proto> ] ]
```

## Syntax Description

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	
<i>TABLE_interface</i>	(Optional) show interface	
<i>vlan</i>	(Optional) Vlan	
<i>type</i>	(Optional) Type	
<i>portmode</i>	(Optional) Port mode	
<i>state</i>	(Optional) Interface state	
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed	
<i>speed</i>	(Optional) Speed	
<i>ratemode</i>	(Optional) Interface port speed	
<i>proto</i>	(Optional) Port Channel Protocol	

## Command Mode

- /exec

## show interface brief

```
show interface brief [ controller | cli ] [ __readonly__ TABLE_interface [ <interface> ] [ <vlan> ] [ <type> ]
[ <portmode> ] [ <state> ] [ <state_rsn> ] [ <state_rsn_desc> ] [ <desc> ] [ <vrf> ] [ <ipv6_addr> ] [ <ip_addr>
] [ <speed> ] [ <mtu> ] [ <ratemode> ] [ <portchan> ] [ <proto> ] [ <interface_vfc> ] [ <vsan_brief> ] [
<admin_mode> ] [ <admin_trunk_mode> ] [ <status> ] [ <fcot_info> ] [ <bind_info> ] [ <bind_type> ] [
<port_rate_mode> ] [ <oper_speed> ] [ <port_channel> ] [ <ip_addr1> ] ]
```

### Syntax Description

#### 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
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
state_rsn	(Optional) Interface state reason
state_rsn_desc	(Optional) Interface state reason detailed
desc	(Optional) Interface description
vrf	(Optional) Vrf membership
ip_addr	(Optional) IP address
mtu	(Optional) MTU
speed	(Optional) Speed
vlan	(Optional) Vlan
type	(Optional) Type
portmode	(Optional) Port mode
ratemode	(Optional) Interface port speed
portchan	(Optional) Port Channel Membership
proto	(Optional) Port Channel Protocol

<i>interface_vfc</i>	(Optional) Interface index
<i>vsan_brief</i>	(Optional) vsan brief
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>status</i>	(Optional) status
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_type</i>	(Optional) bind type
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>port_channel</i>	(Optional) port channel number
<i>ip_addr1</i>	(Optional) IP address

**Command Mode**

- /exec

# show interface brief

```
show interface <ifloop_brf> brief [ __readonly__ TABLE_interface <interface> <state> [ <desc> ] ]
```

## Syntax Description

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
<i>__readonly__</i>		(Optional) Read Only
<i>interface</i>		(Optional) Interface index
<i>TABLE_interface</i>		(Optional) show interface
<i>state</i>		(Optional) Interface state
<i>desc</i>		(Optional) Interface description

## Command Mode

- /exec

## show interface brief

```
show interface <iftunnel_brf> brief [ __readonly__ TABLE_interface <interface> <state> <admin-state> {
<tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type> <keepalive-period> <keepalive-retries>
{ <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> } <dest-hostname> <vrf_name>
<wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu> <tunnel_pmtud>
<tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate> <tunnel_tx_pkt_count>
<tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter> ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftunnel_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>wccp_header</i>	(Optional) wccp header
<i>ttl_val</i>	(Optional) tunnel time to live value



---

<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time
<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received
<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received
<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters

---

**Command Mode**

- /exec

# show interface brief

```
show interface <ifmgmt_brf> brief [ __readonly__ TABLE_interface <interface> [ <vrf> ] <state> [
<ipv6_addr> ] [ <ip_addr> ] <mtu> <speed> [ <duplex> ] ]
```

## Syntax Description

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	
<i>TABLE_interface</i>	(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

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
	<i>TABLE_interface</i>	(Optional) show interface
	<i>vlan</i>	(Optional) Vlan
	<i>type</i>	(Optional) Type
	<i>portmode</i>	(Optional) Port mode
	<i>state</i>	(Optional) Interface state
	<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
	<i>speed</i>	(Optional) Speed
	<i>ratemode</i>	(Optional) Interface port speed
	<i>portchan</i>	(Optional) Port Channel Membership

### Command Mode

- /exec

# show interface brief

```
show interface <ifrange> brief [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] [
<state_rsn_desc> ] [ <overlay_mtu> ] [ <overlay_bandwidth> ] [ <overlay_vrf> ] [ <overlay_src_addr> ] [
<overlay_dst_addr> ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address

## Command Mode

- /exec

## show interface brief

```
show interface <ifrange> brief [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] [
<state_rsn_desc> ] [ <admin_state> ] [ <nve_addr> ] [ <nve_vcid> ] [ <nve_mtu> ] [ <nve_bandwidth> ] [
<nve_vrf> ] [ <nve_src_addr> ] [ <nve_dst_addr> ] ]
```

### Syntax Description

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	
<i>TABLE_interface</i>	(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

#### 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
<i>TABLE_interface</i>	(Optional) show interface
<i>speed</i>	(Optional) Speed
<i>distance1</i>	(Optional) Distance to fault for pair 1
<i>distance2</i>	(Optional) Distance to fault for pair 2
<i>distance3</i>	(Optional) Distance to fault for pair 3
<i>distance4</i>	(Optional) Distance to fault for pair 4
<i>pair1_status</i>	(Optional) Pair1 status
<i>pair2_status</i>	(Optional) Pair2 status
<i>pair3_status</i>	(Optional) Pair3 status
<i>pair4_status</i>	(Optional) Pair4 status

### Command Mode

- /exec

## show interface capabilities

```
show interface <ifid_eth_cap> capabilities [ __readonly__ TABLE_interface <interface> <model> <type>
<speed> <duplex> <trunk_encap> <dce_capable> <channel> <bcast_supp> <flo_ctrl> <rate_mode>
<port_mode> [ <fast_start> ] <qos_scheduling> <cos_rewrite> <tos_rewrite> [ <inline_power> ] <span>
<udld> [ <mdix> ] [ <tdr> ] <lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [
<pvlan_trunk_mode> ] [ <port_group> ] [ <port_group_members> ] <eee_capable> <pfc_capable>
<speed_group_capable> <buffer_boost_capable> [ <bkout_capable> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_eth_cap</i>	Enter interface type and number in module/slot format
capabilities	Show interface capabilities information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>model</i>	(Optional) Model
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex
<i>trunk_encap</i>	(Optional) Trunk encap. type
<i>dce_capable</i>	(Optional) DCE mode capable
<i>channel</i>	(Optional) Channel
<i>bcast_supp</i>	(Optional) Broadcast suppression
<i>flo_ctrl</i>	(Optional) Flowcontrol
<i>rate_mode</i>	(Optional) Rate mode
<i>port_mode</i>	(Optional) Port mode
<i>fast_start</i>	(Optional) Fast start
<i>qos_scheduling</i>	(Optional) QOS scheduling
<i>cos_rewrite</i>	(Optional) CoS rewrite
<i>tos_rewrite</i>	(Optional) ToS rewrite

<i>inline_power</i>	(Optional) Inline power
<i>span</i>	(Optional) SPAN
<i>udld</i>	(Optional) UDLD
<i>mdix</i>	(Optional) MDIX
<i>tdr</i>	(Optional) TDR
<i>lnk_debounce</i>	(Optional) Link debounce
<i>lnk_debounce_time</i>	(Optional) Link debounce time
<i>fex_fabric</i>	(Optional) FEX Fabric
<i>dot1q_tunnel</i>	(Optional) dot1q-tunnel
<i>pvlan_trunk_mode</i>	(Optional) Private-vlan trunk mode
<i>port_group</i>	(Optional) Port Group
<i>port_group_members</i>	(Optional) Port Group Members
<i>eee_capable</i>	(Optional) EEE (efficient-eth)
<i>pfc_capable</i>	(Optional) PFC Capable:
<i>bkout_capable</i>	(Optional) Breakout Capable:
<i>buffer_boost_capable</i>	(Optional) Buffer Boost Capable:
<i>speed_group_capable</i>	(Optional) Speed group capable

### 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> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
interface	Show interface status and information
capabilities	Show interface capabilities information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>model</i>	(Optional) Model
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex
<i>trunk_encap</i>	(Optional) Trunk encap. type
<i>dce_capable</i>	(Optional) DCE mode capable
<i>channel</i>	(Optional) Channel
<i>bcast_supp</i>	(Optional) Broadcast suppression
<i>flo_ctrl</i>	(Optional) Flowcontrol
<i>rate_mode</i>	(Optional) Rate mode
<i>port_mode</i>	(Optional) Port mode
<i>fast_start</i>	(Optional) Fast start
<i>qos_scheduling</i>	(Optional) QOS scheduling
<i>cos_rewrite</i>	(Optional) CoS rewrite
<i>tos_rewrite</i>	(Optional) ToS rewrite
<i>inline_power</i>	(Optional) Inline power

<i>span</i>	(Optional) SPAN
<i>udld</i>	(Optional) UDLD
<i>mdix</i>	(Optional) MDIX
<i>tdr</i>	(Optional) TDR
<i>lnk_debounce</i>	(Optional) Link debounce
<i>lnk_debounce_time</i>	(Optional) Link debounce time
<i>fex_fabric</i>	(Optional) FEX Fabric
<i>dot1q_tunnel</i>	(Optional) dot1q-tunnel
<i>pvlan_trunk_mode</i>	(Optional) Private-vlan trunk mode
<i>port_group</i>	(Optional) Port Group
<i>port_group_members</i>	(Optional) Port Group Members
<i>eee_capable</i>	(Optional) EEE (efficient-eth)
<i>pfc_capable</i>	(Optional) PFC Capable:
<i>bkout_capable</i>	(Optional) Breakout Capable:
<i>buffer_boost_capable</i>	(Optional) Buffer Boost Capable:
<i>speed_group_capable</i>	(Optional) Speed group capable

### 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

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	
TABLE_tx_counters	(Optional) show Tx counters	
<i>eth_inpkts</i>	(Optional) Packets input	
<i>eth_inbytes</i>	(Optional) Bytes input	
<i>eth_inucast</i>	(Optional) Unicasts	
<i>eth_inmcast</i>	(Optional) Multicasts	
<i>eth_inbcast</i>	(Optional) Broadcasts	
<i>eth_outpkts</i>	(Optional) Packets output	
<i>eth_outbytes</i>	(Optional) Bytes output	
<i>eth_outucast</i>	(Optional) Unicasts	
<i>eth_outmcast</i>	(Optional) Multicasts	
<i>eth_outbcast</i>	(Optional) Broadcasts	

## Command Mode

- /exec

## show interface counters

```
show interface counters [ module <module> ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ]
[ <eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } } { TABLE_tx_counters
<interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast>
] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } }
```

### Syntax Description

#### Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts

---

*eth\_l3in\_mcastpkts* (Optional) L3 Rx Multicast pkts

---

*eth\_l3in\_bcastpkts* (Optional) L3 Rx Broadcast pkts

---

*eth\_l3out\_bytes* (Optional) L3 Tx bytes

---

*eth\_l3out\_ucastpkts* (Optional) L3 Tx Unicast pkts

---

*eth\_l3out\_mcastpkts* (Optional) L3 Tx Multicast pkts

---

*eth\_l3out\_bcastpkts* (Optional) L3 Tx Broadcast pkts

---

### Command Mode

- /exec

## show interface counters

```
show interface counters [ __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

#### Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
<i>TABLE_rx_counters</i>	(Optional) show Rx counters
<i>TABLE_tx_counters</i>	(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

---

*eth\_l3out\_bytes* (Optional) L3 Tx bytes

---

*eth\_l3out\_ucastpkts* (Optional) L3 Tx Unicast pkts

---

*eth\_l3out\_mcastpkts* (Optional) L3 Tx Multicast pkts

---

*eth\_l3out\_bcastpkts* (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

#### 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
<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_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts input
<i>eth_inmcast</i>	(Optional) Multicasts input
<i>eth_inbcast</i>	(Optional) Broadcasts input
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts output
<i>eth_outmcast</i>	(Optional) Multicasts output
<i>eth_outbcast</i>	(Optional) Broadcasts output
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts



---

*eth\_l3out\_bytes* (Optional) L3 Tx bytes

---

*eth\_l3out\_ucastpkts* (Optional) L3 Tx Unicast pkts

---

*eth\_l3out\_mcastpkts* (Optional) L3 Tx Multicast pkts

---

*eth\_l3out\_bcastpkts* (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

#### 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
<i>TABLE_interface</i>	(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

---

*overlay\_tx\_mcastbytes* (Optional) Trasnmitted mcast bytes

---

*overlay\_tx\_bcastpkts* (Optional) Trasnmitted bcast pkts

---

*overlay\_tx\_bcastbytes* (Optional) Trasnmitted bcast bytes

---

*overlay\_tx\_pkts* (Optional) Total transmitted pkts

---

*overlay\_tx\_bytes* (Optional) Total transmitted bytes

---

*overlay\_tx\_bitrate* (Optional) Transmit bit rate

---

*overlay\_tx\_pktrate* (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

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
<i>TABLE_nve_counters</i>		(Optional) show interface
<i>ucast_inbytes</i>		(Optional) ucast bytes input
<i>ucast_inpkts</i>		(Optional) ucast packets input
<i>ucast_outbytes</i>		(Optional) ucast bytes output
<i>ucast_outpkts</i>		(Optional) ucast packets output
<i>mcast_inbytes</i>		(Optional) mcast bytes input
<i>mcast_inpkts</i>		(Optional) mcast packets input
<i>mcast_outbytes</i>		(Optional) mcast bytes output
<i>mcast_outpkts</i>		(Optional) mcast packets output

### Command Mode

- /exec

## show interface counters brief

```
show interface <ifeth_ctr_brf> counters brief [ <counter_val> ] [ __readonly__ TABLE_interface <interface>
<eth_load_intv1> <eth_inrate1> <eth_inframes1> <eth_outrate1> <eth_outframes1> <eth_load_intv2>
<eth_inrate2> <eth_inframes2> <eth_outrate2> <eth_outframes2> <eth_load_intv3> <eth_inrate3>
<eth_inframes3> <eth_outrate3> <eth_outframes3> ]
```

### Syntax Description

Syntax Description	
show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_brf</i>	Enter interface type and number in module/slot format
counters	Show interface counters
brief	Show interface counters in brief
<i>counter_val</i>	(Optional) Specify a single load interval id to show the rates
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>eth_load_intv1</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1</i>	(Optional) interval 1 input rate in mbps
<i>eth_inframes1</i>	(Optional) interval 1 input rate in frames (pkts)
<i>eth_outrate1</i>	(Optional) interval 1 output rate in mbps
<i>eth_outframes1</i>	(Optional) interval 1 output rate in output frames (pkts)
<i>eth_load_intv2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2</i>	(Optional) interval 2 input rate in mbps
<i>eth_inframes2</i>	(Optional) interval 2 input rate in frames (pkts)
<i>eth_outrate2</i>	(Optional) interval 2 output rate in mbps
<i>eth_outframes2</i>	(Optional) interval 2 output rate in output frames (pkts)
<i>eth_load_intv3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3</i>	(Optional) interval 3 input rate in mbps
<i>eth_inframes3</i>	(Optional) interval 3 input rate in frames (pkts)
<i>eth_outrate3</i>	(Optional) interval 3 output rate in mbps

---

*eth\_outframes3* (Optional) interval 3 output rate in output frames (pkts)

---

**Command Mode**

- /exec

## show interface counters brief

```
show interface counters brief [ <counter_val> ] [ __readonly__ TABLE_interface <interface> <eth_inrate1>
<eth_inframes1> <eth_outrate1> <eth_outframes1> <eth_load_intv1> <eth_inrate2> <eth_inframes2>
<eth_outrate2> <eth_outframes2> <eth_load_intv2> <eth_inrate3> <eth_inframes3> <eth_outrate3>
<eth_outframes3> <eth_load_intv3> ]
```

### Syntax Description

#### 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
<i>TABLE_interface</i>	(Optional) show interface
<i>eth_load_intv1</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1</i>	(Optional) interval 1 input rate in mbps
<i>eth_inframes1</i>	(Optional) interval 1 input rate in frames (pkts)
<i>eth_outrate1</i>	(Optional) interval 1 output rate in mbps
<i>eth_outframes1</i>	(Optional) interval 1 output rate in output frames (pkts)
<i>eth_load_intv2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2</i>	(Optional) interval 2 input rate in mbps
<i>eth_inframes2</i>	(Optional) interval 2 input rate in frames (pkts)
<i>eth_outrate2</i>	(Optional) interval 2 output rate in mbps
<i>eth_outframes2</i>	(Optional) interval 2 output rate in output frames (pkts)
<i>eth_load_intv3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3</i>	(Optional) interval 3 input rate in mbps
<i>eth_inframes3</i>	(Optional) interval 3 input rate in frames (pkts)
<i>eth_outrate3</i>	(Optional) interval 3 output rate in mbps
<i>eth_outframes3</i>	(Optional) interval 3 output rate in output frames (pkts)

**Command Mode**

- /exec



## show interface counters detailed

```

show interface counters detailed [ snmp ] [ __readonly__ TABLE_interface <interface> [ <vdc_lvl_in_pkts>
] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [ <vdc_lvl_in_bcast> ] [
<vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_in_avg_pkts> ] [ <vdc_lvl_in_avg_bytes> ] [
<vdc_lvl_out_pkts> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_ucast> ] [ <vdc_lvl_out_mcast> ] [
<vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] [ <vdc_lvl_out_avg_pkts> ] [
<vdc_lvl_out_avg_bytes> ] [ <mgmt_in_pkts> ] [ <mgmt_in_bytes> ] [ <mgmt_in_mcast> ] [
<mgmt_in_compressed> ] [ <mgmt_in_errors> ] [ <mgmt_in_frame> ] [ <mgmt_in_overrun> ] [
<mgmt_in_fifo> ] [ <mgmt_out_pkts> ] [ <mgmt_out_bytes> ] [ <mgmt_out_underruns> ] [
<mgmt_out_errors> ] [ <mgmt_out_collisions> ] [ <mgmt_out_fifo> ] [ <mgmt_out_carrier> ] [
<mgmt_align_err> ] [ <mgmt_fcs_err> ] [ <mgmt_xmit_err> ] [ <mgmt_rcv_err> ] [ <mgmt_undersize> ] [
<mgmt_outdisc> ] [ <mgmt_single_coll> ] [ <mgmt_multi_coll> ] [ <mgmt_late_coll> ] [ <mgmt_excess_coll>
] [ <mgmt_carri_sen> ] [ <mgmt_runs> ] [ <mgmt_giants> ] [ <mgmt_sqetest_err> ] [ <mgmt_deferred_tx>
] [ <mgmt_inmactx_err> ] [ <mgmt_inmacrx_err> ] [ <mgmt_symbol_err> ] [ <loop_in_pkts> ] [
<loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame>
] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns>
] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] [
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] [ <eth_outpkts> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outgiants> ] [
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<eth_outb512_1023> ] [ <eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_nobuf>
] [ <eth_runs> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [
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] [ <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>
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<eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ]
] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [
<eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [
<eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [
<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [
<eth_insw_switched> ] [ <eth_throtles> ] [ <eth_frame> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched>
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_fcoe_in_pkts>
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<svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [ <svi_mcast_bytes_out> ] [ <svi_ipv4_ucast_pkts_in> ]

```

```
[ <svi_ipv4_ucast_bytes_in> ][ <svi_ipv4_ucast_pkts_out> ][ <svi_ipv4_ucast_bytes_out> ][
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<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

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	
vdc_lvl_in_bcast	(Optional) VDC level input broadcast packets	
vdc_lvl_in_bps	(Optional) VDC level input bytes per second	
vdc_lvl_in_pps	(Optional) VDC level input packets per second	
vdc_lvl_in_avg_pkts	(Optional) VDC level average input packets	
vdc_lvl_in_avg_bytes	(Optional) VDC level average input bytes	
vdc_lvl_out_pkts	(Optional) VDC level output packets	
vdc_lvl_out_bytes	(Optional) VDC level output bytes	
vdc_lvl_out_ucast	(Optional) VDC level output unicast packets	
vdc_lvl_out_mcast	(Optional) VDC level output multicast packets	
vdc_lvl_out_bcast	(Optional) VDC level output broadcast packets	
vdc_lvl_out_bps	(Optional) VDC level output bytes per second	

<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense

<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors
<i>eth_load_intervall</i>	(Optional) interval 1 timer value in sec
<i>eth_load_intervall_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_intervall_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec

<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_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

**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

Syntax Description	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
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets

<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_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

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
<i>__readonly__</i>	(Optional)	Read Only
<i>interface</i>	(Optional)	Interface index
<i>TABLE_interface</i>	(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

---

*loop\_out\_carriers* (Optional) Output carrier errors

---

**Command Mode**

- /exec

## show interface counters detailed

```
show interface <ifeth_ctr_dtl> counters detailed [ snmp ] [ __readonly__ TABLE_interface <interface> [
<eth_load_interval1> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [
<eth_load_interval3> ] [ <eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inpkts> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_ingiants>
] [ <eth_inbytes> ] [ <eth_storm_supp> ] [ <eth_inb64> ] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [
<eth_inb256_511> ] [ <eth_inb512_1023> ] [ <eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_intrunk>
] [ <eth_outpkts> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outgiants> ] [
<eth_outbytes> ] [ <eth_outb64> ] [ <eth_outb65_127> ] [ <eth_outb128_255> ] [ <eth_outb256_511> ] [
<eth_outb512_1023> ] [ <eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_nobuf>
] [ <eth_runs> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [
<eth_bad_eth> ] [ <eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_coll> ] [ <eth_latecoll> ] [
<eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_babbles> ] [ <eth_watchdog> ] [ <eth_dribble> ] [ <eth_inerr>
] [ <eth_outerr> ] [ <eth_deferred> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_single_coll> ] [
<eth_multi_coll> ] [ <eth_excess_coll> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [
<eth_symbol> ] [ <eth_out_drops> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [
<eth_cos2_outlost> ] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost>
] [ <eth_cos7_outlost> ] [ <eth_inpause> ] [ <eth_outpause> ] [ <eth_resets> ] [ <eth_sqetest> ] [
<eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [
<eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [
<eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [
<eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [
<eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [
<eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [
<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [
<eth_insw_switched> ] [ <eth_throtles> ] [ <eth_frame> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched>
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] ]
```

### Syntax Description

#### 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_interface	(Optional) show interface
<i>eth_load_interval1</i>	(Optional) interval 1 timer value in sec

<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes



<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_runts</i>	(Optional) runts
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_coll</i>	(Optional) collisions
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier

<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_inerr</i>	(Optional) input errors
<i>eth_outerr</i>	(Optional) output errors
<i>eth_deferred</i>	(Optional) deferred
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_resets</i>	(Optional) interface resets

<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched

---

<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_throtles</i>	(Optional) throttles
<i>eth_frame</i>	(Optional) frame
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops

---

**Command Mode**

- /exec

# show interface counters detailed all

```
show interface <ifid_ctr_dtl_all> counters detailed all [ snmp ]
```

## Syntax Description

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

#### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes

<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overnrun</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

#### 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
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>rx_total_pkts</i>	(Optional) total input packets
<i>tx_total_pkts</i>	(Optional) total output packets
<i>rx_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

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
	<i>__readonly__</i>	(Optional) Read Only
	<i>interface</i>	(Optional) Interface index
	TABLE_interface	(Optional) show interface
	<i>svi_time_last_cleared</i>	(Optional) Time last cleared
	<i>svi_tx_load</i>	(Optional) Tx Load
	<i>svi_rx_load</i>	(Optional) Rx Load
	<i>svi_reliability</i>	(Optional) Reliability

### Command Mode

- /exec

## show interface counters detailed all

```
show interface <ifeth_ctr_dtl_all> counters detailed all [ snmp ] [ __readonly__ TABLE interface <interface>
[ <rx_total_pkts> ] [ <tx_total_pkts> ] [ <rx_ucast_pkts> ] [ <rx_mcast_pkts> ] [ <rx_bcast_pkts> ] [
<rx_octets> ] [ <tx_ucast_pkts> ] [ <tx_mcast_pkts> ] [ <tx_bcast_pkts> ] [ <tx_octets> ] [
<rxtx_pkts_64octets> ] [ <rxtx_pkts_65_127octets> ] [ <rxtx_pkts_128_255octets> ] [
<rxtx_pkts_256_511octets> ] [ <rxtx_pkts_512_1023octets> ] [ <rxtx_pkts_1024_1518octets> ] [
<rxtx_pkts_1519_1548octets> ] [ <rx_trunk_frames> ] [ <tx_trunk_frames> ] [ <rx_drop_events> ] [
<rxtx_giants> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [
<eth_load_interval3> ] [ <eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [
<eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_ucastpkts> ] [
<eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [
<eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [
<eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3in_routed_pkts> ]
[ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3avg1_inbytes> ]
[ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_l3avg2_inbytes> ] [
<eth_l3avg2_inpkts> ] [ <eth_l3avg2_outbytes> ] [ <eth_l3avg2_outpkts> ] [ <eth_l3avg3_inbytes> ] [
<eth_l3avg3_inpkts> ] [ <eth_l3avg3_outbytes> ] [ <eth_l3avg3_outpkts> ] [ <eth_inpkts> ] [ <eth_inbytes> ]
[ <eth_nobuf> ] [ <eth_inbcast> ] [ <eth_inmcast> ] [ <eth_inucast> ] [ <eth_ingiants> ] [ <eth_ipmcast> ]
[ <eth_inhw_switched> ] [ <eth_insw_switched> ] [ <eth_runts> ] [ <eth_storm_supp> ] [ <eth_throtles> ] [
<eth_inerr> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_frame> ] [ <eth_outrun> ] [ <eth_ignored> ] [ <eth_watchdog> ]
[ <eth_outbcast> ] [ <eth_outmcast> ] [ <eth_outucast> ] [ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ]
[ <eth_in_ifdown_drops> ] [ <eth_bad_eth> ] [ <eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [
<eth_underrun> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [
<eth_resets> ] [ <eth_babbles> ] [ <eth_latecoll> ] [ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ]
[ <eth_outpause> ] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ]
[ <eth_single_coll> ] [ <eth_multi_coll> ] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [
<eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ]
[ <eth_inb64> ] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ]
[ <eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ]
[ <eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [
<eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ]
[ <eth_cos2_outlost> ] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [
<eth_cos6_outlost> ] [ <eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [ <eth_fcoe_in_octets> ] [
<eth_fcoe_out_pkts> ] [ <eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [ <eth_nfcoe_in_octets> ] [
<eth_nfcoe_out_pkts> ] [ <eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [ <eth_eee_arcv_lpi_msec> ]
[ <eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [ <eth_phy_ber_count> ] [
<eth_phy_errblks_count> ] ]
```

### Syntax Description

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
<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_ucast_pkts</i>	(Optional) input unicasts
<i>rx_mcast_pkts</i>	(Optional) input multicasts
<i>rx_bcast_pkts</i>	(Optional) input broadcasts
<i>rx_octets</i>	(Optional) input bytes
<i>tx_ucast_pkts</i>	(Optional) output unicasts
<i>tx_mcast_pkts</i>	(Optional) output multicasts
<i>tx_bcast_pkts</i>	(Optional) output broadcasts
<i>tx_octets</i>	(Optional) output bytes
<i>rxtx_pkts_64octets</i>	(Optional) all pkts between 0 and 64 bytes
<i>rxtx_pkts_65_127octets</i>	(Optional) all pkts between 65 and 127 bytes
<i>rxtx_pkts_128_255octets</i>	(Optional) all pkts between 128 and 255 bytes
<i>rxtx_pkts_256_511octets</i>	(Optional) all pkts between 256 and 511 bytes
<i>rxtx_pkts_512_1023octets</i>	(Optional) all pkts between 512 and 1023 bytes
<i>rxtx_pkts_1024_1518octets</i>	(Optional) all pkts between 1024 and 1518 bytes
<i>rxtx_pkts_1519_1548octets</i>	(Optional) all pkts between 1519 and 1548 bytes
<i>rx_trunk_frames</i>	(Optional) input trunk pkts
<i>tx_trunk_frames</i>	(Optional) output trunk pkts
<i>rx_drop_events</i>	(Optional) dropped pkts
<i>rxtx_giants</i>	(Optional) giants
<i>eth_load_intervall_rx</i>	(Optional) interval 1 timer value in sec

<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes

<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched

<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles



<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes

<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter

---

*eth\_phy\_errblks\_count* (Optional) Errored blocks counter

---

**Command Mode**

- /exec

## show interface counters errors

```
show interface <ifeth_ctr_errs> counters errors [ snmp ] [ __readonly__ TABLE_interface <interface> [
<eth_align_err> ] [ <eth_fcs_err> ] [ <eth_xmit_err> ] [ <eth_rcv_err> ] [ <eth_undersize> ] [ <eth_outdisc>
] [ <eth_single_col> ] [ <eth_multi_col> ] [ <eth_late_col> ] [ <eth_excess_col> ] [ <eth_carri_sen> ] [
<eth_runts> ] [ <eth_giants> ] [ <eth_sqetest_err> ] [ <eth_deferred_tx> ] [ <eth_inmactx_err> ] [
<eth_inmacrx_err> ] [ <eth_symbol_err> ] ]
```

### Syntax Description

#### 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

---

*eth\_sqetest\_err* (Optional) SQETest error

---

*eth\_deferred\_tx* (Optional) Deferred tx

---

*eth\_inmactx\_err* (Optional) In MAC tx

---

*eth\_inmacrx\_err* (Optional) In MAC rx

---

*eth\_symbol\_err* (Optional) Symbol error

---

### Command Mode

- /exec

## show interface counters errors

```
show interface counters errors [ module <module> ] [ __readonly__ TABLE_interface <interface> [
<eth_align_err> ] [ <eth_fcs_err> ] [ <eth_xmit_err> ] [ <eth_rcv_err> ] [ <eth_undersize> ] [ <eth_outdisc>
] [ <eth_single_col> ] [ <eth_multi_col> ] [ <eth_late_col> ] [ <eth_excess_col> ] [ <eth_carri_sen> ] [
<eth_runts> ] [ <eth_giants> ] [ <eth_sqetest_err> ] [ <eth_deferred_tx> ] [ <eth_inmacrx_err> ] [
<eth_inmactx_err> ] [ <eth_symbol_err> ] ]
```

### Syntax Description

#### 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
<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

---

*eth\_sqetest\_err* (Optional) SQETest error

---

*eth\_deferred\_tx* (Optional) Deferred tx

---

*eth\_inmacrx\_err* (Optional) In MAC rx

---

*eth\_inmactx\_err* (Optional) In MAC tx

---

*eth\_symbol\_err* (Optional) Symbol error

---

### Command Mode

- /exec

# show interface counters errors

show interface <loop\_ctr\_errs> counters errors

## Syntax Description

---

### 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 counters snmp [ module <module> ] [ __readonly__ { TABLE_rx_counters <interface>
<eth_inpkts> [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [ <eth_l3in_ucastpkts>
] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> } } { TABLE_tx_counters <interface> <eth_outpkts> [
<eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> } } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
snmp	Show SNMP MIB values
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts

---

*eth\_l3out\_bytes* (Optional) L3 Tx bytes

---

*eth\_l3out\_ucastpkts* (Optional) L3 Tx Unicast pkts

---

*eth\_l3out\_mcastpkts* (Optional) L3 Tx Multicast pkts

---

*eth\_l3out\_bcastpkts* (Optional) L3 Tx Broadcast pkts

---

**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

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	
<i>TABLE_interface</i>	(Optional) show interface	
<i>eth_ucast_supp</i>	(Optional) Unicast suppression percentage	
<i>eth_mcast_supp</i>	(Optional) Multicast suppression percentage	
<i>eth_bcast_supp</i>	(Optional) Broadcast suppression percentage	
<i>eth_total_supp</i>	(Optional) Total discarded due to suppression	
<i>supp_action</i>	(Optional) Action to be taken on suppression	

## Command Mode

- /exec

## show interface counters storm-control

```
show interface counters storm-control [ module <module> ] [ __readonly__ TABLE_interface <interface>
<eth_ucast_supp> <eth_mcast_supp> <eth_bcast_supp> <eth_total_supp> <supp_action> ]
```

### Syntax Description

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	
<i>TABLE_interface</i>	(Optional) show interface	
<i>eth_ucast_supp</i>	(Optional) Unicast suppression percentage	
<i>eth_mcast_supp</i>	(Optional) Multicast suppression percentage	
<i>eth_bcast_supp</i>	(Optional) Broadcast suppression percentage	
<i>eth_total_supp</i>	(Optional) Total discarded due to suppression	
<i>supp_action</i>	(Optional) Action to be taken on suppression	

### Command Mode

- /exec

# show interface counters table

show interface counters table [ verbose ]

## Syntax Description

Syntax	Description
show	Show running system information
interface	Show interface status and information
counters	Show interface counters
table	format counters in a table
verbose	(Optional) show errors counts after counters

## Command Mode

- /exec

# show interface counters trunk

```
show interface <ifeth_ctr_trnk> counters trunk [ __readonly__ TABLE_interface <interface> [
<eth_trunk_frames_tx> ] [ <eth_trunk_frames_rx> ] [ <eth_wrong_encap> ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
interface		Show interface status and information
<i>ifeth_ctr_trnk</i>		Enter interface type and number in module/slot format
counters		Show interface counters
trunk		Show interface trunk counters
<i>__readonly__</i>		(Optional) Read Only
<i>interface</i>		(Optional) Interface index
<i>TABLE_interface</i>		(Optional) show interface
<i>eth_trunk_frames_tx</i>		(Optional) Trunk frame transmitted
<i>eth_trunk_frames_rx</i>		(Optional) Trunk frames received
<i>eth_wrong_encap</i>		(Optional) Wrong encapsulation

## Command Mode

- /exec

# show interface debounce

```
show interface debounce [ __readonly__ TABLE_interface <interface> <debounce> <debounce_val> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
interface		Show interface status and information
debounce		Show interface debounce time information
__readonly__	(Optional)	Read Only
<i>interface</i>	(Optional)	Interface index
TABLE_interface	(Optional)	show interface
<i>debounce</i>	(Optional)	Debounce time
<i>debounce_val</i>	(Optional)	Value(ms)

## Command Mode

- /exec

# show interface debounce

```
show interface <ifeth_dbnc> debounce [ __readonly__ TABLE_interface <interface> <debounce>
<debounce_val> ]
```

## Syntax Description

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
<i>TABLE_interface</i>		(Optional) show interface
<i>debounce</i>		(Optional) Debounce time
<i>debounce_val</i>		(Optional) Value(ms)

## Command Mode

- /exec



# show interface description

```
show interface description [ __readonly__ TABLE_interface <interface> [ <state> ] [ <type> ] [ <speed> ] [ <protocol> ] [ <desc> ] ]
```

## Syntax Description

### Syntax Description

<i>show</i>	Show running system information
<i>interface</i>	Show interface status and information
<i>description</i>	Show interface description
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(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

Syntax Description		
show	Show running system information	
interface	Show interface status and information	
<i>ifid_mgmt_loop</i>	Enter interface type and number in module/slot format	
description	Show interface description	
<i>__readonly__</i>	(Optional) Read Only	
<i>interface</i>	(Optional) Interface index	
<i>TABLE_interface</i>	(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

Syntax Description		
	show	Show running system information
	interface	Show interface status and information
	<i>ifid_eth</i>	Enter interface type and number in module/slot format
	description	Show interface description
	<i>__readonly__</i>	(Optional) Read Only
	<i>interface</i>	(Optional) Interface index
	<i>TABLE_interface</i>	(Optional) show interface
	<i>state</i>	(Optional) Interface state
	<i>type</i>	(Optional) Type
	<i>speed</i>	(Optional) Speed
	<i>protocol</i>	(Optional) Protocol
	<i>desc</i>	(Optional) Description

## Command Mode

- /exec

# show interface description

```
show interface <iftun_desc> description [ __readonly__ TABLE_interface <interface> <state> <protocol>
<desc> ]
```

## Syntax Description

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
<i>__readonly__</i>		(Optional) Read Only
<i>interface</i>		(Optional) Interface index
<i>TABLE_interface</i>		(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

Syntax Description		
show	Show running system information	
interface	Show interface status and information	
<i>ifrange</i>	Enter tunnel interface number	
description	Show interface description	
<i>__readonly__</i>	(Optional) Read Only	
<i>interface</i>	(Optional) Interface index	
<i>TABLE_interface</i>	(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

Syntax Description		
	show	Show running system information
	interface	Show interface status and information
	<i>ifrange</i>	Enter tunnel interface number
	description	Show interface description
	<i>__readonly__</i>	(Optional) Read Only
	<i>interface</i>	(Optional) Interface index
	TABLE_interface	(Optional) show interface
	<i>state</i>	(Optional) Interface state
	<i>protocol</i>	(Optional) Protocol
	<i>desc</i>	(Optional) Description

## Command Mode

- /exec

# show interface description

```
show interface <ifid> description [ __readonly__ <start> <if_index> <LINE> ]
```

## Syntax Description

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
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>if_index</i>	(Optional) Interface
<i>LINE</i>	(Optional) Description

## Command Mode

- /exec

# show interface fcoe

```
show interface <ifeth_fcoe> fcoe [ __readonly__ TABLE_interface <interface> [ <state> ] [ <vfc> ] [ <vfc_bound> ] ]
```

## Syntax Description

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 flowcontrol

```
show interface flowcontrol [ module <module> ] [ __readonly__ TABLE_interface <interface> <send_admin>
<send_oper> <recv_admin> <recv_oper> <rxpause> <txpause> ]
```

## Syntax Description

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

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

## Syntax Description

Syntax	Description
show	Show running system information
interface	Interface
hardware-mappings	Show hardware port number and unit information for interfaces

## Command Mode

- /exec

# show interface mac-address

show interface mac-address [ *\_\_readonly\_\_* *TABLE\_interface* <interface> <address> <bia\_address> ]

## Syntax Description

Syntax Description		
show		Show running system information
interface		Show interface status and information
mac-address		Show interface MAC address
<i>__readonly__</i>	(Optional)	Read Only
<i>interface</i>	(Optional)	Interface index
<i>TABLE_interface</i>	(Optional)	show interface
<i>address</i>	(Optional)	MAC Address
<i>bia_address</i>	(Optional)	Burn-In MAC Address

## Command Mode

- /exec

# show interface mac-address

```
show interface <ifid_macaddr> mac-address [ __readonly__ TABLE_interface <interface> <address> ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	interface	Show interface status and information
	<i>ifid_macaddr</i>	Enter interface type and number in module/slot format
	mac-address	Show interface MAC address
	__readonly__	(Optional) Read Only
	<i>interface</i>	(Optional) Interface index
	TABLE_interface	(Optional) show interface
	<i>address</i>	(Optional) MAC Address

## Command Mode

- /exec

# show interface priority-flow-control

```
show interface [ <if_list> ] priority-flow-control [ detail ] [ module <module> ] [ __readonly__ [
TABLE_pfc_interface <if_name_str> <admin> <oper> <cos-list> <rx-stats> <tx-stats> <rx_ppp_cos_0>
<tx_ppp_cos_0> <ppp_cos_1> <ppp_cos_2> <ppp_cos_3> <ppp_cos_4> <ppp_cos_5> <ppp_cos_6>
<ppp_cos_7> ] ]
```

## Syntax Description

### 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
<i>__readonly__</i>	(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

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 snmp-ifindex

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

## Syntax Description

Syntax Description		
show	Show running system information	
interface	Show interface status and information	
snmp-ifindex	Show snmp ifindex list	
<i>__readonly__</i>	(Optional) Read Only	
<i>interface</i>	(Optional) Interface index	
<i>TABLE_interface</i>	(Optional) show interface	
<i>snmp-ifindex</i>	(Optional) If Index in Hex	
<i>ifindex-dec</i>	(Optional) If Index in Decimal	

## Command Mode

- /exec



# show interface status

```
show interface status [ down | inactive | module <module> | up | auto-column ] [ __readonly__ TABLE_interface
<interface> [ <name> ] <state> <vlan> <duplex> <speed> [ <type> ] ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
interface	Show interface status and information	
status	Show interface line status	
down	(Optional) Show interface down state	
inactive	(Optional) Show interface inactive state	
auto-column	(Optional) Show interface status auto-column adjusted	
module	(Optional) Limit display to interfaces on module	
<i>module</i>	(Optional) Enter module number	
up	(Optional) Show interface up state	
__readonly__	(Optional) Read Only	
<i>interface</i>	(Optional) Interface index	
TABLE_interface	(Optional) show interface	
<i>name</i>	(Optional) Name	
<i>state</i>	(Optional) Interface state	
<i>vlan</i>	(Optional) Vlan	
<i>duplex</i>	(Optional) Duplex	
<i>speed</i>	(Optional) Speed	
<i>type</i>	(Optional) Type	

## Command Mode

- /exec

# show interface status

```
show interface <ifid_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [
<vlan> ] [ <duplex> ] [ <speed> ] [ <type> ] ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	interface	Show interface status and information
	<i>ifid_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 <ifeth_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [
<vlan> ] <duplex> <speed> [ <type> ] ]
```

## Syntax Description

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	
<i>TABLE_interface</i>	(Optional) show interface	
<i>name</i>	(Optional) Name	
<i>state</i>	(Optional) Interface state	
<i>vlan</i>	(Optional) Vlan	
<i>duplex</i>	(Optional) Duplex	
<i>speed</i>	(Optional) Speed	
<i>type</i>	(Optional) Type	

## Command Mode

- /exec

# show interface status

```
show interface <iftun_status> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name>
<state> <state_rsn> <state_rsn_desc> ]
```

## Syntax Description

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

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

Syntax Description		
	show	Show running system information
	interface	Show interface status and information
	<i>ifrange</i>	Enter tunnel interface number
	status	Show interface line status
	err-disabled	(Optional) Show interface error disabled state
	__readonly__	(Optional) Read Only
	<i>interface</i>	(Optional) Interface index
	TABLE_interface	(Optional) show interface
	<i>name</i>	(Optional) Name
	<i>state</i>	(Optional) Interface state
	<i>state_rsn</i>	(Optional) Interface state reason
	<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
	<i>admin_state</i>	(Optional) admin state

## Command Mode

- /exec

# show interface status

```
show interface <ifid> status [ __readonly__ <start> <if_index> <admin-state> <line-proto> ]
```

## Syntax Description

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 err-disabled

```
show interface status err-disabled [ __readonly__ TABLE_interface <interface> [ <name> ] <state> [
<state_rsn> ] [ <state_rsn_desc> ] ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
interface	Show interface status and information	
status	Show interface line status	
err-disabled	Show interface error disabled state	
<i>__readonly__</i>	(Optional) Read Only	
<i>interface</i>	(Optional) Interface index	
<i>TABLE_interface</i>	(Optional) show interface	
<i>name</i>	(Optional) Name	
<i>state</i>	(Optional) Interface state	
<i>state_rsn</i>	(Optional) Interface state reason	
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed	

## Command Mode

- /exec



## show interface status err-disabled

```
show interface <ifeth_errdis> status err-disabled [ __readonly__ TABLE_interface <interface> [ <name> ]
<state> [ <state_rsn> ] [ <state_rsn_desc> ] ]
```

### Syntax Description

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	
<i>TABLE_interface</i>	(Optional) show interface	
<i>name</i>	(Optional) Name	
<i>state</i>	(Optional) Interface state	
<i>state_rsn</i>	(Optional) Interface state reason	
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed	

### Command Mode

- /exec

## show interface status err-vlans

```
show interface status err-vlans [ __readonly__ TABLE_interface <interface> [ <name> ] { TABLE_vlan
<err_vlan> <err_vlan_status> <err_vlan_syserr> } ]
```

### Syntax Description

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
<i>TABLE_interface</i>		(Optional) show interface
<i>name</i>		(Optional) Name
<i>TABLE_vlan</i>		(Optional) show vlan
<i>err_vlan</i>		(Optional) Errored vlan
<i>err_vlan_status</i>		(Optional) Errored vlan status
<i>err_vlan_syserr</i>		(Optional) Errored vlan syserr name

### Command Mode

- /exec

## show interface status 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

Syntax Description		
show	Show running system information	
interface	Show interface status and information	
<i>ifeth_errvlans</i>	Enter interface type and number in module/slot format	
status	Show interface line status	
err-vlans	Show errored vlans	
<i>__readonly__</i>	(Optional) Read Only	
<i>interface</i>	(Optional) Interface index	
<i>TABLE_interface</i>	(Optional) show interface	
<i>name</i>	(Optional) Name	
<i>TABLE_vlan</i>	(Optional) show vlan	
<i>err_vlan</i>	(Optional) Errored vlan	
<i>err_vlan_status</i>	(Optional) Errored vlan status	
<i>err_vlan_syserr</i>	(Optional) Errored vlan syserr name	

### Command Mode

- /exec

## show interface switchport

```
show interface switchport [ __readonly__ TABLE_interface <interface> <switchport> [ <switchport_monitor>
] [ <switchport_isolated> ] [ <switchport_block_unicast> ] [ <switchport_block_multicast> ] [ <oper_mode>
] [ <access_vlan> ] [ <access_vlan_name> ] [ <native_vlan> ] [ <native_vlan_name> ] [ <trunk_vlans> ] [
<fabricpath_topologies> ] [ <pruning_vlans> ] [ <admin_pvlan_pri_assoc> ] [ <admin_pvlan_sec_assoc> ]
[ <admin_pvlan_pri_mapping> ] [ <admin_pvlan_sec_mapping> ] [ <admin_pvlan_trunk_native> ] [
<admin_pvlan_trunk_encap> ] [ <admin_pvlan_trunk_normal> ] [ <admin_pvlan_trunk_private> ] [
<oper_pvlan> ] [ <autostate_mode> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
interface	Show interface status and information
switchport	Show interface switchport information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>switchport</i>	(Optional) Switchport enabled
<i>switchport_monitor</i>	(Optional) Switchport monitor enabled
<i>switchport_isolated</i>	(Optional) Switchport isolated enabled
<i>switchport_block_unicast</i>	(Optional) Switchport monitor enabled
<i>switchport_block_multicast</i>	(Optional) Switchport monitor enabled
<i>oper_mode</i>	(Optional) Operational mode
<i>access_vlan</i>	(Optional) Access mode VLAN
<i>access_vlan_name</i>	(Optional) Access mode VLAN name
<i>native_vlan</i>	(Optional) Trunking native mode VLAN
<i>native_vlan_name</i>	(Optional) Trunking native mode VLAN name
<i>trunk_vlans</i>	(Optional) Trunking VLANs Allowed
<i>fabricpath_topologies</i>	(Optional) FabricPath Topologies Allowed
<i>pruning_vlans</i>	(Optional) Pruning eligible VLANs
<i>admin_pvlan_pri_assoc</i>	(Optional) Administrative private-vlan primary host-association
<i>admin_pvlan_sec_assoc</i>	(Optional) Administrative private-vlan secondary host-association

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<i>admin_pvlan_pri_mapping</i>	(Optional) Administrative private-vlan primary mapping
<i>admin_pvlan_sec_mapping</i>	(Optional) Administrative private-vlan secondary mapping
<i>admin_pvlan_trunk_native</i>	(Optional) Administrative private-vlan trunk native VLAN
<i>admin_pvlan_trunk_encap</i>	(Optional) Administrative private-vlan trunk encapsulation
<i>admin_pvlan_trunk_normal</i>	(Optional) Administrative private-vlan trunk normal VLANs
<i>admin_pvlan_trunk_private</i>	(Optional) Administrative private-vlan trunk private VLANs
<i>oper_pvlan</i>	(Optional) Operational private-vlan
<i>autostate_mode</i>	(Optional) SVI Autostate Exclude Info

---

**Command Mode**

- /exec

## show interface switchport

```
show interface <ifeth_swch> switchport [ __readonly__ TABLE_interface <interface> <switchport> [
<switchport_monitor> ] [ <switchport_isolated> ] [ <switchport_block_unicast> ] [
<switchport_block_multicast> ] [ <oper_mode> ] [ <access_vlan> ] [ <access_vlan_name> ] [ <native_vlan>
] [ <native_vlan_name> ] [ <trunk_vlans> ] [ <fabricpath_topologies> ] [ <pruning_vlans> ] [
<admin_pvlan_pri_assoc> ] [ <admin_pvlan_sec_assoc> ] [ <admin_pvlan_pri_mapping> ] [
<admin_pvlan_sec_mapping> ] [ <admin_pvlan_trunk_native> ] [ <admin_pvlan_trunk_encap> ] [
<admin_pvlan_trunk_normal> ] [ <admin_pvlan_trunk_private> ] [ <oper_pvlan> ] [ <autostate_mode> ] ]
```

### Syntax Description

#### 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
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>switchport</i>	(Optional) Switchport enabled
<i>switchport_monitor</i>	(Optional) Switchport monitor enabled
<i>switchport_isolated</i>	(Optional) Switchport isolated enabled
<i>switchport_block_unicast</i>	(Optional) Switchport monitor enabled
<i>switchport_block_multicast</i>	(Optional) Switchport monitor enabled
<i>oper_mode</i>	(Optional) Operational mode
<i>access_vlan</i>	(Optional) Access mode VLAN
<i>access_vlan_name</i>	(Optional) Access mode VLAN name
<i>native_vlan</i>	(Optional) Trunking native mode VLAN
<i>native_vlan_name</i>	(Optional) Trunking native mode VLAN name
<i>trunk_vlans</i>	(Optional) Trunking VLANs Allowed
<i>fabricpath_topologies</i>	(Optional) FabricPath Topologies Allowed
<i>pruning_vlans</i>	(Optional) Pruning eligible VLANs
<i>admin_pvlan_pri_assoc</i>	(Optional) Administrative private-vlan primary host-association

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<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 transceiver

```
show interface transceiver [ calibrations | details | inventory ] [ __readonly__ TABLE_interface <interface>
[ <sfp> ] [ <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_range> ] [ <ciscoid> ] [ <ciscoid_1> ] [ <cisco_part_number> ] [ <cisco_product_id> ] [ <cisco_vendor_id> ]
] [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ] [ <volt_offset> ] [ <curr_slope> ] [ <curr_offset> ] [
<tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ] [ <rx_pwr_2> ] [ <rx_pwr_1> ] [
<rx_pwr_0> ] [ TABLE_lane [ <lane_number> ] [ <temperature> ] [ <temp_flag> ] [ <temp_alm_hi> ] [
<temp_alm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag> ] [ <volt_alm_hi> ] [
<volt_alm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag> ] [ <current_alm_hi> ] [
<current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [ <tx_pwr_flag> ] [
<tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ] [ <rx_pwr> ] [
<rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [ <rx_pwr_warn_lo> ]
[ <xmit_faults> ] ] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
interface	Show interface status and information
transceiver	Show interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
inventory	(Optional) Show interface transceiver inventory
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>type</i>	(Optional) type
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_9</i>	(Optional) Link length supported for 9/125um fiber



<i>len_50</i>	(Optional) Link length supported for 50/125um fiber
<i>len_625</i>	(Optional) Link length supported for 62.5/125um fiber
<i>len_cu</i>	(Optional) Link length supported for copper
<i>len_50_OM3</i>	(Optional) Link length supported for 50/125um fiber in m
<i>txcvr_type</i>	(Optional)
<i>connector_type</i>	(Optional)
<i>bit_encoding</i>	(Optional)
<i>protocol_type</i>	(Optional)
<i>10gbe_code</i>	(Optional)
<i>fiber_type_byte0</i>	(Optional)
<i>fiber_type_byte1</i>	(Optional)
<i>tx_range</i>	(Optional)
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>cisco_part_number</i>	(Optional) Cisco part number
<i>cisco_product_id</i>	(Optional) Cisco product identifier
<i>cisco_vendor_id</i>	(Optional) Cisco vendor identifier
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1

<i>rx_pwr_0</i>	(Optional) Rx power 0
TABLE_lane	(Optional) show lane
<i>lane_number</i>	(Optional) Lane number
<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_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_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

---

**Command Mode**

- /exec

## show interface transceiver

```
show interface <ifid_transceiver> transceiver [ calibrations | details | sprom ] [ __readonly__ TABLE_interface
<interface> [ <sfp> ] [ <type> ] [ <name> ] [ <partnum> ] [ <rev> ] [ <serialnum> ] [ <nom_bitrate> ] [
<len_9> ] [ <len_9_2> ] [ <len_50> ] [ <len_625> ] [ <len_cu> ] [ <len_50_OM3> ] [ <txcvr_type> ] [
<connector_type> ] [ <bit_encoding> ] [ <protocol_type> ] [ <10gbe_code> ] [ <fiber_type_byte0> ] [
<fiber_type_byte1> ] [ <tx_range> ] [ <ciscoid> ] [ <ciscoid_1> ] [ <cisco_part_number> ] [ <cisco_product_id> ]
] [ <cisco_vendor_id> ] [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ] [ <volt_offset> ] [ <curr_slope> ]
] [ <curr_offset> ] [ <tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ] [ <rx_pwr_2> ] [
<rx_pwr_1> ] [ <rx_pwr_0> ] [ TABLE_lane [ <lane_number> ] [ <temperature> ] [ <temp_flag> ] [
<temp_alm_hi> ] [ <temp_alm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag> ]
] [ <volt_alm_hi> ] [ <volt_alm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag> ]
] [ <current_alm_hi> ] [ <current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [
<tx_pwr_flag> ] [ <tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ]
] [ <rx_pwr> ] [ <rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [
<rx_pwr_warn_lo> ] [ <xmit_faults> ] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_transceiver</i>	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
sprom	(Optional) Show interface transceiver sprom information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>type</i>	(Optional) type
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec

<i>len_9</i>	(Optional) Link length supported for 9/125um fiber in Km
<i>len_9_2</i>	(Optional) Link length supported for 9/125um fiber in m
<i>len_50</i>	(Optional) Link length supported for 50/125um fiber in m
<i>len_625</i>	(Optional) Link length supported for 62.5/125um fiber in m
<i>len_cu</i>	(Optional) Link length supported for copper sfp in m
<i>len_50_OM3</i>	(Optional) Link length supported for 50/125um fiber in m
<i>txcvr_type</i>	(Optional)
<i>connector_type</i>	(Optional)
<i>bit_encoding</i>	(Optional)
<i>protocol_type</i>	(Optional)
<i>10gbe_code</i>	(Optional)
<i>fiber_type_byte0</i>	(Optional)
<i>fiber_type_byte1</i>	(Optional)
<i>tx_range</i>	(Optional)
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>cisco_part_number</i>	(Optional) Cisco part number
<i>cisco_product_id</i>	(Optional) Cisco product identifier
<i>cisco_vendor_id</i>	(Optional) Cisco vendor identifier
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3

<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0
TABLE_lane	(Optional) show lane
<i>lane_number</i>	(Optional) Lane number
<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_alarm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alarm_lo</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi</i>	(Optional) Temperature Warning High
<i>temp_warn_lo</i>	(Optional) Temperature Warning Low
<i>voltage</i>	(Optional) Voltage
<i>volt_flag</i>	(Optional) Voltage Flag
<i>volt_alarm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alarm_lo</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi</i>	(Optional) Voltage Warning High
<i>volt_warn_lo</i>	(Optional) Voltage Warning Low
<i>current</i>	(Optional) Current
<i>current_flag</i>	(Optional) Current Flag
<i>current_alarm_hi</i>	(Optional) Current Alarm High
<i>current_alarm_lo</i>	(Optional) Current Alarm Low
<i>current_warn_hi</i>	(Optional) Current Warning High
<i>current_warn_lo</i>	(Optional) Current Warning Low
<i>tx_pwr</i>	(Optional) Tx Power
<i>tx_pwr_flag</i>	(Optional) Tx Power Flag
<i>tx_pwr_alarm_hi</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alarm_lo</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo</i>	(Optional) Tx Power Warning Low

---

<i>rx_pwr</i>	(Optional) Rx Power
<i>rx_pwr_flag</i>	(Optional) Rx Power Flag
<i>rx_pwr_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

---

**Command Mode**

- /exec

## show interface transceiver fex-fabric

```
show interface transceiver fex-fabric [ calibrations | details ] [ __readonly__ TABLE_interface <interface> [
<sfp> ] [ <type> ] [ <name> ] [ <partnum> ] [ <rev> ] [ <serialnum> ] [ <nom_bitrate> ] [ <len_50> ] [
<len_625> ] [ <ciscoid> ] [ <ciscoid_1> ] [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ] [ <volt_offset> ]
] [ <curr_slope> ] [ <curr_offset> ] [ <tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ]
] [ <rx_pwr_2> ] [ <rx_pwr_1> ] [ <rx_pwr_0> ] [ <lane_number> ] [ <temperature> ] [ <temp_flag> ] [
<temp_alm_hi> ] [ <temp_alm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag> ]
] [ <volt_alm_hi> ] [ <volt_alm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag> ]
] [ <current_alm_hi> ] [ <current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [
<tx_pwr_flag> ] [ <tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ]
] [ <rx_pwr> ] [ <rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [
<rx_pwr_warn_lo> ] [ <xmit_faults> ] ]
```

### Syntax Description

#### 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
details	(Optional) Show interface transceiver detail information
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
sfp	(Optional) sfp
type	(Optional) type
name	(Optional) Name
partnum	(Optional) part number
rev	(Optional) revision
serialnum	(Optional) serial number
nom_bitrate	(Optional) Nominal bit rate in MBits/sec
len_50	(Optional) Link length supported for 50/125mm fiber
len_625	(Optional) Link length supported for 62.5/125mm fiber
ciscoid	(Optional) Cisco extended id



<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0
<i>lane_number</i>	(Optional) Lane number
<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_alarm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alarm_lo</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi</i>	(Optional) Temperature Warning High
<i>temp_warn_lo</i>	(Optional) Temperature Warning Low
<i>voltage</i>	(Optional) Voltage
<i>volt_flag</i>	(Optional) Voltage Flag
<i>volt_alarm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alarm_lo</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi</i>	(Optional) Voltage Warning High
<i>volt_warn_lo</i>	(Optional) Voltage Warning Low
<i>current</i>	(Optional) Current
<i>current_flag</i>	(Optional) Current Flag

---

<i>current_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

---

**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

#### 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
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_50</i>	(Optional) Link length supported for 50/125mm fiber
<i>len_625</i>	(Optional) Link length supported for 62.5/125mm fiber
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset

<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0

**Command Mode**

- /exec

# show interface trunk

```
show interface trunk [ module <module> | vlan <vlan_id> | fex <fex_num> ] [ __readonly__ { TABLE_interface
<interface> <native> <status> <portchannel> } { TABLE_allowed_vlans <interface> <allowedvlans> } {
TABLE_errored_vlans <interface> <erroredvlans> } { TABLE_stp_forward <interface> <stpfwd_vlans> }
{ TABLE_fabricpath_vlans <interface> <fabricpath_vlans> } { TABLE_vtp_pruning <interface>
<vtppruning_vlans> } ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
interface	Show interface status and information	
trunk	Show interface trunk information	
module	(Optional) Limit display to interfaces on module	
<i>module</i>	(Optional) Enter module number	
fex	(Optional) Limit display to interfaces on a FEX	
<i>fex_num</i>	(Optional) Enter FEX number	
vlan	(Optional) Show per vlan information for trunk	
<i>vlan_id</i>	(Optional) Enter vlan range	
<i>interface</i>	(Optional) Interface index	
<i>__readonly__</i>	(Optional) Read Only	
TABLE_interface	(Optional) show interface	
TABLE_allowed_vlans	(Optional) show allowed vlans	
TABLE_errored_vlans	(Optional) show errored vlans	
TABLE_stp_forward	(Optional) show STP forwarding VLANs	
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs	
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs	
<i>status</i>	(Optional) Status	
<i>native</i>	(Optional) Native VLAN	
<i>portchannel</i>	(Optional) Port Channel	
<i>allowedvlans</i>	(Optional) VLANs allowed and active in management domain	
<i>erroredvlans</i>	(Optional) Errored VLANs	

---

<i>stp fwd_vlans</i>	(Optional) STP Forwarding VLANs
<i>fabricpath_vlans</i>	(Optional) FabricPath VLANs
<i>vtp pruning_vlans</i>	(Optional) VTP Pruning VLANs

---

**Command Mode**

- /exec

# show interface trunk

```
show interface <ifeth_trnk> trunk [ __readonly__ { TABLE_interface <interface> <native> <status>
<portchannel> } { TABLE_allowed_vlans <interface> <allowedvlans> } { TABLE_errored_vlans <interface>
<erroredvlans> } { TABLE_stp_forward <interface> <stpfwd_vlans> } { TABLE_fabricpath_vlans <interface>
<fabricpath_vlans> } { TABLE_vtp_pruning <interface> <vtppruning_vlans> } ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
interface	Show interface status and information	
<i>ifeth_trnk</i>	Enter interface type and number in module/slot format	
trunk	Show interface trunk information	
<i>__readonly__</i>	(Optional) Read Only	
<i>interface</i>	(Optional) Interface index	
TABLE_interface	(Optional) show interface	
TABLE_allowed_vlans	(Optional) show allowed vlans	
TABLE_errored_vlans	(Optional) show errored vlans	
TABLE_stp_forward	(Optional) show STP forwarding VLANs	
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs	
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs	
<i>status</i>	(Optional) Status	
<i>native</i>	(Optional) Native VLAN	
<i>portchannel</i>	(Optional) Port Channel	
<i>allowedvlans</i>	(Optional) VLANs allowed and active in management domain	
<i>erroredvlans</i>	(Optional) Errored VLANs	
<i>stpfwd_vlans</i>	(Optional) STP Forwarding VLANs	
<i>fabricpath_vlans</i>	(Optional) FabricPath VLANs	
<i>vtppruning_vlans</i>	(Optional) VTP Pruning VLANs	

## Command Mode

- /exec

# show interface untagged-cos

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

## Syntax Description

Syntax Description		
show	Show running system information	
interface	Show interface status and information	
untagged-cos	Show interface untagged CoS information	
module	(Optional) Limit display to interfaces on module	
<i>mod_num</i>	(Optional) Enter module number	
<i>__readonly__</i>	(Optional)	
<i>interface</i>	(Optional) Interface index	
<i>ucos-value</i>	(Optional) COS value	

## Command Mode

- /exec



# show inventory

```
show inventory [ chassis | fans | power_supply | module [ <module> ] | <s0> [ <santa-cruz-range> ] | all ] [
__readonly__ TABLE_inv <name> <desc> <productid> <vendorid> <serialnum> ]
```

## Syntax Description

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
<i>__readonly__</i>		(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)
<i>global_punt_byte_cnt</i>	(Optional)
<i>global_glean_pkt_cnt</i>	(Optional)
<i>global_glean_byte_cnt</i>	(Optional)
<i>glean_pkt_cnt</i>	(Optional)
<i>glean_byte_cnt</i>	(Optional)
<i>normal_pkt_cnt</i>	(Optional)
<i>normal_byte_cnt</i>	(Optional)
<i>last_updated</i>	(Optional)
<i>count-static</i>	(Optional)
<i>count-dynamic</i>	(Optional)
<i>count-others</i>	(Optional)
<i>count-throttle</i>	(Optional)
<i>count-total</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
<i>count</i>	(Optional)
TABLE_adj	(Optional)
<i>intf-out</i>	(Optional)
<i>phy-intf</i>	(Optional)
<i>ip-addr-out</i>	(Optional)
<i>mac</i>	(Optional)
<i>pref</i>	(Optional)
<i>owner</i>	(Optional)
<i>pkt-count</i>	(Optional)
<i>byte-count</i>	(Optional)
<i>is-best</i>	(Optional)
<i>is-thrtld</i>	(Optional)

**Command Mode**

- /exec

# show ip amt internal pim-cache

```
show ip amt internal pim-cache [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
amt		AMT show commands
internal		Commands for internal use
pim-cache		Show PIM client cache
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

## Command Mode

- /exec

## show ip 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

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
<i>__readonly__</i>		(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

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

### 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
<i>__readonly__</i>	(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)



---

*group* (Optional)

---

*rexp* (Optional)

---

**Command Mode**

- /exec

## show ip arp

```
show ip arp [ [ [ <ip-address> | [ sync-entries | fhrp-non-active-learn ] [ detail ] | static | summary | [ summary
] <interface> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ] [ __readonly__ TABLE_vrf <vrf-name-out>
[ <cnt-resolved> ] [ <cnt-incomplete> ] [ <cnt-thrtld-incomplete> ] [ <cnt-unknown> ] [ <cnt-total> ] [
TABLE_adj <intf-out> <ip-addr-out> [ <time-stamp> ] <mac> [ <phy-intf> ] [ <unknown> ] [ <incomplete>
] ] ]
```

### Syntax Description

#### 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
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>cnt-resolved</i>	(Optional)
<i>cnt-incomplete</i>	(Optional)
<i>cnt-thrtld-incomplete</i>	(Optional)
<i>cnt-unknown</i>	(Optional)
<i>cnt-total</i>	(Optional)

<i>TABLE_adj</i>	(Optional)
<i>intf-out</i>	(Optional)
<i>ip-addr-out</i>	(Optional)
<i>time-stamp</i>	(Optional)
<i>mac</i>	(Optional)
<i>phy-intf</i>	(Optional)
<i>unknown</i>	(Optional)
<i>incomplete</i>	(Optional)

**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

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)	
<i>ip_arp_anycast_feature</i>	(Optional)	
<i>ip_arp_anycast_mode</i>	(Optional)	

### Command Mode

- /exec

# show ip arp cache

show ip arp cache { { brief | detail } | { interface [ <intf> ] } } [ operational ]

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
arp	arp	
cache	Display ip arp cache	
interface	Display ip arp related interface information	
brief	Display summary of arp interface status and configuration	
detail	Display detailed information of arp interface status and configuration	
operational	(Optional) Display only interfaces that are administratively enabled	
<i>intf</i>	(Optional) Interface name to display	

## Command Mode

- /exec

# show ip arp client

```
show ip arp client [ __readonly__ { <arp-clients> } [ TABLE_arp_client_list { <arp-cli-uuid> <l2-client-type>
<client-flg> <mts-addr-sap> <cli-msg-cnt> [ <l2-cli-func-name> ] [ <l2-cli-dbg-func> ] [
<l2-cli-dbg-un-init-func> ] } ] ]
```

## Syntax Description

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)
<i>TABLE_arp_client_list</i>		(Optional)
<i>arp-cli-uuid</i>		(Optional)
<i>l2-client-type</i>		(Optional)
<i>client-flg</i>		(Optional)
<i>mts-addr-sap</i>		(Optional)
<i>cli-msg-cnt</i>		(Optional)
<i>l2-cli-func-name</i>		(Optional)
<i>l2-cli-dbg-func</i>		(Optional)
<i>l2-cli-dbg-un-init-func</i>		(Optional)

## Command Mode

- /exec

## show ip arp controller-statistics

```
show ip arp controller-statistics [ __readonly__ { TABLE_ip_arp_controller_statistics [
<arp_adj_controller_add_count> ][ <arp_adj_controller_del_count> ][ <arp_adj_controller_add_err_count>
][ <arp_adj_controller_del_err> ] } ]
```

### Syntax Description

Syntax Description	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
arp_adj_controller_add_count	(Optional)
arp_adj_controller_del_count	(Optional)
arp_adj_controller_add_err_count	(Optional)
arp_adj_controller_del_err	(Optional)

### Command Mode

- /exec

## show ip arp inspection

```
show ip arp inspection [ __readonly__ <src_mac_valid> <dest_mac_valid> <ip_addr_valid> TABLE_entry
<active_vlan_id> <is_insp_enabled> <oper_state> <acl_name> <is_static_acl> <acl_logging> <dhcp_logging>
<req_fwded> <res_fwded> <req_dropped> <res_dropped> <dhcp_drops> <acl_drops> <dhcp_permits>
<acl_permits> <req_smac_fails> <res_smac_fails> <res_dmac_fails> <req_ip_fails> <res_ip_fails> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
<i>__readonly__</i>	(Optional)
<i>src_mac_valid</i>	(Optional)
<i>dest_mac_valid</i>	(Optional)
<i>ip_addr_valid</i>	(Optional)
TABLE_entry	(Optional)
<i>active_vlan_id</i>	(Optional)
<i>is_insp_enabled</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>acl_name</i>	(Optional)
<i>is_static_acl</i>	(Optional)
<i>acl_logging</i>	(Optional)
<i>dhcp_logging</i>	(Optional)

### Command Mode

- /exec



# show ip arp inspection interfaces

```
show ip arp inspection interfaces [ <intf1> ] [ __readonly__ TABLE_intf <intf_header> <intf2> <trust_state> ]
```

## Syntax Description

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)
<i>TABLE_intf</i>		(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

Syntax Description	show	Show running system information
	ip	Show the IP features of the system
	arp	IP ARP table
	inspection	Status of ARP Inspection
	log	Log Buffer
	<i>__readonly__</i>	(Optional)
	<i>log_buff_size</i>	(Optional)
	<i>log_rate_entries</i>	(Optional)
	<i>log_rate_interval</i>	(Optional)
	<i>log_frame</i>	(Optional)

## Command Mode

- /exec

## show ip arp inspection statistics

```
show ip arp inspection statistics [ vlan <vlan-range> ] [ __readonly__ TABLE_stats <vlanid> <req_fwded>
<res_fwded> <req_dropped> <res_dropped> <dhcp_drops> [ <acl_drops> ] <dhcp_permits> [ <acl_permits>
] <req_smac_fails> <res_smac_fails> <res_dmac_fails> <req_ip_fails> <res_ip_fails> ]
```

### Syntax Description

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)	
<i>TABLE_stats</i>	(Optional)	
<i>vlanid</i>	(Optional)	

### Command Mode

- /exec

## show ip arp inspection vlan

```
show ip arp inspection vlan <vlan-range> [ __readonly__ <src_mac_valid> <dest_mac_valid> <ip_addr_valid>
TABLE_vlan <active_vlan_id> <is_insp_enabled> <oper_state> <acl_name> <is_static_acl> <acl_logging>
<dhcp_logging> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
vlan	Selected vlan range
<i>vlan-range</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>	(Optional)
<i>src_mac_valid</i>	(Optional)
<i>dest_mac_valid</i>	(Optional)
<i>ip_addr_valid</i>	(Optional)
TABLE_vlan	(Optional)
<i>active_vlan_id</i>	(Optional)
<i>is_insp_enabled</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>acl_name</i>	(Optional)
<i>is_static_acl</i>	(Optional)
<i>acl_logging</i>	(Optional)
<i>dhcp_logging</i>	(Optional)

### Command Mode

- /exec

# show ip arp internal buffers

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

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
internal	Commands for internal use
buffers	Display detailed buffer statistics
all	(Optional) Dump buffers from ALL list
free	(Optional) Dump buffers from FREE list
count	(Optional) Number of buffers to dump

## Command Mode

- /exec

## show ip arp internal event-history

show ip arp internal event-history { packet | errors | msgs | event | sync-event | ip-sync-event | control | ha | lcache | lcache-errors | cli | client-event | client-errors | snmp | suppression-event | suppression-errors | controller-errors | dme-event }

### Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	arp	Display ARP table and statistics
	internal	Display internal arp information
	event-history	Show various event logs of ARP
	packet	Show various packet logs of ARP
	errors	Show error logs of ARP
	msgs	Show various message logs of ARP
	event	Show various event logs of ARP
	sync-event	Show various CFS and MCECM related event logs of ARP
	ip-sync-event	Show various L3 over vpc related event logs of ARP
	control	Show various control event logs of ARP
	ha	Show various ha logs of ARP
	lcache	Show various lcache logs of ARP
	lcache-errors	Show various lcache-error logs of ARP
	cli	Show CLI related events of ARP
	client-event	Show various event logs of ARP clients
	client-errors	Show error logs of ARP clients
	snmp	Show SNMP logs
	suppression-event	ARP suppression event logs
	suppression-errors	ARP suppression error logs
	controller-errors	Controller MAC-IP route error logs
	dme-event	ARP DME Event logs

**Command Mode**

- /exec

## show ip arp internal event-history buffer-size

show ip arp internal event-history buffer-size { packet | errors | event | sync-event | ip-sync-event | control | ha | lcache | lcache-errors | cli | client-event | client-errors | snmp | suppression-event | suppression-errors | controller-errors | dme-event | all }

### Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	arp	Display ARP table and statistics
	internal	Display internal arp information
	event-history	Show various event logs of ARP
	buffer-size	Show current size of the buffers
	packet	Show packet logs buffer size of ARP
	errors	Show error logs buffer size of ARP
	event	Show event logs buffer size of ARP
	sync-event	Show CFS and MCECM related event logs buffer size of ARP
	ip-sync-event	Show various L3 over vpc related event logs buffer size of ARP
	control	Show ARP control event logs buffer size
	ha	Show ha logs buffer size of ARP
	lcache	Show lcache logs buffer size of ARP
	lcache-errors	Show lcache-error logs buffer size of ARP
	cli	Show CLI related events buffer size of ARP
	client-event	Show event logs buffer size of ARP clients
	client-errors	Show error logs buffer size of ARP clients
	snmp	Show SNMP logs buffer size
	suppression-event	ARP suppression event logs
	suppression-errors	ARP suppression error logs
	controller-errors	Controller MAC-IP route error logs
	dme-event	ARP DME event logs
	all	Show the sizes of all the buffers



**Command Mode**

- /exec

# show ip arp internal hmm statistics

show ip arp internal hmm statistics [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
internal	Commands for internal use
hmm	Display local HMM information
statistics	Local HMM statistics
detail	(Optional) Detailed HMM statistics

## Command Mode

- /exec

# show ip arp internal info

```
show ip arp internal info [ interface <interface> ]
```

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
internal	Commands for internal use
info	Commands for internal use
interface	(Optional) Interface filter
<i>interface</i>	(Optional) ARP interface

## Command Mode

- /exec

# show ip arp internal library

```
show ip arp internal { library-info | fastboot-cache }
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
arp		Display ARP table and statistics
internal		Commands for internal use
library-info		Show various event logs of library
fastboot-cache		Show ARP cache for fastboot recovery

## Command Mode

- /exec

# show ip arp internal mem

```
show ip arp internal { mem-stats [ shared | all ] [ no-libs ] [ detail ] }
```

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
internal	Display internal arp information
mem-stats	Show memory allocation statistics
shared	(Optional) Display shared memory statistics
all	(Optional) Display private and shared memory statistics
no-libs	(Optional) Exclude libraries
detail	(Optional) Display detailed information

## 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

#### Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
off-list	Show adjacencies in off-list arp database
vlan	(Optional) Vlan id
bdi	(Optional) Bridge Domain Name/Id
<i>vlan-id</i>	(Optional) Show information for specified vlan
<i>__readonly__</i>	(Optional)
<i>offlist-vlan-id</i>	(Optional)
<i>vlan-adj-cnt</i>	(Optional)
<i>arp-sync-adj-cnt</i>	(Optional)
TABLE_arp_vlan_list	(Optional)
<i>adj-vlan-id</i>	(Optional)
<i>off-adj-ip-addr</i>	(Optional)
<i>time-stamp</i>	(Optional)
<i>arp-mac-addr</i>	(Optional)
<i>off-adj-flags</i>	(Optional)

### Command Mode

- /exec

## show ip arp open-flow error-statistics

```
show ip arp open-flow error-statistics [ __readonly__ { TABLE_ip_arp_open_flow_error_statistics [
<arp_ofa_total_err_cnt> ] [ <arp_ofa_dp_adj_err_on_del> ] [ <arp_ofa_cp_mac_mismatch_err_on_del> ] [
<arp_ofa_cp_null_mac_err_on_del> ] [ <arp_ofa_cp_no_adj_err_on_del_flag> ] [
<arp_ofa_cp_cp_nh_mismatch_err_on_del> ] [ <arp_ofa_cp_adj_del_failure_err> ] [
<arp_ofa_cp_null_mac_err_on_add> ] [ <arp_ofa_cp_dp_mac_mismatch_err_on_add> ] [
<arp_ofa_cp_cp_mac_mismatch_err_on_add> ] [ <arp_ofa_cp_added_first_err> ] [
<arp_ofa_dp_overwrite_cp_err> ] [ <arp_ofa_dp_cp_nh_mismatch_err_on_add> ] [
<arp_ofa_cp_cp_nh_mismatch_err_on_add> ] [ <arp_ofa_cp_dp_nh_mismatch_err_on_add> ] [
<arp_ofa_cp_adj_add_failure_err> ] [ <arp_ofa_barrier_response_err> ] } ]
```

### Syntax Description

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>TABLE_ip_arp_open_flow_error_statistics</i>	(Optional)	Arp OFA stats
<i>arp_ofa_total_err_cnt</i>	(Optional)	
<i>arp_ofa_dp_adj_err_on_del</i>	(Optional)	
<i>arp_ofa_cp_mac_mismatch_err_on_del</i>	(Optional)	
<i>arp_ofa_cp_null_mac_err_on_del</i>	(Optional)	
<i>arp_ofa_cp_no_adj_err_on_del_flag</i>	(Optional)	
<i>arp_ofa_cp_cp_nh_mismatch_err_on_del</i>	(Optional)	
<i>arp_ofa_cp_adj_del_failure_err</i>	(Optional)	
<i>arp_ofa_cp_null_mac_err_on_add</i>	(Optional)	
<i>arp_ofa_cp_dp_mac_mismatch_err_on_add</i>	(Optional)	
<i>arp_ofa_cp_cp_mac_mismatch_err_on_add</i>	(Optional)	
<i>arp_ofa_cp_added_first_err</i>	(Optional)	
<i>arp_ofa_dp_overwrite_cp_err</i>	(Optional)	
<i>arp_ofa_dp_cp_nh_mismatch_err_on_add</i>	(Optional)	

---

*arp\_ofa\_cp\_cp\_nh\_mismatch\_err\_on\_add* (Optional)

---

*arp\_ofa\_cp\_dp\_nh\_mismatch\_err\_on\_add* (Optional)

---

*arp\_ofa\_cp\_adj\_add\_failure\_err* (Optional)

---

*arp\_ofa\_barrier\_response\_err* (Optional)

---

### Command Mode

- /exec



# show ip arp snmp ptree

```
show ip arp snmp ptree { static | dynamic | virtual | typeall } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	arp	Display ARP table and statistics
	snmp	Show only snmp ptree
	ptree	Patricia tree
	static	show only static adjacencies in pt tree
	dynamic	show only dynamic adjacencies in pt tree
	virtual	show only virtual adjacencies in pt tree
	typeall	show all adjacencies in pt tree
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	all	(Optional) Display ARP statistics for all vrfs

## Command Mode

- /exec

## show ip arp statistics

```
show ip arp statistics [ <interface> ] [ interface-all ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_vrf <vrf-name-out1> TABLE_stat <tx-total> <tx-req> <tx-reply> <tx-req-l2>
<tx-reply-l2> <tx-grat> <tx-tunnel> <tx-drop> <tx-srvrport> <tx-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> <tx-invalid-local-proxy> <tx-invalid-proxy>
<tx-vip-not-active> <tx-multiple-vip-for-proxy> <rx-total> <rx-req> <rx-reply> <rx-req-l2> <rx-reply-l2>
<rx-proxy> <rx-local-proxy> <rx-enhanced-proxy> <rx-enhanced-proxy-anycast>
<rx-enhanced-proxy-l2port-track> <rx-tunnel> <rx-fastpath> <rx-snoop> <rx-drop> <rx-srvrport> <bad-if>
<bad-len> <invalid-prot> <invalid-hrd-type> <invalid-ctxt> <ctxt-not-crted> <invalid-l2> <invalid-l3>
<invalid-sip> <our-sip> <arp-if-no-mem> <subnet-mismatch> <dir-bcast> <invalid-dip> <non-local-dst>
<non-active-fhrp> <invalid-smac> <our-smac> <not-init> <l2-prxy-en> <l2-port-untrusted> <stdby-fhrp-vip>
<grat-prxy-en> <arp-req-ignore> <l2-intf> <l2fm-query-fail> <tunnel_fail> <adds> <dels> <timeouts> ]
```

### Syntax Description

Syntax Description	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
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out1</i>	(Optional)
TABLE_stat	(Optional)
<i>tx-total</i>	(Optional)
<i>tx-req</i>	(Optional)
<i>tx-reply</i>	(Optional)
<i>tx-req-l2</i>	(Optional)

<i>tx-reply-l2</i>	(Optional)
<i>tx-grat</i>	(Optional)
<i>tx-tunnel</i>	(Optional)
<i>tx-drop</i>	(Optional)
<i>tx-srvrport</i>	(Optional)
<i>tx-fbrport</i>	(Optional)
<i>tx-fixup-core</i>	(Optional)
<i>tx-fixup-server</i>	(Optional)
<i>tx-fixup-rarp</i>	(Optional)
<i>tx-anycast-glean</i>	(Optional)
<i>tx-mbuf-fail</i>	(Optional)
<i>tx-ctxt-not-crtid</i>	(Optional)
<i>tx-bad-ctxt-id</i>	(Optional)
<i>tx-invalid-ifindex</i>	(Optional)
<i>tx-invalid-sip</i>	(Optional)
<i>tx-invalid-dip</i>	(Optional)
<i>tx-own-ip</i>	(Optional)
<i>tx-unattached-ip</i>	(Optional)
<i>tx-adj-create-fail</i>	(Optional)
<i>tx-null-sip</i>	(Optional)
<i>tx-null-smac</i>	(Optional)
<i>tx-client-enq-fail</i>	(Optional)
<i>tx-dest-unreachable</i>	(Optional)
<i>tx-invalid-local-proxy</i>	(Optional)
<i>tx-invalid-proxy</i>	(Optional)
<i>tx-vip-not-active</i>	(Optional)
<i>tx-multiple-vip-for-proxy</i>	(Optional)
<i>rx-total</i>	(Optional)
<i>rx-req</i>	(Optional)

<i>rx-reply</i>	(Optional)
<i>rx-req-l2</i>	(Optional)
<i>rx-reply-l2</i>	(Optional)
<i>rx-proxy</i>	(Optional)
<i>rx-local-proxy</i>	(Optional)
<i>rx-enhanced-proxy</i>	(Optional)
<i>rx-enhanced-proxy-anycast</i>	(Optional)
<i>rx-enhanced-proxy-l2port-track</i>	(Optional)
<i>rx-tunnel</i>	(Optional)
<i>rx-fastpath</i>	(Optional)
<i>rx-snoop</i>	(Optional)
<i>rx-drop</i>	(Optional)
<i>rx-srvrport</i>	(Optional)
<i>bad-if</i>	(Optional)
<i>bad-len</i>	(Optional)
<i>invalid-prot</i>	(Optional)
<i>invalid-hrd-type</i>	(Optional)
<i>invalid-ctxt</i>	(Optional)
<i>ctxt-not-crtd</i>	(Optional)
<i>invalid-l2</i>	(Optional)
<i>invalid-l3</i>	(Optional)
<i>invalid-sip</i>	(Optional)
<i>our-sip</i>	(Optional)
<i>arp-if-no-mem</i>	(Optional)
<i>subnet-mismatch</i>	(Optional)
<i>dir-bcast</i>	(Optional)
<i>invalid-dip</i>	(Optional)
<i>non-local-dst</i>	(Optional)
<i>non-active-fhrp</i>	(Optional)

<i>invalid-smac</i>	(Optional)
<i>our-smac</i>	(Optional)
<i>not-init</i>	(Optional)
<i>l2-prxy-en</i>	(Optional)
<i>l2-port-untrusted</i>	(Optional)
<i>stdby-fhrp-vip</i>	(Optional)
<i>grat-prxy-en</i>	(Optional)
<i>arp-req-ignore</i>	(Optional)
<i>l2-intf</i>	(Optional)
<i>l2fm-query-fail</i>	(Optional)
<i>tunnel_fail</i>	(Optional)
<i>adds</i>	(Optional)
<i>dels</i>	(Optional)
<i>timeouts</i>	(Optional)

**Command Mode**

- /exec

## show ip arp suppression-cache

```
show ip arp suppression-cache { detail [ vlan <vlan_id> ] | summary | statistics | vlan <vlan_id> | local [ vlan
<vlan_id> ] | remote [ vlan <vlan_id> ] } [ __readonly__ TABLE_arp-suppression [ TABLE_entries <ip-addr>
<age> <mac> <vlan> <physical-iod> <flag> ] [ TABLE_summary <remote-count> <synced-count>
<local-count> <total-count> ] [ TABLE_stats TABLE_suppressed <total> <requests> <gratuitous>
<requests-on-l2> <gratuitous-on-l2> TABLE_sent <total-sent> <requests-sent> <replies-sent>
<requests-on-core-sent> <replies-on-core-sent> <dropped-sent> <requests-on-l2-sent> <replies-on-l2-sent>
<requests-on-core-l2-sent> <replies-on-core-l2-sent> <dropped-l2-sent> TABLE_received <total-recv>
<requests-recv> <replies-recv> <requests-on-l2-recv> <replies-on-l2-recv> <gratuitous-recv> <dropped-recv>
<gratuitous-l2-recv> <dropped-l2-recv> <local-requests-recv> <local-replies-recv> TABLE_entrystats <adds>
<dels> ] ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
suppression-cache	arp-suppression-cache
detail	show details
summary	show summary
statistics	show statistics
local	show local entries
remote	show remote entries
vlan	(Optional) L2vlan
<i>vlan_id</i>	(Optional) Vlan
<i>__readonly__</i>	(Optional)
TABLE_arp-suppression	(Optional)
TABLE_entries	(Optional)
<i>ip-addr</i>	(Optional)
<i>age</i>	(Optional)
<i>mac</i>	(Optional)
<i>vlan</i>	(Optional)
<i>physical-iod</i>	(Optional)
<i>flag</i>	(Optional)

TABLE_summary	(Optional)
<i>remote-count</i>	(Optional)
<i>synced-count</i>	(Optional)
<i>local-count</i>	(Optional)
<i>total-count</i>	(Optional)
TABLE_stats	(Optional)
TABLE_suppressed	(Optional)
<i>total</i>	(Optional)
<i>requests</i>	(Optional)
<i>requests-on-l2</i>	(Optional)
<i>gratuitous</i>	(Optional)
<i>gratuitous-on-l2</i>	(Optional)
TABLE_sent	(Optional)
<i>total-sent</i>	(Optional)
<i>requests-sent</i>	(Optional)
<i>replies-sent</i>	(Optional)
<i>requests-on-core-sent</i>	(Optional)
<i>replies-on-core-sent</i>	(Optional)
<i>dropped-sent</i>	(Optional)
<i>requests-on-l2-sent</i>	(Optional)
<i>replies-on-l2-sent</i>	(Optional)
<i>requests-on-core-l2-sent</i>	(Optional)
<i>replies-on-core-l2-sent</i>	(Optional)
<i>dropped-l2-sent</i>	(Optional)
TABLE_received	(Optional)
<i>total-recv</i>	(Optional)
<i>requests-recv</i>	(Optional)
<i>local-requests-recv</i>	(Optional)
<i>replies-recv</i>	(Optional)

<i>local-replies-recv</i>	(Optional)
<i>gratuitous-recv</i>	(Optional)
<i>dropped-recv</i>	(Optional)
<i>requests-on-l2-recv</i>	(Optional)
<i>replies-on-l2-recv</i>	(Optional)
<i>gratuitous-l2-recv</i>	(Optional)
<i>dropped-l2-recv</i>	(Optional)
TABLE_entrystats	(Optional)
<i>adds</i>	(Optional)
<i>dels</i>	(Optional)

**Command Mode**

- /exec



## show ip arp suppression topo-info

```
show ip arp suppression topo-info [ <topo-id> ] [ __readonly__ { TABLE_ip_arp_suppression_topo_info [
<ip_arp_suppression_topo_id> ] [ <ip_arp_suppression_mode> ] } ]
```

### Syntax Description

Syntax Description	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)
<i>TABLE_ip_arp_suppression_topo_info</i>	(Optional) Show suppression topo-info
<i>ip_arp_suppression_topo_id</i>	(Optional)
<i>ip_arp_suppression_mode</i>	(Optional)

### Command Mode

- /exec

## show ip arp tunnel-statistics

```
show ip arp tunnel-statistics [ __readonly__ { TABLE_ip_arp_tunnel_stat [ <arp-tun-pkt-rcv-cnt> ] [
<arp-tun-pkt-rcv-ing-vpc> ] [ <arp-tun-pkt-rcv-ing-gpc> ] [ <arp-tun-pkt-rcv-ing-orp-vpc> ] [
<arp-tun-pkt-rcv-ing-orp-vpc-pl> ] [ <arp-tun-pkt-snd-cnt> ] [ <arp-tun-pkt-snd-snoop-cnt> ] [
<arp-tun-pkt-snd-non-local-vip-cnt> ] [ <arp-tun-pkt-snd-peer-gate-cnt> ] [ <arp-tun-pkt-snd-ing-vpc> ] [
<arp-tun-pkt-snd-ing-gpc> ] [ <arp-tun-pkt-snd-ing-orp-vpc> ] [ <arp-tun-pkt-snd-ing-orp-vpc-pl> ] [
<arp-tun-pkt-rcv-drp-cnt> ] [ <arp-tun-pkt-snd-drp-cnt> ] [ <arp-tun-pkt-snd-drp-snd-fail-cnt> ] [
<arp-tun-pkt-rcv-drp-ver-cnt> ] [ <arp-tun-pkt-rcv-drp-pl-cnt> ] [ <arp-tun-pkt-rcv-drp-ing-non-mct> ] [
<arp-tun-pkt-rcv-drp-inv-ing-intf> ] [ <arp-tun-pkt-snd-drp-inv-ing-intf> ] [
<arp-tun-pkt-rcvdrp-inv-gpc-core-sw> ] [ <arp-tun-pkt-rcvdrp-inv-gpc-peer-sw> ] [ <arp-tun-pkt-drp-inv-mceec>
] [ <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-mceecm-key-not-found> ] } ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
tunnel-statistics	Display ARP statistics for tunneled packets
<i>__readonly__</i>	(Optional)
<i>TABLE_ip_arp_tunnel_stat</i>	(Optional) ARP Tunnel stats
<i>arp-tun-pkt-rcv-cnt</i>	(Optional)
<i>arp-tun-pkt-rcv-ing-vpc</i>	(Optional)
<i>arp-tun-pkt-rcv-ing-gpc</i>	(Optional)
<i>arp-tun-pkt-rcv-ing-orp-vpc</i>	(Optional)
<i>arp-tun-pkt-rcv-ing-orp-vpc-pl</i>	(Optional)
<i>arp-tun-pkt-snd-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-snoop-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-non-local-vip-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-peer-gate-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-ing-vpc</i>	(Optional)
<i>arp-tun-pkt-snd-ing-gpc</i>	(Optional)
<i>arp-tun-pkt-snd-ing-orp-vpc</i>	(Optional)

<i>arp-tun-pkt-snd-ing-orp-vpc-pl</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-drp-cnt</i>	(Optional)
<i>arp-tun-pkt-snd-drp-snd-fail-cnt</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-ver-cnt</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-pl-cnt</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-ing-non-mct</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-inv-ing-intf</i>	(Optional)
<i>arp-tun-pkt-snd-drp-inv-ing-intf</i>	(Optional)
<i>arp-tun-pkt-rcvdrp-inv-gpc-core-sw</i>	(Optional)
<i>arp-tun-pkt-rcvdrp-inv-gpc-peer-sw</i>	(Optional)
<i>arp-tun-pkt-drp-inv-mcec</i>	(Optional)
<i>arp-tun-pkt-im-api-fail</i>	(Optional)
<i>arp-tun-pkt-drp-ctxt-inv</i>	(Optional)
<i>arp-tun-pkt-drp-mct-dwn</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-mbuf-op-fail</i>	(Optional)
<i>arp-tun-pkt-snd-drp-mbuf-op-fail</i>	(Optional)
<i>arp-tun-pkt-snd-drp-tunnel</i>	(Optional)
<i>arp-tun-pkt-snd-drp-ce</i>	(Optional)
<i>arp-tun-pkt-snd-drp-inv-gpc</i>	(Optional)
<i>arp-tun-pkt-rcv-drp-inv-gpc</i>	(Optional)
<i>arp-tun-pkt-sys-mcecm-key-not-found</i>	(Optional)

### Command Mode

- /exec

# show ip arp vaddr

show ip arp vaddr

## Syntax Description

---

### Syntax Description

---

**show** Show running system information

---

**ip** Display IP information

---

**arp** Display ARP table and statistics

---

**vaddr** Display VADDR ARP table

---

## Command Mode

- /exec

## show ip arp vpc-statistics

```
show ip arp vpc-statistics [ __readonly__ { TABLE_arp_vpc_stats [ <arp-pro-drp-pull-disable> ] [
<arp-pro-drp-push-msg-disable> ] [ <arp-pro-ign-snd-pull-disabe> ] [ <arp-ign-snd-push-disable> ] [
<arp-drp-im-fail> ] [ <arp-drp-mcecm-fail> ] [ <arp-drp-invalid-pc-iod> ] [ <arp-drp-pt-lookup-fail> ] [
<arp-drp-resp-fail-no-mct> ] [ <arp-drp-resp-fail> ] [ <arp-resp-sent> ] [ <arp-resp-recvd> ] [
<arp-resp-recv-err> ] [ <arp-rcvd-msg> ] [ <arp-send-fail> ] [ <arp-cfs-rel-dlvry-fail> ] [ <arp-cfs-rel-dnvry-suc>
] [ <arp-drp-pt-add-fail> ] [ <arp-drp-no-mem> ] [ <arp-drp-tmr-cre-fail> ] [ <arp-drp-add-adj-fail> ] [
<arp-off-drp-pt-lookup-fail> ] [ <arp-dont-drp-vlan-mismat> ] [ <arp-drp-svi-invalid> ] [
<arp-dont-drop-sv-down> ] [ <arp-drp-mct-down> ] [ <arp-drp-ctxt-invalid> ] [ <arp-drp-vrf-invalid> ] [
<arp-drp-l3addr-invalid> ] [ <arp-drp-l3addr-sanity-fail> ] [ <arp-drp-mac-sanity-fail> ] [ <arp-own-rtr-mac>
] [ <arp-drp-own-ipaddr> ] [ <arp-drp-own-vipaddr> ] [ <arp-drp-adj-fail> ] [ <arp-drp-subnet-mismatch> ] [
<arp-drp-adj-exist> ] [ <arp-dont-drp-ip-not-enable> ] [ <arp-drp-inval-phy-iod> ] [ <arp-drp-total-cnt> ] [
<arp-dont-drop-total-cnt> ] [ <arp-add-adj> ] [ <arp-del-adj> ] [ <arp-adj-already-exist> ] } ]
```

### Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
vpc-statistics	Show vPC global statistics
__readonly__	(Optional)
TABLE_arp_vpc_stats	(Optional) Arp Vpc statistics
<i>arp-pro-drp-pull-disable</i>	(Optional)
<i>arp-pro-drp-push-msg-disable</i>	(Optional)
<i>arp-pro-ign-snd-pull-disabe</i>	(Optional)
<i>arp-ign-snd-push-disable</i>	(Optional)
<i>arp-drp-im-fail</i>	(Optional)
<i>arp-drp-mcecm-fail</i>	(Optional)
<i>arp-drp-invalid-pc-iod</i>	(Optional)
<i>arp-drp-pt-lookup-fail</i>	(Optional)
<i>arp-drp-resp-fail-no-mct</i>	(Optional)
<i>arp-drp-resp-fail</i>	(Optional)
<i>arp-resp-sent</i>	(Optional)
<i>arp-resp-recvd</i>	(Optional)
<i>arp-resp-recv-err</i>	(Optional)

<i>arp-rcvd-msg</i>	(Optional)
<i>arp-send-fail</i>	(Optional)
<i>arp-cfs-rel-dlvry-fail</i>	(Optional)
<i>arp-cfs-rel-dnvry-suc</i>	(Optional)
<i>arp-drp-pt-add-fail</i>	(Optional)
<i>arp-drp-no-mem</i>	(Optional)
<i>arp-drp-tmr-cre-fail</i>	(Optional)
<i>arp-drp-add-adj-fail</i>	(Optional)
<i>arp-off-drp-pt-lookup-fail</i>	(Optional)
<i>arp-dont-drp-vlan-mismat</i>	(Optional)
<i>arp-drp-svi-invalid</i>	(Optional)
<i>arp-dont-drop-sv-down</i>	(Optional)
<i>arp-drp-mct-down</i>	(Optional)
<i>arp-drp-ctxt-invalid</i>	(Optional)
<i>arp-drp-vrf-invalid</i>	(Optional)
<i>arp-drp-l3addr-invalid</i>	(Optional)
<i>arp-drp-l3addr-sanity-fail</i>	(Optional)
<i>arp-drp-mac-sanity-fail</i>	(Optional)
<i>arp-own-rtr-mac</i>	(Optional)
<i>arp-drp-own-ipaddr</i>	(Optional)
<i>arp-drp-own-vipadd</i>	(Optional)
<i>arp-drp-adj-fail</i>	(Optional)
<i>arp-drp-subnet-mismatch</i>	(Optional)
<i>arp-drp-adj-exist</i>	(Optional)
<i>arp-dont-drp-ip-not-enable</i>	(Optional)
<i>arp-drp-inval-phy-iod</i>	(Optional)
<i>arp-drp-total-cnt</i>	(Optional)
<i>arp-dont-drop-total-cnt</i>	(Optional)
<i>arp-add-adj</i>	(Optional)

---

*arp-del-adj* (Optional)

---

*arp-adj-already-exist* (Optional)

---

**Command Mode**

- /exec

# show ip as-path-access-list

```
show ip as-path-access-list [ <aspl-name> | <aspl-cfg-name> ] [ __readonly__ TABLE_aspl <name> <action>
<rule> ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
as-path-access-list	List AS path access lists	
<i>aspl-name</i>	(Optional) AS path access list name	
<i>aspl-cfg-name</i>	(Optional) Known as-path access-list name	
<i>__readonly__</i>	(Optional)	
TABLE_aspl	(Optional)	
<i>name</i>	(Optional)	
<i>action</i>	(Optional)	
<i>rule</i>	(Optional)	

## Command Mode

- /exec



# show ip bgp

```
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 } ] } { rib-install | rib-uninstall | rib-pending } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

### 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
rib-install	Routes installed in RIB
rib-uninstall	Routes not installed in RIB
rib-pending	Routes not acknowledged by RIB

## Command Mode

- /exec

# show ip cache

```
show ip cache { { brief | detail } | { interface [ <intf> ] } } [ operational ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
cache	Display ip cache
brief	Display summary of ip interface status and configuration
detail	Display detailed information of ip interface status and configuration
operational	(Optional) Display only interfaces that are administratively enabled
interface	Display ip related interface information
<i>intf</i>	(Optional) Interface name to display

## Command Mode

- /exec

# show ip client

```
show ip client [ <client-name> ] [ __readonly__ [ TABLE_ip_clnt [ TABLE_clnt { <clnt-name> <clnt-uuid>
<clnt-pid> <clnt-ext-pid> [ <clnt-proto> ] <clnt-ind> <clnt-cntxt-id> <clnt-mts-sap> <clnt-flg>
<clnt-msg-succ-cnt> <clnt-msg-fail-cnt> [ <clnt-recv-fn-name> <clnt-recv-fn> ] } ] ] ]
```

## Syntax Description

### 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> <action> <rule> ]

## Syntax Description

### 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>action</i>	(Optional)
<i>rule</i>	(Optional)

## Command Mode

- /exec

# show ip debug

show ip debug

## Syntax Description

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_rcvcd_through_cfsoe> <pkts_fwded>
<pkts_cfsoe_fwded> <pkts_dropped> <pkts_dropped_from_untrusted_ports>
<pkts_dropped_src_mac_chk_fail> <pkts_dropped_opt82_ins_fail> <pkts_dropped_unknown_op_intf>
<pkts_dropped_unknown_pkt> <pkts_dropped_no_trust_inf> <pkts_dropped_unknown_pkt>
<pkts_dropped_relay_disable> <pkts_dropped_no_binding_entry> <pkts_dropped_interface_error>
<pkts_dropped_max_hops_exceeded> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
global	DHCP global stats
statistics	Statistics related to DHCP
<i>__readonly__</i>	(Optional) Read only
<i>pkts_processed</i>	(Optional)
<i>pkts_rcvcd_through_cfsoe</i>	(Optional)
<i>pkts_fwded</i>	(Optional)
<i>pkts_cfsoe_fwded</i>	(Optional)
<i>pkts_dropped</i>	(Optional)
<i>pkts_dropped_from_untrusted_ports</i>	(Optional)
<i>pkts_dropped_src_mac_chk_fail</i>	(Optional)
<i>pkts_dropped_opt82_ins_fail</i>	(Optional)
<i>pkts_dropped_unknown_op_intf</i>	(Optional)
<i>pkts_dropped_unknown_pkt</i>	(Optional)
<i>pkts_dropped_no_trust_inf</i>	(Optional)
<i>pkts_dropped_relay_disable</i>	(Optional)
<i>pkts_dropped_no_binding_entry</i>	(Optional)
<i>pkts_dropped_interface_error</i>	(Optional)
<i>pkts_dropped_max_hops_exceeded</i>	(Optional)

## Command Mode

- /exec

## show ip dhcp relay

```
show ip dhcp relay [ __readonly__ <relay_service_enable> <relay_opt82_enable> <relay_opt82_customize>
<relay_subopt_VPN_enable> <relay_subopt_type_cisco_enable> <global_smart-relay_enable>
<global_relay_trusted_enable> <relay_trusted_port_enable> <smart_relay_intf_hdr> <subnet_bcast_intf_hdr>
<trusted_port_intf_hdr> <relay_address_hdr> TABLE_intf <intf> <relay_address> <vrf_name>
<smart_relay_enabled_intf> <subnet_bcast_enabled_intf> <trusted_port_enabled_intf> ]
```

### Syntax Description

#### 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>relay_address_hdr</i>	(Optional)
<i>smart_relay_intf_hdr</i>	(Optional)
<i>subnet_bcast_intf_hdr</i>	(Optional)
<i>trusted_port_intf_hdr</i>	(Optional)
TABLE_intf	(Optional)
<i>intf</i>	(Optional) interface name
<i>relay_address</i>	(Optional) helper address
<i>vrf_name</i>	(Optional) vrf name
<i>smart_relay_enabled_intf</i>	(Optional) smart-relay enabled interfaces



---

*subnet\_bcast\_enabled\_intf* (Optional) subnet\_bcast enabled interfaces

---

*trusted\_port\_enabled\_intf* (Optional) trusted\_port enabled interfaces

---

**Command Mode**

- /exec

# show ip dhcp relay address

```
show ip dhcp relay address [ interface <intf-range> ] [ __readonly__ TABLE_intf <intf_header> <intf2>
<relay_address> <vrf_name> ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Show the IP features of the system	
dhcp	Show DHCP	
relay	relay address of the interface	
address	DHCP relay address	
interface	(Optional) DHCP relay address of the interface	
<i>intf-range</i>	(Optional) interface	
<i>__readonly__</i>	(Optional) Read only	
TABLE_intf	(Optional)	
<i>intf_header</i>	(Optional)	
<i>intf2</i>	(Optional) interface name	
<i>relay_address</i>	(Optional) helper address	
<i>vrf_name</i>	(Optional) VRF name	

## Command Mode

- /exec

# show ip dhcp relay information trusted-sources

show ip dhcp relay information trusted-sources [ *\_\_readonly\_\_* <header> TABLE\_intf <intf> ]

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Show the IP features of the system
	dhcp	Show DHCP
	relay	DHCP Relay
	information	Relay information
	trusted-sources	Relay Trusted Sources
	<i>__readonly__</i>	(Optional) Read only
	TABLE_intf	(Optional)
	<i>header</i>	(Optional)
	<i>intf</i>	(Optional) interface name

## Command Mode

- /exec

## show ip dhcp relay statistics

```
show ip dhcp relay statistics [ interface <intf> | { interface <intf> serverip <ip-addr-val> [ use-vrf <vrf-name>
] } ] [ _readonly_ <msg_stats_hdr> <msg_type_str> <tx_pkts> <rx_pkts> <drops> <msg_type_str_total>
<total_tx_pkts> <total_rx_pkts> <total_drops> <line> <l3_fwd_hdr> <l3_fwd_tx_pkts> <l3_fwd_rx_pkts>
<l3_fwd_drops> <server_consolidated_hdr> <server_total_request> <server_total_response> <server_req_hdr>
<server_resp_hdr> <server_helper_addr> <server_vrf> <server_discover> <server_request> <server_decline>
<server_release> <server_inform> <server_offer> <server_ack> <server_nack> <drop_hdr>
<drop_opt82_insert_fail> <drop_unknown_op_intf> <drop_unknown> <drop_malformed>
<drop_relay_disable> <drop_intf_err> <drop_tx_sock_err> <drop_tx_fail_client_intf>
<drop_l3_unknown_op_intf> <drop_max_hops> <drop_invalid_msg_type> <drop_validation_fail>
<drop_untrusted_relay_intf> <drop_mct_drop> <non_dhcp_hdr> <non_dhcp_tx_pkts> <non_dhcp_rx_pkts>
<non_dhcp_drops> <footer> ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
relay	DHCP Relay
statistics	Statistics related to DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
serverip	(Optional) Helper address
<i>ip-addr-val</i>	(Optional) IP address
use-vrf	(Optional) helper address VRF membership
<i>vrf-name</i>	(Optional) VRF name
<i>_readonly_</i>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional)
<i>msg_type_str</i>	(Optional)
<i>tx_pkts</i>	(Optional)
<i>rx_pkts</i>	(Optional)
<i>drops</i>	(Optional)
<i>msg_type_str_total</i>	(Optional)
<i>total_tx_pkts</i>	(Optional)

<i>total_rx_pkts</i>	(Optional)
<i>total_drops</i>	(Optional)
<i>line</i>	(Optional)
<i>l3_fwd_hdr</i>	(Optional)
<i>l3_fwd_tx_pkts</i>	(Optional)
<i>l3_fwd_rx_pkts</i>	(Optional)
<i>l3_fwd_drops</i>	(Optional)
<i>server_consolidated_hdr</i>	(Optional)
<i>server_total_request</i>	(Optional)
<i>server_total_response</i>	(Optional)
<i>server_req_hdr</i>	(Optional)
<i>server_resp_hdr</i>	(Optional)
<i>server_helper_addr</i>	(Optional)
<i>server_vrf</i>	(Optional)
<i>server_discover</i>	(Optional)
<i>server_request</i>	(Optional)
<i>server_decline</i>	(Optional)
<i>server_release</i>	(Optional)
<i>server_inform</i>	(Optional)
<i>server_offer</i>	(Optional)
<i>server_ack</i>	(Optional)
<i>server_nack</i>	(Optional)
<i>drop_hdr</i>	(Optional)
<i>drop_opt82_insert_fail</i>	(Optional)
<i>drop_unknown_op_intf</i>	(Optional)
<i>drop_unknown</i>	(Optional)
<i>drop_malformed</i>	(Optional)
<i>drop_relay_disable</i>	(Optional)
<i>drop_intf_err</i>	(Optional)

<i>drop_max_hops</i>	(Optional)
<i>drop_tx_sock_err</i>	(Optional)
<i>drop_tx_fail_client_intf</i>	(Optional)
<i>drop_l3_unknown_op_intf</i>	(Optional)
<i>drop_invalid_msg_type</i>	(Optional)
<i>drop_validation_fail</i>	(Optional)
<i>drop_untrusted_relay_intf</i>	(Optional)
<i>drop_mct_drop</i>	(Optional)
<i>non_dhcp_hdr</i>	(Optional)
<i>non_dhcp_tx_pkts</i>	(Optional)
<i>non_dhcp_rx_pkts</i>	(Optional)
<i>non_dhcp_drops</i>	(Optional)
<i>footer</i>	(Optional)

**Command Mode**

- /exec

# show ip dhcp snooping

```
show ip dhcp snooping [ __readonly__ <snoop_service_enable> <snoop_gbl_enable> <snoop_vlan_enable>
<snoop_oper_vlan_enable> <snoop_opt82_enable> <snoop_hwaddr_verify_enable> <snoop_hdr>
TABLE_intf_entry <intf_entry_if_index> <intf_entry_trust_dhcp> <intf_entry_pkt_limit> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
snooping	DHCP snooping
__readonly__	(Optional) Read only
<i>snoop_service_enable</i>	(Optional)
<i>snoop_gbl_enable</i>	(Optional)
<i>snoop_vlan_enable</i>	(Optional)
<i>snoop_oper_vlan_enable</i>	(Optional)
<i>snoop_opt82_enable</i>	(Optional)
<i>snoop_hwaddr_verify_enable</i>	(Optional)
<i>snoop_hdr</i>	(Optional)
TABLE_intf_entry	(Optional)
<i>intf_entry_if_index</i>	(Optional)
<i>intf_entry_trust_dhcp</i>	(Optional)
<i>intf_entry_pkt_limit</i>	(Optional)

## Command Mode

- /exec

# show ip dhcp snooping binding

show ip dhcp snooping binding [ <ip> | <mac> | vlan <vlan-range> |

## Syntax Description

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

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

Syntax Description		
show	Show running system information	
ip	Show the IP features of the system	
dhcp	Show information about DHCP	
status	Current CLI command and execution status of the last command	
<i>__readonly__</i>	(Optional) Read only	
<i>current_cli_op</i>	(Optional)	
<i>last_cli_op</i>	(Optional)	
<i>last_cli_stat</i>	(Optional)	

## Command Mode

- /exec

# show ip dns source-interface

```
show ip dns source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipdnsvrf
<vrfname> <ifname> } ] ]
```

## Syntax Description

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

Syntax Description	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 eigrp [ <eigrp-ptag> ] neighbors [ detail | state ] { [ <interface> ] | { [ <address> ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] } } } | { ipv6 eigrp [ <eigrp-ptag> ] neighbors [ detail | state ] { [ <interface> ] |
{ [ <ipv6-addr> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] } } } } [ __readonly__ TABLE_asn <asn>
TABLE_vrf <vrf> [ { TABLE_peer <peer_handle> <peer_ipaddr> <peer_ipv6addr> <peer_ifname>
<peer_holdtime> <peer_uptime> <peer_srtt> <peer_rto> <peer_xmitq_count> <peer_last_seqno> <peer_static>
<peer_nsf_restart_time> <peer_last_startup_serno> <peer_ios_major_ver> <peer_ios_minor_ver>
<peer_eigrp_major_rev> <peer_eigrp_minor_rev> <peer_retrans_count> <peer_retry_count>
<peer_wait_for_init> <peer_wait_for_init_ack> <peer_reinit_start_time> <peer_prefix_count>
<peer_info_stubbed> <peer_info_receive_only> [ <peer_info_allow_connected> <peer_info_allow_statics>
<peer_info_allow_summaries> <peer_info_allow_redist> <peer_info_allow_leaking> ] [ <peer_state_cr_mode>
<peer_state_need_init> <peer_state_need_init_ack> <peer_state_going_down> <peer_state_coming_up>
<peer_state_peer_deleted> <peer_state_nsf_in_progress> <peer_state_need_eot>
<peer_state_use_nsf_startup_mode> <peer_state_await_nsf_convergence> <peer_state_initiated_gr>
<peer_state_cr_sequence> <peer_state_rcv_probe_sequence> <peer_state_send_probe_sequence> ]
<peer_suppress_queries> [ TABLE_xmitq_pkts <pkt_qtype> <pkt_index> <pkt_opcode> <pkt_ack_seqno>
<pkt_start_seqno> <pkt_end_seqno> <pkt_len> <pkt_time_sent> <pkt_init_flag> <pkt_sequenced> ] } ] [ {
TABLE_suspended_peer <susp_peer_ipaddr> <susp_peer_ipv6addr> <susp_peer_ifname>
<susp_peer_restart_reqd> <susp_peer_restart_time> } ] ] }
```

### Syntax Description

#### 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
neighbors	IP-EIGRP neighbors
detail	(Optional) Show detailed peer information
state	(Optional) Show detailed peer and state information
<i>interface</i>	(Optional) Interface
<i>address</i>	(Optional) IP-EIGRP neighbor address
__readonly__	(Optional)

<i>TABLE_asn</i>	(Optional)
<i>asn</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf</i>	(Optional)
<i>TABLE_peer</i>	(Optional)
<i>peer_handle</i>	(Optional)
<i>peer_ipaddr</i>	(Optional)
<i>peer_ifname</i>	(Optional)
<i>peer_holdtime</i>	(Optional)
<i>peer_uptime</i>	(Optional)
<i>peer_srtt</i>	(Optional)
<i>peer_rto</i>	(Optional)
<i>peer_xmitq_count</i>	(Optional)
<i>peer_last_seqno</i>	(Optional)
<i>peer_static</i>	(Optional)
<i>peer_nsf_restart_time</i>	(Optional)
<i>peer_last_startup_serno</i>	(Optional)
<i>peer_ios_major_ver</i>	(Optional)
<i>peer_ios_minor_ver</i>	(Optional)
<i>peer_eigrp_major_rev</i>	(Optional)
<i>peer_eigrp_minor_rev</i>	(Optional)
<i>peer_retrans_count</i>	(Optional)
<i>peer_retry_count</i>	(Optional)
<i>peer_wait_for_init</i>	(Optional)
<i>peer_wait_for_init_ack</i>	(Optional)
<i>peer_reinit_start_time</i>	(Optional)
<i>peer_prefix_count</i>	(Optional)
<i>peer_info_stubbed</i>	(Optional)
<i>peer_info_receive_only</i>	(Optional)

<i>peer_info_allow_connected</i>	(Optional)
<i>peer_info_allow_statics</i>	(Optional)
<i>peer_info_allow_summaries</i>	(Optional)
<i>peer_info_allow_redist</i>	(Optional)
<i>peer_info_allow_leaking</i>	(Optional)
<i>peer_state_cr_mode</i>	(Optional)
<i>peer_state_need_init</i>	(Optional)
<i>peer_state_need_init_ack</i>	(Optional)
<i>peer_state_going_down</i>	(Optional)
<i>peer_state_coming_up</i>	(Optional)
<i>peer_state_peer_deleted</i>	(Optional)
<i>peer_state_nsf_in_progress</i>	(Optional)
<i>peer_state_need_eot</i>	(Optional)
<i>peer_state_use_nsf_startup_mode</i>	(Optional)
<i>peer_state_await_nsf_convergence</i>	(Optional)
<i>peer_state_initiated_gr</i>	(Optional)
<i>peer_state_cr_sequence</i>	(Optional)
<i>peer_state_rcv_probe_sequence</i>	(Optional)
<i>peer_state_send_probe_sequence</i>	(Optional)
<i>peer_suppress_queries</i>	(Optional)
TABLE_xmitq_pkts	(Optional)
<i>pkt_qtype</i>	(Optional)
<i>pkt_index</i>	(Optional)
<i>pkt_opcode</i>	(Optional)
<i>pkt_ack_seqno</i>	(Optional)
<i>pkt_start_seqno</i>	(Optional)
<i>pkt_end_seqno</i>	(Optional)
<i>pkt_len</i>	(Optional)
<i>pkt_time_sent</i>	(Optional)

<i>pkt_init_flag</i>	(Optional)
<i>pkt_sequenced</i>	(Optional)
TABLE_suspended_peer	(Optional)
<i>susp_peer_ipaddr</i>	(Optional)
<i>susp_peer_ifname</i>	(Optional)
<i>susp_peer_restart_reqd</i>	(Optional)
<i>susp_peer_restart_time</i>	(Optional)
<i>eigrp-ptag</i>	(Optional)

**Command Mode**

- /exec



# show ip eigrp

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_asn <asn> TABLE_vrf <vrf> <router_id> <shutdown> <authen_md5> <authen_keychain>
<metric_weight_k1> <metric_weight_k2> <metric_weight_k3> <metric_weight_k4> <metric_weight_k5>
<metric_weight_k6> <metric_ribScale> <metric_delayacc> <metric_version> <eigrp_proto> <multicast_group>
<multicast_groupv6> <int_distance> <ext_distance> <max_paths> <num_interfaces> <num_lo_interfaces>
<num_pass_interfaces> <num_peers> [ { TABLE_redist <redist_srcproto> <redist_routemap> } ]
<graceful_restart> <stub_configured> <stub_option_connected> <stub_option_summary> <stub_option_redist>
<stub_option_leak_map> <stub_option_receive_only> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
detail	(Optional) Show detailed EIGRP process stats
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
<i>__readonly__</i>	(Optional)
TABLE_asn	(Optional)
<i>asn</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>router_id</i>	(Optional)
<i>shutdown</i>	(Optional)
<i>authen_md5</i>	(Optional)
<i>authen_keychain</i>	(Optional)
<i>metric_weight_k1</i>	(Optional)
<i>metric_weight_k2</i>	(Optional)

<i>metric_weight_k3</i>	(Optional)
<i>metric_weight_k4</i>	(Optional)
<i>metric_weight_k5</i>	(Optional)
<i>metric_weight_k6</i>	(Optional)
<i>metric_rib_scale</i>	(Optional)
<i>metric_delayacc</i>	(Optional)
<i>metric_version</i>	(Optional)
<i>eigrp_proto</i>	(Optional)
<i>multicast_group</i>	(Optional)
<i>int_distance</i>	(Optional)
<i>ext_distance</i>	(Optional)
<i>max_paths</i>	(Optional)
<i>num_interfaces</i>	(Optional)
<i>num_lo_interfaces</i>	(Optional)
<i>num_pass_interfaces</i>	(Optional)
<i>num_peers</i>	(Optional)
TABLE_redist	(Optional)
<i>redist_srcproto</i>	(Optional)
<i>redist_routemap</i>	(Optional)
<i>graceful_restart</i>	(Optional)
<i>stub_configured</i>	(Optional)
<i>stub_option_connected</i>	(Optional)
<i>stub_option_summary</i>	(Optional)
<i>stub_option_redist</i>	(Optional)
<i>stub_option_leak_map</i>	(Optional)
<i>stub_option_receive_only</i>	(Optional)

**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> TABLE_vrf <vrf> <router_id> <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

Syntax Description	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)
<i>asn</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>router_id</i>	(Optional)
<i>total_prefix</i>	(Optional)
<i>redist_state</i>	(Optional)
<i>redist_count</i>	(Optional)
<i>restart_count</i>	(Optional)
<i>acct_timer</i>	(Optional)
TABLE_peer	(Optional)
<i>p_ipaddr</i>	(Optional)

---

*p\_state* (Optional)

---

*p\_ifname* (Optional)

---

*p\_prefix\_count* (Optional)

---

*p\_restart\_count* (Optional)

---

*p\_acct\_timer* (Optional)

---

### Command Mode

- /exec

# show ip eigrp event-history

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] [ internal ] event-history { errors | msgs | statistics | fsm | packet | rib
| cli }
```

## Syntax Description

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	
errors	Error log of EIGRP	
msgs	Message log of EIGRP	
statistics	State and size of the buffers	
fsm	FSM log of EIGRP	
packet	Packet log of EIGRP	
rib	RIB log of EIGRP	
cli	EIGRP CLI related events	

## Command Mode

- /exec

# show ip eigrp event-history bfd

show ip eigrp [ <eigrp-ptag> ] [ internal ] event-history bfd

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
eigrp	Display EIGRP status and configuration	
<i>eigrp-ptag</i>	(Optional) Process tag	
internal	(Optional) Commands for internal use	
event-history	Event History of EIGRP	
bfd	Show bfd log of EIGRP	

## Command Mode

- /exec

## show ip eigrp event

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] event [ <start-num> <end-num> ] [ type ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
ipv6	Display IPv6 information	
eigrp	Display EIGRP status and configuration	
vrf	(Optional) Display per-VRF information	
<i>vrf-name</i>	(Optional) VRF name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
all	(Optional) Display information for all VRFs	
<i>eigrp-ptag</i>	(Optional) Process tag	
event	IP-EIGRP Events	
<i>start-num</i>	(Optional) Starting event number	
<i>end-num</i>	(Optional) Ending event number	
type	(Optional) Show Events being logged	

### Command Mode

- /exec

## show ip eigrp interfaces

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] interfaces [ detail ] [ <interface> ] [ brief ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_asn <asn> TABLE_vrf <vrf> [ TABLE_if <ifname>
<peer_count> <xmitq_unrel> <xmitq_rel> <mean_srtt> <send_intvl_unrel> <send_intvl_rel>
<mcast_flow_delay> <pending_routes> [ <hello_intvl> <holdtime_intvl> <next_xmit_serno>
<packetize_pending> <mcasts_sent_unrel> <mcasts_sent_rel> <ucasts_sent_unrel> <ucasts_sent_rel>
<mcast_exceptions> <cr_packets> <acks_suppressed> <retrans_sent> <out_of_seq_rcvd> <stub_interface>
<nexthop_self> <auth_mode_md5> <auth_key_chain> ] ] ]
```

### Syntax Description

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
<i>__readonly__</i>	(Optional)
TABLE_asn	(Optional)
<i>asn</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_if	(Optional)
<i>ifname</i>	(Optional)
<i>peer_count</i>	(Optional)



---

*xmitq\_unrel* (Optional)

---

*xmitq\_rel* (Optional)

---

*mean\_srtt* (Optional)

---

*send\_intvl\_unrel* (Optional)

---

*send\_intvl\_rel* (Optional)

---

*mcast\_flow\_delay* (Optional)

---

*pending\_routes* (Optional)

---

*hello\_intvl* (Optional)

---

*holdtime\_intvl* (Optional)

---

*next\_xmit\_serno* (Optional)

---

*packetize\_pending* (Optional)

---

*mcasts\_sent\_unrel* (Optional)

---

*mcasts\_sent\_rel* (Optional)

---

*ucasts\_sent\_unrel* (Optional)

---

*ucasts\_sent\_rel* (Optional)

---

*mcast\_exceptions* (Optional)

---

*cr\_packets* (Optional)

---

*acks\_suppressed* (Optional)

---

*retrans\_sent* (Optional)

---

*out\_of\_seq\_rcvd* (Optional)

---

*stub\_interface* (Optional)

---

*nexthop\_self* (Optional)

---

*auth\_mode\_md5* (Optional)

---

*auth\_key\_chain* (Optional)

---

### Command Mode

- /exec

# show ip eigrp internal

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

## Syntax Description

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	Commands for internal use

## Command Mode

- /exec

# show ip eigrp internal library-info

show ip eigrp [ <eigrp-ptag> ] internal library-info

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
eigrp	Display EIGRP status and configuration
<i>eigrp-ptag</i>	(Optional) Process tag
internal	Commands for internal use
library-info	Show various event logs of library

## Command Mode

- /exec

## show ip eigrp internal mem-stats

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] internal mem-stats [ no-libs ] [ detail ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ]
```

### Syntax Description

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	Commands for internal use	
mem-stats	Show memory allocation statistics	
no-libs	(Optional) Exclude libraries	
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	

### Command Mode

- /exec

# show ip eigrp internal syslog rate-limit

show { ip | ipv6 } eigrp [ <eigrp-ptag> ] internal syslog rate-limit

## Syntax Description

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	Commands for internal use	
syslog	control syslog message	
rate-limit	rate-limiting	

## Command Mode

- /exec

## show ip eigrp metric

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] metric <bw> <delay> [ <rel> ] [ <load> ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
ipv6	Display IPv6 information	
eigrp	Display EIGRP status and configuration	
vrf	(Optional) Display per-VRF information	
<i>vrf-name</i>	(Optional) VRF name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
all	(Optional) Display information for all VRFs	
<i>eigrp-ptag</i>	(Optional) Process tag	
metric	Compute composite metric from vector metric	
<i>bw</i>	Bandwidth in Kbits per second	
<i>delay</i>	Delay metric	
<i>rel</i>	(Optional) Reliability metric where 255 is 100% reliable	
<i>load</i>	(Optional) Effective bandwidth metric (Loading) where 255 is 100% loaded	

### Command Mode

- /exec

## show ip eigrp route-map statistics redistribute

```
show ip eigrp [ <eigrp-ptag> ] route-map statistics redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> |
static | direct | amt | lisp } [ 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

#### 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
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)
<i>asn</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf</i>	(Optional)
<i>TABLE_rmap</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 eigrp sia-event

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] sia-event [ <start-num> <end-num> ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	ipv6	Display IPv6 information
	eigrp	Display EIGRP status and configuration
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	all	(Optional) Display information for all VRFs
	<i>eigrp-ptag</i>	(Optional) Process tag
	sia-event	IP-EIGRP SIA event
	<i>start-num</i>	(Optional) Starting event number
	<i>end-num</i>	(Optional) Ending event number

## Command Mode

- /exec

## show ip eigrp sia-statistics

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] sia-statistics [ <peer> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
ipv6	Display IPv6 information	
eigrp	Display EIGRP status and configuration	
vrf	(Optional) Display per-VRF information	
<i>vrf-name</i>	(Optional) VRF name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
all	(Optional) Display information for all VRFs	
<i>eigrp-ptag</i>	(Optional) Process tag	
sia-statistics	IP-EIGRP SIA Statistics	
<i>peer</i>	(Optional) Peer ID to display information about	

### Command Mode

- /exec

# show ip eigrp timers

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] timers [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	ipv6	Display IPv6 information
	eigrp	Display EIGRP status and configuration
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	all	(Optional) Display information for all VRFs
	<i>eigrp-ptag</i>	(Optional) Process tag
	timers	IP-EIGRP Timers

## Command Mode

- /exec

## show ip eigrp traffic

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] traffic [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_asn <asn> TABLE_vrf <vrf> <hellos_sent> <hellos_rcvd> <updates_sent> <updates_rcvd>
<queries_sent> <queries_rcvd> <replies_sent> <replies_rcvd> <acks_sent> <acks_rcvd> <max_inqueue_depth>
<inqueue_drops> <sia_queries_sent> <sia_queries_rcvd> <sia_replies_sent> <sia_replies_rcvd> ]
```

### Syntax Description

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	
<i>__readonly__</i>	(Optional)	
TABLE_asn	(Optional)	
<i>asn</i>	(Optional)	
TABLE_vrf	(Optional)	
<i>vrf</i>	(Optional)	
<i>hellos_sent</i>	(Optional)	
<i>hellos_rcvd</i>	(Optional)	
<i>updates_sent</i>	(Optional)	
<i>updates_rcvd</i>	(Optional)	
<i>queries_sent</i>	(Optional)	
<i>queries_rcvd</i>	(Optional)	
<i>replies_sent</i>	(Optional)	
<i>replies_rcvd</i>	(Optional)	

<i>acks_sent</i>	(Optional)
<i>acks_rcvd</i>	(Optional)
<i>max_inqueue_depth</i>	(Optional)
<i>inqueue_drops</i>	(Optional)
<i>sia_queries_sent</i>	(Optional)
<i>sia_queries_rcvd</i>	(Optional)
<i>sia_replies_sent</i>	(Optional)
<i>sia_replies_rcvd</i>	(Optional)

**Command Mode**

- /exec

# show ip extcommunity-list

```
show ip extcommunity-list [ <extcl_name> ] [ __readonly__ TABLE_extcl <name> <action> <rule> ]
```

## Syntax Description

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 adjacency

```
show ip fib adjacency [ <aif> ] [ <anh> ] [ module <module> ] [ __readonly__ <adj-count> <nexthop>
<rewinfo> <interface> ]
```

## Syntax Description

Syntax Description	
	show
ip	Display IP information
fib	Forwarding information
adjacency	display adjacency information
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next hop
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>adj-count</i>	(Optional) total adj count
<i>nexthop</i>	(Optional) next hop address
<i>rewinfo</i>	(Optional) rewrite information
<i>interface</i>	(Optional) output interface

## Command Mode

- /exec

# show ip fib interfaces

show ip fib interfaces [ module <module> ] [ \_\_readonly\_\_ <intf> <v4adjcnt> <v6adjcnt> <rpfmode> ]

## Syntax Description

Syntax Description	
show	
ip	Display IP information
fib	Forwarding information
interfaces	show fib interface info
__readonly__	(Optional)
<i>intf</i>	(Optional) interface name
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>v4adjcnt</i>	(Optional) count of v4 adjacencies
<i>v6adjcnt</i>	(Optional) count of v6 adjacencies
<i>rpfmode</i>	(Optional) uRPF mode

## Command Mode

- /exec



# show ip fib internal error counts

```
show ip fib internal error counts [ module <module> ] [ __readonly__ <err-str><count> ]
```

## Syntax Description

Syntax Description	
show	
ip	Display IP information
fib	Forwarding information
internal	internal information
error	display internal errors
counts	display error counts
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)

## 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

### 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

### Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	Multicast IPv4 routes
<i>group</i>	(Optional) Multicast IPv4 Group Address
<i>gprefix</i>	(Optional) Multicast IPv4 Group Prefix
<i>source</i>	(Optional) Multicast IPv4 Source Address
table	(Optional) display info per vpn-id
<i>table-id</i>	(Optional) table-id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifindex</i>	(Optional) RPF Interface ifIndex
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>route_pkts</i>	(Optional) Route packet count

---

<i>route_bytes</i>	(Optional) Route bytes
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>platform_id</i>	(Optional) Platform-index
<i>oif_count</i>	(Optional) Number of OIFs
<i>refcount</i>	(Optional) OIF list Reference Count
<i>oifname</i>	(Optional) OIF Interface name
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>oif_pkts</i>	(Optional) OIF packets
<i>oif_bytes</i>	(Optional) OIF bytes

---

**Command Mode**

- /exec

# show ip fib mroute txlist

show ip fib mroute txlist [ module <module> ]

## Syntax Description

### Syntax Description

show

ip Display IP information

fib Forwarding information

mroute display IP mcast routing  
table

txlist display routes in the txlist

module (Optional) slot

*module* (Optional) slot number

## Command Mode

- /exec

## show ip fib route

```
show ip fib route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ summary | <prefix>
[ longer-prefixes ] | <address> | interface <interface> | next-hop <nh> | attached | unresolved | adjacency {
<aif> <anh> | drop | glean | punt } ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ <header> <vrfname> <tableid> <prefix-count> <pfx> { <nexthop> | <special> } <intf>
<route-count> <path-count> <mask-length> <routes-per-mask> ]
```

### Syntax Description

#### 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)

### 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

#### 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)

### Command Mode

- /exec

# show ip fib route recovered

show ip fib route recovered

## Syntax Description

Syntax	Description
show	
ip	ipv4
fib	display fib information
route	display IP routing table
recovered	log of routes recovered after TCAM free condition

## Command Mode

- /exec

# show ip ftm statistics

show ip ftm statistics

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
ftm	FTM API
statistics	Statistics

## Command Mode

- /exec

# show ip ftp source-interface

```
show ip ftp source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipftpvrf
<vrfname> <ifname> } ] ]
```

## Syntax Description

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

Syntax Description	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
vrfname	(Optional) vrfname
ifname	(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

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

Syntax Description	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
vrfname	(Optional) vrfname
ifname	(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

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
<vrf> <if-name> <group-addr> <entry-count> <restart-count> { TABLE_group <group-addr> <if-name>
<uptime> <expires> <reporter> <static-oif> <local-group> { TABLE_source <source-addr> <if-name>
<uptime> <expires> <reporter> <static-oif> <local-group> <translated> } } } { TABLE_vrfsumm <vrf-summ>
<g-count> <sg-count> } ]
```

### Syntax Description

#### 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>vrf</i>	(Optional)
<i>if-name</i>	(Optional)
<i>group-addr</i>	(Optional)
<i>entry-count</i>	(Optional)
<i>restart-count</i>	(Optional)
TABLE_group	(Optional)

<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>static-oif</i>	(Optional)
<i>local-group</i>	(Optional)
<i>reporter</i>	(Optional)
TABLE_source	(Optional)
<i>source-addr</i>	(Optional)
<i>translated</i>	(Optional)
TABLE_vrfsumm	(Optional)
<i>vrf-summ</i>	(Optional)
<i>g-count</i>	(Optional)
<i>sg-count</i>	(Optional)

**Command Mode**

- /exec

## show ip igmp interface show ip igmp interface

```
show ip igmp interface <interface> [ detail ] | show ip igmp interface [ brief ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <vrf> <entry-count> { 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> <cgt> <qt> <cqt> <uri> <rv> <crv> <rll> <rc> <v1rr>
<v2qs> <v2qr> <v2rs> <v2rr> <v2ls> <v2lr> <v3qs> <v3qr> <v3rs> <v3rr> <cse> <v2gqdest> <v3gqdest>
<ple> <lsip> <scf> <qnq> <rvm> <qvm> <uit> <v1gdam> <v2gdam> <v3dai> <ra> <static-group-map>
<join-group-map> <il> } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
interface	Display IGMP interface related 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>interface</i>	Interface name of single interface to display
brief	(Optional) Display one line status per interface
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>entry-count</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>rll</i>	(Optional)
<i>rc</i>	(Optional)
<i>v1rr</i>	(Optional)
<i>v2qs</i>	(Optional)
<i>v2qr</i>	(Optional)
<i>v2rs</i>	(Optional)
<i>v2rr</i>	(Optional)

<i>v2ls</i>	(Optional)
<i>v2lr</i>	(Optional)
<i>v3qs</i>	(Optional)
<i>v3qr</i>	(Optional)
<i>v3rs</i>	(Optional)
<i>v3rr</i>	(Optional)
<i>v2gqdest</i>	(Optional)
<i>v3gqdest</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>il</i>	(Optional)

**Command Mode**

- /exec

# show ip igmp internal

show ip igmp internal

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
internal	Commands for internal use

## Command Mode

- /exec

# show ip igmp internal

```
show ip igmp internal { errors | iod-cache | pss-dump | flexlink-iod-cache }
```

## Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	igmp	Display IGMP status and configuration
	internal	Commands for internal use
	errors	Show IGMP / IGMP-SNOOP errors
	iod-cache	Show IGMP Interface IOD->Ifindex mapping cache
	flexlink-iod-cache	Show IGMP's Flexlink IOD cache
	pss-dump	Show IGMP PSS dump

## Command Mode

- /exec



# show ip igmp internal library-info

show ip igmp internal library-info

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
internal	Commands for internal use
library-info	Show various event logs of library

## Command Mode

- /exec

# show ip igmp internal mem-stats

show ip igmp internal mem-stats [ all ] [ no-libs ] [ detail ]

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
igmp	Display IGMP status and configuration	
internal	Commands for internal use	
mem-stats	Show memory allocation statistics	
all	(Optional) Display private and shared memory statistics	
no-libs	(Optional) Exclude libraries	
detail	(Optional) Display detailed information	

## Command Mode

- /exec

# show ip igmp internal mrib-cache

```
show ip igmp internal mrib-cache [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
internal		Commands for internal use
mrib-cache		IGMP MRIB routes
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

## Command Mode

- /exec

# show ip igmp internal mrib

```
show ip igmp internal { mrib-txlist [ vrf { <vrf-name> | <vrf-known-name> | all } ] | mrib-buffers }
```

## Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	igmp	Display IGMP status and configuration
	internal	Commands for internal use
	mrib-txlist	Show MRIB transmission-list 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
	mrib-buffers	Show MRIB route buffer information

## Command Mode

- /exec

# show ip igmp internal pim-cache

```
show ip igmp internal pim-cache [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
internal		Commands for internal use
pim-cache		Show PIM client cache
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

## Command Mode

- /exec

# show ip igmp internal vpc

```
show ip igmp internal { vpc | emulated-switch } [ __readonly__ TABLE_vpc <vpc_lib_reg> <mcec_tl_reg>
<mct_up> <mct_name> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
internal		Commands for internal use
vpc		Show vpc information
emulated-switch		Show emulated-switch information
__readonly__	(Optional)	
TABLE_vpc	(Optional)	
vpc_lib_reg	(Optional)	
mcec_tl_reg	(Optional)	
mct_name	(Optional)	
mct_up	(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> { TABLE_entry <group-addr> <source-addr> <static-oif> <local-group> <if-name>
<last-reported> } ]
```

## Syntax Description

Syntax Description	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</i>	(Optional)
TABLE_entry	(Optional)
<i>group-addr</i>	(Optional)
<i>source-addr</i>	(Optional)
<i>static-oif</i>	(Optional)
<i>local-group</i>	(Optional)
<i>if-name</i>	(Optional)
<i>last-reported</i>	(Optional)

## Command Mode

- /exec

# show ip igmp policy statistics reports

show ip igmp policy statistics reports [ <interface> ]

## Syntax Description

---

**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

---

*interface* (Optional) Interface to display statistics for

---

## Command Mode

- /exec



## show ip igmp snooping

```
show ip igmp snooping [ { vlan <vlan> | bridge-domain <bdid> } ][ __readonly__ <vdc> <enabled> <grepsup>
<gv3repsup> <glinklocalgrpsup> <rle> { TABLE_vlan <vlan-id> [ <description> ] [ <snoop-on> <qa> <qv>
<qi> <qlmqi> <rv> <sq> <sqr> <eht> <fl> <repsup> <v3repsup> <vlinklocalgrpsup> <leavegroupaddress>
<rpc> <gc> <actvports> <lkupmode> <reportfloodenable> <reportfloodall> } [ TABLE_intf <if-name> ] ]
]
```

### Syntax Description

#### 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>grepsup</i>	(Optional)
<i>gv3repsup</i>	(Optional)
<i>glinklocalgrpsup</i>	(Optional)
<i>rle</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>leavegroupaddress</i>	(Optional)
<i>reportfloodenable</i>	(Optional)
<i>reportfloodall</i>	(Optional)
<i>rpc</i>	(Optional)
<i>gc</i>	(Optional)
<i>actvports</i>	(Optional)
<i>lkupmode</i>	(Optional)
TABLE_intf	(Optional)
<i>if-name</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

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

# show ip igmp snooping explicit-tracking

```
show ip igmp snooping explicit-tracking [ vlan <vlan> | bridge-domain <bdid> ] [ __readonly__ TABLE_vlan
<vlan-id> <grp-addr> <src-addr> <if-name> <host-addr> <uptime> <last-join> <expires> ] [ detail ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
igmp	Display IGMP status and configuration	
snooping	IGMP Snooping information	
explicit-tracking	Display explicit-tracking database for IGMPv3	
vlan	(Optional) Display Vlan explicit-tracking database	
<i>vlan</i>	(Optional) Specify VLAN	
bridge-domain	(Optional) Display BD explicit-tracking database	
<i>bdid</i>	(Optional) Specify BD	
detail	(Optional) Display detail info regarding host and vPC	
<i>__readonly__</i>	(Optional)	
TABLE_vlan	(Optional)	
<i>vlan-id</i>	(Optional)	
<i>grp-addr</i>	(Optional)	
<i>src-addr</i>	(Optional)	
<i>if-name</i>	(Optional)	
<i>host-addr</i>	(Optional)	
<i>uptime</i>	(Optional)	
<i>last-join</i>	(Optional)	
<i>expires</i>	(Optional)	

## Command Mode

- /exec

## show ip igmp snooping groups

```
show ip igmp snooping [ otv ] groups [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ vlan <vlan>
][ detail ][ summary ][ __readonly__ { TABLE_vlan <vlan-id> <rports> <rtrPortFlag> <oifs> { TABLE_port
<if-name> } { TABLE_rtrports <rport-if-name> } <raddr> { TABLE_source <source> } { TABLE_group
<addr> <ver> <raddr> <rsf> <js> <g-mfdm> <old-host> <g-vpc> <static> <dynamic> <snoop-enabled>
<omf-enabled> <group-count> <s-g-count> { 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> } { TABLE_source <source> <srsf> <s-mfdm> <s-vpc> <src-static> <src-dynamic> {
TABLE_src_static_ports <src-static-if-name> } { TABLE_src_dynamic <dyn-if-name> <src-uptime>
<src-expires> } } } ]
```

### Syntax Description

#### 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
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/BD IGMP snooping membership information
<i>vlan</i>	(Optional) Specify VLAN/BD
detail	(Optional) Display detailed information for the group
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>rports</i>	(Optional)
<i>rtrPortFlag</i>	(Optional)
<i>oifs</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)
<i>snoop-enabled</i>	(Optional)
<i>omf-enabled</i>	(Optional)
<i>group-count</i>	(Optional)
<i>s-g-count</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>dyn-if-name</i>	(Optional)
<i>src-uptime</i>	(Optional)
<i>src-expires</i>	(Optional)

**Command Mode**

- /exec

# show ip igmp snooping internal

show ip igmp snooping internal { ha | mfdm | ribs | route-txlist | memory }

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
internal	Display IGMP snooping internal information
ha	Display IGMP snooping internal HA information
mfdm	Display IGMP snooping internal MFDm information
ribs	Display IGMP snooping internal RIB information
route-txlist	Display IGMP snooping internal route txlist information
memory	Display IGMP snooping internal address-space information

## Command Mode

- /exec



# show ip igmp snooping internal proxy-querier

show ip igmp snooping internal proxy-querier

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	igmp	Display IGMP status and configuration
	snooping	IGMP Snooping information
	internal	Display IGMP snooping internal information
	proxy-querier	Display IGMP snooping internal proxy-querier information

## Command Mode

- /exec

# show ip igmp snooping lookup-mode

```
show ip igmp snooping lookup-mode [ vlan <vlan> ] [ __readonly__ { TABLE_global <configured>
<operational> } { TABLE_vlan <vlan-id> <lookup> } ]
```

## Syntax Description

Syntax Description	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/BD information
<i>vlan</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_global	(Optional)
<i>configured</i>	(Optional)
<i>operational</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>lookup</i>	(Optional)

## Command Mode

- /exec

# show ip igmp snooping mac-oif

```
show ip igmp snooping mac-oif [ vlan <vlan> ] [ detail ] [ __readonly__ <totaloif> { TABLE_vlan <vlan-id>
<count> <mac-addr> <oifs> } ]
```

## Syntax Description

Syntax Description	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/BD information
<i>vlan</i>	(Optional) Specify VLAN/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)
<i>mac-addr</i>	(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> <type> <uptime> <expires> <static> <dynamic> <internal>
<vpc> ]
```

## Syntax Description

### 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>type</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)

**Command Mode**

- /exec

# show ip igmp snooping otv vlan brief

show ip igmp snooping otv vlan brief [ *\_\_readonly\_\_* <vlan-id> ]

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
otv	IGMP Snooping OTV information
vlan	Display VLAN/BD information
brief	Brief output
<i>__readonly__</i>	(Optional)
<i>vlan-id</i>	(Optional)

## Command Mode

- /exec

# show ip igmp snooping pw vlan brief

```
show ip igmp snooping pw vlan brief [ __readonly__ <vlan-id> ]
```

## Syntax Description

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> <ver> <expires> <qv> <qiod> <int> <qname> ]
```

## Syntax Description

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)	
<i>TABLE_vlan</i>	(Optional)	
<i>vlan-id</i>	(Optional)	
<i>qa</i>	(Optional)	
<i>ver</i>	(Optional)	
<i>expires</i>	(Optional)	
<i>qv</i>	(Optional)	
<i>qiod</i>	(Optional)	
<i>qname</i>	(Optional)	
<i>int</i>	(Optional)	

## Command Mode

- /exec



# show ip igmp snooping report statistics

show ip igmp snooping { report-policy | access-group } statistics [ vlan <vlan> ]

## Syntax Description

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	
vlan	(Optional) Specify VLAN	

## Command Mode

- /exec

# show ip igmp snooping snmp mib adminMode

show ip igmp snooping snmp mib adminMode [ \_\_readonly\_\_ <cisAdminMode> ]

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
igmp	Display IGMP status and configuration	
snooping	IGMP Snooping information	
snmp	Show SNMP	
mib	Show MIB table	
adminMode	Indicates the administrative snooping mode of IGMP Snooping feature	
__readonly__	(Optional) Read Only	
<i>cisAdminMode</i>	(Optional) mib object cisAdminMode	

## Command Mode

- /exec

# show ip igmp snooping snmp mib aliasingMode

show ip igmp snooping snmp mib aliasingMode [ \_\_readonly\_\_ <cisAddressAliasingMode> ]

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
snooping		IGMP Snooping information
snmp		Show SNMP
mib		Show MIB table
aliasingMode		Indicates the current IGMP Address Aliasing Mode of the device
__readonly__		(Optional) Read Only
<i>cisAddressAliasingMode</i>		(Optional) mib object cisAddressAliasingMode

## Command Mode

- /exec

# show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus

```
show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus [ __readonly__
<cisV3ProcessEnabledOperStatus> ]
```

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
cisV3ProcessEnableOperStatus	Indicates the current operational status of IGMP v3 processing in the system
__readonly__	(Optional) Read Only
<i>cisV3ProcessEnabledOperStatus</i>	(Optional) mib object cisV3ProcessEnabledOperStatus

## Command Mode

- /exec

# show ip igmp snooping snmp mib explicitTrackingTable

```
show ip igmp snooping snmp mib explicitTrackingTable [ vlan <cisVlanIndex-in> ] [ __readonly__
TABLE_cisVlanExplicitTrackingTable <cisVlanIndex-out> <cisVlanExplicitTrackingEnabled>
<cisVlanExplicitTrackingLimit> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
explicitTrackingTable	Show mib table cisVlanExplicitTrackingTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_ <i>cisVlanExplicitTrackingTable</i>	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib table index cisVlanIndex
<i>cisVlanExplicitTrackingEnabled</i>	(Optional) mib object cisVlanExplicitTrackingEnabled
<i>cisVlanExplicitTrackingLimit</i>	(Optional) mib object cisVlanExplicitTrackingLimit

## Command Mode

- /exec

# show ip igmp snooping snmp mib fallBackTime

show ip igmp snooping snmp mib fallBackTime [ \_\_readonly\_\_ <cisFallbackTime> ]

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
igmp	Display IGMP status and configuration	
snooping	IGMP Snooping information	
snmp	Show SNMP	
mib	Show MIB table	
fallBackTime	Indicates the time the IGMP address aliasing mode is fallback	
__readonly__	(Optional) Read Only	
<i>cisFallbackTime</i>	(Optional) mib object cisFallbackTime	

## Command Mode

- /exec

# show ip igmp snooping snmp mib fastBlockEnabled

```
show ip igmp snooping snmp mib fastBlockEnabled [ __readonly__ <cisFastBlockEnabled> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
snooping		IGMP Snooping information
snmp		Show SNMP
mib		Show MIB table
fastBlockEnabled		Indicates whether Fast-Block mechanism has been enabled for the system
__readonly__		(Optional) Read Only
<i>cisFastBlockEnabled</i>		(Optional) mib object cisFastBlockEnabled

## Command Mode

- /exec

# show ip igmp snooping snmp mib fastleaveenabled

show ip igmp snooping snmp mib fastleaveenabled [ *\_\_readonly\_\_* <cisFastLeaveEnabled> ]

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
snooping		IGMP Snooping information
snmp		Show SNMP
mib		Show MIB table
fastleaveenabled		Check if fastleave is enabled
<i>__readonly__</i>		(Optional) Read Only
<i>cisFastLeaveEnabled</i>		(Optional) mib object cisFastLeaveEnabled

## Command Mode

- /exec



# show ip igmp snooping snmp mib filterStatsTable

```
show ip igmp snooping snmp mib filterStatsTable [ interface <ifIndex-in> vlan <cisFilterStatsVlanNumber-in>
] [ __readonly__ TABLE_cisFilterStatsTable <ifIndex-out> <cisFilterStatsVlanNumber-out>
<cisFilterAccessGroupDenied> <cisFilterLimitDenied> <cisFilterTotalLimitDenied>
<cisFilterMinVersionDenied> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
filterStatsTable	Display VLAN/BD Filter Group
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
vlan	(Optional) Display Interface access group VLAN/BD information
<i>cisFilterStatsVlanNumber-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisFilterStatsTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisFilterStatsVlanNumber-out</i>	(Optional) mib table index cisFilterStatsVlanNumber
<i>cisFilterAccessGroupDenied</i>	(Optional) mib object cisFilterAccessGroupDenied
<i>cisFilterLimitDenied</i>	(Optional) mib object cisFilterLimitDenied
<i>cisFilterTotalLimitDenied</i>	(Optional) mib object cisFilterTotalLimitDenied
<i>cisFilterMinVersionDenied</i>	(Optional) mib object cisFilterMinVersionDenied

## Command Mode

- /exec

## show ip igmp snooping snmp mib ifAccessGroupTable

```
show ip igmp snooping snmp mib ifAccessGroupTable [ interface <ifIndex-in> vlan <cisIfAccessGroupVlan-in>
] [ __readonly__ TABLE_cisIfAccessGroupTable <ifIndex-out> <cisIfAccessGroupVlan-out>
<cisIfAccessGroupsChannelsAllowed> <cisIfAccessGroupStorageType> <cisIfAccessGroupRowStatus> ]
```

### Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
snooping		IGMP Snooping information
snmp		Show SNMP
mib		Show MIB table
ifAccessGroupTable		Display interface access group
interface		(Optional) Display interface
<i>ifIndex-in</i>		(Optional) Interface Index
vlan		(Optional) Display Interface access group VLAN/BD information
<i>cisIfAccessGroupVlan-in</i>		(Optional) Specify VLAN/BD
<i>__readonly__</i>		(Optional)
TABLE_cisIfAccessGroupTable		(Optional)
<i>ifIndex-out</i>		(Optional) mib table index ifIndex
<i>cisIfAccessGroupVlan-out</i>		(Optional) mib table index cisIfAccessGroupVlan
<i>cisIfAccessGroupsChannelsAllowed</i>		(Optional) mib object cisIfAccessGroupsChannelsAllowed
<i>cisIfAccessGroupStorageType</i>		(Optional) mib object cisIfAccessGroupStorageType
<i>cisIfAccessGroupRowStatus</i>		(Optional) mib object cisIfAccessGroupRowStatus

### Command Mode

- /exec

# show ip igmp snooping snmp mib ifConfigTable

```
show ip igmp snooping snmp mib ifConfigTable [ interface <ifIndex-in> ] [ __readonly__
TABLE_cisIfConfigTable <ifIndex-out> <cisIfTopoChangeFloodEnabled> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
snooping		IGMP Snooping information
snmp		Show SNMP
mib		Show MIB table
ifConfigTable		Display interface configuration
interface		(Optional) Display interface
<i>ifIndex-in</i>		(Optional) Interface Index
<i>__readonly__</i>		(Optional)
TABLE_cisIfConfigTable		(Optional)
<i>ifIndex-out</i>		(Optional) mib table index ifIndex
<i>cisIfTopoChangeFloodEnabled</i>		(Optional) mib object cisIfTopoChangeFloodEnabled

## Command Mode

- /exec

## show ip igmp snooping snmp mib ifLimitTable

```
show ip igmp snooping snmp mib ifLimitTable [ interface <ifIndex-in> vlan <cisIfLimitVlanNumber-in> ]
[ __readonly__ TABLE_cisIfLimitTable <ifIndex-out> <cisIfLimitVlanNumber-out> <cisIfLimitMax>
<cisIfLimitExcludeAccessGrp> <cisIfLimitStorageType> <cisIfLimitRowStatus> ]
```

### Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
snooping		IGMP Snooping information
snmp		Show SNMP
mib		Show MIB table
ifLimitTable		Display interface configuration
interface		(Optional) Display interface
<i>ifIndex-in</i>		(Optional) Interface Index
vlan		(Optional) Display Interface Limit VLAN/BD information
<i>cisIfLimitVlanNumber-in</i>		(Optional) Specify VLAN/BD
<i>__readonly__</i>		(Optional)
TABLE_cisIfLimitTable		(Optional)
<i>ifIndex-out</i>		(Optional) mib table index ifIndex
<i>cisIfLimitVlanNumber-out</i>		(Optional) mib table index cisIfLimitVlanNumber
<i>cisIfLimitMax</i>		(Optional) mib object cisIfLimitMax
<i>cisIfLimitExcludeAccessGrp</i>		(Optional) mib object cisIfLimitExcludeAccessGrp
<i>cisIfLimitStorageType</i>		(Optional) mib object cisIfLimitStorageType
<i>cisIfLimitRowStatus</i>		(Optional) mib object cisIfLimitRowStatus

### Command Mode

- /exec

## show ip igmp snooping snmp mib ifLimitTotalTable

```
show ip igmp snooping snmp mib ifLimitTotalTable [ interface <ifIndex-in> ] [ __readonly__
TABLE_cisIfLimitTotalTable <ifIndex-out> <cisIfLimitTotalLimitMax> <cisIfLimitTotalExcludeAccessGrp>
<cisIfLimitTotalStorageType> <cisIfLimitTotalRowStatus> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifLimitTotalTable	Display interface configuration
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
<i>TABLE_cisIfLimitTotalTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfLimitTotalLimitMax</i>	(Optional) mib object cisIfLimitTotalLimitMax
<i>cisIfLimitTotalExcludeAccessGrp</i>	(Optional) mib object cisIfLimitTotalExcludeAccessGrp
<i>cisIfLimitTotalStorageType</i>	(Optional) mib object cisIfLimitTotalStorageType
<i>cisIfLimitTotalRowStatus</i>	(Optional) mib object cisIfLimitTotalRowStatus

### Command Mode

- /exec

# show ip igmp snooping snmp mib igmpsnoopingenabled

show ip igmp snooping snmp mib igmpsnoopingenabled [ \_\_readonly\_\_ <cisIgmpSnoopingEnabled> ]

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
igmpsnoopingenabled	Check if IGMP snooping is enabled
__readonly__	(Optional) Read Only
<i>cisIgmpSnoopingEnabled</i>	(Optional) mib object cisIgmpSnoopingEnabled

## Command Mode

- /exec

# show ip igmp snooping snmp mib interfaceStatsTable

```
show ip igmp snooping snmp mib interfaceStatsTable [ interface <ifIndex-in> ] [ __readonly__
TABLE_ cisInterfaceStatsTable <ifIndex-out> <cisTxGeneralQueries> <cisTxGroupSpecificQueries>
<cisTxReports> <cisTxLeaves> <cisRxGeneralQueries> <cisRxGroupSpecificQueries> <cisRxReports>
<cisRxLeaves> <cisRxValidPackets> <cisRxInvalidPackets> <cisRxOtherPackets>
<cisRxMACGeneralQueries> <cisRxTopoNotifications> <cisV3Allows> <cisV3Blocks> <cisV3IsIncluded>
<cisV3IsExcluded> <cisV3ToIncluded> <cisV3ToExcluded> ]
```

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
interfaceStatsTable	Display interface stats
interface	(Optional) Display interface information
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
TABLE_ cisInterfaceStatsTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisTxGeneralQueries</i>	(Optional) mib object cisTxGeneralQueries
<i>cisTxGroupSpecificQueries</i>	(Optional) mib object cisTxGroupSpecificQueries
<i>cisTxReports</i>	(Optional) mib object cisTxReports
<i>cisTxLeaves</i>	(Optional) mib object cisTxLeaves
<i>cisRxGeneralQueries</i>	(Optional) mib object cisRxGeneralQueries
<i>cisRxGroupSpecificQueries</i>	(Optional) mib object cisRxGroupSpecificQueries
<i>cisRxReports</i>	(Optional) mib object cisRxReports
<i>cisRxLeaves</i>	(Optional) mib object cisRxLeaves
<i>cisRxValidPackets</i>	(Optional) mib object cisRxValidPackets
<i>cisRxInvalidPackets</i>	(Optional) mib object cisRxInvalidPackets

<i>cisRxOtherPackets</i>	(Optional) mib object cisRxOtherPackets
<i>cisRxMACGeneralQueries</i>	(Optional) mib object cisRxMACGeneralQueries
<i>cisRxTopoNotifications</i>	(Optional) mib object cisRxTopoNotifications
<i>cisV3Allows</i>	(Optional) mib object cisV3Allows
<i>cisV3Blocks</i>	(Optional) mib object cisV3Blocks
<i>cisV3IsIncluded</i>	(Optional) mib object cisV3IsIncluded
<i>cisV3IsExcluded</i>	(Optional) mib object cisV3IsExcluded
<i>cisV3ToIncluded</i>	(Optional) mib object cisV3ToIncluded
<i>cisV3ToExcluded</i>	(Optional) mib object cisV3ToExcluded

**Command Mode**

- /exec



# show ip igmp snooping snmp mib lastMemeberQueryCount

```
show ip igmp snooping snmp mib lastMemeberQueryCount [ __readonly__ <cisLastMemberQueryCount>
]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
snooping		IGMP Snooping information
snmp		Show SNMP
mib		Show MIB table
lastMemeberQueryCount		Specifies the Last Member Query Count value of this device
__readonly__		(Optional) Read Only
<i>cisLastMemberQueryCount</i>		(Optional) mib object cisLastMemberQueryCount

## Command Mode

- /exec

# show ip igmp snooping snmp mib lastMemeberQueryInterval

```
show ip igmp snooping snmp mib lastMemeberQueryInterval [ __readonly__ <cisLastMemberQueryInterval> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
lastMemeberQueryInterval	Specifies the IGMP Last Member Query Interval of this device
__readonly__	(Optional) Read Only
<i>cisLastMemberQueryInterval</i>	(Optional) mib object cisLastMemberQueryInterval

## Command Mode

- /exec

# show ip igmp snooping snmp mib leaveQueryType

show ip igmp snooping snmp mib leaveQueryType [ \_\_readonly\_\_ <cisLeaveQueryType> ]

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
snooping		IGMP Snooping information
snmp		Show SNMP
mib		Show MIB table
leaveQueryType		Indicates type of leave query
__readonly__		(Optional) Read Only
<i>cisLeaveQueryType</i>		(Optional) mib object cisLeaveQueryType

## Command Mode

- /exec

# show ip igmp snooping snmp mib mcastGroupTable

```
show ip igmp snooping snmp mib mcastGroupTable [ vlan <cisMcastGroupVlanIndex-in>
<cisMcastGroupAddressType-in> <cisMcastGroupAddress-in> ][ __readonly__ TABLE_cisMcastGroupTable
<cisMcastGroupVlanIndex-out> <cisMcastGroupAddressType-out> <cisMcastGroupAddress-out>
<cisMcastGroupFilterMode> <cisMcastGroupIgmpVersion> <cisMcastGroupIncludeHostCount>
<cisMcastGroupExcludeHostCount> <cisMcastGroupPortList> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastGroupTable	Show mib table cisMcastGroupTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastGroupVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMcastGroupAddressType-in</i>	(Optional) Address type
<i>cisMcastGroupAddress-in</i>	(Optional) Group address
<i>__readonly__</i>	(Optional)
TABLE_cisMcastGroupTable	(Optional)
<i>cisMcastGroupVlanIndex-out</i>	(Optional) mib table index cisMcastGroupVlanIndex
<i>cisMcastGroupAddressType-out</i>	(Optional) mib table index cisMcastGroupAddressType
<i>cisMcastGroupAddress-out</i>	(Optional) mib table index cisMcastGroupAddress
<i>cisMcastGroupFilterMode</i>	(Optional) mib object cisMcastGroupFilterMode
<i>cisMcastGroupIgmpVersion</i>	(Optional) mib object cisMcastGroupIgmpVersion
<i>cisMcastGroupIncludeHostCount</i>	(Optional) mib object cisMcastGroupIncludeHostCount
<i>cisMcastGroupExcludeHostCount</i>	(Optional) mib object cisMcastGroupExcludeHostCount
<i>cisMcastGroupPortList</i>	(Optional) mib object cisMcastGroupPortList

## Command Mode

- /exec

# show ip igmp snooping snmp mib mcastRouterCfgTable

```
show ip igmp snooping snmp mib mcastRouterCfgTable [ interface <ifIndex-in> vlan
<cisMcastRouterVlanIndex-in> ] [ __readonly__ TABLE_cisMcastRouterCfgTable <ifIndex-out>
<cisMcastRouterVlanIndex-out> <cisMcastRouterType> <cisMcastRouterRowStatus> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastRouterCfgTable	show mib table cisMcastRouterCfgTable
interface	(Optional) Display Mcast Router Interface Information
<i>ifIndex-in</i>	(Optional) Specify the Mcast router interface
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastRouterVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisMcastRouterCfgTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisMcastRouterVlanIndex-out</i>	(Optional) mib table index cisMcastRouterVlanIndex
<i>cisMcastRouterType</i>	(Optional) mib object cisMcastRouterType
<i>cisMcastRouterRowStatus</i>	(Optional) mib object cisMcastRouterRowStatus

## Command Mode

- /exec

# show ip igmp snooping snmp mib mcastRouterConfigTable

```
show ip igmp snooping snmp mib mcastRouterConfigTable [ vlan <cisMcastRouterConfigVlanIndex-in>
interface <ifIndex-in> ] [ __readonly__ TABLE_ cisMcastRouterConfigTable <ifIndex-out>
<cisMcastRouterConfigVlanIndex-out> <cisMcastRouterConfigRouterType>
<cisMcastRouterConfigStorageType> <cisMcastRouterConfigRowStatus> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastRouterConfigTable	show mib table cisMcastRouterConfigTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastRouterConfigVlanIndex-in</i>	(Optional) Specify VLAN/BD
interface	(Optional) Display Mcast Router Interface Information
<i>ifIndex-in</i>	(Optional) Specify the Mcast router interface index
<i>__readonly__</i>	(Optional)
TABLE_ cisMcastRouterConfigTable	(Optional)
<i>cisMcastRouterConfigVlanIndex-out</i>	(Optional) mib table index cisMcastRouterConfigVlanIndex
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisMcastRouterConfigRouterType</i>	(Optional) mib object cisMcastRouterConfigRouterType
<i>cisMcastRouterConfigStorageType</i>	(Optional) mib object cisMcastRouterConfigStorageType
<i>cisMcastRouterConfigRowStatus</i>	(Optional) mib object cisMcastRouterConfigRowStatus

## Command Mode

- /exec

# show ip igmp snooping snmp mib multicastGroupConfigTable

```
show ip igmp snooping snmp mib multicastGroupConfigTable [ vlan <cisMulticastGroupConfVlanIndex-in>
<cisMulticastGroupConfCeVlanIndex-in> <cisMulticastGroupConfAddressType-in>
<cisMulticastGroupConfAddress-in> <cisMulticastGroupConfSourceAddress-in>
<cisMulticastGroupConfPortRange-in> ] [ __readonly__ TABLE_cisMulticastGroupConfigTable
<cisMulticastGroupConfVlanIndex-out> <cisMulticastGroupConfCeVlanIndex-out>
<cisMulticastGroupConfAddressType-out> <cisMulticastGroupConfAddress-out>
<cisMulticastGroupConfSourceAddress-out> <cisMulticastGroupConfPortRange-out>
<cisMulticastGroupConfPortList> <cisMulticastGroupConfStorageType> <cisMulticastGroupConfRowStatus>
]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
multicastGroupConfigTable	show mib table cisMulticastGroupConfigTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMulticastGroupConfVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMulticastGroupConfCeVlanIndex-in</i>	(Optional) Specify consumer edge VLAN/BD
<i>cisMulticastGroupConfAddressType-in</i>	(Optional) Group Address Type
<i>cisMulticastGroupConfAddress-in</i>	(Optional) Group address
<i>cisMulticastGroupConfSourceAddress-in</i>	(Optional) source address
<i>cisMulticastGroupConfPortRange-in</i>	(Optional) port Range
<i>__readonly__</i>	(Optional)
TABLE_cisMulticastGroupConfigTable	(Optional)
<i>cisMulticastGroupConfVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupConfVlanIndex
<i>cisMulticastGroupConfCeVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupConfCeVlanIndex
<i>cisMulticastGroupConfAddressType-out</i>	(Optional) mib table index cisMulticastGroupConfAddressType
<i>cisMulticastGroupConfAddress-out</i>	(Optional) mib table index cisMulticastGroupConfAddress

---

<i>cisMulticastGroupConfSourceAddress-out</i>	(Optional) mib table index cisMulticastGroupConfSourceAddress
<i>cisMulticastGroupConfPortRange-out</i>	(Optional) mib table index cisMulticastGroupConfPortRange
<i>cisMulticastGroupConfPortList</i>	(Optional) mib object cisMulticastGroupConfPortList
<i>cisMulticastGroupConfStorageType</i>	(Optional) mib object cisMulticastGroupConfStorageType
<i>cisMulticastGroupConfRowStatus</i>	(Optional) mib object index cisMulticastGroupConfRowStatus

---

**Command Mode**

- /exec



# show ip igmp snooping snmp mib multicastGroupPortListTable

```
show ip igmp snooping snmp mib multicastGroupPortListTable [ vlan <cisMulticastGroupVlanIndex-in>
<cisMulticastGroupCeVlanIndex-in> <cisMulticastGroupAddressType-in> <cisMulticastGroupAddress-in>
<cisMulticastGroupSourceAddress-in> <cisMulticastGroupPortRangeIndex-in> ] [ __readonly__
TABLE_ cisMulticastGroupPortListTable <cisMulticastGroupVlanIndex-out>
<cisMulticastGroupCeVlanIndex-out> <cisMulticastGroupAddressType-out> <cisMulticastGroupAddress-out>
<cisMulticastGroupSourceAddress-out> <cisMulticastGroupPortRangeIndex-out> <cisMulticastGroupPortList>
]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
multicastGroupPortListTable	show mib table multicastGroupPortListTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMulticastGroupVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMulticastGroupCeVlanIndex-in</i>	(Optional) Specify consumer edge VLAN/BD
<i>cisMulticastGroupAddressType-in</i>	(Optional) Group Address Type
<i>cisMulticastGroupAddress-in</i>	(Optional) Group address
<i>cisMulticastGroupSourceAddress-in</i>	(Optional) source address
<i>cisMulticastGroupPortRangeIndex-in</i>	(Optional) port Range Index
<i>__readonly__</i>	(Optional)
TABLE_ cisMulticastGroupPortListTable	(Optional)
<i>cisMulticastGroupVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupVlanIndex
<i>cisMulticastGroupCeVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupCeVlanIndex
<i>cisMulticastGroupAddressType-out</i>	(Optional) mib table index cisMulticastGroupAddressType
<i>cisMulticastGroupAddress-out</i>	(Optional) mib table index cisMulticastGroupAddress
<i>cisMulticastGroupSourceAddress-out</i>	(Optional) mib table index cisMulticastGroupSourceAddress

---

*cisMulticastGroupPortRangeIndex-out* (Optional) mib table index cisMulticastGroupPortRangeIndex

---

*cisMulticastGroupPortList* (Optional) mib object cisMulticastGroupPortList

---

**Command Mode**

- /exec

# show ip igmp snooping snmp mib multicastGroupTable

```
show ip igmp snooping snmp mib multicastGroupTable [ vlan <cisMulticastGroupVlanIndex-in>
<cisMulticastGroupCeVlanIndex-in> <cisMulticastGroupAddressType-in> <cisMulticastGroupAddress-in>
<cisMulticastGroupSourceAddress-in> ] [ __readonly__ TABLE_cisMulticastGroupTable
<cisMulticastGroupVlanIndex-out> <cisMulticastGroupCeVlanIndex-out>
<cisMulticastGroupAddressType-out> <cisMulticastGroupAddress-out>
<cisMulticastGroupSourceAddress-out> <cisMulticastGroupGroupType> <cisMulticastGroupIgmppVersion>
<cisMulticastGroupSourceUpTime> <cisMulticastGroupSourceExpires> <cisMulticastGroupInclHostCount>
<cisMulticastGroupExclHostCount> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
multicastGroupTable	show mib table multicastGroupTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMulticastGroupVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMulticastGroupCeVlanIndex-in</i>	(Optional) Specify consumer edge VLAN/BD
<i>cisMulticastGroupAddressType-in</i>	(Optional) Group Address Type
<i>cisMulticastGroupAddress-in</i>	(Optional) Group address
<i>cisMulticastGroupSourceAddress-in</i>	(Optional) Source address
__readonly__	(Optional)
TABLE_cisMulticastGroupTable	(Optional)
<i>cisMulticastGroupVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupVlanIndex
<i>cisMulticastGroupCeVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupCeVlanIndex
<i>cisMulticastGroupAddressType-out</i>	(Optional) mib table index cisMulticastGroupAddressType
<i>cisMulticastGroupAddress-out</i>	(Optional) mib table index cisMulticastGroupAddress
<i>cisMulticastGroupSourceAddress-out</i>	(Optional) mib table index cisMulticastGroupSourceAddress

<i>cisMulticastGroupGroupType</i>	(Optional) mib object cisMulticastGroupGroupType
<i>cisMulticastGroupIgmpVersion</i>	(Optional) mib object cisMulticastGroupIgmpVersion
<i>cisMulticastGroupSourceUpTime</i>	(Optional) mib object cisMulticastGroupSourceUpTime
<i>cisMulticastGroupSourceExpires</i>	(Optional) mib object cisMulticastGroupSourceExpires
<i>cisMulticastGroupInclHostCount</i>	(Optional) mib object cisMulticastGroupInclHostCount
<i>cisMulticastGroupExclHostCount</i>	(Optional) mib object cisMulticastGroupExclHostCount

**Command Mode**

- /exec

# show ip igmp snooping snmp mib operMode

show ip igmp snooping snmp mib operMode [ *\_\_readonly\_\_* <cisOperMode> ]

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
igmp	Display IGMP status and configuration	
snooping	IGMP Snooping information	
snmp	Show SNMP	
mib	Show MIB table	
operMode	Indicates the operational snooping mode of the device	
<i>__readonly__</i>	(Optional) Read Only	
<i>cisOperMode</i>	(Optional) mib object cisOperMode	

## Command Mode

- /exec

## show ip igmp snooping snmp mib querierTable

```
show ip igmp snooping snmp mib querierTable [ vlan <cisIgmpQuerierVlanIndex-in> ] [ __readonly__
TABLE_cisIgmpQuerierTable <cisIgmpQuerierVlanIndex-out> <cisIgmpQuerierEnabled>
<cisIgmpQuerierState> <cisIgmpQuerierVersion> <cisIgmpQuerierAddressType> <cisIgmpQuerierAddress>
<cisIgmpQuerierInterface> <cisIgmpQuerierTcnQueryCount> <cisIgmpQuerierTcnQueryInterval>
<cisIgmpQuerierTimerExpiry> <cisIgmpQuerierMaxResponseTime> <cisIgmpQuerierQueryInterval>
<cisIgmpQuerierAdminAddressType> <cisIgmpQuerierAdminAddress> <cisIgmpQuerierAdminVersion>
<cisIgmpQuerierTcnQueryPending> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
querierTable	Show mib table cisIgmpQuerierTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisIgmpQuerierVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisIgmpQuerierTable</i>	(Optional)
<i>cisIgmpQuerierVlanIndex-out</i>	(Optional) mib table index cisIgmpQuerierVlanIndex
<i>cisIgmpQuerierEnabled</i>	(Optional) mib object cisIgmpQuerierEnabled
<i>cisIgmpQuerierState</i>	(Optional) mib object cisIgmpQuerierState
<i>cisIgmpQuerierVersion</i>	(Optional) mib object cisIgmpQuerierVersion
<i>cisIgmpQuerierAddressType</i>	(Optional) mib object cisIgmpQuerierAddressType
<i>cisIgmpQuerierAddress</i>	(Optional) mib object cisIgmpQuerierAddress
<i>cisIgmpQuerierInterface</i>	(Optional) mib object cisIgmpQuerierInterface
<i>cisIgmpQuerierTcnQueryCount</i>	(Optional) mib object cisIgmpQuerierTcnQueryCount
<i>cisIgmpQuerierTcnQueryInterval</i>	(Optional) mib object cisIgmpQuerierTcnQueryInterval
<i>cisIgmpQuerierTimerExpiry</i>	(Optional) mib object cisIgmpQuerierTimerExpiry

---

*cisIgmpQuerierMaxResponseTime* (Optional) mib object cisIgmpQuerierMaxResponseTime

---

*cisIgmpQuerierQueryInterval* (Optional) mib object cisIgmpQuerierQueryInterval

---

*cisIgmpQuerierAdminAddressType* (Optional) mib object cisIgmpQuerierAdminAddressType

---

*cisIgmpQuerierAdminAddress* (Optional) mib object cisIgmpQuerierAdminAddress

---

*cisIgmpQuerierAdminVersion* (Optional) mib object cisIgmpQuerierAdminVersion

---

*cisIgmpQuerierTcnQueryPending* (Optional) mib object cisIgmpQuerierTcnQueryPending

---

#### Command Mode

- /exec

# show ip igmp snooping snmp mib reportsuppressionenabled

```
show ip igmp snooping snmp mib reportsuppressionenabled [ __readonly__ <cisReportSuppressionEnabled> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
snooping		IGMP Snooping information
snmp		Show SNMP
mib		Show MIB table
reportsuppressionenabled		Check if reportsuppression is enabled
__readonly__		(Optional) Read Only
<i>cisReportSuppressionEnabled</i>		(Optional) mib object cisReportSuppressionEnabled

## Command Mode

- /exec



# show ip igmp snooping snmp mib robustnessVariable

show ip igmp snooping snmp mib robustnessVariable [ \_\_readonly\_\_ <cisRobustnessVariable> ]

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
snooping		IGMP Snooping information
snmp		Show SNMP
mib		Show MIB table
robustnessVariable		Specifies the Robustness Variable of this device
__readonly__		(Optional) Read Only
<i>cisRobustnessVariable</i>		(Optional) mib object cisRobustnessVariable

## Command Mode

- /exec

# show ip igmp snooping snmp mib routerAlertCheckEnabled

```
show ip igmp snooping snmp mib routerAlertCheckEnabled [ __readonly__ <cisLastMemberQueryCount>
]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
routerAlertCheckEnabled	Specifies whether checking of Router-Alert option is enabled for IGMP traffic in the system
__readonly__	(Optional) Read Only
<i>cisLastMemberQueryCount</i>	(Optional) mib object cisLastMemberQueryCount

## Command Mode

- /exec

# show ip igmp snooping snmp mib sourceOnlyEntryAgingTime

```
show ip igmp snooping snmp mib sourceOnlyEntryAgingTime [ __readonly__
<cisSourceOnlyEntryAgingTime> ]
```

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
sourceOnlyEntryAgingTime	Specifies the aging time in seconds for Source Only multicast entries
__readonly__	(Optional) Read Only
<i>cisSourceOnlyEntryAgingTime</i>	(Optional) mib object cisSourceOnlyEntryAgingTime

## Command Mode

- /exec

# show ip igmp snooping snmp mib sourceOnlyLearningEnabled

```
show ip igmp snooping snmp mib sourceOnlyLearningEnabled [ __readonly__
<cisSourceOnlyLearningEnabled> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
sourceOnlyLearningEnabled	Specifies whether Source Only multicast entries are learned by IGMP Snooping or not
__readonly__	(Optional) Read Only
<i>cisSourceOnlyLearningEnabled</i>	(Optional) mib object cisSourceOnlyLearningEnabled

## Command Mode

- /exec

# show ip igmp snooping snmp mib tcnFloodQueryCount

```
show ip igmp snooping snmp mib tcnFloodQueryCount [ __readonly__ <cisTopoChangeFloodQueryCount>
]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
tcnFloodQueryCount	Specifies the flooding period for multicast traffic upon receiving Topology Change Notifications
__readonly__	(Optional) Read Only
<i>cisTopoChangeFloodQueryCount</i>	(Optional) mib object cisTopoChangeFloodQueryCount

## Command Mode

- /exec

# show ip igmp snooping snmp mib timeToLiveCheckEnabled

```
show ip igmp snooping snmp mib timeToLiveCheckEnabled [ __readonly__ <cisTimeToLiveCheckEnabled> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
timeToLiveCheckEnabled	Specifies whether Time-To-Live (TTL) check is enabled when processing IGMP packets in the system
__readonly__	(Optional) Read Only
<i>cisTimeToLiveCheckEnabled</i>	(Optional) mib object cisTimeToLiveCheckEnabled

## Command Mode

- /exec

# show ip igmp snooping snmp mib topoChangeQuerySolicitEnabled

```
show ip igmp snooping snmp mib topoChangeQuerySolicitEnabled [ __readonly__
<cisTopoChangeQuerySolicitEnabled> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
topoChangeQuerySolicitEnabled	Specifies whether the device running IGMP Snooping will solicit IGMP General Queries from the Querier upon receiving a TCN
__readonly__	(Optional) Read Only
<i>cisTopoChangeQuerySolicitEnabled</i>	(Optional) mib object cisTopoChangeQuerySolicitEnabled

## Command Mode

- /exec

# show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus

```
show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus [ __readonly__
<cisV3ProcessEnabledAdminStatus> ]
```

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
v3ProcessEnabledAdminStatus	Indicates the administrative status of IGMP v3 processing in the system
__readonly__	(Optional) Read Only
<i>cisV3ProcessEnabledAdminStatus</i>	(Optional) mib object cisV3ProcessEnabledAdminStatus

## Command Mode

- /exec



# show ip igmp snooping snmp mib v3SnoopingSupport

show ip igmp snooping snmp mib v3SnoopingSupport [ \_\_readonly\_\_ <cisV3SnoopingSupport> ]

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
igmp	Display IGMP status and configuration	
snooping	IGMP Snooping information	
snmp	Show SNMP	
mib	Show MIB table	
v3SnoopingSupport	Indicates IGMP Snooping support for IGMPv3	
__readonly__	(Optional) Read Only	
<i>cisV3SnoopingSupport</i>	(Optional) mib object cisV3SnoopingSupport	

## Command Mode

- /exec

## show ip igmp snooping snmp mib vlanFilterConfigTable

```
show ip igmp snooping snmp mib vlanFilterConfigTable [ vlan <cisVlanIndex-in> ] [ __readonly__
TABLE_cisVlanFilterConfigTable <cisVlanIndex-out> <cisVlanFilterAccessGroup> <cisVlanFilterLimitMax>
<cisVlanFilterLimitExclAccessGrp> <cisVlanFilterMinVersionAllowed> ]
```

### Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
vlanFilterConfigTable	Display VLAN/BD Filter Group
vlan	(Optional) Display Interface access group VLAN/BD information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisVlanFilterConfigTable	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib talbe index cisVlanIndex>
<i>cisVlanFilterAccessGroup</i>	(Optional) mib table index cisVlanFilterAccessGroup
<i>cisVlanFilterLimitMax</i>	(Optional) mib object cisVlanFilterLimitMax
<i>cisVlanFilterLimitExclAccessGrp</i>	(Optional) mib object cisVlanFilterLimitExclAccessGrp
<i>cisVlanFilterMinVersionAllowed</i>	(Optional) mib object cisVlanFilterMinVersionAllowed

### Command Mode

- /exec

# show ip igmp snooping snmp mib vlanconfigtable

```
show ip igmp snooping snmp mib vlanconfigtable [ vlan <cisVlanIndex-in> ] [ __readonly__
TABLE_cisVlanConfigTable <cisVlanIndex-out> <cisVlanIgmpSnoopingEnabled>
<cisVlanFastLeaveEnabled> <cisVlanIgmpSnoopingOperMode> <cisVlanIgmpSnoopingLearningMode>
<cisVlanReportSuppressionEnabled> <cisVlanLeaveQueryInterval> <cisVlanLastMemberQueryCount>
<cisVlanRobustnessVariable> <cisVlanTimeToLiveCheckEnabled> <cisVlanRouterAlertCheckEnabled> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
vlanconfigtable	Show mib table cisVlanConfigTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisVlanConfigTable	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib table index cisVlanIndex
<i>cisVlanIgmpSnoopingEnabled</i>	(Optional) mib object cisVlanIgmpSnoopingEnabled
<i>cisVlanFastLeaveEnabled</i>	(Optional) mib object cisVlanFastLeaveEnabled
<i>cisVlanIgmpSnoopingOperMode</i>	(Optional) mib object cisVlanIgmpSnoopingOperMode
<i>cisVlanIgmpSnoopingLearningMode</i>	(Optional) mib object cisVlanIgmpSnoopingLearningMode
<i>cisVlanReportSuppressionEnabled</i>	(Optional) mib object cisVlanReportSuppressionEnabled
<i>cisVlanLeaveQueryInterval</i>	(Optional) mib object cisVlanLeaveQueryInterval
<i>cisVlanLastMemberQueryCount</i>	(Optional) mib object cisVlanLastMemberQueryCount
<i>cisVlanRobustnessVariable</i>	(Optional) mib object cisVlanRobustnessVariable
<i>cisVlanTimeToLiveCheckEnabled</i>	(Optional) mib object cisVlanTimeToLiveCheckEnabled
<i>cisVlanRouterAlertCheckEnabled</i>	(Optional) mib object cisVlanRouterAlertCheckEnabled

**Command Mode**

- /exec

## show ip igmp snooping statistics

```
show ip igmp snooping statistics [ global | vlan <vlan> | bridge-domain <bdid> ] [ __readonly__ <pr> <inv_pkt>
<pnv> <pf> <vpcdrqs> <vpcdrqr> <vpcdrqf> <vpcdrus> <vpcdrur> <vpcdruf> <vpccfssf> <vpccfsrcs>
<vpccfsrr> <vpccfsrf> <vpccfsrff> <vpccfsurlr> <vpccfsurlr> <vpccfsurlf> <vpccfsrll> <vpccfsrllr>
<vpccfsrllf> <inv_iod> <stptcnr> <imapif> <mfreqr> <mfemps> <mfdbgmps> <bufsnt> <bufackr> {
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

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	
vlan	(Optional) Specify VLAN	
bridge-domain	(Optional) Display BD statistics	
bdid	(Optional) Specify BD	
__readonly__	(Optional)	
pr	(Optional)	
inv_pkt	(Optional)	
pnv	(Optional)	
pf	(Optional)	
vpcdrqs	(Optional)	
vpcdrqr	(Optional)	
vpcdrqf	(Optional)	
vpcdrus	(Optional)	
vpcdrur	(Optional)	
vpcdruf	(Optional)	

<i>vpccfssf</i>	(Optional)
<i>vpccfsrs</i>	(Optional)
<i>vpccfsrr</i>	(Optional)
<i>vpccfsrf</i>	(Optional)
<i>vpccfsrfp</i>	(Optional)
<i>vpccfsurls</i>	(Optional)
<i>vpccfsurlr</i>	(Optional)
<i>vpccfsurlf</i>	(Optional)
<i>vpccfsrls</i>	(Optional)
<i>vpccfsrlr</i>	(Optional)
<i>vpccfsrlf</i>	(Optional)
<i>inv_iod</i>	(Optional)
<i>stptcnr</i>	(Optional)
<i>imapif</i>	(Optional)
<i>mfreqr</i>	(Optional)
<i>mfcmps</i>	(Optional)
<i>mfldgcmps</i>	(Optional)
<i>bufsnt</i>	(Optional)
<i>bufackr</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

Syntax Description		
show		Show running system information
ip		Display IP information
igmp		Display IGMP status and configuration
vrf		Display per-VRF information
all		Display information for all VRFs
<i>__readonly__</i>		(Optional)
<i>TABLE_vrfname</i>		(Optional)
<i>vrf-name</i>		(Optional)
<i>vrf-id</i>		(Optional)
<i>instance</i>		(Optional)
<i>work-in-txlist</i>		(Optional)
<i>TABLE_vrfid</i>		(Optional)
<i>vrf-name-i</i>		(Optional)
<i>vrf-id-i</i>		(Optional)
<i>instance-i</i>		(Optional)
<i>work-in-txlist-i</i>		(Optional)

## Command Mode

- /exec



# show ip interface

```
show ip interface { { { brief [ include-secondary ] } | [ <interface> ] | [ <ip-addr> ] } [ operational ] [ vaddr ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf <vrf-name-out> ] [ TABLE_intf
<intf-name> <proto-state> <link-state> <admin-state> <iod> <prefix> <subnet> <masklen> [
TABLE_secondary_address <prefix1> <subnet1> <masklen1> ] [ <num-addr> ] [ <vaddr-client> ] [
<vaddr-prefix> ] [ <vaddr-subnet> ] [ <vaddr-masklen> ] [ <num-vaddr> ] [ <unnum-intf> ] [ <ip-disabled>
] [ <bcast-addr> ] [ <maddr> ] [ <num-maddr> ] [ <mtu> ] [ <pref> ] [ <tag> ] [ <proxy-arp> ] [ <lcl-proxy-arp>
] [ <mrouting> ] [ <icmp-redirect> ] [ <dir-bcast> ] [ <ip-unreach> ] [ <port-unreach> ] [ <urpf-mode> ] [
<ip-ls-type> ] [ <urpf-acl> ] [ <pbr-in> ] [ <pbr-out> ] [ <acl-in> ] [ <acl-out> ] [ <stats-last-reset> ] [
<upkt-sent> ] [ <upkt-recv> ] [ <upkt-fwd> ] [ <upkt-orig> ] [ <upkt-consumed> ] [ <ubyte-sent> ] [
<ubyte-recv> ] [ <ubyte-fwd> ] [ <ubyte-orig> ] [ <ubyte-consumed> ] [ <mpkt-sent> ] [ <mpkt-recv> ] [
<mpkt-fwd> ] [ <mpkt-orig> ] [ <mpkt-consumed> ] [ <mbyte-sent> ] [ <mbyte-recv> ] [ <mbyte-fwd> ] [
<mbyte-orig> ] [ <mbyte-consumed> ] [ <bpkt-sent> ] [ <bpkt-recv> ] [ <bpkt-fwd> ] [ <bpkt-orig> ] [
<bpkt-consumed> ] [ <bbyte-sent> ] [ <bbyte-recv> ] [ <bbyte-fwd> ] [ <bbyte-orig> ] [ <bbyte-consumed>
] [ <lpkt-sent> ] [ <lpkt-recv> ] [ <lpkt-fwd> ] [ <lpkt-orig> ] [ <lpkt-consumed> ] [ <lbyte-sent> ] [
<lbyte-recv> ] [ <lbyte-fwd> ] [ <lbyte-orig> ] [ <lbyte-consumed> ] ] ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
interface	Display IP related interface information
brief	Display summary of IP interface status and configuration
include-secondary	(Optional) Display summary of all IP addresses
operational	(Optional) Display only interfaces that are administratively enabled
<i>interface</i>	(Optional) Interface name to display
<i>ip-addr</i>	(Optional) Display interface for local IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
vaddr	(Optional) Display virtual IP addresses as well
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)

<i>intf-name</i>	(Optional)
<i>iod</i>	(Optional)
<i>prefix</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>subnet</i>	(Optional)
<i>masklen</i>	(Optional)
TABLE_secondary_address	(Optional)
<i>prefix1</i>	(Optional)
<i>subnet1</i>	(Optional)
<i>masklen1</i>	(Optional)
<i>num-addr</i>	(Optional)
<i>vaddr-client</i>	(Optional)
<i>vaddr-prefix</i>	(Optional)
<i>vaddr-subnet</i>	(Optional)
<i>vaddr-masklen</i>	(Optional)
<i>num-vaddr</i>	(Optional)
<i>unnum-intf</i>	(Optional)
<i>ip-disabled</i>	(Optional)
<i>bcast-addr</i>	(Optional)
<i>maddr</i>	(Optional)
<i>num-maddr</i>	(Optional)
<i>mtu</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>proxy-arp</i>	(Optional)
<i>lcl-proxy-arp</i>	(Optional)
<i>mrouting</i>	(Optional)

<i>icmp-redirect</i>	(Optional)
<i>dir-bcast</i>	(Optional)
<i>ip-unreach</i>	(Optional)
<i>port-unreach</i>	(Optional)
<i>urpf-mode</i>	(Optional)
<i>ip-ls-type</i>	(Optional)
<i>urpf-acl</i>	(Optional)
<i>pbr-in</i>	(Optional)
<i>pbr-out</i>	(Optional)
<i>acl-in</i>	(Optional)
<i>acl-out</i>	(Optional)
<i>stats-last-reset</i>	(Optional)
<i>upkt-sent</i>	(Optional)
<i>upkt-recv</i>	(Optional)
<i>upkt-fwd</i>	(Optional)
<i>upkt-orig</i>	(Optional)
<i>upkt-consumed</i>	(Optional)
<i>ubyte-sent</i>	(Optional)
<i>ubyte-recv</i>	(Optional)
<i>ubyte-fwd</i>	(Optional)
<i>ubyte-orig</i>	(Optional)
<i>ubyte-consumed</i>	(Optional)
<i>mpkt-sent</i>	(Optional)
<i>mpkt-recv</i>	(Optional)
<i>mpkt-fwd</i>	(Optional)
<i>mpkt-orig</i>	(Optional)
<i>mpkt-consumed</i>	(Optional)
<i>mbyte-sent</i>	(Optional)
<i>mbyte-recv</i>	(Optional)

<i>mbyte-fwd</i>	(Optional)
<i>mbyte-orig</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>bpkt-sent</i>	(Optional)
<i>bpkt-recv</i>	(Optional)
<i>bpkt-fwd</i>	(Optional)
<i>bpkt-orig</i>	(Optional)
<i>bpkt-consumed</i>	(Optional)
<i>bbyte-sent</i>	(Optional)
<i>bbyte-recv</i>	(Optional)
<i>bbyte-fwd</i>	(Optional)
<i>bbyte-orig</i>	(Optional)
<i>bbyte-consumed</i>	(Optional)
<i>lpkt-sent</i>	(Optional)
<i>lpkt-recv</i>	(Optional)
<i>lpkt-fwd</i>	(Optional)
<i>lpkt-orig</i>	(Optional)
<i>lpkt-consumed</i>	(Optional)
<i>lbyte-sent</i>	(Optional)
<i>lbyte-recv</i>	(Optional)
<i>lbyte-fwd</i>	(Optional)
<i>lbyte-orig</i>	(Optional)
<i>lbyte-consumed</i>	(Optional)

**Command Mode**

- /exec

# show ip internal

```
show ip internal { ppf | { { acl | pbr } { status [ detail ] | interface <interface> [ { ingress | egress } ] } } }
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
internal	Display internal IP information
acl	Show info for IP software ACL
pbr	Show info for IP software route-maps
status	Show IP Software Acl status
detail	(Optional) Show detailed information
ppf	Show acl ppf internal info
interface	Display interface acl info
<i>interface</i>	Interface for which info is required
ingress	(Optional) Only ingress Direction
egress	(Optional) Only on Egress Direction

## Command Mode

- /exec

# show ip internal bfd data

```
show ip internal bfd data [ { vrf { <vrf-name> | <vrf-known-name> | all } | interface <interface> } ]
```

## Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	internal	Commands for internal use
	bfd	show bfd related internal information
	data	bfd internal data structure
	vrf	(Optional) Display per-VRF information
	all	(Optional) Display all VRFs
	interface	(Optional) Display interface related bfd information
	<i>interface</i>	(Optional) Interface for which bfd info is required
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

# show ip internal context array

show ip internal [ api ] context array

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	ip	Display IP information
	internal	Commands for internal use
	api	(Optional) Show api values
	context	Display context info
	array	Print the array which stores context ptrs

## Command Mode

- /exec

## show ip internal event-history

show ip internal event-history { errors | msgs | ipc | ha | log | ppf | cli | vrf-errors | arp-miss | snmp | static-rt | lcache-err | lcache-trace | pkt-buffer | objstr }

### Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
internal	Commands for internal use	
event-history	Show various event logs of IP	
errors	Show error logs of IP	
msgs	Show various message logs of IP	
log	Show syslog message of IP	
ipc	Show ipc debug message of IP	
snmp	Show snmp debug message of IP	
ha	Show ha debug message of IP	
ppf	Show ppf debug message of IP	
cli	Show cli interaction debug messages for IP	
vrf-errors	Show vrf related errors	
arp-miss	Show arp miss debug message of IP	
static-rt	Show ip static route events	
lcache-err	Show lcache error message	
lcache-trace	Show lcache trace message	
pkt-buffer	Show ip packet buffer events	
objstr	Show ip Object Store logs	

### Command Mode

- /exec



# show ip internal event-history bfd

show ip internal event-history bfd

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
internal	Commands for internal use
event-history	Show various event logs of IP
bfd	Show bfd related event history

## Command Mode

- /exec

## show ip internal event-history buffer-size

```
show ip internal event-history buffer-size { errors | log | ipc | snmp | ha | ppf | cli | vrf-errors | arp-miss | static-rt
| pkt-buffer | all }
```

### Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	internal	Commands for internal use
	event-history	various event logs of IP
	buffer-size	Show current size of the buffers
	errors	Show error logs buffer size of IP
	log	Show syslog message buffer size of IP
	ipc	Show ipc debug message buffer size of IP
	snmp	Show snmp debug message buffer size of IP
	ha	Show ha debug message buffer size of IP
	ppf	Show ppf debug message buffer size of IP
	cli	Show cli interaction debug messages buffer size for IP
	vrf-errors	Show vrf related errors buffer size
	arp-miss	Show arp miss debug message buffer size of IP
	static-rt	Show ip static events buffer size
	pkt-buffer	Show packet buffer events buffer size
	all	Show sizes of all event history buffers

### Command Mode

- /exec

# show ip internal hmm

show ip internal hmm

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
internal	Commands for internal use
hmm	HMM info

## Command Mode

- /exec

# show ip internal igmp-snoop-stats

show ip internal igmp-snoop-stats

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	internal	Commands for internal use
	igmp-snoop-stats	IP IGMP SNOOP Statistics

## Command Mode

- /exec

# show ip internal info

show ip internal info [ unnumbered | directed-broadcast ]

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
internal		Commands for internal use
info		Commands for internal use
unnumbered		(Optional) dump ip unnumberd data struct
directed-broadcast		(Optional) directed broadcast pt

## Command Mode

- /exec

# show ip internal info interface

show ip internal info interface [ iod <if\_iod> | <interface> | all ]

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
internal	Commands for internal use
info	Commands for internal use
interface	Display IP related interface information
<i>interface</i>	(Optional) Interface name to display
iod	(Optional) If-ordinal of interface
<i>if_iod</i>	(Optional) If-ordinal of interface
all	(Optional) display info for all interfaces

## Command Mode

- /exec

# show ip internal mem

```
show ip internal { { mem-stats [ shared | all ] [ no-libs ] [ detail ] } | boot-info }
```

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
internal	Display internal IP information	
mem-stats	Show memory allocation statistics	
shared	(Optional) Display shared memory statistics	
all	(Optional) Display private and shared memory statistics	
no-libs	(Optional) Exclude libraries	
detail	(Optional) Display detailed information	
boot-info	Show boot-time ip configuration	

## Command Mode

- /exec

# show ip lisp

```
show { ip | ipv6 } lisp [ database ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

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

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

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

### 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

### 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

Syntax Description		
show	Show running system information	
ip	Display IP information	
ipv6	Display IPv6 information	
lisp	LISP show commands	
translate-cache	Display configured translation cache	
<i>nrEID</i>	(Optional) IPv4 address of inside non-routable EID	
<i>nrEID6</i>	(Optional) IPv6 address of inside non-routable EID	

## Command Mode

- /exec

# show ip lisp version-hash

show { ip | ipv6 } lisp version-hash { <eid-prefix> | <eid-prefix6> }

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
ipv6	Display IPv6 information	
lisp	LISP show commands	
version-hash	Display version-hash for EID-record	
<i>eid-prefix</i>	Local IP EID-prefix from database-mapping command	

## Command Mode

- /exec

# show ip load-sharing

```
show ip load-sharing [ __readonly__ { <univer-id-ran-seed> [ <l3-msg-load> ] [ <l34-msg-load> ] [ <dest-addr-load> ] [ <src-dst-ip-gre> ] [ <bad-load> ] } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Configure IP features
load-sharing		Display global loadbalance info
<i>__readonly__</i>	(Optional)	
<i>univer-id-ran-seed</i>	(Optional)	
<i>l3-msg-load</i>	(Optional)	
<i>l34-msg-load</i>	(Optional)	
<i>dest-addr-load</i>	(Optional)	
<i>src-dst-ip-gre</i>	(Optional)	
<i>bad-load</i>	(Optional)	

## Command Mode

- /exec

# show ip local-pt

```
show ip local-pt [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
local-pt		Display local ip address ptree
vrf	(Optional)	Clear information for particular VRF
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
all	(Optional)	Display information for all VRFs

## Command Mode

- /exec



# show ip local policy

```
show ip local policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_pbr <interface>
<rmap> <status> <vrf_name> ]
```

## Syntax Description

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	
<i>__readonly__</i>	(Optional)	
TABLE_pbr	(Optional)	
<i>interface</i>	(Optional)	
<i>rmap</i>	(Optional)	
<i>status</i>	(Optional)	
<i>vrf_name</i>	(Optional)	

## Command Mode

- /exec

# show ip logging

```
show ip logging [ hash ] [ __readonly__ ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
logging		Display IP policy logging table
hash		(Optional) logging hash data
__readonly__		(Optional)

## Command Mode

- /exec

# show ip mbgp

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast | mdt } |
all } ] } } [ <ip-addr> [ <ip-mask> [ longer-prefixes ] ] | <ip-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ip-addr</i>	(Optional) Display one particular network from the BRIB in detail
<i>ip-mask</i>	(Optional) Mask for one particular prefix in the BRIB
<i>ip-prefix</i>	(Optional) Display one particular prefix from the BRIB in detail
longer-prefixes	(Optional) Display route and more specific routes
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
mdt	(Optional) Display BGP information for multicast distribution tree
all	(Optional) Display BGP information for all address families

## Command Mode

- /exec

## show ip mbgp

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } | route-map { <rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | {
community-list { <commlist-name> | <test_pol_name> } | extcommunity-list { <extcommlist-name> |
<test_pol_name> } } [ exact-match ] } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
route-map	Display routes matching the route-map
<i>rmap-name</i>	Route-map name
<i>rmap-name</i>	Known route-map name
filter-list	Display routes matching the filter-list
<i>fltrlist-name</i>	Name of filter-list
community-list	Display routes matching the community-list
extcommunity-list	Display routes matching the extcommunity-list
<i>commlist-name</i>	Name of community-list
<i>extcommlist-name</i>	Name of extcommunity-list
<i>test_pol_name</i>	An existing test-list policy
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
exact-match	(Optional) Exact match of the communities

**Command Mode**

- /exec

# show ip mbgp community

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } community { <regexp-str> | { { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ] }
```

## Syntax Description

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

### 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

#### 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

#### 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

#### 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

#### 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

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

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

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 msdp count

```
show ip msdp count [ <asn> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-vrf>
<total-cnt> { TABLE_asn <out-asn> <src-cnt> <grp-cnt> } ]
```

### Syntax Description

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
	<i>__readonly__</i>	(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

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 internal

show ip msdp internal

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

ip Display IP information

---

msdp Display MSDP status and configuration

---

internal Commands for internal use

---

## Command Mode

- /exec

# show ip msdp internal errors

show ip msdp internal errors

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
internal	Commands for internal use
errors	Show MSDP errors

## Command Mode

- /exec

# show ip msdp internal library-info

show ip msdp internal library-info

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
internal	Commands for internal use
library-info	Show various event logs of library

## Command Mode

- /exec

# show ip msdp internal mem-stats

show ip msdp internal mem-stats [ no-libs ] [ detail ]

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
msdp	Display MSDP status and configuration	
internal	Commands for internal use	
mem-stats	Show memory allocation statistics	
no-libs	(Optional) Exclude libraries	
detail	(Optional) Display detailed information	

## Command Mode

- /exec

## show ip msdp internal mrib

```
show ip msdp internal { mrib-txlist [ vrf { <vrf-name> | <vrf-known-name> } ] | mrib-buffers }
```

### Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	msdp	Display MSDP status and configuration
	internal	Commands for internal use
	mrib-txlist	Show MRIB transmission-list information
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	mrib-buffers	Show MRIB route buffer information

### Command Mode

- /exec

# show ip msdp internal pim-cache

```
show ip msdp internal pim-cache [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
msdp		Display MSDP status and configuration
internal		Commands for internal use
pim-cache		Show PIM client cache
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

## Command Mode

- /exec

## show ip msdp mesh-group

```
show ip msdp mesh-group [ <mesh-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
<out-vrf> { TABLE_meshgroup <meshgroup-name> { TABLE_peer <peer-ipaddr> <peer-asn>
<peer-description> } } ]
```

### Syntax Description

#### 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
<i>__readonly__</i>	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_meshgroup	(Optional)
<i>meshgroup-name</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-ipaddr</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>peer-description</i>	(Optional)

### Command Mode

- /exec



## show ip msdp peer

```
show ip msdp peer [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ {
TABLE_peer <peer-ipaddr> <out-vrf> <peer-asn> <local-ipaddr> <local-iface> <fully-configured>
<peer-description> <connection-status> <state-duration> <peer-listening> <peer-uptime> <peer-password>
<peer-ki> <peer-kt> <peer-ri> <peer-rr> <sa-in-policy> <sa-out-policy> <sa-limit> <mesh-name> <last-rcvd>
<sa-rcvd> <sa-sent> <sa-req-rcvd> <sa-req-sent> <sa-resp-rcvd> <sa-resp-sent> <sa-ka-rcvd> <sa-ka-sent>
<sa-notif-rcvd> <sa-notif-sent> <out-ctrl-msgs> <in-ctrl-msgs> <out-data-msgs> <in-data-msgs> <rem-port>
<local-port> } ]
```

### Syntax Description

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
	<i>__readonly__</i>	(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>sa-ka-rcvd</i>	(Optional)
<i>sa-ka-sent</i>	(Optional)
<i>sa-notif-rcvd</i>	(Optional)
<i>sa-notif-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>rem-port</i>	(Optional)
<i>local-port</i>	(Optional)

---

**Command Mode**

- /exec

## show ip msdp policy statistics sa-policy in

```
show ip msdp policy statistics sa-policy <peer-address> { in | out } [ vrf { <vrf-name> | <vrf-known-name>
} ] [ __readonly__ { TABLE_routemap <name> <action> <seq_num> [ { TABLE_cmd <command>
<match_count> <compare_count> } ] } <total_accept_count> <total_reject_count> ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
msdp	MSDP global configuration commands	
policy	Policy information	
statistics	Policy statistics	
sa-policy	Configured SA policy for MSDP peer	
<i>peer-address</i>	IP address of MSDP peer for SA policy	
in	Input policy	
out	Output policy	
vrf	(Optional) Display per-VRF information	
<i>vrf-name</i>	(Optional) VRF name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
<i>__readonly__</i>	(Optional)	
TABLE_routemap	(Optional)	
<i>name</i>	(Optional)	
<i>action</i>	(Optional)	
<i>seq_num</i>	(Optional)	
TABLE_cmd	(Optional)	
<i>command</i>	(Optional)	
<i>compare_count</i>	(Optional)	
<i>match_count</i>	(Optional)	
<i>total_accept_count</i>	(Optional)	
<i>total_reject_count</i>	(Optional)	

**Command Mode**

- /exec

# show ip msdp rpf

```
show ip msdp rpf <rp-address> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-vrf>
<out-rp-address> { TABLE_mesh <peer-addr> <mesh-name> } <is-peer-cnt-one> <is-rp-peer> <is-bgp-alive>
<is-mbgp> <bgp-peer-addr> <peer-asn> <origin-asn> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
rpf	Display RPF-peer for RP address
<i>rp-address</i>	IP address of RP
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-vrf</i>	(Optional)
<i>out-rp-address</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>is-mbgp</i>	(Optional)
<i>bgp-peer-addr</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>origin-asn</i>	(Optional)

## Command Mode

- /exec

## show ip msdp sa

```
show ip msdp { sa-cache | route } [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <asn> ] [ peer
<peer> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-vrf> <total-sa-count>
{ TABLE_sa <src-addr> <grp-addr> <rp-addr> <out-asn> <peer-addr> <uptime> <expire> } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Display MSDP SA route cache
sa-cache	Display MSDP SA route cache
<i>source</i>	(Optional) Display group/source address for SA
<i>group</i>	(Optional) Display group/source address for SA
<i>asn</i>	(Optional) AS number
detail	(Optional) Display detailed information
peer	(Optional) Display MSDP SA received from single peer
<i>peer</i>	(Optional) IP address of peer for SA
<i>__readonly__</i>	(Optional)
<i>out-vrf</i>	(Optional)
<i>total-sa-count</i>	(Optional)
TABLE_sa	(Optional)
<i>src-addr</i>	(Optional)
<i>grp-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>peer-addr</i>	(Optional)
<i>out-asn</i>	(Optional)

---

*uptime* (Optional)

---

*expire* (Optional)

---

**Command Mode**

- /exec

## show ip msdp sources

```
show ip msdp sources [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-vrf> {
TABLE_source <source-addr> <is-count-ge-limit> <count> <is-limit-valid> <limit> <source-prefix> <violates>
} ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
sources	Display learned sources with their group counts and limits
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_source	(Optional)
<i>source-addr</i>	(Optional)
<i>is-count-ge-limit</i>	(Optional)
<i>count</i>	(Optional)
<i>is-limit-valid</i>	(Optional)
<i>limit</i>	(Optional)
<i>source-prefix</i>	(Optional)
<i>violates</i>	(Optional)

### Command Mode

- /exec



## show ip msdp statistics

```
show ip msdp statistics [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
<out-vrf> <select-err> <recv-sel-err> { TABLE_peer <peer-address> <buffer-full> <recv-buf-full> <fatal-err>
<recv-fat-err> <would-block> <recv-would-block> <sock-exp> <invalid-type> <invalid-len> } ]
```

### Syntax Description

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	
<i>__readonly__</i>	(Optional)	
<i>out-vrf</i>	(Optional)	
<i>select-err</i>	(Optional)	
<i>recv-sel-err</i>	(Optional)	
TABLE_peer	(Optional)	
<i>peer-address</i>	(Optional)	
<i>buffer-full</i>	(Optional)	
<i>recv-buf-full</i>	(Optional)	
<i>fatal-err</i>	(Optional)	
<i>recv-fat-err</i>	(Optional)	
<i>would-block</i>	(Optional)	
<i>recv-would-block</i>	(Optional)	
<i>sock-exp</i>	(Optional)	
<i>invalid-type</i>	(Optional)	
<i>invalid-len</i>	(Optional)	

**Command Mode**

- /exec

## show ip msdp summary

```
show ip msdp summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-vrf> <local-asn>
<originator-id> <config-peer-count> <estb-peer-count> <shut-peer-count> { TABLE_peer <peer-address>
<peer-asn> <peer-state> <peer-uptime> <peer-last-msg> <peer-sa-rcvd> <peer-sa-limit> } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary	Display MSDP peer summary
<i>__readonly__</i>	(Optional)
<i>out-vrf</i>	(Optional)
<i>local-asn</i>	(Optional)
<i>originator-id</i>	(Optional)
<i>config-peer-count</i>	(Optional)
<i>estb-peer-count</i>	(Optional)
<i>shut-peer-count</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-address</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>peer-state</i>	(Optional)
<i>peer-uptime</i>	(Optional)
<i>peer-last-msg</i>	(Optional)
<i>peer-sa-rcvd</i>	(Optional)
<i>peer-sa-limit</i>	(Optional)

**Command Mode**

- /exec

# show ip nat max

```
show ip nat max [ __readonly__ <max_translations> <max_dyn_translations> <max_all_host>
<static_translations> <dynamic_translations> <icmp_translations> ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Show the IP features of the system
	nat	IP NAT information
	max	IP NAT max values
	<i>__readonly__</i>	(Optional)
	<i>max_translations</i>	(Optional) Max Translations
	<i>max_dyn_translations</i>	(Optional) Max Dynamic Translations
	<i>max_all_host</i>	(Optional) Max All Hosts
	<i>static_translations</i>	(Optional) No. Static Translations
	<i>dynamic_translations</i>	(Optional) No. Dynamic Translations
	<i>icmp_translations</i>	(Optional) No. ICMP Translations

## Command Mode

- /exec

# show ip nat statistics

show ip nat statistics

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Show the IP features of the system	
nat	IP NAT information	
statistics	Translation statistics	

## Command Mode

- /exec

# show ip nat timeout

```
show ip nat timeout [ __readonly__ <tcp_timeout> <udp_timeout> <dynamic_timeout> <sampling_timeout> ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Show the IP features of the system
	nat	IP NAT information
	timeout	IP NAT timeout values
	<i>__readonly__</i>	(Optional)
	<i>tcp_timeout</i>	(Optional) TCP Timeout
	<i>udp_timeout</i>	(Optional) UDP Timeout
	<i>dynamic_timeout</i>	(Optional) Dynamic Timeout
	<i>sampling_timeout</i>	(Optional) Sampling Timeout

## Command Mode

- /exec

# show ip nat translations

```
show ip nat translations [ vrf { <vrf-name> | <vrf-known-name> } ] [ verbose ] [ __readonly__ {
TABLE_nat_translation [ <Protocol> ] [ <Inside_global_IP_V4_Address> ] [ <Inside_global_port> ] [
<Inside_local_IP_V4_Address> ] [ <Inside_local_port> ] [ <Outside_local_IP_V4_Address> ] [
<Outside_local_port> ] [ <Outside_global_IP_V4_Address> ] [ <Outside_global_port> ] } ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
translations	Translation entries
verbose	(Optional) Show extra information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional) Readonly
<i>TABLE_nat_translation</i>	(Optional) NAT Translation Table
<i>Protocol</i>	(Optional) Protocol
<i>Inside_global_IP_V4_Address</i>	(Optional) Inside global address
<i>Inside_global_port</i>	(Optional) Inside global port
<i>Inside_local_IP_V4_Address</i>	(Optional) Inside local address
<i>Inside_local_port</i>	(Optional) Inside local port
<i>Outside_local_IP_V4_Address</i>	(Optional) Outside local address
<i>Outside_local_port</i>	(Optional) Outside local port
<i>Outside_global_IP_V4_Address</i>	(Optional) Outside global address
<i>Outside_global_port</i>	(Optional) Outside global port

## Command Mode

- /exec



# show ip ospf

```
show ip ospf [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag>
<instance_number> <cname> <rid> [ <domain_tag> ] [ <dn_bit_ignore> ] <stateful_ha> <gr_ha> [
<gr_planned_only> ] [ <gr_notify_period> ] [ <gr_grace_period> ] [ <gr_state> ] [ <gr_last_status> ] [
<gr_helper_mode> ] <support_tos0_only> <support_opaque_lsa> [ <low_mem_cond> ] <is_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> <no_discard_rt_ext> <no_discard_rt_int> [ <bfd_enabled> ] [ <passive_dflt>
] [ <name_lookup> ] [ { TABLE_area <aname> [ <backbone_active> ] [ <active> ] <age> <total_intf>
<act_intf> <passive_intf> <loopback_intf> [ <gr_nbr_cnt> ] <stub> [ <stub_def_cost> ] <nssa> [ <no_redist>
] [ <nssa_trans> ] <no_summary> <auth_type> <spf_runs> <last_spf_run_time> [ <rtr_lsa_throt> ] [
TABLE_range <addr> <masklen> <state> <nets> <advertise> [ <cost> ] ] [ <filter_in> ] [ <filter_out> ]
<lsa_cnt> <lsa_crc> } ] ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>instance_number</i>	(Optional)
<i>cname</i>	(Optional)
<i>rid</i>	(Optional)

<i>domain_tag</i>	(Optional)
<i>dn_bit_ignore</i>	(Optional)
<i>stateful_ha</i>	(Optional)
<i>gr_ha</i>	(Optional)
<i>gr_planned_only</i>	(Optional)
<i>gr_notify_period</i>	(Optional)
<i>gr_grace_period</i>	(Optional)
<i>gr_state</i>	(Optional)
<i>gr_last_status</i>	(Optional)
<i>gr_helper_mode</i>	(Optional)
<i>support_tos0_only</i>	(Optional)
<i>support_opaque_lsa</i>	(Optional)
<i>low_mem_cond</i>	(Optional)
<i>is_abr</i>	(Optional)
<i>is_asbr</i>	(Optional)
<i>max_lsa_non_self_number</i>	(Optional)
<i>max_lsa_state</i>	(Optional)
<i>max_lsa_warning_only</i>	(Optional)
<i>max_lsa_current_non_self_lsa_number</i>	(Optional)
<i>max_lsa_threshold_pct</i>	(Optional)
<i>max_lsa_ignore_time</i>	(Optional)
<i>max_lsa_reset_time</i>	(Optional)
<i>max_lsa_ignore_count</i>	(Optional)
<i>max_lsa_current_ignore_count</i>	(Optional)
<i>max_lsa_ignore_time_left</i>	(Optional)
<i>max_lsa_reset_time_left</i>	(Optional)
<i>max_lsa_permanent_ignore</i>	(Optional)
TABLE_redist	(Optional)
<i>proto</i>	(Optional)

<i>max_lsas</i>	(Optional)
<i>warning</i>	(Optional)
<i>threshold</i>	(Optional)
<i>current_count</i>	(Optional)
<i>admin_dist</i>	(Optional)
<i>ref_bw</i>	(Optional)
<i>spf_start_time</i>	(Optional)
<i>spf_hold_time</i>	(Optional)
<i>spf_max_time</i>	(Optional)
<i>lsa_start_time</i>	(Optional)
<i>lsa_hold_time</i>	(Optional)
<i>lsa_max_time</i>	(Optional)
<i>min_lsa_arr_time</i>	(Optional)
<i>lsa_aging_pace</i>	(Optional)
<i>spf_max_paths</i>	(Optional)
<i>max_metric_adver</i>	(Optional)
<i>max_metric_time_left</i>	(Optional)
<i>max_metric_wait_bgp</i>	(Optional)
<i>max_metric_timeout</i>	(Optional)
<i>max_metric_always</i>	(Optional)
<i>max_metric_sum_lsa</i>	(Optional)
<i>max_metric_ext_lsa</i>	(Optional)
<i>asext_lsa_cnt</i>	(Optional)
<i>asext_lsa_crc</i>	(Optional)
<i>asopaque_lsa_cnt</i>	(Optional)
<i>asopaque_lsa_crc</i>	(Optional)
<i>area_total</i>	(Optional)
<i>area_normal</i>	(Optional)
<i>area_stub</i>	(Optional)

<i>area_nssa</i>	(Optional)
<i>act_area_total</i>	(Optional)
<i>act_area_normal</i>	(Optional)
<i>act_area_stub</i>	(Optional)
<i>act_area_nssa</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>name_lookup</i>	(Optional)
<i>passive_dflt</i>	(Optional)
<i>no_discard_rt_ext</i>	(Optional)
<i>no_discard_rt_int</i>	(Optional)
TABLE_area	(Optional)
<i>aname</i>	(Optional)
<i>backbone_active</i>	(Optional)
<i>active</i>	(Optional)
<i>age</i>	(Optional)
<i>total_intf</i>	(Optional)
<i>act_intf</i>	(Optional)
<i>passive_intf</i>	(Optional)
<i>loopback_intf</i>	(Optional)
<i>gr_nbr_cnt</i>	(Optional)
<i>stub</i>	(Optional)
<i>stub_def_cost</i>	(Optional)
<i>nssa</i>	(Optional)
<i>no_redist</i>	(Optional)
<i>nssa_trans</i>	(Optional)
<i>no_summary</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>spf_runs</i>	(Optional)
<i>last_spf_run_time</i>	(Optional)

<i>rtr_lsa_throt</i>	(Optional)
TABLE_range	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>state</i>	(Optional)
<i>nets</i>	(Optional)
<i>advertise</i>	(Optional)
<i>cost</i>	(Optional)
<i>filter_in</i>	(Optional)
<i>filter_out</i>	(Optional)
<i>lsa_cnt</i>	(Optional)
<i>lsa_crc</i>	(Optional)

**Command Mode**

- /exec

## 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

#### 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
<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)

---

*ubest\_nh\_addr* (Optional)

---

*ubest\_nh\_intf* (Optional)

---

TABLE\_br\_mbest\_nh (Optional)

---

*mbest\_nh\_addr* (Optional)

---

*mbest\_nh\_intf* (Optional)

---

### Command Mode

- /exec

## show ip ospf database

```
show ip ospf [ <tag> ] database [ [ [ network | asbr-summary | summary | router | opaque-link | opaque-area
| nssa-external ] [ area <area-id-ip> ] ] | external [ ext_tag <tag_val> ] | opaque-as ] [ <lsid> ] [ self-originated
| adv-router <adv-id> | adv-router-name <adv-name> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_db2_lsa <name> [ <area> ] <id> <advtr> <age>
<seqno> <cksum> [ <opaque_id> ] [ <corrupt> ] [ <rtr_num_links> ] [ <tag> ] ] ]
```

### Syntax Description

#### 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>adv-id</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>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>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

#### 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
<i>__readonly__</i>	(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)

---

*lsa\_name* (Optional)

---

*lsa\_count* (Optional)

---

*non\_self\_lsa\_total* (Optional)

---

*lsa\_total* (Optional)

---

### Command Mode

- /exec



<i>opaque-area</i>	(Optional) Display Opaque Area LSAs
<i>opaque-as</i>	(Optional) Display Opaque AS LSAs
<i>summary</i>	(Optional) Display type 3 (network-summary) 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>adv-id</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>detail</i>	Display LSA in detail
<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>rtr_max_metric</i>	(Optional)
<i>TABLE_lsdb</i>	(Optional)
<i>age</i>	(Optional)
<i>maxage</i>	(Optional)
<i>options</i>	(Optional)
<i>options_str</i>	(Optional)
<i>wrapping</i>	(Optional)

<i>dummy</i>	(Optional)
<i>flush_pending</i>	(Optional)
<i>type</i>	(Optional)
<i>id</i>	(Optional)
<i>id_str</i>	(Optional)
<i>opaque_type</i>	(Optional)
<i>opaque_id</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>len</i>	(Optional)
<i>corrupt</i>	(Optional)
<i>rtr_abr</i>	(Optional)
<i>rtr_asbr</i>	(Optional)
<i>rtr_translate</i>	(Optional)
<i>rtr_vlink_end</i>	(Optional)
<i>rtr_num_links</i>	(Optional)
<i>rtr_links_mismatch</i>	(Optional)
TABLE_rlsa	(Optional)
<i>rtr_link_type</i>	(Optional)
<i>rtr_link_id_str</i>	(Optional)
<i>rtr_link_id</i>	(Optional)
<i>rtr_link_data_str</i>	(Optional)
<i>rtr_link_data</i>	(Optional)
<i>rtr_link_num_tos</i>	(Optional)
<i>rtr_link_metric</i>	(Optional)
TABLE_rlinktos	(Optional)
<i>rtr_link_tos_id</i>	(Optional)
<i>rtr_link_tos_metric</i>	(Optional)

<i>net_mask</i>	(Optional)
TABLE_netlsa	(Optional)
<i>net_rtr</i>	(Optional)
<i>sum_mask</i>	(Optional)
<i>sum_metric</i>	(Optional)
TABLE_sumlsa	(Optional)
<i>sum_tos_id</i>	(Optional)
<i>sum_tos_metric</i>	(Optional)
<i>nssa_mask</i>	(Optional)
<i>nssa_metric_type2</i>	(Optional)
<i>nssa_metric</i>	(Optional)
<i>nssa_fwd_addr</i>	(Optional)
<i>nssa_tag</i>	(Optional)
TABLE_nssa	(Optional)
<i>nssa_tos_metric_type2</i>	(Optional)
<i>nssa_tos_id</i>	(Optional)
<i>nssa_tos_metric</i>	(Optional)
<i>nssa_tos_fwd_addr</i>	(Optional)
<i>nssa_tos_tag</i>	(Optional)
<i>asext_mask</i>	(Optional)
<i>asext_metric_type2</i>	(Optional)
<i>asext_metric</i>	(Optional)
<i>asext_fwd_addr</i>	(Optional)
<i>asext_tag</i>	(Optional)
TABLE_asext	(Optional)
<i>asext_tos_metric_type2</i>	(Optional)
<i>asext_tos_id</i>	(Optional)
<i>asext_tos_metric</i>	(Optional)
<i>asext_tos_fwd_addr</i>	(Optional)

<i>asext_tos_tag</i>	(Optional)
<i>opaque_link_intf</i>	(Optional)
<i>opaque_unknown</i>	(Optional)
<i>opaque_data_len</i>	(Optional)
<i>opaque_data</i>	(Optional)
<i>opaque_corrupt</i>	(Optional)
<i>tlv_type</i>	(Optional)
<i>tlv_len</i>	(Optional)
<i>tlv_data</i>	(Optional)
<i>tlv_unknown</i>	(Optional)
<i>gr_interval</i>	(Optional)
<i>gr_reason</i>	(Optional)
<i>gr_addr</i>	(Optional)
<i>te_frag_id</i>	(Optional)
<i>te_rtr_id</i>	(Optional)
<i>te_link_type</i>	(Optional)
<i>te_link_id</i>	(Optional)
<i>te_link_metric</i>	(Optional)
<i>te_link_max_bw</i>	(Optional)
<i>te_link_rsv_bw</i>	(Optional)
<i>te_link_unrsv_bw</i>	(Optional)
<i>te_link_admin</i>	(Optional)
<i>te_num_links</i>	(Optional)

**Command Mode**

- /exec



# show ip ospf event-history

```
show ip ospf [ <tag> ] [ internal ] event-history { errors | msgs | statistics | adjacency | event | ha | flooding |
lsa | spf | redistribution | ldp | te | rib | hello | spf-trigger | cli | objstore }
```

## Syntax Description

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 databse logs
	spf	SPF calculation logs
	redistribution	Redistribution logs
	ldp	LDP related logs
	te	MPLS TE related logs
	rib	RIB related logs
	hello	Hello related logs
	cli	Cli logs
	spf-trigger	SPF TRIGGER related logs
	objstore	DME OBJSTORE related logs

## Command Mode

- /exec

# show ip ospf event-history detail

```
show ip ospf [ <tag> ] [ internal ] event-history detail [ statistics ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
ospf		Display OSPF status and configuration
<i>tag</i>		(Optional) Process tag
internal		(Optional) Commands for internal use
event-history		Show event history of OSPF
detail		Show detailed event history information
statistics		(Optional) Show the state and size of the verbose history buffer

## Command Mode

- /exec

# show ip ospf ha

```
show ip ospf [ <tag> ] ha [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag>
<cname> <stateful> <pss_restored> <pss_state> <gr_enabled> <gr_grace_period> <gr_state> <gr_last_status>
<gr_helper_mode> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ha	High Availability status
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>stateful</i>	(Optional)
<i>pss_restored</i>	(Optional)
<i>pss_state</i>	(Optional)
<i>gr_enabled</i>	(Optional)
<i>gr_grace_period</i>	(Optional)
<i>gr_state</i>	(Optional)
<i>gr_last_status</i>	(Optional)
<i>gr_helper_mode</i>	(Optional)

## Command Mode

- /exec

## show ip ospf interface

```
show ip ospf [ <tag> ] interface [ <interface> | vrf { <vrf-name> | <vrf-known-name> | all } ] [ private ] [
__readonly__ TABLE_ctx <ptag> <cname> [ TABLE_intf <ifname> <admin_status> <proto_status> [
<unnumbered> ] <addr> [ <masklen> ] [ <parent_intf> ] <area> [ <if_cfg> ] <state_str> <type_str> <cost>
[ <bfd_enabled> ] [ <ldp_sync> ] <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [
<dr_rid> ] [ <dr_addr> ] [ <bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr>
] [ <hello_interval> ] [ <dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [
<wait_timer> ] [ <pacing_timer> ] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer> ] [ <auth_type>
] [ <keychain_name> ] [ <keychain_ready> ] [ <auth_md5_keyid> ] [ <auth_keyid> ] [ <auth_algo> ] [
<link_lsa_cnt> ] [ <link_lsa_crc> ] ] ]
```

### Syntax Description

#### 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)
<i>TABLE_ctx</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>TABLE_intf</i>	(Optional)
<i>ifname</i>	(Optional)
<i>admin_status</i>	(Optional)
<i>proto_status</i>	(Optional)
<i>unnumbered</i>	(Optional)

<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>parent_intf</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>ldp_sync</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)

---

*spacing\_timer* (Optional)

---

*lsu\_timer* (Optional)

---

*lsack\_timer* (Optional)

---

*netlsa\_throt\_timer* (Optional)

---

*auth\_type* (Optional)

---

*keychain\_name* (Optional)

---

*keychain\_ready* (Optional)

---

*auth\_md5\_keyid* (Optional)

---

*auth\_keyid* (Optional)

---

*auth\_algo* (Optional)

---

*link\_lsa\_cnt* (Optional)

---

*link\_lsa\_crc* (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

#### 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
<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 ip ospf internal

```
show ip ospf [ <tag> ] internal [ errors ] [ area <area-id-ip> ] [ asbrs ] [ externals ] [ flood-indices ] [
if-number-tree ] [ max-metric ] [ as-external-routes ] [ nssa-routes ] [ lsa <area-id2-ip> <lstype> <lsid> <advtr>
[ <interface> ] ] [ txlist { inter-prefix | inter-router | as-external | urib | u6rib | throttle } ] [ te ] [ table-map ] [
area-list [ <area-list-num> ] ] [ interface-list [ <if-list-num> ] ] [ nbr-list [ <nbr-list-num> ] ] [ max-lsa ] [
as-definfo-originate ] [ clear-ipv4-rt-queue ] [ forwarding-address ] [ area-range ] [ flood-queue-drops ] [
superbackbone ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

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
	internal	Commands for internal use
	errors	(Optional) Error counters
	area	(Optional) OSPF Area information
	<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
	asbrs	(Optional) OSPF ASBR information
	externals	(Optional) OSPF External LSAs information
	flood-indices	(Optional) OSPF Flood index usage for neighbors and interfaces
	if-number-tree	(Optional) Patricia Tree of OSPF interfaces indexed by iod
	max-metric	(Optional) max metric related flags and values
	as-external-routes	(Optional) Display the external routes in external redist PT
	nssa-routes	(Optional) Display the nssa routes in nssa redist PT
	lsa	(Optional) OSPF LSA information
	max-lsa	(Optional) Show max-lsa feature details and statistics
	<i>area-id2-ip</i>	(Optional) Area Id as an integer or ip address

<i>lstype</i>	(Optional) Link state type of LSA
<i>lsid</i>	(Optional) Link state ID of LSA
<i>advrtr</i>	(Optional) Advertising router of LSA
<i>interface</i>	(Optional) OSPF enabled interface
<i>txlist</i>	(Optional) Show SPF transmission list
<i>inter-prefix</i>	(Optional) Show inter-area/type-3 prefix SPF transmission list
<i>inter-router</i>	(Optional) Show inter-area-router SPF transmission list
<i>as-external</i>	(Optional) Show type-5/type-7 SPF transmission list
<i>urib</i>	(Optional) Show URIB transmission list
<i>u6rib</i>	(Optional) Show U6RIB transmission list
<i>throttle</i>	(Optional) Show self originated LSA throttle list
<i>te</i>	(Optional) Show MPLS TE related information
<i>table-map</i>	(Optional) Show table-map policy details and statistics
<i>area-list</i>	(Optional) Show area list
<i>area-list-num</i>	(Optional) Area list number
<i>interface-list</i>	(Optional) Show interface list
<i>if-list-num</i>	(Optional) Interface list number
<i>nbr-list</i>	(Optional) Show neighbor list
<i>nbr-list-num</i>	(Optional) Neighbor list number
<i>as-definfo-originate</i>	(Optional) Show type-5 default-information originate state
<i>clear-ipv4-rt-queue</i>	(Optional) Show the internal clear IPv4 route queue
<i>flood-queue-drops</i>	(Optional) Show statistics related to drops when packets are enqueued on flood queue
<i>superbackbone</i>	(Optional) Show vpn_superbackbone info
<i>forwarding-address</i>	(Optional) Show the forwarding addresses PT in this vrf
<i>area-range</i>	(Optional) Show all area ranges and their component routes in a given area

**Command Mode**

- /exec

# show ip ospf internal ha

```
show ip ospf [ <tag> ] internal ha [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

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
	internal	Commands for internal use
	ha	HA related information

## Command Mode

- /exec

# show ip ospf internal library-info

show ip ospf [ <tag> ] internal library-info

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
ospf		Display OSPF status and configuration
<i>tag</i>		(Optional) Process tag
internal		Commands for internal use
library-info		Show various event logs of library

## Command Mode

- /exec

# show ip ospf internal mem-stats

```
show ip ospf [ <tag> ] internal mem-stats [ no-libs ] [ detail ]
```

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
internal	Commands for internal use
mem-stats	Show memory allocation statistics
no-libs	(Optional) Exclude libraries
detail	(Optional) Display detailed information

## Command Mode

- /exec

# show ip ospf internal missed-traps-statistics

show ip ospf [ <tag> ] internal missed-traps-statistics

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
ospf		Display OSPF status and configuration
<i>tag</i>		(Optional) Process tag
internal		Commands for internal use
missed-traps-statistics		Show the statistics for all the ospf traps not sent due to rate limiting

## Command Mode

- /exec





**Command Mode**

- /exec

## show ip ospf memory

```
show ip ospf [ <tag> ] memory [ __readonly__ TABLE_mem <ptag> <byte_total> <byte_consumed>
<byte_overhead> <byte_allocated> <alloc_current> <alloc_created> <alloc_failed> <alloc_free> <bf_current>
<bf_created> <bf_failed> <bf_free> <bf_byte_consumed> <bf_32_current> <bf_32_created> <bf_32_failed>
<bf_32_free> <bf_32_byte_consumed> <slab_current> <slab_created> <slab_failed> <slab_free>
<slab_byte_consumed> <if_index_alloc_failed> <nbr_index_alloc_failed> ]
```

### Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
ospf		Display OSPF status and configuration
<i>tag</i>		(Optional) Process tag
memory		Memory usage statistics
<i>__readonly__</i>		(Optional)
<i>TABLE_mem</i>		(Optional)
<i>ptag</i>		(Optional)
<i>byte_total</i>		(Optional)
<i>byte_consumed</i>		(Optional)
<i>byte_overhead</i>		(Optional)
<i>byte_allocated</i>		(Optional)
<i>alloc_current</i>		(Optional)
<i>alloc_created</i>		(Optional)
<i>alloc_failed</i>		(Optional)
<i>alloc_free</i>		(Optional)
<i>bf_current</i>		(Optional)
<i>bf_created</i>		(Optional)
<i>bf_failed</i>		(Optional)
<i>bf_free</i>		(Optional)
<i>bf_byte_consumed</i>		(Optional)
<i>bf_32_current</i>		(Optional)

---

*bf\_32\_created* (Optional)

---

*bf\_32\_failed* (Optional)

---

*bf\_32\_free* (Optional)

---

*bf\_32\_byte\_consumed* (Optional)

---

*slab\_current* (Optional)

---

*slab\_created* (Optional)

---

*slab\_failed* (Optional)

---

*slab\_free* (Optional)

---

*slab\_byte\_consumed* (Optional)

---

*if\_index\_alloc\_failed* (Optional)

---

*nbr\_index\_alloc\_failed* (Optional)

---

#### Command Mode

- /exec

# show ip ospf mpls ldp interface

```
show ip ospf [ <tag> ] mpls ldp interface [ <interface> | vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <ptag> <cname> [ TABLE_ldpintf <ifname> <area> <ldp_ac>
<ldp_sync><state_str><type_str> ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mpls	MPLS related information
ldp	LDP related information
interface	OSPF enabled interface
<i>interface</i>	(Optional) OSPF enabled interface
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_ldpintf	(Optional)
<i>ifname</i>	(Optional)
<i>area</i>	(Optional)
<i>ldp_ac</i>	(Optional)

## Command Mode

- /exec

# show ip ospf neighbors

```
show ip ospf [ <tag> ] neighbors [ { { <interface> [ <neighbor> | <neighbor-name> ] } | { [ <neighbor> | <neighbor-name> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] } } ] [ __readonly__ TABLE_ctx <ptag> <cname> <nbrcount> [ TABLE_nbr <rid> <priority> <state> <drstate> <uptime> <addr> <intf> [ <multiarea> ] ] ]
```

## Syntax Description

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)

---

*addr* (Optional)

---

*intf* (Optional)

---

*multiarea* (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> ] ] ]
```

### Syntax Description

#### 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
<code>__readonly__</code>	(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>acingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)



---

*grtimer* (Optional)

---

*helpermode* (Optional)

---

*helpercand* (Optional)

---

*helperterm* (Optional)

---

*senddbd* (Optional)

---

*sendsreq* (Optional)

---

*sendsu* (Optional)

---

*sendsurxmt* (Optional)

---

*sendsack* (Optional)

---

*sendsreqreply* (Optional)

---

*dc* (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

#### 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)

---

*loading* (Optional)

---

*full* (Optional)

---

*if\_total* (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

#### 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

<i>in</i>	Filter networks sent to this area
<i>out</i>	Filter networks sent from this area
<i>__readonly__</i>	(Optional)
<i>ptag</i>	(Optional)
<i>TABLE_ctx</i>	(Optional)
<i>cname</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf request-list

```
show ip ospf [ <tag> ] request-list { <ip-addr> | <neighbor-name> } <interface> [ __readonly__ [ TABLE_ctx
<ptag> <cname> [ TABLE_lsreq <nbr_rid> <intf> <nbr_addr> <total> [ TABLE_lsa [ <type> ] [ <lsid> ] [
<advrtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ]
```

### Syntax Description

Syntax Description	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





---

*age* (Optional)

---

**Command Mode**

- /exec

## show ip ospf route

```
show ip ospf [ <tag> ] route [ <ip-addr> | <ip-prefix> [ longer-prefixes ] ] [ all_routes ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ <hdr_addr> ] [ <hdr_masklen> ]
[ TABLE_route <addr> <masklen> <type> <in_rib> <direct> [ <area> ] [ <tag> ] [ <vlink_unresolved> ] [
TABLE_route_ubest_nh [ <ubest_nh_addr> ] [ <ubest_nh_intf> ] [ <ubest_cost> ] [ <distance> ] [
<ubest_nh_direct> ] [ <ubest_nh_in_rib> ] ] [ TABLE_route_mbest_nh [ <mbest_nh_addr> ] [ <mbest_nh_intf>
] [ <mbest_cost> ] [ <mbest_nh_direct> ] [ <mbest_nh_in_rib> ] ] ] ] ]
```

### Syntax Description

Syntax Description	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
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)
addr	(Optional)

<i>masklen</i>	(Optional)
<i>type</i>	(Optional)
<i>in_rib</i>	(Optional)
<i>direct</i>	(Optional)
<i>area</i>	(Optional)
<i>vlink_unresolved</i>	(Optional)
TABLE_route_ubest_nh	(Optional)
<i>ubest_nh_addr</i>	(Optional)
<i>ubest_nh_intf</i>	(Optional)
<i>ubest_cost</i>	(Optional)
<i>distance</i>	(Optional)
<i>ubest_nh_direct</i>	(Optional)
<i>ubest_nh_in_rib</i>	(Optional)
TABLE_route_mbest_nh	(Optional)
<i>mbest_nh_addr</i>	(Optional)
<i>mbest_nh_intf</i>	(Optional)
<i>mbest_cost</i>	(Optional)
<i>mbest_nh_direct</i>	(Optional)
<i>mbest_nh_in_rib</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf route summary

```
show ip ospf [ <tag> ] route [ <ip-prefix> [ longer-prefixes ] ] summary [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_route <total_routes> <total_paths> [
TABLE_route_type <path_type> <path_routes> <path_paths> ] [ TABLE_route_masklen <masklen>
<masklen_routes> <masklen_paths> ] ] ]
```

### Syntax Description

#### 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-prefix	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
summary	Show route counts
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_route	(Optional)
total_routes	(Optional)
total_paths	(Optional)
TABLE_route_type	(Optional)
path_type	(Optional)
path_routes	(Optional)
path_paths	(Optional)

---

TABLE\_route\_masklen (Optional)

---

*masklen* (Optional)

---

*masklen\_routes* (Optional)

---

*masklen\_paths* (Optional)

---

**Command Mode**

- /exec

## show ip ospf sham-links

```
show ip ospf [ <tag> ] sham-links [ brief ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> [ TABLE_slink <name> [ <nbr_rid> ] <if_state> <transit_area> <nh_intf>
<nbr_addr> [ <transit_area_stub> ] [ <transit_area_nssa> ] <addr> [ <masklen> ] <area> [ <if_cfg> ] <state_str>
<type_str> <cost> [ <bfd_enabled> ] [ <index> ] [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority>
] [ <dr_rid> ] [ <dr_addr> ] [ <bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [
<gr_nbr> ] [ <hello_interval> ] [ <dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <sum_total> ] [
<hello_timer> ] [ <wait_timer> ] [ <pacing_timer> ] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer>
] [ <auth_type> ] [ <keychain_name> ] [ <keychain_ready> ] [ <auth_md5_keyid> ] [ <link_lsa_cnt> ] [
<link_lsa_crc> ] [ <dc_enabled> ] [ <dest_ip> ] [ <src_ip> ] [ <ifnum> ] [ <state> ] [ <transition> ] [
<lastchange> ] [ <priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [
<dbdallsent> ] [ <dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] [ <helloptions> ] [
<dbdoptions> ] [ <lastnonhello> ] [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [
<lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [
<helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack>
] [ <sendlsreqreply> ] ] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
sham-links	Sham link information
brief	(Optional) Display summary of OSPF sham links
<i>__readonly__</i>	(Optional)
<i>ptag</i>	(Optional)
TABLE_ctx	(Optional)
<i>cname</i>	(Optional)
TABLE_slink	(Optional)
<i>name</i>	(Optional)
<i>nbr_rid</i>	(Optional)

<i>if_state</i>	(Optional)
<i>transit_area</i>	(Optional)
<i>nh_intf</i>	(Optional)
<i>dc_enabled</i>	(Optional)
<i>nbr_addr</i>	(Optional)
<i>sum_total</i>	(Optional)
<i>transit_area_stub</i>	(Optional)
<i>transit_area_nssa</i>	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)

<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)



<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>pacingt看ner</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>sendslreq</i>	(Optional)
<i>sendslu</i>	(Optional)
<i>sendsurxmt</i>	(Optional)
<i>sendsack</i>	(Optional)
<i>sendsreqreply</i>	(Optional)
<i>dest_ip</i>	(Optional)
<i>src_ip</i>	(Optional)
<i>ifnum</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf statistics

```
show ip ospf [ <tag> ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_stats
<ptag> <cname> <last_clear> <rid_change> <dr_elections> <older_lsa_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

#### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Event counters
<i>__readonly__</i>	(Optional)
TABLE_stats	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>last_clear</i>	(Optional)
<i>rid_change</i>	(Optional)
<i>dr_elections</i>	(Optional)
<i>older_lsa_rcv</i>	(Optional)

<i>nbr_state_change</i>	(Optional)
<i>nbr_dead_postpone</i>	(Optional)
<i>nbr_dead_expire</i>	(Optional)
<i>nbr_bad_lsreq</i>	(Optional)
<i>nbr_seqno_mismatch</i>	(Optional)
<i>spf_full</i>	(Optional)
<i>spf_summary</i>	(Optional)
<i>spf_external</i>	(Optional)
<i>spf_extsummary</i>	(Optional)
<i>rtr_generate</i>	(Optional)
<i>rtr_refresh</i>	(Optional)
<i>rtr_flush</i>	(Optional)
<i>rtr_other_flush</i>	(Optional)
<i>net_generate</i>	(Optional)
<i>net_refresh</i>	(Optional)
<i>net_flush</i>	(Optional)
<i>net_other_flush</i>	(Optional)
<i>sum_generate</i>	(Optional)
<i>sum_refresh</i>	(Optional)
<i>sum_flush</i>	(Optional)
<i>sum_other_flush</i>	(Optional)
<i>asbr_generate</i>	(Optional)
<i>asbr_refresh</i>	(Optional)
<i>asbr_flush</i>	(Optional)
<i>asbr_other_flush</i>	(Optional)
<i>asext_generate</i>	(Optional)
<i>asext_refresh</i>	(Optional)
<i>asext_flush</i>	(Optional)
<i>asext_other_flush</i>	(Optional)

<i>opaque_link_generate</i>	(Optional)
<i>opaque_link_refresh</i>	(Optional)
<i>opaque_link_flush</i>	(Optional)
<i>opaque_link_other_flush</i>	(Optional)
<i>opaque_area_generate</i>	(Optional)
<i>opaque_area_refresh</i>	(Optional)
<i>opaque_area_flush</i>	(Optional)
<i>opaque_area_other_flush</i>	(Optional)
<i>opaque_as_generate</i>	(Optional)
<i>opaque_as_refresh</i>	(Optional)
<i>opaque_as_flush</i>	(Optional)
<i>opaque_as_other_flush</i>	(Optional)
<i>limbo_lsa_count</i>	(Optional)
<i>limbo_lsa_hwm</i>	(Optional)
<i>limbo_lsa_deleted</i>	(Optional)
<i>limbo_lsa_revived</i>	(Optional)
<i>limbo_runs</i>	(Optional)
<i>limbo_lsa_last_time_hwm</i>	(Optional)
<i>limbo_timer</i>	(Optional)
<i>helloq_size</i>	(Optional)
<i>helloq_max_size</i>	(Optional)
<i>helloq_hwm</i>	(Optional)
<i>helloq_drops</i>	(Optional)
<i>helloq_last_hwm_time</i>	(Optional)
<i>floodq_size</i>	(Optional)
<i>floodq_max_size</i>	(Optional)
<i>floodq_hwm</i>	(Optional)
<i>floodq_drops</i>	(Optional)
<i>floodq_last_hwm_time</i>	(Optional)

<i>lsdb_add_fail</i>	(Optional)
TABLE_buffer_detail	(Optional)
<i>buf_size</i>	(Optional)
<i>buf_size_huge</i>	(Optional)
<i>buf_in_use</i>	(Optional)
<i>buf_hwm</i>	(Optional)
<i>buf_perm</i>	(Optional)
<i>buf_alloc</i>	(Optional)
<i>buf_free</i>	(Optional)

**Command Mode**

- /exec

# show ip ospf summary-address

```
show ip ospf [ <tag> ] summary-address [ private ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ [ TABLE_ctx <ptag> <cname> <rid> [ TABLE_sum <addr> <masklen> [ <metric> ] [ <tag>
] [ <pending> ] ] ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary-address	Summary-address redistribution information
private	(Optional) Developer-only statistics
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>rid</i>	(Optional)
TABLE_sum	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>metric</i>	(Optional)
<i>pending</i>	(Optional)

## Command Mode

- /exec

## show ip ospf traffic

```
show ip ospf [ <tag> ] traffic [ <interface> [ detail ] [ detail ] [ detail ] vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_traf <ptag> <cname> <last_clear> [ <ifname> ] <pkt_in> <pkt_out>
<lsu_first_trans> <lsu_retrans> <lsu_for_lsreq> <lsu_nbr_trans> <throttle_out> <throttle_out_token>
<throttle_out_ip> <lsa_ignored> <lsa_dropped_spf> <lsa_dropped_gr> <pkt_drops_in> <pkt_drops_out>
<pkt_errors_in> <pkt_errors_out> <hello_errors_in> <dbds_errors_in> <lsreqs_errors_in> <lsus_errors_in>
<lsacks_errors_in> <pkt_unknown_in> <pkt_unknown_out> <pkt_no_ospf_intf> <bad_version> <bad_crc>
<dup_rtr_id> <dup_src_addr> <invalid_src_addr> <invalid_dst_addr> <non_existing_nbr> <pkt_passive_intf>
<wrong_area> <invalid_pkt_len> <nbr_changed_routerid_ipaddr> <nbr_changed_interfaceid> [ <bad_auth>
] [ <bad_reserved> ] [ <pkt_no_vrf> ] <hellos_in> <dbds_in> <lsreqs_in> <lsus_in> <lsacks_in> <hellos_out>
<dbds_out> <lsreqs_out> <lsus_out> <lsacks_out> [ <hellos_in_hq> <dbds_in_hq> <lsreqs_in_flq>
<lsus_in_flq> <lsacks_in_flq> <lsas_in_dbds_in> <lsas_in_lsreqs_in> <lsas_in_lsus_in> <lsas_in_lsacks_in>
<lsas_in_dbds_out> <lsas_in_lsreqs_out> <lsas_in_lsus_out> <lsas_in_lsacks_out> <lsas_in_rxmt_lsus_out>
]]
```

### Syntax Description

Syntax Description	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)

---

*lsas\_in\_lsreqs\_out* (Optional)

---

*lsas\_in\_lsus\_out* (Optional)

---

*lsas\_in\_lsacks\_out* (Optional)

---

*lsas\_in\_rxmt\_lsus\_out* (Optional)

---

**Command Mode**

- /exec

# show ip ospf traps-queue

show ip ospf [ <tag> ] traps-queue

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
ospf		Display OSPF status and configuration
<i>tag</i>		(Optional) Process tag
traps-queue		Show all the priority traps queue parameters

## Command Mode

- /exec



<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)

---

*rxmt\_interval* (Optional)

---

*hello\_timer* (Optional)

---

*wait\_timer* (Optional)

---

*pacing\_timer* (Optional)

---

*lsu\_timer* (Optional)

---

*lsack\_timer* (Optional)

---

*netlsa\_throt\_timer* (Optional)

---

*auth\_type* (Optional)

---

*keychain\_name* (Optional)

---

*keychain\_ready* (Optional)

---

*auth\_md5\_keyid* (Optional)

---

*link\_lsa\_cnt* (Optional)

---

*link\_lsa\_crc* (Optional)

---

*state* (Optional)

---

*transition* (Optional)

---

*lastchange* (Optional)

---

*priority* (Optional)

---

*ifid* (Optional)

---

*dr* (Optional)

---

*bdr* (Optional)

---

*master* (Optional)

---

*seqno* (Optional)

---

*dbdallsentacked* (Optional)

---

*dbdallsent* (Optional)

---

*dbdallacked* (Optional)

---

*lsaonreqlist* (Optional)

---

*lsafromlastreq* (Optional)

---

*lsreqrxmts* (Optional)

---

*helloptions* (Optional)

---

<i>dbdoptions</i>	(Optional)
<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>acingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendsreq</i>	(Optional)
<i>sendsu</i>	(Optional)
<i>sendsurxmt</i>	(Optional)
<i>sendsack</i>	(Optional)
<i>sendsreqreply</i>	(Optional)

**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

#### 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)
<i>TABLE_ctx</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>vlink_count</i>	(Optional)
<i>TABLE_vlink</i>	(Optional)
<i>nbr_rid</i>	(Optional)
<i>vlink_num</i>	(Optional)
<i>transit_area</i>	(Optional)
<i>cost</i>	(Optional)
<i>if_state</i>	(Optional)

### Command Mode

- /exec



# show ip overlay-traffic

show ip overlay-traffic

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	overlay-traffic	Display IP overlay software processed traffic statistics

## Command Mode

- /exec

# show ip pim bitfield

show ip pim bitfield

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

ip Display IP information

---

pim Display PIM status and configuration

---

bitfield Display compressed bitfield details

---

## Command Mode

- /exec

# show ip pim config-sanity

show ip pim config-sanity

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
config-sanity	Configuration Sanity check

## Command Mode

- /exec

# show ip pim df

```
show ip pim df [ <rp-or-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [ __readonly__
<out-context> { TABLE_rp <rp-addr> <df-ordinal> <df-bits> <df-bits-count> <metric-pref> <metric> {
TABLE_grange <grange-grp> <grange-masklen> } { TABLE_iod <if-name> <df-winner> <df-state>
<winner-metric-pref> <winner-metric> <uptime> <is-rpf> } } ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
df	Display Bidir Designated Forwarders
<i>rp-or-group</i>	(Optional) Display for a single RP or group address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	(Optional) Commands for internal use
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>df-bits</i>	(Optional)
<i>df-bits-count</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>metric</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-grp</i>	(Optional)
<i>grange-masklen</i>	(Optional)
TABLE_iod	(Optional)

<i>if-name</i>	(Optional)
<i>df-winner</i>	(Optional)
<i>df-state</i>	(Optional)
<i>winner-metric-pref</i>	(Optional)
<i>winner-metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>is-rpf</i>	(Optional)

**Command Mode**

- /exec

## show ip pim event-history

```
show ip pim [ internal ] event-history { errors | msgs | <pim-event-hist-buf-name> | statistics }
```

### Syntax Description

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

## Syntax Description

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

## Command Mode

- /exec

# show ip pim fabric legacy-vlans

show ip pim fabric legacy-vlans

## Syntax Description

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

## Command Mode

- /exec



# show ip pim group-range

```
show ip pim group-range [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
<out-context> { TABLE_group <grp-addr> <invalid-grp> <mode> <rp-addr> <sh-tree-only-range> <action>
<origin> } ]
```

## Syntax Description

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
<i>__readonly__</i>		(Optional)
<i>out-context</i>		(Optional)
TABLE_group		(Optional)
<i>invalid-grp</i>		(Optional)
<i>grp-addr</i>		(Optional)
<i>mode</i>		(Optional)
<i>rp-addr</i>		(Optional)
<i>sh-tree-only-range</i>		(Optional)
<i>action</i>		(Optional)
<i>origin</i>		(Optional)

## Command Mode

- /exec

## show ip pim interface show ip pim interface

```
show ip pim interface <interface> | show ip pim interface [ brief ] [ internal ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ <out-context> { TABLE_iod <if-name> <if-addr> <dr> <nbr-cnt>
<is-border> <is-iface-in-cib> <is-pim-enabled> <if-addr-summary> <if-status> <dr-priority> <no-dr-priority>
<hello-interval-sec> <hello-interval-msec> <hello-timer> <holdtime-sec> <holdtime-msec> <genid>
<isauth-config> <is-passive> <nbr-policy-name> <jp-in-policy-name> <jp-out-policy-name> <last-cleared>
<hello-sent> <hello-rcvd> <hello-early-sent> <jp-sent> <jp-rcvd> <assert-sent> <assert-rcvd> <graft-sent>
<graft-rcvd> <graft-ack-sent> <graft-ack-rcvd> <df-offer-sent> <df-offer-rcvd> <df-winner-sent>
<df-winner-rcvd> <df-backoff-sent> <df-backoff-rcvd> <pass-sent> <pass-rcvd> <cksum-errors>
<invalid-errors> <invalid-df-errors> <auth-failed> <pak-len-errors> <ver-errors> <pkts-self> <pkts-non-nbr>
<pkts-on-passive> <jp-rcvd-on-rpf> <jp-rcvd-no-rp> <jp-rcvd-wrong-rp> <jp-rcvd-for-ssm> <jp-rcvd-for-bidir>
<jp-in-policy-filter> <jp-out-policy-filter> } ]
```

### Syntax Description

#### 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>	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>out-context</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>if-addr</i>	(Optional)
<i>dr</i>	(Optional)
<i>nbr-cnt</i>	(Optional)
<i>is-iface-in-cib</i>	(Optional)

<i>is-pim-enabled</i>	(Optional)
<i>is-border</i>	(Optional)
<i>if-addr-summary</i>	(Optional)
<i>if-status</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)
<i>hello-interval-sec</i>	(Optional)
<i>hello-interval-msec</i>	(Optional)
<i>hello-timer</i>	(Optional)
<i>holdtime-sec</i>	(Optional)
<i>holdtime-msec</i>	(Optional)
<i>genid</i>	(Optional)
<i>isauth-config</i>	(Optional)
<i>is-passive</i>	(Optional)
<i>nbr-policy-name</i>	(Optional)
<i>jp-in-policy-name</i>	(Optional)
<i>jp-out-policy-name</i>	(Optional)
<i>last-cleared</i>	(Optional)
<i>hello-sent</i>	(Optional)
<i>hello-rcvd</i>	(Optional)
<i>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)

---

*df-offer-sent* (Optional)

---

*df-offer-rcvd* (Optional)

---

*df-winner-sent* (Optional)

---

*df-winner-rcvd* (Optional)

---

*df-backoff-sent* (Optional)

---

*df-backoff-rcvd* (Optional)

---

*pass-sent* (Optional)

---

*pass-rcvd* (Optional)

---

*cksum-errors* (Optional)

---

*invalid-errors* (Optional)

---

*invalid-df-errors* (Optional)

---

*auth-failed* (Optional)

---

*pak-len-errors* (Optional)

---

*ver-errors* (Optional)

---

*pkts-self* (Optional)

---

*pkts-non-nbr* (Optional)

---

*pkts-on-passive* (Optional)

---

*jp-rcvd-on-rpf* (Optional)

---

*jp-rcvd-no-rp* (Optional)

---

*jp-rcvd-wrong-rp* (Optional)

---

*jp-rcvd-for-ssm* (Optional)

---

*jp-rcvd-for-bidir* (Optional)

---

*jp-in-policy-filter* (Optional)

---

*jp-out-policy-filter* (Optional)

---

**Command Mode**

- /exec

# show ip pim internal

show ip pim internal

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
internal	Commands for internal use

## Command Mode

- /exec

# show ip pim internal errors

show ip pim internal errors

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
internal	Commands for internal use
errors	Show PIM errors

## Command Mode

- /exec

# show ip pim internal interface-txlist vrf

show ip pim internal interface-txlist vrf [ <vrf-known-name> | all ]

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
pim		Display PIM status and configuration
internal		Commands for internal use
interface-txlist		Show interface txlist
vrf		Display per-VRF information
<i>vrf-known-name</i>	(Optional)	Known VRF name
all	(Optional)	Display information for all VRFs

## Command Mode

- /exec

# show ip pim internal library

show ip pim internal { library-info | iod-cache }

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
internal	Commands for internal use
library-info	Show various event logs of library
iod-cache	Show PIM Interface IOD->Ifindex mapping cache

## Command Mode

- /exec



# show ip pim internal mem-stats

show ip pim internal mem-stats [ shared | all ] [ no-libs ] [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
internal	Commands for internal use
mem-stats	Show memory allocation statistics
shared	(Optional) Display shared memory statistics
all	(Optional) Display private and shared memory statistics
no-libs	(Optional) Exclude libraries
detail	(Optional) Display detailed information

## Command Mode

- /exec

# show ip pim internal pss-dump

```
show ip pim internal pss-dump [ df-states | interfaces | rp | auto-rp | bsr ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ]
```

## Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	pim	Display PIM status and configuration
	internal	Commands for internal use
	pss-dump	Display info stored in PSS
	df-states	(Optional) DF elected winner / loser information
	interfaces	(Optional) Interface information
	rp	(Optional) RP information
	auto-rp	(Optional) Auto-RP information
	bsr	(Optional) BSR 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

## Command Mode

- /exec

# show ip pim internal vpc

```
show ip pim internal { { vpc [ rpf-source [ vrf { <vrf-name> | <vrf-known-name> | all } ] ] } | emulated-switch
} [ __readonly__ TABLE_vpc <mcecm_reg> <mcec_tl_reg> <mct_up> <mct_name> ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
pim	Display PIM status and configuration	
internal	Commands for internal use	
vpc	Display vpc information	
rpf-source	(Optional) Display RPF-Source information	
vrf	(Optional) Display per-VRF information	
<i>vrf-name</i>	(Optional) VRF name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
emulated-switch	Display Emulated Switch related information	
all	(Optional) Display information for all VRFs	
<i>__readonly__</i>	(Optional)	
<i>TABLE_vpc</i>	(Optional)	
<i>mcecm_reg</i>	(Optional)	
<i>mcec_tl_reg</i>	(Optional)	
<i>mct_name</i>	(Optional)	
<i>mct_up</i>	(Optional)	

## Command Mode

- /exec

# show ip pim lisp encap

show ip pim lisp encap

## Syntax Description

---

### Syntax Description

---

`show` Show running system information

---

`ip` Display IP information

---

`pim` Display PIM status and configuration

---

`lisp` LISP related information

---

`encap` All the encap indices

---

## 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>
<mdt_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

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>mdt_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> ]
```

## Syntax Description

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

## 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

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	
<i>__readonly__</i>	(Optional)	
<i>TABLE_vrf</i>	(Optional)	
<i>out_context</i>	(Optional)	
<i>TABLE_entry</i>	(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> <recv_count> } ] ]
```

## Syntax Description

Syntax Description	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)
<i>TABLE_vrf</i>	(Optional)
<i>out_context</i>	(Optional)
<i>TABLE_entry</i>	(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>recv_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

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)
<i>TABLE_vrf</i>	(Optional)
<i>out_context</i>	(Optional)
<i>TABLE_entry</i>	(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> ] } [ detail | internal ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ <out-context> { TABLE_iod <if-name> <if-addr> <is-iface-in-cib>
<is-pim-enabled> { TABLE_neighbor <nbr-addr> <is-nbr-in-cib> <does-nbr-exist> <uptime> <expires>
<longest-hello-intvl> <bidir-capable> <dr-priority> <no-dr-priority> } } ]
```

### Syntax Description

#### 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)
<i>out-context</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>if-addr</i>	(Optional)
<i>is-iface-in-cib</i>	(Optional)
<i>is-pim-enabled</i>	(Optional)
TABLE_neighbor	(Optional)
<i>nbr-addr</i>	(Optional)
<i>is-nbr-in-cib</i>	(Optional)
<i>does-nbr-exist</i>	(Optional)

---

*uptime* (Optional)

---

*expires* (Optional)

---

*longest-hello-intvl* (Optional)

---

*bidir-capable* (Optional)

---

*dr-priority* (Optional)

---

*no-dr-priority* (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 <sgrprunelistoif-name> } ] ] ]
```

### Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
oif-list	Display interfaces for oif-list of PIM route
<i>source</i>	(Optional) Source address to display
<i>group</i>	Group address to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_grp	(Optional)
<i>mcast-addr</i>	(Optional)
<i>incoming-intf</i>	(Optional)
<i>rpf-nbr</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>oif-list-count</i>	(Optional)
TABLE_oiflist	(Optional)
<i>oif-name</i>	(Optional)
<i>timeout-list-count</i>	(Optional)

TABLE_timeoutlist	(Optional)
<i>timeoutoif-name</i>	(Optional)
<i>immediate-list-count</i>	(Optional)
TABLE_immediatelist	(Optional)
<i>immediateoif-name</i>	(Optional)
<i>immediate-timeout-list-count</i>	(Optional)
TABLE_immediatettimeoutlist	(Optional)
<i>immediatettimeoutoif-name</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
TABLE_sgrprunelist	(Optional)
<i>sgrprunelistoif-name</i>	(Optional)

**Command Mode**

- /exec

# show 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 } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
pim		PIM global configuration commands
policy		Policy related information
statistics		Policy statistics
register-policy		Show statistics for register-policy
bsr		Bootstrap protocol RP-distribution policy
bsr-policy		Statistics for filtered BSR messages
rp-candidate-policy		Statistics for filtered RP candidate messages
auto-rp		Statistics for auto-rp messages
rp-candidate-policy		Statistics for filtered RP candidate messages
mapping-agent-policy		Statistics for filtered mapping agent messages
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

## Command Mode

- /exec

# show ip pim policy statistics jp

show ip pim policy statistics { jp-policy | neighbor-policy } <interface>

## Syntax Description

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	

## Command Mode

- /exec



## show ip pim route

```
show ip pim route { [ bitfield ] | <source> <group> | <group> [ <source> ] [ bitfield ] } [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <context-name> <route-count> { TABLE_addr
<mcast-addr> <rp-addr> <rp-local> <bidir> <sgexpire> <sgrexpire> <timeleft> <rp-bit> <register>
<assert-timeout> { TABLE_rpf <intf-name> <rpf-nbr-1> <rpf-nbr-addr> <rpf-nbr-2> <metric-pref>
<route-metric> } { TABLE_oif <count> <bf-str> } { TABLE_timeout <count> <bf-str> } { TABLE_immediate
<count> <bf-str> } { TABLE_immediatetimeout <count> <bf-str> } { TABLE_sgrprunelist <count> <bf-str>
} <timeout-interval> <jp-holdtime> <encap-index> } ]
```

### Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
route	Display PIM specific route information
<i>group</i>	Group address to display
<i>source</i>	Source address to display
bitfield	(Optional) Display details of each bitfield for PIM route
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>context-name</i>	(Optional)
<i>route-count</i>	(Optional)
TABLE_addr	(Optional)
<i>mcast-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>rp-local</i>	(Optional)
<i>bidir</i>	(Optional)
<i>sgexpire</i>	(Optional)

<i>sgrexpire</i>	(Optional)
<i>timeleft</i>	(Optional)
<i>rp-bit</i>	(Optional)
<i>register</i>	(Optional)
<i>assert-timeout</i>	(Optional)
TABLE_rpf	(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)
TABLE_oif	(Optional)
<i>count</i>	(Optional)
<i>bf-str</i>	(Optional)
TABLE_timeout	(Optional)
<i>count</i>	(Optional)
<i>bf-str</i>	(Optional)
TABLE_immediate	(Optional)
<i>count</i>	(Optional)
<i>bf-str</i>	(Optional)
TABLE_immediatettimeout	(Optional)
<i>count</i>	(Optional)
<i>bf-str</i>	(Optional)
TABLE_sgrprunelist	(Optional)
<i>count</i>	(Optional)
<i>bf-str</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>jp-holdtime</i>	(Optional)

---

*encap-index* (Optional)

---

**Command Mode**

- /exec

# show ip pim route internal

```
show ip pim route internal [ <source> <group> | <group> [ <source> ] ] { [ detail ] } [ vrf { <vrf-name> |
<vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	pim	PIM global configuration commands
	route	Display PIM internal route cache
	internal	Commands for internal use
	<i>group</i>	(Optional) Group address to display
	<i>source</i>	(Optional) Source address 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

## 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

Syntax Description	show	Show running system information
	ip	Display IP information
	pim	Display PIM status and configuration
	rp-hash	Display RP hash value for group
	<i>group</i>	Group address for RP lookup
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	all	(Optional) Display information for all VRFs
	<i>__readonly__</i>	(Optional)
	<i>out-context</i>	(Optional)
	<i>rp-found</i>	(Optional)
	<i>is-rp-bsr-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

## show ip pim rp

```
show ip pim rp [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-context>
<is-bsr-enabled> <is-bsr-listen-only> <is-bsr-forward-only> <are-we-bsr> <bsr-address> <is-bsr-address>
<bsr-priority> <bsr-hash-masklen> <bs-timer> <bsr-uptime> <bsr-expires> <is-autorp-enabled>
<is-autorp-listen-only> <is-autorp-forward-only> <are-we-autorp> <autorp-address> <is-autorp-address>
<autorp-dis-timer> <autorp-up-time> <autorp-expire-time> <rp-cand-policy-name> <bsr-policy-name>
<rp-announce-policy-name> <rp-discovery-policy-name> { TABLE_anycast_rp <anycast-rp-addr> {
TABLE_arp_rp <arp-rp-addr> <is-rpaddr-local> } } { TABLE_rp <rp-addr> <is-rp-in-cib> <df-ordinal>
<rp-uptime> <rp-priority> <autorp-expires> <bsr-rp-expires> <autorp-info-src> <bsr-info-src> <is-rp-static>
<static-rp-group-map> { TABLE_grange <grange-grp> <grange-masklen> <is-bidir-grp> <is-autorp-rp-owner>
<is-bsr-rp-owner> <is-static-rp-owner> } } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
rp	Display PIM RP, Auto-RP, and BSR related information
<i>group</i>	(Optional) Display RP for group address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
<i>is-bsr-enabled</i>	(Optional)
<i>is-bsr-listen-only</i>	(Optional)
<i>is-bsr-forward-only</i>	(Optional)
<i>are-we-bsr</i>	(Optional)
<i>bsr-address</i>	(Optional)
<i>is-bsr-address</i>	(Optional)
<i>bsr-priority</i>	(Optional)
<i>bsr-hash-masklen</i>	(Optional)
<i>bs-timer</i>	(Optional)

<i>bsr-uptime</i>	(Optional)
<i>bsr-expires</i>	(Optional)
<i>is-atorp-enabled</i>	(Optional)
<i>is-atorp-listen-only</i>	(Optional)
<i>is-atorp-forward-only</i>	(Optional)
<i>are-we-atorp</i>	(Optional)
<i>atorp-address</i>	(Optional)
<i>is-atorp-address</i>	(Optional)
<i>atorp-dis-timer</i>	(Optional)
<i>atorp-up-time</i>	(Optional)
<i>atorp-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-in-cib</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rp-uptime</i>	(Optional)
<i>rp-priority</i>	(Optional)
<i>atorp-expires</i>	(Optional)
<i>bsr-rp-expires</i>	(Optional)
<i>atorp-info-src</i>	(Optional)

<i>bsr-info-src</i>	(Optional)
<i>is-rp-static</i>	(Optional)
<i>static-rp-group-map</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-grp</i>	(Optional)
<i>grange-masklen</i>	(Optional)
<i>is-bidir-grp</i>	(Optional)
<i>is-autorp-rp-owner</i>	(Optional)
<i>is-bsr-rp-owner</i>	(Optional)
<i>is-static-rp-owner</i>	(Optional)

**Command Mode**

- /exec



## show ip pim statistics

```
show ip pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <uptime> <reg-sent>
<reg-rcvd> <null-reg-sent> <null-reg-rcvd> <reg-stop-sent> <reg-stop-rcvd> <reg-rcvd-not-rp>
<reg-rcvd-for-ssm> <reg-rcvd-for-bidir> <bootstrap-sent> <bootstrap-rcvd> <cand-rp-sent> <cand-rp-rcvd>
<bs-no-nbr> <bs-border-deny> <bs-len-errors> <bs-rpf-failed> <bs-no-listen> <candrp-border-deny>
<candrp-no-listen> <autorp-announce-sent> <autorp-announce-rcvd> <autorp-discovery-sent>
<autorp-discovery-rcvd> <autorp-rpf-failed> <autorp-border-deny> <autorp-invalid-type> <autorp-ttl-expired>
<autorp-no-listen> <ctrl-no-route> <data-no-route> <no-state> <create-state> ]
```

### Syntax Description

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)
<i>uptime</i>		(Optional)
<i>reg-sent</i>		(Optional)
<i>reg-rcvd</i>		(Optional)
<i>null-reg-sent</i>		(Optional)
<i>null-reg-rcvd</i>		(Optional)
<i>reg-stop-sent</i>		(Optional)
<i>reg-stop-rcvd</i>		(Optional)
<i>reg-rcvd-not-rp</i>		(Optional)
<i>reg-rcvd-for-ssm</i>		(Optional)
<i>reg-rcvd-for-bidir</i>		(Optional)
<i>bootstrap-sent</i>		(Optional)
<i>bootstrap-rcvd</i>		(Optional)

<i>cand-rp-sent</i>	(Optional)
<i>cand-rp-rcvd</i>	(Optional)
<i>bs-no-nbr</i>	(Optional)
<i>bs-border-deny</i>	(Optional)
<i>bs-len-errors</i>	(Optional)
<i>bs-rpf-failed</i>	(Optional)
<i>bs-no-listen</i>	(Optional)
<i>candrp-border-deny</i>	(Optional)
<i>candrp-no-listen</i>	(Optional)
<i>autorp-announce-sent</i>	(Optional)
<i>autorp-announce-rcvd</i>	(Optional)
<i>autorp-discovery-sent</i>	(Optional)
<i>autorp-discovery-rcvd</i>	(Optional)
<i>autorp-rpf-failed</i>	(Optional)
<i>autorp-border-deny</i>	(Optional)
<i>autorp-invalid-type</i>	(Optional)
<i>autorp-ttl-expired</i>	(Optional)
<i>autorp-no-listen</i>	(Optional)
<i>ctrl-no-route</i>	(Optional)
<i>data-no-route</i>	(Optional)
<i>no-state</i>	(Optional)
<i>create-state</i>	(Optional)

**Command Mode**

- /exec

# show ip pim vrf

```
show ip pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail | internal ] [ __readonly__ {
TABLE_context <out-context> <context-id> <table-id> <count> <bfd> <mvpn> } ]
```

## Syntax Description

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

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

Syntax Description	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

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	
<i>__readonly__</i>	(Optional)	
TABLE_pbr	(Optional)	
<i>interface</i>	(Optional)	
<i>rmap</i>	(Optional)	
<i>status</i>	(Optional)	
<i>vrf_name</i>	(Optional)	

## Command Mode

- /exec

## show 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

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)
	<i>TABLE_ip_pfl</i>	(Optional)
	<i>name</i>	(Optional)
	<i>seq</i>	(Optional)
	<i>action</i>	(Optional)
	<i>rule</i>	(Optional)

### Command Mode

- /exec





<i>api-cntxt-id</i>	(Optional)
<i>api-base-tid</i>	(Optional)
<i>api-ip-addr</i>	(Optional)
<i>api-rtr-id-iod</i>	(Optional)
TABLE_iod	(Optional)
<i>entry-iod</i>	(Optional)
TABLE_local_addr	(Optional)
<i>local-addr</i>	(Optional)
TABLE_ip_pro_all	(Optional)
<i>all-pro-cntxt-name</i>	(Optional)
<i>all-pro-cntxt-id</i>	(Optional)

**Command Mode**

- /exec

## show ip rip

```
show { ipv6 | ip } rip [ instance <inst> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_inst <inst-name> TABLE_vrf <vrf> <port> <mcast-grp> <admin-dist> <update-tmr> <expire-tmr>
<garbage-tmr> <def-metric> <max-paths> <def-rt-distrib> <def-distrib-always> <process-disabled>
<out-of-mem> [ TABLE_afi <af> { TABLE_interface <if-name> } TABLE_redistrib <redistributing> {
TABLE_clients <pibName> <policy> } ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>port</i>	(Optional)
<i>mcast-grp</i>	(Optional)
<i>admin-dist</i>	(Optional)
<i>update-tmr</i>	(Optional)
<i>expire-tmr</i>	(Optional)
<i>garbage-tmr</i>	(Optional)
<i>def-metric</i>	(Optional)

<i>max-paths</i>	(Optional)
<i>def-rt-distrib</i>	(Optional)
<i>def-distrib-always</i>	(Optional)
<i>process-disabled</i>	(Optional)
<i>out-of-mem</i>	(Optional)
TABLE_afi	(Optional)
<i>af</i>	(Optional)
TABLE_interface	(Optional)
<i>if-name</i>	(Optional)
TABLE_redistrib	(Optional)
<i>redistributing</i>	(Optional)
TABLE_clients	(Optional)
<i>pibname</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

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
	<i>__readonly__</i>	(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**

**show ip rip interface**

- /exec

# show ip rip internal event-history

show { ipv6 | ip } rip [ instance <tag> ] internal event-history { errors | msgs | database | packet | event | input | output | policy | timer | cli }

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
ipv6	Display IPv6 information	
rip	Display RIP routing protocol status	
instance	(Optional) Process ID	
tag	(Optional) Process ID	
internal	Commands for internal use	
event-history	Show various event logs of RIP	
errors	Show error logs of RIP	
msgs	Show various message logs of RIP	
database	Show database logs of RIP	
packet	Show packet logs of RIP	
event	Show event logs of RIP	
input	Show input logs of RIP	
output	Show output logs of RIP	
policy	Show policy logs of RIP	
timer	Show timer logs of RIP	
cli	Show cli logs of RIP	

## Command Mode

- /exec

# show ip rip internal library-info

show { ipv6 | ip } rip [ instance <tag> ] internal library-info

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
ipv6	Display IPv6 information	
rip	Display RIP routing protocol status	
instance	(Optional) Process ID	
<i>tag</i>	(Optional) Process ID	
internal	Commands for internal use	
library-info	Show various event logs of library	

## Command Mode

- /exec



# show ip rip internal mem-stats

```
show { ipv6 | ip } rip [ instance <tag> ] internal mem-stats [ all | shared ] [ no-libs ] [ detail ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
ipv6	Display IPv6 information	
rip	Display RIP routing protocol status	
instance	(Optional) Process ID	
tag	(Optional) Process ID	
internal	Commands for internal use	
mem-stats	Show memory allocation statistics	
all	(Optional) Display private and shared memory details	
shared	(Optional) Display shared memory details	
no-libs	(Optional) Exclude libraries	
detail	(Optional) Display detailed information	

## Command Mode

- /exec

# show ip rip memory

```
show { ipv6 | ip } rip [ instance <inst> ] memory [ __readonly__ TABLE_inst <inst-name> <type> <size>
<count> <hwm> <slab> <overhead> <total> TABLE_total <total-overhead> <total-total> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
rip	Display RIP status and configuration
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
memory	Display RIP memory usage information
<i>__readonly__</i>	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
<i>type</i>	(Optional)
<i>size</i>	(Optional)
<i>count</i>	(Optional)
<i>hwm</i>	(Optional)
<i>slab</i>	(Optional)
<i>overhead</i>	(Optional)
<i>total</i>	(Optional)
TABLE_total	(Optional)
<i>total-overhead</i>	(Optional)
<i>total-total</i>	(Optional)

## Command Mode

- /exec

# show ip rip neighbor

```
show { ipv6 | ip } rip [ instance <inst> ] neighbor [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] [ __readonly__ TABLE_inst <inst-name> TABLE_vrf <vrf> <numberof-adj> <dead-timer-seconds>
{ TABLE_adj <adj-addr> <if-name> <last-response-sent> <last-response-rcvd> <last-request-sent>
<last-request-rcvd> <last-response-sent-state> <last-response-rcvd-state> <last-request-sent-state>
<last-request-rcvd-state> <in-bad-packets> <in-bad-routes> } ]
```

## Syntax Description

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)

---

*last-response-sent-state* (Optional)

---

*last-response-sent* (Optional)

---

*last-response-rcvd-state* (Optional)

---

*last-response-rcvd* (Optional)

---

*last-request-sent-state* (Optional)

---

*last-request-sent* (Optional)

---

*last-request-rcvd-state* (Optional)

---

*last-request-rcvd* (Optional)

---

*in-bad-packets* (Optional)

---

*in-bad-routes* (Optional)

---

#### Command Mode

- /exec

# show ip rip policy statistics redistribute

```
show ip rip [ instance <inst> ] policy statistics redistribute { bgp <as> | { eigrp | isis | <src-rip> | ospf } <tag>
| direct | static } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
rip	Display RIP routing protocol status	
instance	(Optional) Process ID	
<i>inst</i>	(Optional) Process ID	
policy	Policy related information	
statistics	Policy statistics	
redistribute	RIP redistribute routes from other routing protocol	
bgp	Border Gateway Protocol (BGP)	
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)	
<i>as</i>	Autonomous system number	
isis	Intermediate-to-intermediate (ISIS)	
src-rip	Routing Information Protocol (RIP)	
ospf	Open Shortest Path First (OSPFv2)	
<i>tag</i>	Process tag	
direct	Directly connected routes	
static	Static routes	
vrf	(Optional) Display per-VRF information	
<i>vrf-name</i>	(Optional) VRF name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
all	(Optional) Display information for all VRFs	

## Command Mode

- /exec

## show ip rip route

```
show { ipv6 | ip } rip [ instance <inst> ] route [ { <ipv6-prefix> | <ip-prefix> } [ { longer-prefixes |
shorter-prefixes } ] ] [ summary ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_inst
<inst-name> TABLE_vrf <vrf> [ { TABLE_route <best-route> <rt-prefix> <rt-mask> <rt-numnh> {
TABLE_nexthop <nh-direct> <nh-redistrib> <nh-addr> <nh-interface> <nh-metric> <nh-tag> <nh-state>
<nh-state-timer> } } ] [ { TABLE_summary <is-summary> <total-num-rts> <total-best-rts> <total-paths> {
TABLE_rtspermask <mask-length> <rts-per-mask> } } ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
route	RIP routes
summary	(Optional) route counts
<i>ip-prefix</i>	(Optional) Exact prefix
longer-prefixes	(Optional) exact match and more specific routes
shorter-prefixes	(Optional) exact match and less specific routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_route	(Optional)
<i>best-route</i>	(Optional)

<i>rt-prefix</i>	(Optional)
<i>rt-mask</i>	(Optional)
<i>rt-numnh</i>	(Optional)
TABLE_nexthop	(Optional)
<i>nh-direct</i>	(Optional)
<i>nh-redistrib</i>	(Optional)
<i>nh-addr</i>	(Optional)
<i>nh-interface</i>	(Optional)
<i>nh-metric</i>	(Optional)
<i>nh-tag</i>	(Optional)
<i>nh-state</i>	(Optional)
<i>nh-state-timer</i>	(Optional)
TABLE_summary	(Optional)
<i>is-summary</i>	(Optional)
<i>total-num-rts</i>	(Optional)
<i>total-best-rts</i>	(Optional)
<i>total-paths</i>	(Optional)
TABLE_rtspermask	(Optional)
<i>mask-length</i>	(Optional)
<i>rts-per-mask</i>	(Optional)

**Command Mode**

- /exec

## show ip rip statistics

```
show { ipv6 | ip } rip [ instance <inst> ] statistics [ * | <interface> ] [ __readonly__ TABLE_inst <inst-name>
TABLE_interface <if-name> <periodic-updates> <trigger-updates> <out-mcast-request> <out-ucast-update>
<out-ucast-request> <in-mcast-update> <in-mcast-request> <in-ucast-update> <in-ucast-request> <bad-pkt>
<bad-route> ]
```

### Syntax Description

#### 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
<i>__readonly__</i>	(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)



---

*bad-pkt* (Optional)

---

*bad-route* (Optional)

---

**Command Mode**

- /exec

## show ip route

```
show { routing | ip route } [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [
topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ip-addr> | { <ip-prefix> [ { longer-prefixes | shorter-prefixes
} ] } ] [ { <protocol> [ all ] } | { 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> ] [ <ifname>
] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ] [ <hidden> ] [
<stale-label> ] [ <ubest> ] [ <mbest> ] ] [ TABLE_summary <routes> <paths> [ <multicast_paths> ] [
TABLE_unicast [ <clientname> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE_multicast [ <clientname>
] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE_route_count [ <mask_len> ] [ <count> ] ] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
routing	Display routing 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

<i>next-hop</i>	(Optional) Display routes with this next-hop only
<i>next-hop</i>	(Optional) Next hop address
<i>next-hop-v6</i>	(Optional) Display routes with this V6 next-hop only
<i>interface</i>	(Optional) Display routes with this output interface only
<i>interface</i>	(Optional) Interface Name
<i>updated</i>	(Optional) Display routes filtered by last updated time
<i>since</i>	(Optional) Display those routes updated since this time
<i>stime</i>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
<i>until</i>	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
<i>summary</i>	(Optional) Display route counts
<i>detail</i>	(Optional) Display routes in full detail
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>TABLE_addrf</i>	(Optional)
<i>addrf</i>	(Optional)
<i>TABLE_prefix</i>	(Optional)
<i>ipprefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
<i>TABLE_path</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>ifname</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>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>clientname</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientname</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 router-id

```
show ip router-id [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
router-id		Display IP router identification
vrf		(Optional) Display per-VRF information
all		(Optional) Display all VRFs
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

## Command Mode

- /exec

## show ip rsvp

```
show ip rsvp [ __readonly__ [ <sup-state> <start-type> <restart-type> <ha-ena> <gr-ena> <hst-ena>
<glb-router-id> <psr-ena> <local-epoch> ] [ TABLE_clients <clnt-name> <clnt-sap> <clnt-type>
<clnt-batch-time> [ <clnt-lxsb> ] ] [ <bundle-ena> <bundle-time> <bundle-maxsz> ] [ <refresh-intvl>
<refresh-miss> ] [ <refred-ena> <rr-init-rexmit-delay> <rr-rapid-rexmit-ena> <rr-ack-delay> ] [ <rate-limit-ena>
<rate-limit-cap> <rate-limit-pace-intvl> ] [ <gr-tmr> [ <gr-tmr-expiry> ] ] [ <auth-ena> [ <key-src> ] [ <digest>
] [ <seq-winsize> ] [ <challenge> ] [ <lifetime> ] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
<i>__readonly__</i>	(Optional)
<i>sup-state</i>	(Optional)
<i>start-type</i>	(Optional)
<i>restart-type</i>	(Optional)
<i>ha-ena</i>	(Optional)
<i>gr-ena</i>	(Optional)
<i>hst-ena</i>	(Optional)
<i>glb-router-id</i>	(Optional)
<i>psr-ena</i>	(Optional)
<i>local-epoch</i>	(Optional)
<i>bundle-ena</i>	(Optional)
<i>bundle-time</i>	(Optional)
<i>bundle-maxsz</i>	(Optional)
<i>refresh-intvl</i>	(Optional)
<i>refresh-miss</i>	(Optional)
<i>refred-ena</i>	(Optional)
<i>rr-rapid-rexmit-ena</i>	(Optional)
<i>rr-init-rexmit-delay</i>	(Optional)
<i>rr-ack-delay</i>	(Optional)

<i>rate-limit-ena</i>	(Optional)
<i>rate-limit-cap</i>	(Optional)
<i>rate-limit-pace-intvl</i>	(Optional)
<i>gr-tmr</i>	(Optional)
<i>gr-tmr-expiry</i>	(Optional)
<i>auth-ena</i>	(Optional)
<i>key-src</i>	(Optional)
<i>digest</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>challenge</i>	(Optional)
<i>lifetime</i>	(Optional)
TABLE_clients	(Optional)
<i>clnt-name</i>	(Optional)
<i>clnt-sap</i>	(Optional)
<i>clnt-type</i>	(Optional)
<i>clnt-batch-time</i>	(Optional)
<i>clnt-lxsb</i>	(Optional)

**Command Mode**

- /exec

## show ip rsvp authentication

```
show ip rsvp authentication [ detail ] [ interface <ifname> ] [ from <ip_frm> ] [ to <ip_to> ] [ __readonly__
[ TABLE_authentication <src> <dst> <nbr-ip> <interface> <mode> [ <lifetime> <lifetime-left> <code> ]
<key-src> <key-id> [ <code> ] [ <digest> <challenge> ] [ <tx-seq> ] [ <rx-seq> <seq-winsize> <seq-wincnt>
] ] ]
```

### Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	authentication	Display RSVP Security Association information
	detail	(Optional) Display detailed RSVP status
	interface	(Optional) Display RSVP interface information
	<i>ifname</i>	(Optional) Display RSVP interface information
	from	(Optional) Starting point of association
	<i>ip_frm</i>	(Optional) Address of starting point of association
	to	(Optional) Ending point of association
	<i>ip_to</i>	(Optional) Address of ending point of association
	<i>__readonly__</i>	(Optional)
	TABLE_authentication	(Optional)
	<i>src</i>	(Optional)
	<i>dst</i>	(Optional)
	<i>nbr-ip</i>	(Optional)
	<i>interface</i>	(Optional)
	<i>mode</i>	(Optional)
	<i>key-src</i>	(Optional)
	<i>key-id</i>	(Optional)
	<i>code</i>	(Optional)
	<i>lifetime</i>	(Optional)
	<i>lifetime-left</i>	(Optional)



<i>digest</i>	(Optional)
<i>challenge</i>	(Optional)
<i>tx-seq</i>	(Optional)
<i>rx-seq</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>seq-wincnt</i>	(Optional)

**Command Mode**

- /exec

## show ip rsvp counters

```
show ip rsvp counters [ interface <ifname> | teardown | authentication | all ] [ __readonly__ TABLE_counters
[ <rsn-unspec> <pt-cnt-unspec> <rt-cnt-unspec> <rsn-path-tmo> <pt-cnt-path-tmo> <rt-cnt-path-tmo>
<rsn-resv-tmo> <pt-cnt-resv-tmo> <rt-cnt-resv-tmo> <rsn-signaled> <pt-cnt-signaled> <rt-cnt-signaled>
<rsn-mgmt> <pt-cnt-mgmt> <rt-cnt-mgmt> <rsn-policy> <pt-cnt-policy> <rt-cnt-policy> <rsn-proxy>
<pt-cnt-proxy> <rt-cnt-proxy> <rsn-no-rsrc> <pt-cnt-no-rsrc> <rt-cnt-no-rsrc> <rsn-preempted>
<pt-cnt-preempted> <rt-cnt-preempted> <rsn-msg-err> <pt-cnt-msg-err> <rt-cnt-msg-err> <rsn-internal>
<pt-cnt-internal> <rt-cnt-internal> <rsn-traffic> <pt-cnt-traffic> <rt-cnt-traffic> <rsn-sync-unk>
<pt-cnt-sync-unk> <rt-cnt-sync-unk> <rsn-gr-tmo> <pt-cnt-gr-tmo> <rt-cnt-gr-tmo> <rsn-link-nbor-down>
<pt-cnt-link-nbor-down> <rt-cnt-link-nbor-down> <rsn-local-perr-psr> <pt-cnt-local-perr-psr>
<rt-cnt-local-perr-psr> <rsn-network-perr-psr> <pt-cnt-network-perr-psr> <rt-cnt-network-perr-psr>
<rsn-hello-st-tmo> <pt-cnt-hello-st-tmo> <rt-cnt-hello-st-tmo> <rsn-plr-bkup-del> <pt-cnt-plr-bkup-del>
<rt-cnt-plr-bkup-del> <rsn-cli-clear> <pt-cnt-cli-clear> <rt-cnt-cli-clear> <rsn-restart-cmd> <pt-cnt-restart-cmd>
<rt-cnt-restart-cmd> <rsn-intf-del> <pt-cnt-intf-del> <rt-cnt-intf-del> ] [ <auth_send_authenticated>
<auth_send_authentication_failures> <auth-recv-valid-msgs> <auth-recv-total-err> <auth_recv_no_integrity>
<auth_recv_bad_digest> <auth_recv_wrong_digest_type> <auth_recv_seq_num_dup>
<auth_recv_seq_num_out_of_range> <auth_send_challenges_rcvd> <auth_send_challenge_responses_sent>
<auth_recv_challenges_sent> <auth_recv_challenge_timeouts> <auth_recv_challenges_resent>
<auth_recv_challenge_responses_rcvd> <auth_recv_during_challenge>
<auth_recv_wrong_challenge_response> <auth_recv_challenge_response_dup>
<auth_recv_challenge_response_late> ] [ [ <pkt-rx> <pkt-tx> <pkt-rx-err> <pkt-tx-err> ] <path-rx> <path-tx>
<resv-rx> <resv-tx> <patherr-rx> <patherr-tx> <resvrr-rx> <resvrr-tx> <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> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
counters	Display RSVP statistics
interface	(Optional) Display RSVP interface information
<i>ifname</i>	(Optional) Display RSVP interface information
teardown	(Optional) Display signaling tear information
authentication	(Optional) Display RSVP Security Association information
all	(Optional) Display all information
<i>__readonly__</i>	(Optional)
TABLE_counters	(Optional)

<i>rsn-unspec</i>	(Optional)
<i>pt-cnt-unspec</i>	(Optional)
<i>rt-cnt-unspec</i>	(Optional)
<i>rsn-path-tmo</i>	(Optional)
<i>pt-cnt-path-tmo</i>	(Optional)
<i>rt-cnt-path-tmo</i>	(Optional)
<i>rsn-resv-tmo</i>	(Optional)
<i>pt-cnt-resv-tmo</i>	(Optional)
<i>rt-cnt-resv-tmo</i>	(Optional)
<i>rsn-signaled</i>	(Optional)
<i>pt-cnt-signaled</i>	(Optional)
<i>rt-cnt-signaled</i>	(Optional)
<i>rsn-mgmt</i>	(Optional)
<i>pt-cnt-mgmt</i>	(Optional)
<i>rt-cnt-mgmt</i>	(Optional)
<i>rsn-policy</i>	(Optional)
<i>pt-cnt-policy</i>	(Optional)
<i>rt-cnt-policy</i>	(Optional)
<i>rsn-proxy</i>	(Optional)
<i>pt-cnt-proxy</i>	(Optional)
<i>rt-cnt-proxy</i>	(Optional)
<i>rsn-no-rsrc</i>	(Optional)
<i>pt-cnt-no-rsrc</i>	(Optional)
<i>rt-cnt-no-rsrc</i>	(Optional)
<i>rsn-preempted</i>	(Optional)
<i>pt-cnt-preempted</i>	(Optional)
<i>rt-cnt-preempted</i>	(Optional)
<i>rsn-msg-err</i>	(Optional)
<i>pt-cnt-msg-err</i>	(Optional)

<i>rt-cnt-msg-err</i>	(Optional)
<i>rsn-internal</i>	(Optional)
<i>pt-cnt-internal</i>	(Optional)
<i>rt-cnt-internal</i>	(Optional)
<i>rsn-traffic</i>	(Optional)
<i>pt-cnt-traffic</i>	(Optional)
<i>rt-cnt-traffic</i>	(Optional)
<i>rsn-sync-unk</i>	(Optional)
<i>pt-cnt-sync-unk</i>	(Optional)
<i>rt-cnt-sync-unk</i>	(Optional)
<i>rsn-gr-tmo</i>	(Optional)
<i>pt-cnt-gr-tmo</i>	(Optional)
<i>rt-cnt-gr-tmo</i>	(Optional)
<i>rsn-link-nbor-down</i>	(Optional)
<i>pt-cnt-link-nbor-down</i>	(Optional)
<i>rt-cnt-link-nbor-down</i>	(Optional)
<i>rsn-local-perr-psr</i>	(Optional)
<i>pt-cnt-local-perr-psr</i>	(Optional)
<i>rt-cnt-local-perr-psr</i>	(Optional)
<i>rsn-network-perr-psr</i>	(Optional)
<i>pt-cnt-network-perr-psr</i>	(Optional)
<i>rt-cnt-network-perr-psr</i>	(Optional)
<i>rsn-hello-st-tmo</i>	(Optional)
<i>pt-cnt-hello-st-tmo</i>	(Optional)
<i>rt-cnt-hello-st-tmo</i>	(Optional)
<i>rsn-plr-bkup-del</i>	(Optional)
<i>pt-cnt-plr-bkup-del</i>	(Optional)
<i>rt-cnt-plr-bkup-del</i>	(Optional)
<i>rsn-cli-clear</i>	(Optional)

<i>pt-cnt-cli-clear</i>	(Optional)
<i>rt-cnt-cli-clear</i>	(Optional)
<i>rsn-restart-cmd</i>	(Optional)
<i>pt-cnt-restart-cmd</i>	(Optional)
<i>rt-cnt-restart-cmd</i>	(Optional)
<i>rsn-intf-del</i>	(Optional)
<i>pt-cnt-intf-del</i>	(Optional)
<i>rt-cnt-intf-del</i>	(Optional)
<i>auth_send_authenticated</i>	(Optional)
<i>auth_send_authentication_failures</i>	(Optional)
<i>auth_send_challenges_rcvd</i>	(Optional)
<i>auth_send_challenge_responses_sent</i>	(Optional)
<i>auth-recv-total-err</i>	(Optional)
<i>auth-recv-valid-msgs</i>	(Optional)
<i>auth_recv_no_integrity</i>	(Optional)
<i>auth_recv_bad_digest</i>	(Optional)
<i>auth_recv_wrong_digest_type</i>	(Optional)
<i>auth_recv_seq_num_dup</i>	(Optional)
<i>auth_recv_seq_num_out_of_range</i>	(Optional)
<i>auth_recv_challenges_sent</i>	(Optional)
<i>auth_recv_challenge_timeouts</i>	(Optional)
<i>auth_recv_challenges_resent</i>	(Optional)
<i>auth_recv_challenge_responses_rcvd</i>	(Optional)
<i>auth_recv_during_challenge</i>	(Optional)
<i>auth_recv_wrong_challenge_response</i>	(Optional)
<i>auth_recv_challenge_response_dup</i>	(Optional)
<i>auth_recv_challenge_response_late</i>	(Optional)
<i>pkt-rx</i>	(Optional)
<i>pkt-tx</i>	(Optional)

<i>pkt-rx-err</i>	(Optional)
<i>pkt-tx-err</i>	(Optional)
<i>path-rx</i>	(Optional)
<i>path-tx</i>	(Optional)
<i>resv-rx</i>	(Optional)
<i>resv-tx</i>	(Optional)
<i>patherr-rx</i>	(Optional)
<i>patherr-tx</i>	(Optional)
<i>resvrr-rx</i>	(Optional)
<i>resvrr-tx</i>	(Optional)
<i>pathtear-rx</i>	(Optional)
<i>pathtear-tx</i>	(Optional)
<i>resvtear-rx</i>	(Optional)
<i>resvtear-tx</i>	(Optional)
<i>resvconf-rx</i>	(Optional)
<i>resvconf-tx</i>	(Optional)
<i>rtearconf-rx</i>	(Optional)
<i>rtearconf-tx</i>	(Optional)
<i>ack-rx</i>	(Optional)
<i>ack-tx</i>	(Optional)
<i>sref-rx</i>	(Optional)
<i>sref-tx</i>	(Optional)
<i>hello-rx</i>	(Optional)
<i>hello-tx</i>	(Optional)
<i>intchal-rx</i>	(Optional)
<i>intchal-tx</i>	(Optional)
<i>intresp-rx</i>	(Optional)
<i>intresp-tx</i>	(Optional)
<i>bundle-rx</i>	(Optional)

<i>bundle-tx</i>	(Optional)
<i>bundle-path-rx</i>	(Optional)
<i>bundle-path-tx</i>	(Optional)
<i>bundle-resv-rx</i>	(Optional)
<i>bundle-resv-tx</i>	(Optional)
<i>bundle-patherr-rx</i>	(Optional)
<i>bundle-patherr-tx</i>	(Optional)
<i>bundle-resverr-rx</i>	(Optional)
<i>bundle-resverr-tx</i>	(Optional)
<i>bundle-pathtear-rx</i>	(Optional)
<i>bundle-pathtear-tx</i>	(Optional)
<i>bundle-resvtear-rx</i>	(Optional)
<i>bundle-resvtear-tx</i>	(Optional)
<i>bundle-ack-rx</i>	(Optional)
<i>bundle-ack-tx</i>	(Optional)

**Command Mode**

- /exec

## show ip rsvp fast-reroute

```
show ip rsvp fast-reroute [ detail ] [ destination <dest_addr> ] [ source <src_addr> ] [ dst-port <dport-val> ]
[ src-port <sport-val> ] [ protect-if <ifname> ] [ __readonly__ [ TABLE_frr <key-frr-dest> <tun-id> <source>
<bkp-ifname> <prot-intf> <nnhop> <frr-state> ] [ TABLE_frr_detail <type> <dest> <tun-id> <source> [
<bkp-ifname> <bkpifid> <mergept> <mergept-ero> <nnhop> <frr-state> <prot-intf> <bw-prot> <frr-bw>
<bw-prot-level> <desrd-bit> <b-sel-prio> <bkp-src> <tail-addr> <bkp-phy-ifnm> <bkp-phy-ifaddr>
<bkp-phy-mtu> ] ] [ <total-path> <active-path> <ready-path> <unassign-path> [ <unprotect-path> ] ] ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
fast-reroute	Display RSVP fast-reroute information
detail	(Optional) Display detailed RSVP status
destination	(Optional) Display FRR data based on a destination address
<i>dest_addr</i>	(Optional) Destination address
source	(Optional) Display FRR data based on a source address
<i>src_addr</i>	(Optional) Source address
dst-port	(Optional) Display FRR data based on destination port
<i>dport-val</i>	(Optional) Destination Port value
src-port	(Optional) Display FRR data based on a source port
<i>sport-val</i>	(Optional) Source port value
protect-if	(Optional) Display FRR data based on protected interface
<i>ifname</i>	(Optional) Protected interface name
<i>__readonly__</i>	(Optional)
<i>total-path</i>	(Optional)
<i>active-path</i>	(Optional)
<i>ready-path</i>	(Optional)
<i>unassign-path</i>	(Optional)
<i>unprotect-path</i>	(Optional)
TABLE_frr	(Optional)



<i>key-frr-dest</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>source</i>	(Optional)
<i>bkp-ifname</i>	(Optional)
<i>prot-intf</i>	(Optional)
<i>nnhop</i>	(Optional)
<i>frr-state</i>	(Optional)
TABLE_frr_detail	(Optional)
<i>type</i>	(Optional)
<i>dest</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>source</i>	(Optional)
<i>bkp-ifname</i>	(Optional)
<i>bkpifid</i>	(Optional)
<i>mergept</i>	(Optional)
<i>mergept-ero</i>	(Optional)
<i>nnhop</i>	(Optional)
<i>frr-state</i>	(Optional)
<i>prot-intf</i>	(Optional)
<i>bw-prot</i>	(Optional)
<i>frr-bw</i>	(Optional)
<i>bw-prot-level</i>	(Optional)
<i>desrd-bit</i>	(Optional)
<i>b-sel-prio</i>	(Optional)
<i>bkp-src</i>	(Optional)
<i>tail-addr</i>	(Optional)
<i>bkp-phy-ifnm</i>	(Optional)
<i>bkp-phy-ifaddr</i>	(Optional)
<i>bkp-phy-mtu</i>	(Optional)

**Command Mode**

- /exec

# show ip rsvp hello client lsp

```
show ip rsvp hello client lsp [ detail ] [ __readonly__ [ TABLE_hc_lsp_sum <src-addr> <dst-addr> <tun-id>
<lsp-id> <subgrp-orig> <subgrp-id> <lsp-flags> [ <gr-up-nbr> <gr-down-nbr> <rr-up-nbr> <rr-down-nbr>
<incompl-nbr-type> ] ] ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
hello	Display RSVP Hello Information
client	Display Hello client instances
lsp	Display LSP information
detail	(Optional) Display detailed RSVP status
<i>__readonly__</i>	(Optional)
<i>TABLE_hc_lsp_sum</i>	(Optional)
<i>src-addr</i>	(Optional)
<i>dst-addr</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>lsp-id</i>	(Optional)
<i>subgrp-orig</i>	(Optional)
<i>subgrp-id</i>	(Optional)
<i>lsp-flags</i>	(Optional)
<i>gr-up-nbr</i>	(Optional)
<i>gr-down-nbr</i>	(Optional)
<i>rr-up-nbr</i>	(Optional)
<i>rr-down-nbr</i>	(Optional)
<i>incompl-nbr-type</i>	(Optional)

## Command Mode

- /exec

# show ip rsvp hello client neighbor

```
show ip rsvp hello client neighbor [ detail ] [ __readonly__ [ TABLE_clnt_nbr_sum <nbr-addr> <nbr-type>
<nbr-state> <hi-state> <lsp-count> ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
hello		Display RSVP Hello Information
client		Display Hello client instances
neighbor		Display information for Hello neighbor
detail		(Optional) Display detailed RSVP status
<i>__readonly__</i>		(Optional)
<i>TABLE_clnt_nbr_sum</i>		(Optional)
<i>nbr-addr</i>		(Optional)
<i>nbr-type</i>		(Optional)
<i>nbr-state</i>		(Optional)
<i>hi-state</i>		(Optional)
<i>lsp-count</i>		(Optional)

## Command Mode

- /exec

# show ip rsvp hello graceful-restart

```
show ip rsvp hello graceful-restart [ __readonly__ [ TABLE_gr <gr-state> <gr-mode> <refesh-interval>
<refresh-misses> <dscp> <restart-time> <recover-time> <max-recover-wait> ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
hello		Display RSVP Hello Information
graceful-restart		Display RSVP graceful-restart information
<i>__readonly__</i>		(Optional)
<i>TABLE_gr</i>		(Optional)
<i>gr-state</i>		(Optional)
<i>gr-mode</i>		(Optional)
<i>refesh-interval</i>		(Optional)
<i>refresh-misses</i>		(Optional)
<i>dscp</i>		(Optional)
<i>restart-time</i>		(Optional)
<i>recover-time</i>		(Optional)
<i>max-recover-wait</i>		(Optional)

## Command Mode

- /exec

## show ip rsvp hello instance

```
show ip rsvp hello instance [ interface <ifname> ] [ neighbor <nbr-addr> ] [ detail ] [ __readonly__ [
TABLE_hello_inst <key-inst-client-type> <nbr-ip> <if-name> <nbr-state> <lost-comm-count> <lsp-count>
<hello-interval> ] [ TABLE_hello_detail <key-det-nbr-ip> <src-ip> <hi-type> <if-name> <nbr-state>
<client-type> <lsp-count> <missed-acks-conf> <ref-interval> <src-inst> <nbr-inst> [ <rest-time> <rec-time>
] <lost-comm-count> <missed_ack_cnt> <bad-src-inst-cnt> <bad-dst-inst-cnt> <nbr-disabled-hi-cnt>
<msg-rcvd> <msg-sent> <msg-supp> ] [ TABLE_hello_passive_inst <key-psv-nbr-ip> <if-name> ] ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
hello	Display RSVP Hello Information
instance	Display information for Hello instances
interface	(Optional) Display RSVP interface information
<i>ifname</i>	(Optional) Display RSVP interface information
neighbor	(Optional) Display information for Hello neighbor
<i>nbr-addr</i>	(Optional) RSVP Neighbor address
detail	(Optional) Display detailed RSVP status
<i>__readonly__</i>	(Optional)
TABLE_hello_inst	(Optional)
<i>key-inst-client-type</i>	(Optional)
<i>nbr-ip</i>	(Optional)
<i>if-name</i>	(Optional)
<i>nbr-state</i>	(Optional)
<i>lost-comm-count</i>	(Optional)
<i>lsp-count</i>	(Optional)
<i>hello-interval</i>	(Optional)
TABLE_hello_detail	(Optional)
<i>key-det-nbr-ip</i>	(Optional)
<i>src-ip</i>	(Optional)

<i>hi-type</i>	(Optional)
<i>if-name</i>	(Optional)
<i>nbr-state</i>	(Optional)
<i>client-type</i>	(Optional)
<i>lsp-count</i>	(Optional)
<i>missed-acks-conf</i>	(Optional)
<i>ref-interval</i>	(Optional)
<i>src-inst</i>	(Optional)
<i>nbr-inst</i>	(Optional)
<i>rest-time</i>	(Optional)
<i>rec-time</i>	(Optional)
<i>missed_ack_cnt</i>	(Optional)
<i>bad-src-inst-cnt</i>	(Optional)
<i>bad-dst-inst-cnt</i>	(Optional)
<i>lost-comm-count</i>	(Optional)
<i>nbr-disabled-hi-cnt</i>	(Optional)
<i>msg-rcvd</i>	(Optional)
<i>msg-sent</i>	(Optional)
<i>msg-supp</i>	(Optional)
TABLE_hello_passive_inst	(Optional)
<i>key-psv-nbr-ip</i>	(Optional)
<i>if-name</i>	(Optional)

#### Command Mode

- /exec

## show ip rsvp interface

```
show ip rsvp interface [ <ifname> ] [ detail | backup-tunnel ] [ __readonly__ [ TABLE_inter <key-if-name>
<ifid> <iod> <mpls-ena> <conf-ena> <state> ] [ TABLE_bkp_inter <key-bkp-if-name> <ifid> <iod> <mtu>
<state> <tail-addr> <phys-if> ] [ TABLE_detail <key-det-if-name> <iod> <ifid> <ifaddr> <masklen>
<mpls-ena> <conf-ena> <dyn-type> <dyn-keepalive-flg> <state> <if-flags> <mtu> <dyn-tmr> [ <dyn-expiry>
] <sig-dscp> <hello-dscp> <tcsb-count> <ip-nbr-cnt> <in-list-cnt> <rr-enabled> <max-sr-size-conf>
<max-sr-size> <refresh-timer> <sum-refresh-timer> <time-refresh-intval> <expiry-timer> <expiry-intval>
<miss-limit> <bundle-ena> <max-bundle-sz> <rel-ena> <ack-tmr> <ack-init-rexmit> <ack-intval>
<ack-max-conf-size> <ack-max-size> <sr-rel> < pacing-ena> <pace-tmr> <pace_intval> <pace-cap-rate>
<pace-msg-count> <pace-msg-defer-count> <auth-ena> [ <key-src> <digest> <seq-winsize> <challenge> ]
<hst-ena> <hst-intval> <missed_acks> ] ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
interface	Display RSVP interface information
<i>ifname</i>	(Optional) Display RSVP interface information
backup-tunnel	(Optional) Display backup tunnel information
detail	(Optional) Display detailed RSVP status
<i>__readonly__</i>	(Optional)
TABLE_inter	(Optional)
<i>key-if-name</i>	(Optional)
<i>ifid</i>	(Optional)
<i>iod</i>	(Optional)
<i>mpls-ena</i>	(Optional)
<i>conf-ena</i>	(Optional)
<i>state</i>	(Optional)
TABLE_bkp_inter	(Optional)
<i>key-bkp-if-name</i>	(Optional)
<i>iod</i>	(Optional)
<i>ifid</i>	(Optional)
<i>mtu</i>	(Optional)



<i>state</i>	(Optional)
<i>tail-addr</i>	(Optional)
<i>phys-if</i>	(Optional)
TABLE_detail	(Optional)
<i>key-det-if-name</i>	(Optional)
<i>iod</i>	(Optional)
<i>ifid</i>	(Optional)
<i>ifaddr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>mpls-ena</i>	(Optional)
<i>conf-ena</i>	(Optional)
<i>state</i>	(Optional)
<i>if-flags</i>	(Optional)
<i>dyn-type</i>	(Optional)
<i>mtu</i>	(Optional)
<i>dyn-tmr</i>	(Optional)
<i>dyn-expiry</i>	(Optional)
<i>dyn-keepalive-flg</i>	(Optional)
<i>tcsb-count</i>	(Optional)
<i>ip-nbr-cnt</i>	(Optional)
<i>in-list-cnt</i>	(Optional)
<i>rr-enabled</i>	(Optional)
<i>refresh-timer</i>	(Optional)
<i>sum-refresh-timer</i>	(Optional)
<i>time-refresh-intval</i>	(Optional)
<i>max-sr-size</i>	(Optional)
<i>max-sr-size-conf</i>	(Optional)
<i>sr-rel</i>	(Optional)
<i>max-bundle-sz</i>	(Optional)

<i>expiry-timer</i>	(Optional)
<i>expiry-intval</i>	(Optional)
<i>miss-limit</i>	(Optional)
<i>bundle-ena</i>	(Optional)
<i>rel-ena</i>	(Optional)
<i>ack-intval</i>	(Optional)
<i>ack-max-size</i>	(Optional)
<i>ack-max-conf-size</i>	(Optional)
<i>ack-tmr</i>	(Optional)
<i>ack-init-rexmit</i>	(Optional)
<i>sig-dscp</i>	(Optional)
<i>hello-dscp</i>	(Optional)
<i> pacing-ena</i>	(Optional)
<i>pace-tmr</i>	(Optional)
<i>pace_intval</i>	(Optional)
<i>pace-cap-rate</i>	(Optional)
<i>pace-msg-count</i>	(Optional)
<i>pace-msg-defer-count</i>	(Optional)
<i>auth-ena</i>	(Optional)
<i>key-src</i>	(Optional)
<i>digest</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>challenge</i>	(Optional)
<i>hst-ena</i>	(Optional)
<i>hst-intval</i>	(Optional)
<i>missed_acks</i>	(Optional)

**Command Mode**

- /exec

# show ip rsvp internal counters

show ip rsvp internal counters [ error | client | mts | pss | database | refresh | reliable | batch-history ]

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
rsvp	Display RSVP status	
internal	Display RSVP internal information	
counters	Display RSVP statistics	
error	(Optional) Display signaling error information	
client	(Optional) Display client information	
mts	(Optional) Display message service information	
pss	(Optional) Display persistent store information	
database	(Optional) Display database information	
refresh	(Optional) Display refresh information	
reliable	(Optional) Display reliable message information	
batch-history	(Optional) Display batching history	

## Command Mode

- /exec

# show ip rsvp internal database

show ip rsvp internal database

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
database	Display database information

## Command Mode

- /exec

# show ip rsvp internal event-history authentication

show ip rsvp internal event-history authentication

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	internal	Display RSVP internal information
	event-history	Display event-history buffer content
	authentication	Display authentication events

## Command Mode

- /exec

# show ip rsvp internal event-history bundle-message

show ip rsvp internal event-history bundle-message

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	internal	Display RSVP internal information
	event-history	Display event-history buffer content
	bundle-message	Display bundle-message events

## Command Mode

- /exec

# show ip rsvp internal event-history cli

show ip rsvp internal event-history cli

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
cli		Display cli events

## Command Mode

- /exec

# show ip rsvp internal event-history database

show ip rsvp internal event-history database

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
database		Display database events

## Command Mode

- /exec



# show ip rsvp internal event-history dump-messages

show ip rsvp internal event-history dump-messages

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
dump-messages		Display message events

## Command Mode

- /exec

# show ip rsvp internal event-history error

show ip rsvp internal event-history error

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
error		Display error events

## Command Mode

- /exec

# show ip rsvp internal event-history event

show ip rsvp internal event-history event

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	internal	Display RSVP internal information
	event-history	Display event-history buffer content
	event	Display rsvp events

## Command Mode

- /exec

# show ip rsvp internal event-history fast-reroute

show ip rsvp internal event-history fast-reroute

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
fast-reroute		Display FRR events

## Command Mode

- /exec

# show ip rsvp internal event-history hello

show ip rsvp internal event-history hello

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	internal	Display RSVP internal information
	event-history	Display event-history buffer content
	hello	Display hello events

## Command Mode

- /exec

# show ip rsvp internal event-history high-availability

show ip rsvp internal event-history high-availability

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	internal	Display RSVP internal information
	event-history	Display event-history buffer content
	high-availability	Display HA events

## Command Mode

- /exec

# show ip rsvp internal event-history interface

show ip rsvp internal event-history interface

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	internal	Display RSVP internal information
	event-history	Display event-history buffer content
	interface	Display interface events

## Command Mode

- /exec

# show ip rsvp internal event-history neighbor

show ip rsvp internal event-history neighbor

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
neighbor		Display neighbor events

## Command Mode

- /exec



# show ip rsvp internal event-history packet

show ip rsvp internal event-history packet

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	internal	Display RSVP internal information
	event-history	Display event-history buffer content
	packet	Display packet events

## Command Mode

- /exec

# show ip rsvp internal event-history path

show ip rsvp internal event-history path

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
path		Display path events

## Command Mode

- /exec

# show ip rsvp internal event-history policy

show ip rsvp internal event-history policy

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	internal	Display RSVP internal information
	event-history	Display event-history buffer content
	policy	Display policy events

## Command Mode

- /exec

# show ip rsvp internal event-history process

show ip rsvp internal event-history process

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
process		Display process events

## Command Mode

- /exec

# show ip rsvp internal event-history proxy

show ip rsvp internal event-history proxy

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
proxy		Display proxy events

## Command Mode

- /exec

# show ip rsvp internal event-history refresh

show ip rsvp internal event-history refresh

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
refresh		Display refresh events

## Command Mode

- /exec

# show ip rsvp internal event-history reliable

show ip rsvp internal event-history reliable

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
reliable		Display reliable events

## Command Mode

- /exec

# show ip rsvp internal event-history resv

show ip rsvp internal event-history resv

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
resv		Display resv events

## Command Mode

- /exec



# show ip rsvp internal event-history route

show ip rsvp internal event-history route

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
event-history	Display event-history buffer content
route	Display route events

## Command Mode

- /exec

# show ip rsvp internal event-history server

show ip rsvp internal event-history server

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
server		Display server events

## Command Mode

- /exec

# show ip rsvp internal event-history session

show ip rsvp internal event-history session

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	internal	Display RSVP internal information
	event-history	Display event-history buffer content
	session	Display session events

## Command Mode

- /exec

# show ip rsvp internal event-history signalling

show ip rsvp internal event-history signalling

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
signalling		Display signaling events

## Command Mode

- /exec

# show ip rsvp internal event-history size

show ip rsvp internal event-history size

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	internal	Display RSVP internal information
	event-history	Display event-history buffer content
	size	Display history-buffe size

## Command Mode

- /exec handle auto 291 cmd\_backend\_printing cmd

# show ip rsvp internal event-history tc

show ip rsvp internal event-history tc

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
event-history		Display event-history buffer content
tc		Display TC events

## Command Mode

- /exec

# show ip rsvp internal mem-stats

show ip rsvp internal mem-stats

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
mem-stats	Display rsvp memory-statistics

## Command Mode

- /exec

# show ip rsvp internal message-id database

show ip rsvp internal message-id database [ detail ]

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
rsvp	Display RSVP status	
internal	Display RSVP internal information	
message-id	Display message-id information	
database	Display database information	
detail	(Optional) Display detailed RSVP status	

## Command Mode

- /exec



# show ip rsvp internal performance

show ip rsvp internal performance

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
internal		Display RSVP internal information
performance		Display RSVP performance information

## Command Mode

- /exec

# show ip rsvp internal pss bundle

show ip rsvp internal pss bundle

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
pss	Display persistent store information
bundle	Display bundle information

## Command Mode

- /exec

# show ip rsvp internal pss client-batch

show ip rsvp internal pss client-batch

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	internal	Display RSVP internal information
	pss	Display persistent store information
	client-batch	Display client batch information

## Command Mode

- /exec

# show ip rsvp internal pss config

show ip rsvp internal pss config

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
pss	Display persistent store information
config	Display config info

## Command Mode

- /exec

# show ip rsvp internal pss globals

show ip rsvp internal pss globals

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
pss	Display persistent store information
globals	Display PSS information for RSVP globals

## Command Mode

- /exec

# show ip rsvp internal pss hello client neighbor

show ip rsvp internal pss hello client neighbor

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
pss	Display persistent store information
hello	Display RSVP Hello Information
client	Display Hello client instances
neighbor	Display information for Hello neighbor

## Command Mode

- /exec

# show ip rsvp internal pss hello instance

show ip rsvp internal pss hello instance

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
pss	Display persistent store information
hello	Display RSVP Hello Information
instance	Display information for Hello instances

## Command Mode

- /exec

# show ip rsvp internal pss isb

show ip rsvp internal pss isb

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
pss	Display persistent store information
isb	Display PSS information for ISB structures

## Command Mode

- /exec



# show ip rsvp internal pss lxsb

show ip rsvp internal pss lxsb

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
pss	Display persistent store information
lxsb	Display PSS information for LXSb structures

## Command Mode

- /exec

# show ip rsvp internal pss neighbor

show ip rsvp internal pss neighbor

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
rsvp	Display RSVP status	
internal	Display RSVP internal information	
pss	Display persistent store information	
neighbor	Display RSVP neighbor information	

## Command Mode

- /exec

# show ip rsvp internal pss pfc

show ip rsvp internal pss pfc

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
pss	Display persistent store information
pfc	Display PATH information

## Command Mode

- /exec

# show ip rsvp internal pss psb

show ip rsvp internal pss psb

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
pss	Display persistent store information
psb	Display PATH information

## Command Mode

- /exec

# show ip rsvp internal pss reg-clients

show ip rsvp internal pss reg-clients

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
rsvp	Display RSVP status	
internal	Display RSVP internal information	
pss	Display persistent store information	
reg-clients	Display PSS information for clients registered with RSVP	

## Command Mode

- /exec

# show ip rsvp internal pss request

show ip rsvp internal pss request

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
pss	Display persistent store information
request	Display RSVP reservations

## Command Mode

- /exec

# show ip rsvp internal pss rsb

show ip rsvp internal pss rsb

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
pss	Display persistent store information
rsb	Display RSVP reservations

## Command Mode

- /exec

# show ip rsvp internal pss sa

show ip rsvp internal pss sa

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
pss	Display persistent store information
sa	Display Security Association information

## Command Mode

- /exec



# show ip rsvp internal refresh reduction

show ip rsvp internal refresh reduction [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
internal	Display RSVP internal information
refresh	Display refresh information
reduction	Display refresh reduction parameters
detail	(Optional) Display detailed RSVP status

## Command Mode

- /exec

## show ip rsvp neighbor

```
show ip rsvp neighbor [ <nbr> ] [ detail ] [ private ] [ __readonly__ [ TABLE_nbr <key-nbr-ip> <if-name>
<rtr-id> <state> <expires> <last-ref-time> ] [ TABLE_detail <key-det-nbr-ip> <if-name> <local-rid> <rtr-id>
<state> <flags> <epoch> <expires> <ref-list-type> [ TABLE_nbr_list <list-id> <ref-list-name> <ref-list-cnt>
] <msgid-cnt> <ooo-msg-cnt> <ackdb-cnt> <rexmit-cnt> <pfc-trigger-cnt> <req-trigger-cnt> <bundle-timer>
<bundle-cnt> <last-ref-sref> <last-ref-time> <last-ref-rc> [ <auth-ena> [ <key-src> <digest> <seq-winsize>
<challenge> <lifetime> ] ] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
neighbor	Display RSVP neighbor information
<i>nbr</i>	(Optional) RSVP Neighbor address
detail	(Optional) Display detailed RSVP status
private	(Optional) Display RSVP internal information
<i>__readonly__</i>	(Optional)
TABLE_nbr	(Optional)
<i>key-nbr-ip</i>	(Optional)
<i>if-name</i>	(Optional)
<i>rtr-id</i>	(Optional)
<i>state</i>	(Optional)
<i>expires</i>	(Optional)
<i>last-ref-time</i>	(Optional)
TABLE_detail	(Optional)
<i>key-det-nbr-ip</i>	(Optional)
<i>if-name</i>	(Optional)
<i>local-rid</i>	(Optional)
<i>rtr-id</i>	(Optional)
<i>state</i>	(Optional)
<i>flags</i>	(Optional)

<i>epoch</i>	(Optional)
<i>expires</i>	(Optional)
<i>ref-list-type</i>	(Optional)
<i>msgid-cnt</i>	(Optional)
<i>ooo-msg-cnt</i>	(Optional)
<i>ackdb-cnt</i>	(Optional)
<i>rexit-cnt</i>	(Optional)
<i>pf-c-trigger-cnt</i>	(Optional)
<i>req-trigger-cnt</i>	(Optional)
<i>bundle-timer</i>	(Optional)
<i>bundle-cnt</i>	(Optional)
<i>last-ref-sref</i>	(Optional)
<i>last-ref-time</i>	(Optional)
<i>last-ref-rc</i>	(Optional)
<i>auth-ena</i>	(Optional)
<i>key-src</i>	(Optional)
<i>digest</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>challenge</i>	(Optional)
<i>lifetime</i>	(Optional)
TABLE_nbr_list	(Optional)
<i>list-id</i>	(Optional)
<i>ref-list-name</i>	(Optional)
<i>ref-list-cnt</i>	(Optional)

**Command Mode**

- /exec

## show ip rsvp reservation

```
show ip rsvp reservation [ destination <dest_addr> ] [ sender <src_addr> ] [ dst-port <dport-val> ] [ src-port
<sport-val> ] [ private ] [ detail ] [ __readonly__ [ <total-count> ] [ TABLE_resv <dest-ip> <src-ip> <prot>
<dport> <src-port> <nhop> <in-if> <style> ] [ TABLE_resv_detail <key-show-ip-rsvp-resv-det> [
TABLE_sess_info [ <unsup-type> ] [ TABLE_v4 <dest> <prot-id> <police> <dest-port> ] [ TABLE_tun_v4
<dest> <tun-id> <ext-dun-id> ] [ TABLE_tun_p2mp_ipv4 <p2mp-id> <tun-id> <ext-tun-id> ] ] [
TABLE_sender_tmpl [ <unsupported-templ-type> ] [ TABLE_type_v4 <sender> <port> ] [
TABLE_type_lsp_tun_v4 <tun-sender> <lsp-id> ] [ TABLE_type_lsp_tun_p2mp_v4 <tun_sender> <lsp-id>
<subgrp-orig> <subgrp-id> ] ] <nhop> <nhop-if> [ <ref-time> <ref-expiry> ] [ <last-ref-sref> <last-ref-time>
<last-ref-rc> ] [ <rcvd-msgid> <in-ack-db> ] [ <xmit-msgid> <rr-stage> <ack-out> ] <rsb-flags> <req-flags>
[ <label> ] <style> <resv-hndl> [ TABLE_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> ] ] ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
reservation	Display RSVP reservations
destination	(Optional) Display RESV based on a destination address
<i>dest_addr</i>	(Optional) Destination address
sender	(Optional) Display RESV based on a source address
<i>src_addr</i>	(Optional) Source address
dst-port	(Optional) Display RESV based on destination port
<i>dport-val</i>	(Optional) Destination Port value
src-port	(Optional) Display RESV based on a source port
<i>sport-val</i>	(Optional) Source port value
private	(Optional) Display RSVP internal information
detail	(Optional) Display detailed RSVP status
<i>__readonly__</i>	(Optional)

<i>total-count</i>	(Optional)
TABLE_resv	(Optional)
<i>dest-ip</i>	(Optional)
<i>dport</i>	(Optional)
<i>src-ip</i>	(Optional)
<i>src-port</i>	(Optional)
<i>prot</i>	(Optional)
<i>in-if</i>	(Optional)
<i>nhop</i>	(Optional)
<i>style</i>	(Optional)
TABLE_resv_detail	(Optional)
<i>key-show-ip-rsvp-resv-det</i>	(Optional)
<i>resv-hndl</i>	(Optional)
<i>nhop-if</i>	(Optional)
<i>nhop</i>	(Optional)
<i>rr-stage</i>	(Optional)
<i>ref-time</i>	(Optional)
<i>ref-expiry</i>	(Optional)
<i>label</i>	(Optional)
<i>proxy-status</i>	(Optional)
<i>policy-status</i>	(Optional)
<i>last-ref-time</i>	(Optional)
<i>last-ref-rc</i>	(Optional)
<i>last-ref-sref</i>	(Optional)
<i>xmit-msgid</i>	(Optional)
<i>ack-out</i>	(Optional)
<i>rcvd-msgid</i>	(Optional)
<i>style</i>	(Optional)
<i>in-ack-db</i>	(Optional)

<i>rsb-flags</i>	(Optional)
<i>req-flags</i>	(Optional)
TABLE_sess_info	(Optional)
<i>unsup-type</i>	(Optional)
TABLE_v4	(Optional)
<i>dest</i>	(Optional)
<i>prot-id</i>	(Optional)
<i>police</i>	(Optional)
<i>dest-port</i>	(Optional)
TABLE_tun_v4	(Optional)
<i>dest</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>ext-dun-id</i>	(Optional)
TABLE_tun_p2mp_ipv4	(Optional)
<i>p2mp-id</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>ext-tun-id</i>	(Optional)
TABLE_sender_tmpl	(Optional)
<i>unsupported-templ-type</i>	(Optional)
TABLE_type_v4	(Optional)
<i>sender</i>	(Optional)
<i>port</i>	(Optional)
TABLE_type_lsp_tun_v4	(Optional)
<i>tun-sender</i>	(Optional)
<i>lsp-id</i>	(Optional)
TABLE_type_lsp_tun_p2mp_v4	(Optional)
<i>tun_sender</i>	(Optional)
<i>lsp-id</i>	(Optional)
<i>subgrp-orig</i>	(Optional)

<i>subgrp-id</i>	(Optional)
TABLE_rro	(Optional)
<i>key-show-rro-start</i>	(Optional)
<i>rro-len</i>	(Optional)
TABLE_v4	(Optional)
<i>addr</i>	(Optional)
<i>rro-flags</i>	(Optional)
<i>local-prot</i>	(Optional)
<i>in-use</i>	(Optional)
<i>has-bw</i>	(Optional)
<i>to-nhop</i>	(Optional)
<i>to-nnhop</i>	(Optional)
<i>no-prot</i>	(Optional)
<i>node-id</i>	(Optional)
TABLE_label	(Optional)
<i>lbl-flags</i>	(Optional)
<i>label-ctype</i>	(Optional)
<i>label</i>	(Optional)
TABLE_unnum	(Optional)
<i>rtr-id</i>	(Optional)
<i>ifindex</i>	(Optional)
<i>flags</i>	(Optional)
TABLE_fspect	(Optional)
<i>type</i>	(Optional)
<i>len</i>	(Optional)
<i>ver</i>	(Optional)
<i>hdr-len</i>	(Optional)
TABLE_uni	(Optional)
<i>sig-type</i>	(Optional)

<i>cct</i>	(Optional)
<i>ncc</i>	(Optional)
<i>nvc</i>	(Optional)
<i>mult</i>	(Optional)
<i>trans</i>	(Optional)
TABLE_intsrv_gtd	(Optional)
<i>svc-id</i>	(Optional)
<i>svc-len</i>	(Optional)
<i>parm-id</i>	(Optional)
<i>parm-flg</i>	(Optional)
<i>parm-len</i>	(Optional)
<i>avg-rate</i>	(Optional)
<i>depth</i>	(Optional)
<i>peak-rate</i>	(Optional)
<i>min-unit</i>	(Optional)
<i>max-unit</i>	(Optional)
<i>rspec-parm-id</i>	(Optional)
<i>rspec-parm-flg</i>	(Optional)
<i>rspec-parm-len</i>	(Optional)
<i>req-rate</i>	(Optional)
<i>rspec-slack</i>	(Optional)
TABLE_intsrv_cload	(Optional)
<i>svc-id</i>	(Optional)
<i>svc-len</i>	(Optional)
<i>parm-id</i>	(Optional)
<i>parm-flg</i>	(Optional)
<i>parm-len</i>	(Optional)
<i>avg-rate</i>	(Optional)
<i>depth</i>	(Optional)



<i>peak-rate</i>	(Optional)
<i>min-unit</i>	(Optional)
<i>max-unit</i>	(Optional)
TABLE_intsrv_qual	(Optional)
<i>svc-id</i>	(Optional)
<i>svc-len</i>	(Optional)
<i>prot-flags</i>	(Optional)
<i>plr-flags</i>	(Optional)
<i>plr-filter-addr</i>	(Optional)
<i>plink-nhop-addr</i>	(Optional)
<i>mp-label</i>	(Optional)
<i>mp-filter-addr</i>	(Optional)
<i>policy-src</i>	(Optional)

**Command Mode**

- /exec

## show ip rsvp sender

```
show ip rsvp sender [ destination <dest_addr> ] [ sender <src_addr> ] [ dst-port <dport-val> ] [ src-port
<sport-val> ] [ private ] [ detail ] [ __readonly__ [ <total-count> ] [ TABLE_path <dest-ip> <src-ip> <prot>
<dport> <src-port> <phop><in-if> ] [ TABLE_path_detail <start-show-ip-rsvp-path-det> [ TABLE_sess_info
[ <unsup-type> ] [ TABLE_v4 <dest> <prot-id> <police> <dest-port> ] [ TABLE_tun_v4 <dest> <tun-id>
<ext-dun-id> ] [ TABLE_tun_p2mp_ipv4 <p2mp-id> <tun-id> <ext-tun-id> ] ] [ TABLE_sender_tmpl [
<unsupported-templ-type> ] [ TABLE_type_v4 <sender> <port> ] [ TABLE_type_lsp_tun_v4 <tun-sender>
<lsp-id> ] [ TABLE_type_lsp_tun_p2mp_v4 <tun_sender> <lsp-id> <subgrp-orig> <subgrp-id> ] ] [ <phop>
<phop-intf> <ref-time> <exp-time> ] [ <last-ref-sref> <last-ref-time> <last-ref-rc> <nhop> <nhop-intf> ] [
<rcvd-msgid> <in-ack-db> ] [ <xmit-msgid> <rr-stage> <ack-out> ] <psb-flags> <pfc-flags> [
TABLE_path_sess_in <setup-prio> <res-prio> [ <attr-flags> ] [ <prot-desired> ] [ <label-rec> ] [ <se-style>
] [ <ero-exp-req> ] [ <bw-prot-desired> ] [ <node-prot-desired> ] [ <sess-name> ] ] [ TABLE_path_sess_out
<setup-prio> <res-prio> [ <attr-flags> ] [ <prot-desired> ] [ <label-rec> ] [ <se-style> ] [ <ero-exp-req> ] [
<bw-prot-desired> ] [ <node-prot-desired> ] [ <sess-name> ] ] [ TABLE_ero <in-out> [ TABLE_ero_type
<show-sender-ero-start> [ <unk-obj-type> <unk-obj-len> ] [ TABLE_ero_ipv4 <hop> <loose-strict> <len>
<prefix-len> ] [ TABLE_ero_ipv6 <loose-strict> <len> ] [ TABLE_ero_unnum <gen-len> <rtr-id> <intf-id>
] [ TABLE_ero_as <loose-strict> <len> <as-num> ] ] ] [ TABLE_rro <key-show-rro-start> [ <rro-len> ] [
TABLE_v4 <addr> <rro-flags> [ <local-prot> ] [ <in-use> ] [ <has-bw> ] [ <to-nnhop> ] [ <to-nhop> ] [
<no-prot> ] [ <node-id> ] ] [ TABLE_label <lbl-flags> <label-ctype> <label> ] [ TABLE_unnum <rtr-id>
<ifindex> <flags> ] ] <class-type> [ TABLE_tspec <type> <obj_len> <version> <total_len> [
TABLE_uni_tspec <len> <sig-type> <cct> <ncc> <nvc> <mult> <trans> ] [ TABLE_intsrv <serv-id>
<serv-len> <param-id> <flags> <param-len> <avg-rate> <avg-depth> <peak-rate> <min-unit> <max-unit>
] ] [ <ds-flag> ] [ [ <plr-flag> ] <backup-ifname> [ <plr-template> <orig-ero-mp> ] [ <backup-phys-if> ] ] [
<mp-template> <orig-in-if> ] <path-hndl> <policy-state> [ <policy-src> ] [ <proxy-state> ] [ TABLE_psb_pfc
<pfc-output-intf> <pfc-policy-status> <pfc-policy-handle> [ <pfc-policy-query-state> ] ] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
sender	Display PATH information
destination	(Optional) Display PATH based on a destination address
<i>dest_addr</i>	(Optional) Destination address
sender	(Optional) Display PATH based on a source address
<i>src_addr</i>	(Optional) Source address
dst-port	(Optional) Display PATH based on destination port
<i>dport-val</i>	(Optional) Destination Port value
src-port	(Optional) Display PATH based on a source port
<i>sport-val</i>	(Optional) Source port value

<i>private</i>	(Optional) Display RSVP internal information
<i>detail</i>	(Optional) Display detailed RSVP status
<i>__readonly__</i>	(Optional)
<i>total-count</i>	(Optional)
<i>TABLE_path</i>	(Optional)
<i>dest-ip</i>	(Optional)
<i>dport</i>	(Optional)
<i>src-ip</i>	(Optional)
<i>src-port</i>	(Optional)
<i>prot</i>	(Optional)
<i>phop</i>	(Optional)
<i>TABLE_path_detail</i>	(Optional)
<i>start-show-ip-rsvp-path-det</i>	(Optional)
<i>phop-intf</i>	(Optional)
<i>ref-time</i>	(Optional)
<i>exp-time</i>	(Optional)
<i>nhop</i>	(Optional)
<i>nhop-intf</i>	(Optional)
<i>class-type</i>	(Optional)
<i>path-hndl</i>	(Optional)
<i>policy-state</i>	(Optional)
<i>policy-src</i>	(Optional)
<i>proxy-state</i>	(Optional)
<i>last-ref-time</i>	(Optional)
<i>last-ref-rc</i>	(Optional)
<i>last-ref-sref</i>	(Optional)
<i>rr-stage</i>	(Optional)
<i>xmit-msgid</i>	(Optional)
<i>ack-out</i>	(Optional)

<i>rcvd-msgid</i>	(Optional)
<i>in-ack-db</i>	(Optional)
<i>psb-flags</i>	(Optional)
<i>pfc-flags</i>	(Optional)
<i>ds-flag</i>	(Optional)
<i>plr-flag</i>	(Optional)
<i>backup-ifname</i>	(Optional)
<i>plr-template</i>	(Optional)
<i>orig-ero-mp</i>	(Optional)
<i>backup-phys-if</i>	(Optional)
<i>mp-template</i>	(Optional)
<i>orig-in-if</i>	(Optional)
TABLE_path_sess_in	(Optional)
<i>setup-prio</i>	(Optional)
<i>res-prio</i>	(Optional)
<i>attr-flags</i>	(Optional)
<i>prot-desired</i>	(Optional)
<i>label-rec</i>	(Optional)
<i>se-style</i>	(Optional)
<i>ero-exp-req</i>	(Optional)
<i>bw-prot-desired</i>	(Optional)
<i>node-prot-desired</i>	(Optional)
<i>sess-name</i>	(Optional)
TABLE_path_sess_out	(Optional)
<i>setup-prio</i>	(Optional)
<i>res-prio</i>	(Optional)
<i>attr-flags</i>	(Optional)
<i>prot-desired</i>	(Optional)
<i>label-rec</i>	(Optional)

<i>se-style</i>	(Optional)
<i>ero-exp-req</i>	(Optional)
<i>bw-prot-desired</i>	(Optional)
<i>node-prot-desired</i>	(Optional)
<i>sess-name</i>	(Optional)
TABLE_sess_info	(Optional)
<i>unsup-type</i>	(Optional)
TABLE_v4	(Optional)
<i>dest</i>	(Optional)
<i>prot-id</i>	(Optional)
<i>police</i>	(Optional)
<i>dest-port</i>	(Optional)
TABLE_tun_v4	(Optional)
<i>dest</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>ext-dun-id</i>	(Optional)
TABLE_tun_p2mp_ipv4	(Optional)
<i>p2mp-id</i>	(Optional)
<i>tun-id</i>	(Optional)
<i>ext-tun-id</i>	(Optional)
TABLE_sender_tmpl	(Optional)
<i>unsupported-templ-type</i>	(Optional)
TABLE_type_v4	(Optional)
<i>sender</i>	(Optional)
<i>port</i>	(Optional)
TABLE_type_lsp_tun_v4	(Optional)
<i>tun-sender</i>	(Optional)
<i>lsp-id</i>	(Optional)
TABLE_type_lsp_tun_p2mp_v4	(Optional)

<i>tun_sender</i>	(Optional)
<i>lsp-id</i>	(Optional)
<i>subgrp-orig</i>	(Optional)
<i>subgrp-id</i>	(Optional)
TABLE_ero	(Optional)
<i>in-out</i>	(Optional)
TABLE_ero_type	(Optional)
<i>show-sender-ero-start</i>	(Optional)
<i>unk-obj-type</i>	(Optional)
<i>unk-obj-len</i>	(Optional)
TABLE_ero_ipv4	(Optional)
<i>hop</i>	(Optional)
<i>loose-strict</i>	(Optional)
<i>len</i>	(Optional)
<i>prefix-len</i>	(Optional)
TABLE_ero_ipv6	(Optional)
<i>loose-strict</i>	(Optional)
<i>len</i>	(Optional)
TABLE_ero_unnum	(Optional)
<i>gen-len</i>	(Optional)
<i>rtr-id</i>	(Optional)
<i>intf-id</i>	(Optional)
TABLE_ero_as	(Optional)
<i>loose-strict</i>	(Optional)
<i>len</i>	(Optional)
<i>as-num</i>	(Optional)
TABLE_rro	(Optional)
<i>key-show-rro-start</i>	(Optional)
<i>rro-len</i>	(Optional)

<i>TABLE_v4</i>	(Optional)
<i>addr</i>	(Optional)
<i>rro-flags</i>	(Optional)
<i>local-prot</i>	(Optional)
<i>in-use</i>	(Optional)
<i>has-bw</i>	(Optional)
<i>to-nhop</i>	(Optional)
<i>to-nnhop</i>	(Optional)
<i>no-prot</i>	(Optional)
<i>node-id</i>	(Optional)
<i>TABLE_label</i>	(Optional)
<i>lbl-flags</i>	(Optional)
<i>label-ctype</i>	(Optional)
<i>label</i>	(Optional)
<i>TABLE_unnum</i>	(Optional)
<i>rtr-id</i>	(Optional)
<i>ifindex</i>	(Optional)
<i>flags</i>	(Optional)
<i>TABLE_tspec</i>	(Optional)
<i>type</i>	(Optional)
<i>obj_len</i>	(Optional)
<i>version</i>	(Optional)
<i>total_len</i>	(Optional)
<i>TABLE_uni_tspec</i>	(Optional)
<i>sig-type</i>	(Optional)
<i>cct</i>	(Optional)
<i>ncc</i>	(Optional)
<i>nvc</i>	(Optional)
<i>mult</i>	(Optional)

<i>trans</i>	(Optional)
TABLE_intsrv	(Optional)
<i>serv-id</i>	(Optional)
<i>serv-len</i>	(Optional)
<i>param-id</i>	(Optional)
<i>flags</i>	(Optional)
<i>param-len</i>	(Optional)
<i>avg-rate</i>	(Optional)
<i>avg-depth</i>	(Optional)
<i>peak-rate</i>	(Optional)
<i>min-unit</i>	(Optional)
<i>max-unit</i>	(Optional)
TABLE_psb_pfc	(Optional)
<i>pfc-output-intf</i>	(Optional)
<i>pfc-policy-status</i>	(Optional)
<i>pfc-policy-handle</i>	(Optional)
<i>pfc-policy-query-state</i>	(Optional)

### Command Mode

- /exec



# show ip rsvp session

```
show ip rsvp session [ destination <dest_addr> ] [ __readonly__ <total-count> TABLE_session <type>
<dest-ip> <dport> <tunnel-id> <psb-cnt> <rsb-cnt> <reqs> <pxbs> <rxbs> ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
rsvp	Display RSVP status	
session	Display RSVP Session information	
destination	(Optional) Display Sessions based on a destination address	
<i>dest_addr</i>	(Optional) Destination address	
<i>__readonly__</i>	(Optional)	
<i>total-count</i>	(Optional)	
TABLE_session	(Optional)	
<i>type</i>	(Optional)	
<i>dest-ip</i>	(Optional)	
<i>dport</i>	(Optional)	
<i>tunnel-id</i>	(Optional)	
<i>psb-cnt</i>	(Optional)	
<i>rsb-cnt</i>	(Optional)	
<i>reqs</i>	(Optional)	
<i>pxbs</i>	(Optional)	
<i>rxbs</i>	(Optional)	

## Command Mode

- /exec

# show ip rsvp signalling rate-limit

```
show ip rsvp signalling rate-limit [ __readonly__ TABLE_counters <rlim-ena> <limit> <intvl> ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	signalling	Display signalling informaion
	rate-limit	Display rate limit parameters
	<i>__readonly__</i>	(Optional)
	<i>TABLE_counters</i>	(Optional)
	<i>rlim-ena</i>	(Optional)
	<i>limit</i>	(Optional)
	<i>intvl</i>	(Optional)

## Command Mode

- /exec

# show ip rsvp signalling refresh interval

show ip rsvp signalling refresh interval [ *\_\_readonly\_\_* *TABLE\_counters* <interval> ]

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	signalling	Display signalling informaion
	refresh	Display refresh information
	interval	Display interval for refresh messages
	<i>__readonly__</i>	(Optional)
	<i>TABLE_counters</i>	(Optional)
	<i>interval</i>	(Optional)

## Command Mode

- /exec

# show ip rsvp signalling refresh misses

show ip rsvp signalling refresh misses [ *\_\_readonly\_\_* *TABLE\_counters* *<misses>* ]

## Syntax Description

Syntax Description		
	show	Show running system information
	ip	Display IP information
	rsvp	Display RSVP status
	signalling	Display signalling informaion
	refresh	Display refresh information
	misses	Display misses required to trigger state timeout
	<i>__readonly__</i>	(Optional)
	<i>TABLE_counters</i>	(Optional)
	<i>misses</i>	(Optional)

## Command Mode

- /exec

## show ip rsvp signalling refresh reduction

```
show ip rsvp signalling refresh reduction [ __readonly__ TABLE_counters <rr-ena> <ackdelay> <ackdelay>
<epoch> [ <msgid-inuse> <msgid-alloc> <msgid-free> ] ]
```

### Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
signalling		Display signalling informaion
refresh		Display refresh information
reduction		Display refresh reduction parameters
<i>__readonly__</i>	(Optional)	
<i>TABLE_counters</i>	(Optional)	
<i>rr-ena</i>	(Optional)	
<i>ackdelay</i>	(Optional)	
<i>epoch</i>	(Optional)	
<i>msgid-inuse</i>	(Optional)	
<i>msgid-alloc</i>	(Optional)	
<i>msgid-free</i>	(Optional)	

### Command Mode

- /exec

# show ip sla application

```
show ip sla application [ __readonly__ <version> <line-length> <type-name> <feature-name>
<lowmemorymark> <max-entries> <probe-cap> <entries-config> <entries-active> <entries-pending>
<entries-inactive> <last-change-time> <rttMonApplTimeOfLastSet> <rttMonApplReset> ]
```

## Syntax Description

### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
application	IP SLAs Application
<i>__readonly__</i>	(Optional)
<i>version</i>	(Optional)
<i>line-length</i>	(Optional)
<i>type-name</i>	(Optional)
<i>entries-config</i>	(Optional)
<i>entries-active</i>	(Optional)
<i>entries-pending</i>	(Optional)
<i>entries-inactive</i>	(Optional)
<i>last-change-time</i>	(Optional)
<i>rttMonApplTimeOfLastSet</i>	(Optional)
<i>rttMonApplReset</i>	(Optional) Appl Reset
<i>feature-name</i>	(Optional)
<i>lowmemorymark</i>	(Optional)
<i>max-entries</i>	(Optional)
<i>probe-cap</i>	(Optional)

## Command Mode

- /exec

## show ip sla configuration

```
show ip sla configuration [ <entry-num> ] [ __readonly__ { TABLE_oper <index> <oper-type> <owner>
<tag> <threshold> <timeout> <dest-ip> <source-ip> <dest-port> <source-port> <dns-source-port>
<dns-name-server> <traffic-class> <flow-label> <tos> <vrf-name> <source-int> } { TABLE_control
<control-enabled> } { TABLE_udpecho <packet-size> <verify-data> <data-pattern> } { TABLE_icmpecho
<packet-size> <verify-data> } { TABLE_dns } { TABLE_fabricpath <profile-id> <switch-id> <interface>
} { TABLE_udpjitter <packet-size> <packet-interval> <num-packets> <codec-type> <codec-num-packets>
<codec-packet-size> <codec-packet-interval> <codec-adv-factor> <verify-data> <packet-priority>
<ntp-sync-tolerance> <ntp-sync-toctype> } { TABLE_schedule <frequency> <secondary-freq-timeout>
<secondary-freq-loss> <next-start-time> <group-scheduled> <randomly-scheduled> <low-frequency>
<high-frequency> <life> <ageout> <recurring> <status-of-entry> } { TABLE_diststats <hours> <buckets>
<precision> <interval> } { TABLE_enhhistory <interval> <ebuckets> } { TABLE_history-stats <lives>
<hsbuckets> <filter> } ]
```

### Syntax Description

#### Syntax Description

<i>__readonly__</i>	(Optional)
<i>index</i>	(Optional)
TABLE_oper	(Optional) Show operation information
<i>owner</i>	(Optional)
<i>tag</i>	(Optional)
<i>threshold</i>	(Optional)
<i>timeout</i>	(Optional)
<i>oper-type</i>	(Optional)
<i>dest-ip</i>	(Optional)
<i>source-ip</i>	(Optional)
<i>dest-port</i>	(Optional)
<i>source-port</i>	(Optional)
<i>dns-source-port</i>	(Optional)
<i>traffic-class</i>	(Optional)
<i>flow-label</i>	(Optional)
<i>tos</i>	(Optional)
<i>vrf-name</i>	(Optional)
<i>source-int</i>	(Optional)
<i>dns-name-server</i>	(Optional)

TABLE_control	(Optional) Show control information
<i>control-enabled</i>	(Optional)
TABLE_udpecho	(Optional) Show UDP echo information
<i>data-pattern</i>	(Optional)
TABLE_icmpecho	(Optional) Show ICMP echo information
TABLE_dns	(Optional) Show DNS information
TABLE_fabricpath	(Optional) Show FABRIC PATH echo information
<i>profile-id</i>	(Optional)
<i>switch-id</i>	(Optional)
<i>interface</i>	(Optional)
TABLE_udpjitter	(Optional) Show UDP jitter information
<i>packet-size</i>	(Optional)
<i>packet-interval</i>	(Optional)
<i>num-packets</i>	(Optional)
<i>codec-type</i>	(Optional)
<i>codec-num-packets</i>	(Optional)
<i>codec-packet-size</i>	(Optional)
<i>codec-packet-interval</i>	(Optional)
<i>codec-adv-factor</i>	(Optional)
<i>verify-data</i>	(Optional)
<i>packet-priority</i>	(Optional)
<i>ntp-sync-tolerance</i>	(Optional)
<i>ntp-sync-toctype</i>	(Optional)
TABLE_schedule	(Optional) Show schedule information
<i>frequency</i>	(Optional)
<i>secondary-freq-timeout</i>	(Optional)
<i>secondary-freq-loss</i>	(Optional)
<i>next-start-time</i>	(Optional)
<i>group-scheduled</i>	(Optional)



<i>randomly-scheduled</i>	(Optional)
<i>low-frequency</i>	(Optional)
<i>high-frequency</i>	(Optional)
<i>life</i>	(Optional)
<i>ageout</i>	(Optional)
<i>recurring</i>	(Optional)
<i>status-of-entry</i>	(Optional)
TABLE_diststats	(Optional) Show distribution of statistics information
<i>hours</i>	(Optional)
<i>buckets</i>	(Optional)
<i>precision</i>	(Optional)
<i>interval</i>	(Optional)
TABLE_enhhistory	(Optional) Show enhanced history information
<i>einterval</i>	(Optional)
<i>ebuckets</i>	(Optional)
TABLE_history-stats	(Optional) Show history statistics information
<i>lives</i>	(Optional)
<i>hsbuckets</i>	(Optional)
<i>filter</i>	(Optional)
show	
ip	
sla	Service Level Agreement (SLA)
configuration	IP SLAs Configuration
<i>entry-num</i>	(Optional) Entry Number

### Command Mode

- /exec

# show ip sla enhanced-history collection-statistics

```
show ip sla enhanced-history collection-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ <index> { TABLE_generic <outstring> } ]
```

## Syntax Description

Syntax Description	
show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
collection-statistics	IP SLAs Collection Statistics
<i>operation-number</i>	(Optional) Entry Number
interval	(Optional) Aggregation Interval
<i>interval-in-secs</i>	(Optional) Interval in seconds
<i>__readonly__</i>	(Optional)
<i>index</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>outstring</i>	(Optional)

## Command Mode

- /exec

## show ip sla enhanced-history distribution-statistics

```
show ip sla enhanced-history distribution-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ <index> { TABLE_generic <outstring> } ]
```

### Syntax Description

#### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
distribution-statistics	IP SLAs Distribution Statistics
<i>operation-number</i>	(Optional) Entry Number
interval	(Optional) Aggregation Interval
<i>interval-in-secs</i>	(Optional) Interval in seconds
<i>__readonly__</i>	(Optional)
<i>index</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>outstring</i>	(Optional)

### Command Mode

- /exec

# show ip sla group schedule

```
show ip sla group schedule [ <group-operation-number> ] [ __readonly__ <entry-number> <probe-list>
<num-probes> <sched-period> <mode> <low-freq> <high-freq> <freq> <snmp-status> <next-start-time>
<life> <ageout> ]
```

## Syntax Description

### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
group	IP SLAs Group Scheduling/Configuration
schedule	Group Scheduling
<i>group-operation-number</i>	(Optional) Group Schedule Entry Number
<i>__readonly__</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>probe-list</i>	(Optional)
<i>num-probes</i>	(Optional)
<i>sched-period</i>	(Optional)
<i>mode</i>	(Optional)
<i>low-freq</i>	(Optional)
<i>high-freq</i>	(Optional)
<i>freq</i>	(Optional)
<i>snmp-status</i>	(Optional)
<i>next-start-time</i>	(Optional)
<i>life</i>	(Optional)
<i>ageout</i>	(Optional)

## Command Mode

- /exec

# show ip sla history

```
show ip sla history [ <operation-number> ] [ tabular | full | interval-statistics ] [ __readonly__ <index> {
TABLE_generic <outstring> } ]
```

## Syntax Description

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
__readonly__	(Optional)
<i>index</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>outstring</i>	(Optional)

## Command Mode

- /exec

## show ip sla reaction-configuration

```
show ip sla reaction-configuration [ <entry-num> ] [ __readonly__ <entry-number> <index> <reaction>
<threshold-type> <rising-value> <falling-value> <threshold-countX> <threshold-countY> <action-type>
<unconfigured> ]
```

### Syntax Description

#### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-configuration	IP SLAs Reaction Configuration
<i>entry-num</i>	(Optional) Entry Number
<i>__readonly__</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>index</i>	(Optional)
<i>reaction</i>	(Optional)
<i>threshold-type</i>	(Optional)
<i>rising-value</i>	(Optional)
<i>falling-value</i>	(Optional)
<i>threshold-countX</i>	(Optional)
<i>threshold-countY</i>	(Optional)
<i>action-type</i>	(Optional)
<i>unconfigured</i>	(Optional)

### Command Mode

- /exec

# show ip sla reaction-trigger

```
show ip sla reaction-trigger [ <entry-num> ] [ __readonly__ <entry-number> <target-entry> <snmp-status>
<operational-state> <unconfigured> ]
```

## Syntax Description

Syntax Description	
show	
ip	
sla	Service Level Agreement (SLA)
reaction-trigger	IP SLAs Reaction Trigger
<i>entry-num</i>	(Optional) Entry Number
<i>__readonly__</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>target-entry</i>	(Optional)
<i>snmp-status</i>	(Optional)
<i>operational-state</i>	(Optional)
<i>unconfigured</i>	(Optional)

## Command Mode

- /exec

## show ip sla responder

```
show ip sla responder [ __readonly__ <gen-enabled> <rttMonApplResponder> <perm-enabled>
<ctrl-msg-count> <errors> { TABLE_recent <print-recent-hdr> <print-recent-err-hdr> <recent-addr>
<recent-time> <recent-error> } { TABLE_permanent <print-tcp-hdr> <print-udp-hdr> <address> <port> } ]
```

### Syntax Description

#### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
responder	IP SLAs Responder Information
<i>__readonly__</i>	(Optional)
<i>gen-enabled</i>	(Optional)
<i>rttMonApplResponder</i>	(Optional) rttMonApplResponder
<i>perm-enabled</i>	(Optional)
<i>ctrl-msg-count</i>	(Optional)
<i>errors</i>	(Optional)
TABLE_recent	(Optional) Show recent control message information
<i>print-recent-hdr</i>	(Optional)
<i>print-recent-err-hdr</i>	(Optional)
<i>recent-addr</i>	(Optional)
<i>recent-time</i>	(Optional)
<i>recent-error</i>	(Optional)
TABLE_permanent	(Optional) Show permanent port/address information
<i>print-tcp-hdr</i>	(Optional)
<i>print-udp-hdr</i>	(Optional)
<i>address</i>	(Optional)
<i>port</i>	(Optional)

### Command Mode

- /exec



# show ip sla statistics

```
show ip sla statistics [ aggregated ] [ <entry-num> ] [ details ] [ __readonly__ <index> { TABLE_common
<update-count> <latest-RTT> <latest-start-time> <latest-return-code> <micro-accuracy> <nano-accuracy>
} { TABLE_schedule <life-left> <oper-state> <reset-time> } { TABLE_jitter <operation-type> <ntp-sync-state>
<rtt-count> <rtt-min> <rtt-avg> <rtt-max> <lat-ow-samples> <sd-lat-sum> <sd-lat-sum2> <sd-lat-ow-min>
<sd-lat-ow-avg> <sd-lat-ow-max> <ds-lat-sum> <ds-lat-sum2> <ds-lat-ow-min> <ds-lat-ow-avg>
<ds-lat-ow-max> <sd-jitter-count> <ds-jitter-count> <sd-jitter-min> <sd-jitter-avg> <sd-jitter-max>
<sd-pos-jitter-min> <sd-pos-jitter-avg> <sd-pos-jitter-max> <sd-pos-jitter-num> <sd-pos-jitter-sum>
<sd-pos-jitter-sum2> <sd-neg-jitter-min> <sd-neg-jitter-avg> <sd-neg-jitter-max> <sd-neg-jitter-num>
<sd-neg-jitter-sum> <sd-neg-jitter-sum2> <ds-jitter-min> <ds-jitter-avg> <ds-jitter-max> <ds-pos-jitter-min>
<ds-pos-jitter-avg> <ds-pos-jitter-max> <ds-pos-jitter-num> <ds-pos-jitter-sum> <ds-pos-jitter-sum2>
<ds-neg-jitter-min> <ds-neg-jitter-avg> <ds-neg-jitter-max> <ds-neg-jitter-num> <ds-neg-jitter-sum>
<ds-neg-jitter-sum2> <pkt-unprocessed> <pkt-loss> <pkt-loss-per> <pkt-loss-min> <pkt-loss-max>
<pkt-loss-inter-min> <pkt-loss-inter-max> <pkt-loss-sd> <pkt-loss-sd-per> <pkt-loss-sd-min>
<pkt-loss-sd-max> <pkt-loss-sd-inter-min> <pkt-loss-sd-inter-max> <pkt-loss-ds> <pkt-loss-ds-per>
<pkt-loss-ds-min> <pkt-loss-ds-max> <pkt-loss-ds-inter-min> <pkt-loss-ds-inter-max> <pkt-oos> <pkt-oos-sd>
<pkt-oos-ds> <pkt-oos-both> <pkt-mia> <pkt-late> <pkt-skipped> <voice-icpif> <voice-mos> <inter-jitter-out>
<inter-jitter-in> <jitter-avg> } { TABLE_aggdetails <outstring> } <print_type> ]
```

## Syntax Description

### Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
statistics	IP SLAs Statistics
<i>entry-num</i>	(Optional) Entry Number
details	(Optional) Detailed Output
aggregated	(Optional) IP SLAs Statistics Aggregated
<i>__readonly__</i>	(Optional)
<i>index</i>	(Optional)
TABLE_common	(Optional) Show common statistics information
<i>update-count</i>	(Optional)
<i>latest-RTT</i>	(Optional)
<i>latest-start-time</i>	(Optional)
<i>latest-return-code</i>	(Optional)
<i>micro-accuracy</i>	(Optional)
<i>nano-accuracy</i>	(Optional)

TABLE_schedule	(Optional) Show schedule statistics information
<i>life-left</i>	(Optional)
<i>oper-state</i>	(Optional)
<i>reset-time</i>	(Optional)
TABLE_jitter	(Optional) Show jitter statistics information
<i>operation-type</i>	(Optional)
<i>ntp-sync-state</i>	(Optional)
<i>rtt-count</i>	(Optional)
<i>rtt-min</i>	(Optional)
<i>rtt-avg</i>	(Optional)
<i>rtt-max</i>	(Optional)
<i>lat-ow-samples</i>	(Optional)
<i>sd-lat-sum</i>	(Optional)
<i>sd-lat-sum2</i>	(Optional)
<i>sd-lat-ow-min</i>	(Optional)
<i>sd-lat-ow-avg</i>	(Optional)
<i>sd-lat-ow-max</i>	(Optional)
<i>ds-lat-sum</i>	(Optional)
<i>ds-lat-sum2</i>	(Optional)
<i>ds-lat-ow-min</i>	(Optional)
<i>ds-lat-ow-avg</i>	(Optional)
<i>ds-lat-ow-max</i>	(Optional)
<i>sd-jitter-count</i>	(Optional)
<i>ds-jitter-count</i>	(Optional)
<i>sd-jitter-min</i>	(Optional)
<i>sd-jitter-avg</i>	(Optional)
<i>sd-jitter-max</i>	(Optional)
<i>sd-pos-jitter-min</i>	(Optional)
<i>sd-pos-jitter-avg</i>	(Optional)

<i>sd-pos-jitter-max</i>	(Optional)
<i>sd-pos-jitter-num</i>	(Optional)
<i>sd-pos-jitter-sum</i>	(Optional)
<i>sd-pos-jitter-sum2</i>	(Optional)
<i>sd-neg-jitter-min</i>	(Optional)
<i>sd-neg-jitter-avg</i>	(Optional)
<i>sd-neg-jitter-max</i>	(Optional)
<i>sd-neg-jitter-num</i>	(Optional)
<i>sd-neg-jitter-sum</i>	(Optional)
<i>sd-neg-jitter-sum2</i>	(Optional)
<i>ds-jitter-min</i>	(Optional)
<i>ds-jitter-avg</i>	(Optional)
<i>ds-jitter-max</i>	(Optional)
<i>ds-pos-jitter-min</i>	(Optional)
<i>ds-pos-jitter-avg</i>	(Optional)
<i>ds-pos-jitter-max</i>	(Optional)
<i>ds-pos-jitter-num</i>	(Optional)
<i>ds-pos-jitter-sum</i>	(Optional)
<i>ds-pos-jitter-sum2</i>	(Optional)
<i>ds-neg-jitter-min</i>	(Optional)
<i>ds-neg-jitter-avg</i>	(Optional)
<i>ds-neg-jitter-max</i>	(Optional)
<i>ds-neg-jitter-num</i>	(Optional)
<i>ds-neg-jitter-sum</i>	(Optional)
<i>ds-neg-jitter-sum2</i>	(Optional)
<i>pkt-unprocessed</i>	(Optional)
<i>pkt-loss</i>	(Optional)
<i>pkt-loss-per</i>	(Optional)
<i>pkt-loss-min</i>	(Optional)

<i>pkt-loss-max</i>	(Optional)
<i>pkt-loss-inter-min</i>	(Optional)
<i>pkt-loss-inter-max</i>	(Optional)
<i>pkt-loss-sd</i>	(Optional)
<i>pkt-loss-sd-per</i>	(Optional)
<i>pkt-loss-sd-min</i>	(Optional)
<i>pkt-loss-sd-max</i>	(Optional)
<i>pkt-loss-sd-inter-min</i>	(Optional)
<i>pkt-loss-sd-inter-max</i>	(Optional)
<i>pkt-loss-ds</i>	(Optional)
<i>pkt-loss-ds-per</i>	(Optional)
<i>pkt-loss-ds-min</i>	(Optional)
<i>pkt-loss-ds-max</i>	(Optional)
<i>pkt-loss-ds-inter-min</i>	(Optional)
<i>pkt-loss-ds-inter-max</i>	(Optional)
<i>pkt-oos</i>	(Optional)
<i>pkt-oos-sd</i>	(Optional)
<i>pkt-oos-ds</i>	(Optional)
<i>pkt-oos-both</i>	(Optional)
<i>pkt-mia</i>	(Optional)
<i>pkt-late</i>	(Optional)
<i>pkt-skipped</i>	(Optional)
<i>voice-icpif</i>	(Optional)
<i>voice-mos</i>	(Optional)
<i>inter-jitter-out</i>	(Optional)
<i>inter-jitter-in</i>	(Optional)
<i>jitter-avg</i>	(Optional)
TABLE_aggdetails	(Optional) Show aggregated statistics information
<i>outstring</i>	(Optional)

---

*print\_type* (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

### 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

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

Syntax Description	show	Show running system information
	ip	Display IP information
	static-route	Display configured static routes
	multicast	(Optional) Display only multicast routes
	internal	(Optional) Display internal data structure info
	track-table	(Optional) Display track object details associated with static routes
	vrf	(Optional) Display per-VRF information
	all	(Optional) Display all VRFs
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	<i>__readonly__</i>	(Optional)
	TABLE_vrf_all	(Optional)
	<i>cntxt_name</i>	(Optional)
	<i>cntxt_id</i>	(Optional)
	TABLE_each_vrf	(Optional)
	<i>prefix_addr_msk</i>	(Optional)
	<i>nhop_addr_msk</i>	(Optional)
	<i>nhop_vrf_info</i>	(Optional)
	<i>nhop_intr_info</i>	(Optional)
	<i>urib_stat</i>	(Optional)
	<i>seg_id</i>	(Optional)
	<i>tunnel_id</i>	(Optional)



<i>urib_encap_type</i>	(Optional)
<i>nhop_urib_stat</i>	(Optional)
<i>track_obj_num</i>	(Optional)
<i>track_obj_state</i>	(Optional)
TABLE_multicast	(Optional)
<i>multicast</i>	(Optional)
TABLE_track-table	(Optional)
TABLE_route	(Optional)
<i>prefix</i>	(Optional)
<i>masklen</i>	(Optional)
<i>nhop</i>	(Optional)
<i>nhop-masklen</i>	(Optional)
<i>intf</i>	(Optional)
<i>real-nhop</i>	(Optional)
<i>iod</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>unres</i>	(Optional)
<i>count</i>	(Optional)
<i>unres-count</i>	(Optional)

**Command Mode**

- /exec

# show ip stats

show ip stats

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

ip Display IP information

---

stats Display IP internal stats

---

## Command Mode

- /exec

# show ip telnet source-interface

```
show ip telnet source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ {
TABLE iptelnetvrf <vrfname> <ifname> } ] ]
```

## Syntax Description

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

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

Syntax Description		
show	Show running system information	
ip	Display IP information	
tftp	Display TFTP client information	
source-interface	Display source interface information	
vrf	(Optional) Display per-VRF information	
<i>vrf-name</i>	(Optional) VRF name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
<i>__readonly__</i>	(Optional)	
TABLE_ipftpvrf	(Optional) source interface of tftp given vrf	
<i>vrfname</i>	(Optional) vrfname	
<i>ifname</i>	(Optional) ifname	

## Command Mode

- /exec

## show ip tftp source-interface vrf all

```
show ip tftp source-interface vrf all [ __readonly__ [ { TABLE_iptftp <vrfname> <ifname> } ] ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
tftp	Display TFTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iptftp	(Optional) source interface of tftp
vrfname	(Optional) vrfname
ifname	(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

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

Syntax Description		
show		Show running system information
ip		Display IP information
traceroute		Display traceroute client information
source-interface		Display source interface information
vrf		Display per-VRF information
all		Display entries for all vrfs
__readonly__		(Optional)
TABLE_iptraceroute		(Optional) source interface of traceroute
<i>vrfname</i>		(Optional) vrfname
<i>ifname</i>		(Optional) ifname

### Command Mode

- /exec



# show ip traffic

```
show ip traffic [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf-name-out>
TABLE_ip_traffic <rcvd> <sent> <consumed> <fwd-ucast> <fwd-mcast> <fwd-label> <opts-end> <opts-nop>
<opts-bsec> <opts-loosesrc-route> <opts-timestamp> <opts-esec> <opts-record-route> <opts-ump> <opts-stid>
<opts-strsrc-route> <opts-alert> <opts-cipso> <opts-other> <bad-csum> <too-small> <bad-ver> <bad-hlen>
<bad-len> <bad-dest> <bad-ttl> <cant-fwd> <out-drop> <bad-encap> <no-route> <no-proto> <bad-options>
<frag> <fragmented> <out-frag> <frag-drop> <cant-frag> <reasm> <frag-to> <tx-redir> <tx-unreach>
<tx-echo-req> <tx-echo-reply> <tx-mask-req> <tx-mask-rep> <tx-info-req> <tx-info-reply> <tx-param-prob>
<tx-source-quench> <tx-tstamp-req> <tx-tstamp-reply> <tx-time-exceeded> <tx-router-solicit>
<tx-router-advert> <rx-redir> <rx-unreach> <rx-echo-req> <rx-echo-reply> <rx-mask-req> <rx-mask-rep>
<rx-info-req> <rx-info-reply> <rx-param-prob> <rx-source-quench> <rx-tstamp-req> <rx-tstamp-reply>
<rx-time-exceeded> <rx-router-solicit> <rx-router-advert> <rx-format-errors> <rx-csum-errors> <inrcv>
<inocet> <inhdrrr> <innoroutes> <inaddrerr> <innoproto> <intruncated> <inforw> <reasmoks> <reasmfails>
<reasmreqds> <indiscards> <indelivers> <outnoroutes> <outrqsts> <outforw> <outdiscards> <outfragreqds>
<outfragoks> <outfragfails> <outfragcreates> <outtxmts> <outocet> <inmcastpkts> <inmcastoctets>
<outmcastpkts> <outmcastoctets> <inbcastpkts> <outbcastpkts> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ip	Display IP information
traffic	Display IP software processed traffic statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>TABLE_ip_traffic</i>	(Optional)
<i>rcvd</i>	(Optional)
<i>sent</i>	(Optional)
<i>consumed</i>	(Optional)
<i>fwd-ucast</i>	(Optional)
<i>fwd-mcast</i>	(Optional)
<i>fwd-label</i>	(Optional)
<i>opts-end</i>	(Optional)

<i>opts-nop</i>	(Optional)
<i>opts-bsec</i>	(Optional)
<i>opts-loosesrc-route</i>	(Optional)
<i>opts-timestamp</i>	(Optional)
<i>opts-eseq</i>	(Optional)
<i>opts-record-route</i>	(Optional)
<i>opts-ump</i>	(Optional)
<i>opts-stid</i>	(Optional)
<i>opts-strsrc-route</i>	(Optional)
<i>opts-alert</i>	(Optional)
<i>opts-cipso</i>	(Optional)
<i>opts-other</i>	(Optional)
<i>bad-csum</i>	(Optional)
<i>too-small</i>	(Optional)
<i>bad-ver</i>	(Optional)
<i>bad-hlen</i>	(Optional)
<i>bad-len</i>	(Optional)
<i>bad-dest</i>	(Optional)
<i>bad-ttl</i>	(Optional)
<i>cant-fwd</i>	(Optional)
<i>out-drop</i>	(Optional)
<i>bad-encap</i>	(Optional)
<i>no-route</i>	(Optional)
<i>no-proto</i>	(Optional)
<i>bad-options</i>	(Optional)
<i>frag</i>	(Optional)
<i>fragmented</i>	(Optional)
<i>out-frag</i>	(Optional)
<i>frag-drop</i>	(Optional)

<i>cant-frag</i>	(Optional)
<i>reasm</i>	(Optional)
<i>frag-to</i>	(Optional)
<i>tx-redir</i>	(Optional)
<i>tx-unreach</i>	(Optional)
<i>tx-echo-req</i>	(Optional)
<i>tx-echo-reply</i>	(Optional)
<i>tx-mask-req</i>	(Optional)
<i>tx-mask-rep</i>	(Optional)
<i>tx-info-req</i>	(Optional)
<i>tx-info-reply</i>	(Optional)
<i>tx-param-prob</i>	(Optional)
<i>tx-source-quench</i>	(Optional)
<i>tx-tstamp-req</i>	(Optional)
<i>tx-tstamp-reply</i>	(Optional)
<i>tx-time-exceeded</i>	(Optional)
<i>tx-router-solicit</i>	(Optional)
<i>tx-router-advert</i>	(Optional)
<i>rx-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)

---

*rx-tstamp-reply* (Optional)

---

*rx-time-exceeded* (Optional)

---

*rx-router-solicit* (Optional)

---

*rx-router-advert* (Optional)

---

*rx-format-errors* (Optional)

---

*rx-csum-errors* (Optional)

---

*inrcv* (Optional)

---

*inoctet* (Optional)

---

*inhderr* (Optional)

---

*innoroutes* (Optional)

---

*inaddrerr* (Optional)

---

*innoproto* (Optional)

---

*intruncated* (Optional)

---

*inforw* (Optional)

---

*reasmoks* (Optional)

---

*reasmfails* (Optional)

---

*reasmreqds* (Optional)

---

*indiscards* (Optional)

---

*indelivers* (Optional)

---

*outnoroutes* (Optional)

---

*outrqsts* (Optional)

---

*outforw* (Optional)

---

*outdiscards* (Optional)

---

*outfragreqds* (Optional)

---

*outfragoks* (Optional)

---

*outfragfails* (Optional)

---

*outfragcreates* (Optional)

---

*outxmts* (Optional)

---

*outoctet* (Optional)

---

---

*inmcastpkts* (Optional)

---

*inmcastoctets* (Optional)

---

*outmcastpkts* (Optional)

---

*outmcastoctets* (Optional)

---

*inbcastpkts* (Optional)

---

*outbcastpkts* (Optional)

---

### Command Mode

- /exec

# show ip txlist list

```
show ip txlist { list | member }
```

## Syntax Description

Syntax Description	
show	Show running system information
ip	Display IP information
txlist	Display IP txlist information
list	Display IP txlist main linkage
member	Display IP txlist active member linkage

## Command Mode

- /exec

## show ip verify source

```
show ip verify source [ interface <intf6> ] [ __readonly__ TABLE_verify_entry <verify_intf>
<verify_intf_ipsg_val> <verify_ipsg_enable_intfs> <verify_hdr> <verify_filter_mode> <verify_ip_addr>
<verify_mac_addr> <verify_vlan> <verify_ipsg_exclude_vlans> ]
```

### Syntax Description

Syntax Description		
show		Show running system information
ip		Show the IP features of the system
verify		Verify IPSG information
source		IPSG source
interface		(Optional) Interface
<i>verify_intf_ipsg_val</i>		(Optional) IP source guard value (enabled or disable)
<i>verify_ipsg_enable_intfs</i>		(Optional) IP source guard enabled interfaces names
<i>intf6</i>		(Optional)
<i>__readonly__</i>		(Optional) Read only
<i>TABLE_verify_entry</i>		(Optional)
<i>verify_filter_mode</i>		(Optional)
<i>verify_intf</i>		(Optional)
<i>verify_hdr</i>		(Optional)
<i>verify_ip_addr</i>		(Optional)
<i>verify_mac_addr</i>		(Optional)
<i>verify_vlan</i>		(Optional)
<i>verify_ipsg_exclude_vlans</i>		(Optional)

### Command Mode

- /exec





<i>global_punt_pkt_cnt</i>	(Optional)
<i>global_punt_byte_cnt</i>	(Optional)
<i>global_glean_pkt_cnt</i>	(Optional)
<i>global_glean_byte_cnt</i>	(Optional)
<i>glean_pkt_cnt</i>	(Optional)
<i>glean_byte_cnt</i>	(Optional)
<i>normal_pkt_cnt</i>	(Optional)
<i>normal_byte_cnt</i>	(Optional)
<i>last_updated</i>	(Optional)
<i>count-static</i>	(Optional)
<i>count-dynamic</i>	(Optional)
<i>count-others</i>	(Optional)
<i>count-throttle</i>	(Optional)
<i>count-total</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
<i>count</i>	(Optional)
TABLE_adj	(Optional)
<i>intf-out</i>	(Optional)
<i>phy-intf</i>	(Optional)
<i>time-stamp</i>	(Optional)
<i>mac</i>	(Optional)
<i>pref</i>	(Optional)
<i>owner</i>	(Optional)
<i>pkt-count</i>	(Optional)
<i>byte-count</i>	(Optional)
<i>is-best</i>	(Optional)
<i>is-thrtld</i>	(Optional)

**Command Mode**

- /exec

## show ipv6 amt tunnel

```
show ipv6 amt tunnel [ <address6> <port> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__
TABLE_vrf <vrf> <tc6> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route
<source> <group> <rexp> } } ]
```

### Syntax Description

Syntax Description	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
<i>__readonly__</i>	(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)

---

*exp* (Optional)

---

**Command Mode**

- /exec

# show ipv6 bgp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [
<ipv6-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234
} ]
```

## Syntax Description

Syntax Description	show	Show running system information
	ipv6	Display BGP information for IPv6 address family
	bgp	Display BGP status and configuration
	mbgp	Display MBGP status and configuration
	vrf	(Optional) Virtual Router Context
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	longer-prefixes	(Optional) Display route and more specific routes

## Command Mode

- /exec

## show ipv6 bgp

```
show ipv6 { bgp | mbgp } { route-map { <rmap-name> | <rmap-name> } | prefix-list { <prfxlist-name> |
<test_pol_name> } | filter-list { <fltrlist-name> | <test_pol_name> } | community-list { <commlist-name> |
<test_pol_name> } | extcommunity-list { <extcommlist-name> | <test_pol_name> } [ exact-match ] }
```

### Syntax Description

Syntax Description	show	Show running system information
	ipv6	Display BGP information for IPv6 address family
	bgp	Display BGP status and configuration
	mbgp	Display MBGP status and configuration
	route-map	Display routes matching the route-map
	<i>rmap-name</i>	Route-map name
	<i>rmap-name</i>	Known route-map name
	prefix-list	Display routes matching the prefix-list
	<i>prfxlist-name</i>	Name of prefix-list
	filter-list	Display routes matching the filter-list
	<i>fltrlist-name</i>	Name of filter-list
	community-list	Display routes matching the community-list
	<i>commlist-name</i>	Name of community-list
	extcommunity-list	Display routes matching the extcommunity-list
	<i>extcommlist-name</i>	Name of extcommunity-list
	<i>test_pol_name</i>	An existing test-list policy
	exact-match	(Optional) Exact match of the communities

### Command Mode

- /exec

# show ipv6 bgp

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

## Syntax Description

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 { <regexp-str> | { { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

#### 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>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 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

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

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

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

#### 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

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

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

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

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

Syntax Description		
show		Show running system information
bgp		Display BGP status and configuration
mbgp		Display MBGP status and configuration
vrf		(Optional) Virtual Router Context
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
summary		Display summarized information of BGP state
ipv6		Display BGP information for IPv6 address family

## Command Mode

- /exec

# show ipv6 cache

show ipv6 cache { { brief | detail } | { interface [ <intf> ] } } [ operational ]

## Syntax Description

Syntax Description		
show	Show running system information	
ipv6	Display IPv6 information	
cache	Display ipv6 cache	
interface	Display ipv6 related interface information	
brief	Display summary of ipv6 interface status and configuration	
detail	Display detailed information of ipv6 interface status and configuration	
operational	(Optional) Display only interfaces that are administratively enabled	
<i>intf</i>	(Optional) Interface name to display	

## Command Mode

- /exec

# show ipv6 client

```
show ipv6 client [ <client-name> ] [ __readonly__ { TABLE_ipv6_client { <cli-name> <cli-stat> <cli-pid>
<cli-ext-pid> [ <protocol> ] <pib-index> <cli-uuid> <rou-vrf> <rou-flg> <ctrl-sap> <data-sap> <ipc-ctrl-mq>
<ipc-ctrl-fail> <ipc-data-mq> <ipc-data-fail> [ <if-ext-ind> ] [ <recv-fn> <recv-hex> ] } } ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
ipv6	Display IPv6 information
client	Display clients registered with the IPv6 process
<i>client-name</i>	(Optional) Display information for a single IPv6 client
<i>__readonly__</i>	(Optional)
TABLE_ipv6_client	(Optional)
<i>cli-name</i>	(Optional)
<i>cli-stat</i>	(Optional)
<i>cli-pid</i>	(Optional)
<i>cli-ext-pid</i>	(Optional)
<i>protocol</i>	(Optional)
<i>pib-index</i>	(Optional)
<i>cli-uuid</i>	(Optional)
<i>rou-vrf</i>	(Optional)
<i>rou-flg</i>	(Optional)
<i>ctrl-sap</i>	(Optional)
<i>data-sap</i>	(Optional)
<i>ipc-ctrl-mq</i>	(Optional)
<i>ipc-ctrl-fail</i>	(Optional)
<i>ipc-data-mq</i>	(Optional)
<i>ipc-data-fail</i>	(Optional)
<i>if-ext-ind</i>	(Optional)
<i>recv-fn</i>	(Optional)
<i>recv-hex</i>	(Optional)

**Command Mode**

- /exec

## show ipv6 dhcp relay

```
show ipv6 dhcp relay [ interface <intf-range> ] [ __readonly__ <relay_service_enable> <relay_vpn_enable>
<relay_cisco_option_enable> <gbl_src_intf> <interface-name> <intf_src_intf> <intf_header> <relay_address>
<vrf_name> <dst_intf> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show DHCPv6
relay	DHCPv6 relay address of the interface
interface	(Optional) DHCPv6 relay address of the interface
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>relay_service_enable</i>	(Optional)
<i>relay_vpn_enable</i>	(Optional)
<i>relay_cisco_option_enable</i>	(Optional)
<i>gbl_src_intf</i>	(Optional) interface name
<i>interface-name</i>	(Optional) interface name
<i>intf_src_intf</i>	(Optional) interface name
<i>intf_header</i>	(Optional)
<i>vrf_name</i>	(Optional) VRF name
<i>dst_intf</i>	(Optional) interface name

### Command Mode

- /exec

## show ipv6 dhcp relay statistics

```
show ipv6 dhcp relay statistics [ interface <intf> [ [ server-ip <ip-addr-val> [ use-vrf <vrf-name> ] [ interface
<dest-interface> ] ] [ server-ip <ip-addr-val> [ interface <dest-interface> ] [ use-vrf <vrf-name> ] ] ] ] [
__readonly__ <msg_stats_hdr> <msg_type_str> <tx_pkts> <rx_pkts> <drops> <msg_type_str_total>
<server_stats_hdr> <server_helper_addr> <server_vrf> <server_intf> <server_requests> <server_responses>
<drop_hdr> <drop_relay_disable> <drop_max_hops> <drop_validation_fails> <drop_unknown_op_intf>
<drop_bad_context> <drop_opt_insert_fail> <drop_server_direct_reply> <drop_no_ipv6_addr>
<drop_intf_error> <drop_vpn_disabled> <drop_ipv6_extn_hdrs_presence> <drop_mct_drop> ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show information about DHCPv6
relay	DHCPv6 Relay
statistics	Statistics related to DHCPv6
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
server-ip	(Optional) Server address
use-vrf	(Optional) server address VRF membership
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Destination interface for the server address
<i>dest-interface</i>	(Optional) Destination interface
<i>__readonly__</i>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional)
<i>msg_type_str</i>	(Optional)
<i>tx_pkts</i>	(Optional)
<i>rx_pkts</i>	(Optional)
<i>drops</i>	(Optional)
<i>msg_type_str_total</i>	(Optional)
<i>server_stats_hdr</i>	(Optional)
<i>server_helper_addr</i>	(Optional)

<i>server_vrf</i>	(Optional)
<i>server_intf</i>	(Optional) interface name
<i>server_requests</i>	(Optional)
<i>server_responses</i>	(Optional)
<i>drop_hdr</i>	(Optional)
<i>drop_relay_disable</i>	(Optional)
<i>drop_max_hops</i>	(Optional)
<i>drop_validation_fails</i>	(Optional)
<i>drop_unknown_op_intf</i>	(Optional)
<i>drop_bad_context</i>	(Optional)
<i>drop_opt_insert_fail</i>	(Optional)
<i>drop_server_direct_reply</i>	(Optional)
<i>drop_no_ipv6_addr</i>	(Optional)
<i>drop_intf_error</i>	(Optional)
<i>drop_vpn_disabled</i>	(Optional)
<i>drop_ipv6_extn_hdrs_presence</i>	(Optional)
<i>drop_mct_drop</i>	(Optional)

**Command Mode**

- /exec





<i>zero-successors</i>	(Optional) Show only zero successor entries
<i>detail-links</i>	(Optional) Show all links in topology table with details
<i>all-links</i>	(Optional) Show all links in topology table
<i>__readonly__</i>	(Optional)
<i>TABLE_asn</i>	(Optional)
<i>asn</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf</i>	(Optional)
<i>router_id</i>	(Optional)
<i>head_serial</i>	(Optional)
<i>next_serial</i>	(Optional)
<i>route_count</i>	(Optional)
<i>replies_pending</i>	(Optional)
<i>dummies</i>	(Optional)
<i>eigrp_name</i>	(Optional)
<i>num_if</i>	(Optional)
<i>num_neighbors</i>	(Optional)
<i>num_active_if</i>	(Optional)
<i>TABLE_quiescent_if</i>	(Optional)
<i>ifname</i>	(Optional)
<i>TABLE_ent</i>	(Optional)
<i>ip_prefix</i>	(Optional)
<i>active</i>	(Optional)
<i>num_successors</i>	(Optional)
<i>feasible_distance</i>	(Optional)
<i>tag</i>	(Optional)
<i>send_flag</i>	(Optional)
<i>xmit_serno</i>	(Optional)
<i>xmit_refcount</i>	(Optional)

<i>xmit_anchored</i>	(Optional)
<i>outstd_replies</i>	(Optional)
<i>query_origin</i>	(Optional)
<i>retry_count</i>	(Optional)
<i>act_min_time</i>	(Optional)
<i>act_max_time</i>	(Optional)
<i>act_avg_time</i>	(Optional)
<i>act_count</i>	(Optional)
<i>peers_sia_stuck</i>	(Optional)
TABLE_succ	(Optional)
<i>s_nexthop</i>	(Optional)
<i>s_origin</i>	(Optional)
<i>s_metric</i>	(Optional)
<i>s_succ_metric</i>	(Optional)
<i>s_bandwidth</i>	(Optional)
<i>s_delay</i>	(Optional)
<i>s_reliability</i>	(Optional)
<i>s_load</i>	(Optional)
<i>s_min_mtu</i>	(Optional)
<i>s_hop_count</i>	(Optional)
<i>s_int_tag</i>	(Optional)
<i>s_reply_status</i>	(Optional)
<i>s_sia_status</i>	(Optional)
<i>s_external</i>	(Optional)
<i>s_ext_routerid</i>	(Optional)
<i>s_ext_asn</i>	(Optional)
<i>s_ext_proto</i>	(Optional)
<i>s_ext_metric</i>	(Optional)
<i>s_ext_admin_tag</i>	(Optional)

<i>s_exterior_flag</i>	(Optional)
<i>s_send_flag</i>	(Optional)
<i>s_send_flag_hex</i>	(Optional)
<i>s_ifname</i>	(Optional)
<i>s_xmit_serno</i>	(Optional)
<i>s_xmit_anchored</i>	(Optional)
TABLE_reply_status	(Optional)
<i>rs_ipaddr</i>	(Optional)
<i>rs_ifname</i>	(Optional)
TABLE_sia_status	(Optional)
<i>ss_ipaddr</i>	(Optional)
<i>ss_ifname</i>	(Optional)
<i>eigrp-ptag</i>	(Optional)

**Command Mode**

- /exec

## show ipv6 eigrp route-map statistics redistribute

```
show ipv6 eigrp [ <eigrp-ptag> ] route-map statistics redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip }
<tag> | static | direct | amt } [ 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

#### 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
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
<i>__readonly__</i>	(Optional)
<i>TABLE_asn</i>	(Optional)

<i>asn</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_rmap	(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 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

Syntax Description		
show		Show running system information
ipv6		Display IPv6 information
fragments		Display queued fragments
__readonly__		(Optional)
TABLE_ipv6_frag		(Optional)
TABLE_ipv6_each_q		(Optional)
<i>frag-id</i>		(Optional)
<i>frag-off</i>		(Optional)
<i>m-flag</i>		(Optional)
<i>nxt-header</i>		(Optional)
<i>pay-load</i>		(Optional)
<i>expires</i>		(Optional)

### Command Mode

- /exec

# show ipv6 icmp

```
show ipv6 icmp { adjacency | neighbor | sync-entries } [ <interface> ] [ detail ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ { <icmpv6-vrftype> <icmpv6-cxt-name> } [ TABLE_icmpv6_all_int
{ TABLE_icmpv6_one_int { <icmpv6-ipv6-addr> <time-stamp-icmpv6> <icmpv6-mac> <icmpv6-state>
<icmpv6-short-name> [ <phy-int-short-name> ] } } ] ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ipv6		Display IPv6 information
icmp		Display ICMPv6 information
adjacency		Show IPv6 dynamic learnt adjacency entry
neighbor		Show IPv6 dynamic learnt neighbor entry
sync-entries		Show IPv6 table learnt only due to table sync
<i>interface</i>		(Optional) Interface name to display
detail		(Optional) Display detailed information
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
<i>__readonly__</i>		(Optional)
<i>icmpv6-vrftype</i>		(Optional)
<i>icmpv6-cxt-name</i>		(Optional)
TABLE_icmpv6_all_int		(Optional)
TABLE_icmpv6_one_int		(Optional)
<i>time-stamp-icmpv6</i>		(Optional)
<i>icmpv6-mac</i>		(Optional)
<i>icmpv6-state</i>		(Optional)
<i>icmpv6-short-name</i>		(Optional)
<i>phy-int-short-name</i>		(Optional)

## Command Mode

- /exec



## show ipv6 icmp global traffic

```
show ipv6 { icmp | nd } global traffic [ __readonly__ { TABLE_icmpv6_global_stat <st-total> <rv-total>
<st-err> <rv-err> <st-int-drp-cnt> <rv-int-drp-cnt> <st-adj-nt-recov-am-ha> <rv-adj-nt-recov-am-ha>
<st-pkt-allow-inv-ttl-vpc> <rv-pkt-allow-inv-ttl-vpc> <st-drp-src-mac-own> <rv-drp-src-mac-own>
<st-drp-tgt-ip-not-own> <rv-drp-tgt-ip-not-own> <st-drp-src-ip-not-own> <rv-drp-src-ip-not-own>
<st-dest-unreach> <rv-dest-unreach> <st-admin-prohib> <rv-admin-prohib> <st-time-exceed> <rv-time-exceed>
<st-para-pbms> <rv-para-pbms> <st-echo-req> <rv-echo-req> <st-echo-reply> <rv-echo-reply> <st-redirect>
<rv-redirect> <st-pkt-too-big> <rv-pkt-too-big> <st-rtr-adver> <rv-rtr-adver> <st-rtr-solicit> <rv-rtr-solicit>
<st-nei-adver> <rv-nei-adver> <st-nei-solicit> <rv-nei-solicit> <fast-path-pkts> <fastpath-disable> <other-path>
<dup-rtr-ra-recvd> <rv-dup-rtr-ra-recvd> } { TABLE_icmpv6_mld_stat <st-v1-queries> <rv-v1-queries>
<st-v2-queries> <rv-v2-queries> <st-v1-reports> <rv-v1-reports> <st-v2-reports> <rv-v2-reports>
<st-v1-leaves> <rv-v1-leaves> } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
nd	Display Neighbor Discovery interface information
global	Show ICMPv6/ND global variables
traffic	Display ICMPv6 software processed traffic statistics
__readonly__	(Optional)
TABLE_icmpv6_global_stat	(Optional)
st-total	(Optional)
rv-total	(Optional)
st-err	(Optional)
rv-err	(Optional)
st-int-drp-cnt	(Optional)
rv-int-drp-cnt	(Optional)
st-adj-nt-recov-am-ha	(Optional)
rv-adj-nt-recov-am-ha	(Optional)
st-pkt-allow-inv-ttl-vpc	(Optional)
rv-pkt-allow-inv-ttl-vpc	(Optional)
st-drp-src-mac-own	(Optional)

<i>rv-drp-src-mac-own</i>	(Optional)
<i>st-drp-tgt-ip-not-own</i>	(Optional)
<i>rv-drp-tgt-ip-not-own</i>	(Optional)
<i>st-drp-src-ip-not-own</i>	(Optional)
<i>rv-drp-src-ip-not-own</i>	(Optional)
<i>st-dest-unreach</i>	(Optional)
<i>rv-dest-unreach</i>	(Optional)
<i>st-admin-prohib</i>	(Optional)
<i>rv-admin-prohib</i>	(Optional)
<i>st-time-exceed</i>	(Optional)
<i>rv-time-exceed</i>	(Optional)
<i>st-para-pbms</i>	(Optional)
<i>rv-para-pbms</i>	(Optional)
<i>st-echo-req</i>	(Optional)
<i>rv-echo-req</i>	(Optional)
<i>st-echo-reply</i>	(Optional)
<i>rv-echo-reply</i>	(Optional)
<i>st-redirect</i>	(Optional)
<i>rv-redirect</i>	(Optional)
<i>st-pkt-too-big</i>	(Optional)
<i>rv-pkt-too-big</i>	(Optional)
<i>st-rtr-adver</i>	(Optional)
<i>rv-rtr-adver</i>	(Optional)
<i>st-rtr-solicit</i>	(Optional)
<i>rv-rtr-solicit</i>	(Optional)
<i>st-nei-adver</i>	(Optional)
<i>rv-nei-adver</i>	(Optional)
<i>st-nei-solicit</i>	(Optional)
<i>rv-nei-solicit</i>	(Optional)

<i>fast-path-pkts</i>	(Optional)
<i>fastpath-disable</i>	(Optional)
<i>other-path</i>	(Optional)
<i>dup-rtr-ra-recvd</i>	(Optional)
<i>rv-dup-rtr-ra-recvd</i>	(Optional)
TABLE_icmpv6_mld_stat	(Optional)
<i>st-v1-queries</i>	(Optional)
<i>rv-v1-queries</i>	(Optional)
<i>st-v2-queries</i>	(Optional)
<i>rv-v2-queries</i>	(Optional)
<i>st-v1-reports</i>	(Optional)
<i>rv-v1-reports</i>	(Optional)
<i>st-v2-reports</i>	(Optional)
<i>rv-v2-reports</i>	(Optional)
<i>st-v1-leaves</i>	(Optional)
<i>rv-v1-leaves</i>	(Optional)

**Command Mode**

- /exec

## show ipv6 icmp interface

```
{ show ipv6 { icmp | nd } interface [ <interface> ] { [ prefix [ full ] ] [ route ] [ detail ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] } | { show ipv6 [ icmp ] mld interface [ brief ] [ detail ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] } | { show ipv6 [ icmp ] mld interface <interface> } [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_intf <intf-name> <proto-state> <link-state> <admin-state> <addr> <subnet>
<link-local-addr> <icmpv6-disabled> <last-ns-sent> <last-na-sent> <last-ra-sent> <next-na-sent>
<ra-min-interval> <ra-interval> <set-m-flag> <set-o-flag> <current-hop-limit> <mtu> <router-lifetime>
<reachable-time> <retrans-timer> <ns-interval> <send-redirect> <send-unreachables> <mld-disabled>
<mld-querier> <mld-entry-count> <mld-config-version> <mld-querier-version> <mld-host-version>
<mld-query-timer> <mld-querier-expiry> <mld-qi> <mld-config-qi> <mld-query-mrt> <mld-config-query-mrt>
<mld-startup-qi> <mld-config-startup-qi> <mld-startup-qc> <mld-config-last-member-mrt>
<mld-last-member-qc> <mld-group-timeout> <mld-config-group-timeout> <mld-querier-timeout>
<mld-config-querier-timeout> <mld-config-unsol-rpt-interval> <mld-qrv> <mld-config-robustness-variable>
<mld-config-rpt-link-local> <mld-refcount> <static-group-map> <join-group-map> <ra-sent> <ra-rec>
<rs-sent> <rs-rec> <na-sent> <na-rec> <ns-sent> <ns-rec> <redirect-sent> <redirect-rec> <msg-sent>
<msg-rec> <errors-sent> <erros-rec> <ifdown-sent> <ifdown-rec> <am-ha-not-ready> <allow-mct-ttl>
<our-own-mac> <tgt-not-us> <dest-unreachs-sent> <dest-unreachs-rec> <admin-prohibs-sent>
<admin-prohibs-rec> <time-excds-sent> <time-excds-rec> <parm-problems-sent> <parm-problems-rec>
<echos-sent> <echos-rec> <echo-replies-sent> <echo-replies-rec> <pkt-toobigs-sent> <pkt-toobigs-rec>
<fastpath-pkt-recv> <fastpath-disable-pkt-recv> <fastpath-ignore-pkt-recv> <v1-queries-sent> <v1-queries-rec>
<v2-queries-sent> <v2-queries-rec> <v1-reports-sent> <v1-reports-rec> <v2-reports-sent> <v2-reports-rec>
<v1-leaves-sent> <v1-leaves-rec> <v2-leaves-sent> <v2-leaves-rec> <uptime> <mld-config-il> ]
```

### Syntax Description

Syntax Description	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	Display Neighbor Discovery interface information
mld	Display Multicast Listener Discovery information
interface	Display ICMPv6 related interface information
prefix	(Optional) Display List of ICMPv6 RA prefix
route	(Optional) Display List of ICMPv6 RA routes
full	(Optional) Display Complete prefix information
detail	(Optional) Display ICMPv6 related interface information in detail

<i>brief</i>	(Optional) Display ICMPv6 related interface information in brief
<i>interface</i>	(Optional) Interface name to show
<i>__readonly__</i>	(Optional)
<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>icmpv6-disabled</i>	(Optional)
<i>last-ns-sent</i>	(Optional)
<i>last-na-sent</i>	(Optional)
<i>last-ra-sent</i>	(Optional)
<i>next-na-sent</i>	(Optional)
<i>ra-min-interval</i>	(Optional)
<i>ra-interval</i>	(Optional)
<i>set-m-flag</i>	(Optional)
<i>set-o-flag</i>	(Optional)
<i>current-hop-limit</i>	(Optional)
<i>mtu</i>	(Optional)
<i>router-lifetime</i>	(Optional)
<i>reachable-time</i>	(Optional)
<i>retrans-timer</i>	(Optional)
<i>ns-interval</i>	(Optional)
<i>send-redirect</i>	(Optional)
<i>send-unreachables</i>	(Optional)
<i>mld-disabled</i>	(Optional)
<i>mld-entry-count</i>	(Optional)

<i>mld-config-version</i>	(Optional)
<i>mld-querier-version</i>	(Optional)
<i>mld-host-version</i>	(Optional)
<i>mld-query-timer</i>	(Optional)
<i>mld-querier-expiry</i>	(Optional)
<i>mld-qi</i>	(Optional)
<i>mld-config-qi</i>	(Optional)
<i>mld-query-mrt</i>	(Optional)
<i>mld-config-query-mrt</i>	(Optional)
<i>mld-startup-qi</i>	(Optional)
<i>mld-config-startup-qi</i>	(Optional)
<i>mld-startup-qc</i>	(Optional)
<i>mld-config-last-member-mrt</i>	(Optional)
<i>mld-last-member-qc</i>	(Optional)
<i>mld-group-timeout</i>	(Optional)
<i>mld-config-group-timeout</i>	(Optional)
<i>mld-querier-timeout</i>	(Optional)
<i>mld-config-querier-timeout</i>	(Optional)
<i>mld-config-unsol-rpt-interval</i>	(Optional)
<i>mld-qrv</i>	(Optional)
<i>mld-config-robustness-variable</i>	(Optional)
<i>mld-config-rpt-link-local</i>	(Optional)
<i>mld-refcount</i>	(Optional)
<i>static-group-map</i>	(Optional)
<i>join-group-map</i>	(Optional)
<i>ra-sent</i>	(Optional)
<i>ra-rec</i>	(Optional)
<i>rs-sent</i>	(Optional)
<i>rs-rec</i>	(Optional)

<i>na-sent</i>	(Optional)
<i>na-rec</i>	(Optional)
<i>ns-sent</i>	(Optional)
<i>ns-rec</i>	(Optional)
<i>redirect-sent</i>	(Optional)
<i>redirect-rec</i>	(Optional)
<i>msg-sent</i>	(Optional)
<i>msg-rec</i>	(Optional)
<i>errors-sent</i>	(Optional)
<i>erros-rec</i>	(Optional)
<i>ifdown-sent</i>	(Optional)
<i>ifdown-rec</i>	(Optional)
<i>am-ha-not-ready</i>	(Optional)
<i>allow-mct-ttl</i>	(Optional)
<i>our-own-mac</i>	(Optional)
<i>tgt-not-us</i>	(Optional)
<i>dest-unreachs-sent</i>	(Optional)
<i>dest-unreachs-rec</i>	(Optional)
<i>admin-prohibs-sent</i>	(Optional)
<i>admin-prohibs-rec</i>	(Optional)
<i>time-excds-sent</i>	(Optional)
<i>time-excds-rec</i>	(Optional)
<i>parm-problems-sent</i>	(Optional)
<i>parm-problems-rec</i>	(Optional)
<i>echos-sent</i>	(Optional)
<i>echos-rec</i>	(Optional)
<i>echo-replies-sent</i>	(Optional)
<i>echo-replies-rec</i>	(Optional)
<i>pkt-toobigs-sent</i>	(Optional)

<i>pkt-toobigs-rec</i>	(Optional)
<i>fastpath-pkt-recv</i>	(Optional)
<i>fastpath-disable-pkt-recv</i>	(Optional)
<i>fastpath-ignore-pkt-recv</i>	(Optional)
<i>v1-queries-sent</i>	(Optional)
<i>v1-queries-rec</i>	(Optional)
<i>v2-queries-sent</i>	(Optional)
<i>v2-queries-rec</i>	(Optional)
<i>v1-reports-sent</i>	(Optional)
<i>v1-reports-rec</i>	(Optional)
<i>v2-reports-sent</i>	(Optional)
<i>v2-reports-rec</i>	(Optional)
<i>v1-leaves-sent</i>	(Optional)
<i>v1-leaves-rec</i>	(Optional)
<i>v2-leaves-sent</i>	(Optional)
<i>v2-leaves-rec</i>	(Optional)
<i>uptime</i>	(Optional)
<i>mld-config-il</i>	(Optional)

**Command Mode**

- /exec



# show ipv6 icmp internal event-history

```
show ipv6 icmp internal event-history { errors | msgs | icmpv6-internal | nd | vip-nd | mld { debugs | events }
| ha | sync-event | ipv6-sync-event | lcache | lcache-errors | vrf | cli | snmp | objstr }
```

## Syntax Description

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
internal	Commands for internal use
event-history	Show various event logs of ICMPV
errors	Show error logs of ICMPV6
msgs	Show various message logs of ICMPV6
icmpv6-internal	Show internal debug events in ICMPV6
nd	Show ICMPV6 ND debugs
vip-nd	Show ICMPV6 ND debugs for VIP
mld	Show ICMPV6 MLD Information
events	Show ICMPV6 MLD non-periodic events
debugs	Show ICMPV6 MLD debug messages
ha	Show ICMPV6 debugs for HA events
sync-event	Show ICMPV6 debugs for CFS and MCECM related events
ipv6-sync-event	Show ICMPV6 debugs for CFS and MCECM related events for L3
lcache	Show various lcache logs of ICMPv6
lcache-errors	Show various lcache-error logs of ICMPv6
vrf	Show ICMPV6 VRF related events
cli	Show ICMPV6 CLI related events
snmp	Show ICMPV6 SNMP related events
objstr	Show ICMPV6 Object Store related events

## Command Mode

- /exec

## show ipv6 icmp internal event-history buffer-size

show ipv6 icmp internal event-history buffer-size { errors | icmpv6-internal | nd | mld { debugs | events } | ha | sync-event | ipv6-sync-event | vrf | cli | all }

### Syntax Description

Syntax Description	show	Show running system information
	ipv6	Display IPv6 information
	icmp	Display ICMPv6 information
	internal	Commands for internal use
	event-history	Show various event logs buffer sizes of ICMPV
	buffer-size	Show current size of the buffers
	errors	Show error logs buffer size of ICMPV6
	icmpv6-internal	Show internal debug events buffer size of ICMPV6
	nd	Show ICMPV6 ND debugs buffer size
	mld	Show ICMPV6 MLD Information buffer size
	events	Show ICMPV6 MLD non-periodic events buffer size
	debugs	Show ICMPV6 MLD debug messages buffer size
	ha	Show ICMPV6 debugs for HA events buffer size
	sync-event	Show ICMPV6 debugs for CFS and MCECM related events buffer size
	ipv6-sync-event	Show ICMPV6 debugs for CFS and MCECM related events buffer size
	vrf	Show ICMPV6 VRF related events buffer size
	cli	Show ICMPV6 CLI related events buffer size
	all	show the sizes of all buffers

### Command Mode

- /exec

# show ipv6 icmp internal hmm statistics

show ipv6 icmp internal hmm statistics [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
internal	Commands for internal use
hmm	Display local HMM information
statistics	Local HMM statistics
detail	(Optional) Detailed HMM statistics

## Command Mode

- /exec

# show ipv6 icmp ndp

show ipv6 icmp ndp

## Syntax Description

---

### Syntax Description

---

**show** Show running system information

---

**ipv6** Display IPv6 information

---

**icmp** Display ICMPv6 information

---

**ndp** Displays ipv6 neighbor by looking at the top level  
pt

---

## Command Mode

- /exec

## show ipv6 icmp off-list

```
show ipv6 icmp off-list [ vlan <vlan-id> ] [ __readonly__ [ <vlan-adj-cnt> ] [ <icmpv6-sync-adj-cnt> ] {
TABLE_icmpv6_vlan_list <adj-vlan-id> <off-adj-ip-addr> <icmpv6-time-stamp> <icmpv6-mac-addr>
<off-adj-flags> } ]
```

### Syntax Description

Syntax Description		
show		Show running system information
ipv6		Display IPv6 information
icmp		Display ICMPv6 information
off-list		Show adjacencies in off-list icmpv6 database
vlan		(Optional) Vlan id
<i>vlan-id</i>		(Optional) Show information for specified vlan
<i>__readonly__</i>		(Optional)
<i>vlan-adj-cnt</i>		(Optional)
<i>icmpv6-sync-adj-cnt</i>		(Optional)
TABLE_icmpv6_vlan_list		(Optional)
<i>adj-vlan-id</i>		(Optional)
<i>icmpv6-time-stamp</i>		(Optional)
<i>icmpv6-mac-addr</i>		(Optional)
<i>off-adj-flags</i>		(Optional)

### Command Mode

- /exec

# show ipv6 icmp process sdb

show ipv6 icmp process sdb

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	ipv6	Display IPv6 information
	icmp	Display ICMPv6 information
	process	Display process information
	sdb	Dump IPv6 sdb in a file

## Command Mode

- /exec



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_vip_list	(Optional)
<i>virt-mac</i>	(Optional)
<i>cxt_name</i>	(Optional)
<i>cxt_id</i>	(Optional)
<i>last-solocit-st</i>	(Optional)
<i>last-nei-ad-st</i>	(Optional)
<i>last-rtr-adv-st</i>	(Optional)
<i>nxt-rtr-ad-st</i>	(Optional)
<i>vmac-addr</i>	(Optional)



<i>st-total</i>	(Optional)
<i>rv-total</i>	(Optional)
<i>st-err</i>	(Optional)
<i>rv-err</i>	(Optional)
<i>st-int-dwn-drp</i>	(Optional)
<i>rv-int-dwn-drp</i>	(Optional)
<i>st-adj-nt-recov-am</i>	(Optional)
<i>rv-adj-nt-recov-am</i>	(Optional)
<i>st-pkt-allow-inv-ttl</i>	(Optional)
<i>rv-pkt-allow-inv-ttl</i>	(Optional)
<i>st-pkt-drp-src-mac-own</i>	(Optional)
<i>rv-pkt-drp-src-mac-own</i>	(Optional)
<i>st-pkt-drp-tgt-not-own</i>	(Optional)
<i>rv-pkt-drp-tgt-not-own</i>	(Optional)
<i>st-pkt-drp-src-not-own</i>	(Optional)
<i>rv-pkt-drp-src-not-own</i>	(Optional)
<i>st-dest-unreach</i>	(Optional)
<i>rv-dest-unreach</i>	(Optional)
<i>st-admin-prohi</i>	(Optional)
<i>rv-admin-prohi</i>	(Optional)
<i>st-time-exceed</i>	(Optional)
<i>rv-time-exceed</i>	(Optional)
<i>st-patr-pbm</i>	(Optional)
<i>rv-patr-pbm</i>	(Optional)
<i>st-echo-req</i>	(Optional)
<i>rv-echo-req</i>	(Optional)
<i>st-echo-reply</i>	(Optional)
<i>rv-echo-reply</i>	(Optional)
<i>st-dup-ra</i>	(Optional)

<i>rv-dup-ra</i>	(Optional)
<i>st-redirect</i>	(Optional)
<i>rv-redirect</i>	(Optional)
<i>st-pkt-too-big</i>	(Optional)
<i>rv-pkt-too-big</i>	(Optional)
<i>st-rtr-adver</i>	(Optional)
<i>rv-rtr-adver</i>	(Optional)
<i>st-rtr-solicit</i>	(Optional)
<i>rv-rtr-solicit</i>	(Optional)
<i>st-nei-adver</i>	(Optional)
<i>rv-nei-adver</i>	(Optional)
<i>st-nei-solicit</i>	(Optional)
<i>rv-nei-solicit</i>	(Optional)

**Command Mode**

- /exec

## show ipv6 icmp vpc-statistics

```
show ipv6 icmp vpc-statistics [ __readonly__ { TABLE_icmpv6_vpc_stats [ <icmpv6-pro-drp-pull-disable>
] [ <icmpv6-pro-drp-push-msg-disable> ] [ <icmpv6-pro-ign-snd-pull-disabe> ] [
<icmpv6-ign-snd-push-disable> ] [ <icmpv6-drp-im-fail> ] [ <icmpv6-drp-mcecm-fail> ] [
<icmpv6-drp-invalid-pc-iod> ] [ <icmpv6-drp-pt-lookup-fail> ] [ <icmpv6-drp-resp-fail-no-mct> ] [
<icmpv6-drp-resp-fail> ] [ <icmpv6-resp-sent> ] [ <icmpv6-resp-recvd> ] [ <icmpv6-resp-recv-err> ] [
<icmpv6-rcvd-msg> ] [ <icmpv6-send-fail> ] [ <icmpv6-cfs-rel-dlvry-fail> ] [ <icmpv6-cfs-rel-dnvry-suc>
] [ <icmpv6-drp-pt-add-fail> ] [ <icmpv6-drp-no-mem> ] [ <icmpv6-drp-tmr-cre-fail> ] [
<icmpv6-drp-add-adj-fail> ] [ <icmpv6-off-drp-pt-lookup-fail> ] [ <icmpv6-dont-drp-vlan-mismat> ] [
<icmpv6-drp-svi-invalid> ] [ <icmpv6-dont-drop-sv-down> ] [ <icmpv6-drp-mct-down> ] [
<icmpv6-drp-ctxt-invalid> ] [ <icmpv6-drp-vrf-invalid> ] [ <icmpv6-drp-l3addr-invalid> ] [
<icmpv6-drp-l3addr-sanity-fail> ] [ <icmpv6-drp-mac-sanity-fail> ] [ <icmpv6-own-rtr-mac> ] [
<icmpv6-drp-own-ipv6addr> ] [ <icmpv6-drp-own-vip6add> ] [ <icmpv6-drp-adj-fail> ] [
<icmpv6-drp-subnet-mismatch> ] [ <icmpv6-drp-adj-exist> ] [ <icmpv6-dont-drp-ip-not-enable> ] [
<icmpv6-drp-total-cnt> ] [ <icmpv6-dont-drop-total-cnt> ] [ <icmpv6-add-adj> ] [ <icmpv6-del-adj> ] [
<icmpv6-adj-already-exist> ] } ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vpc-statistics	Show vPC global statistics
__readonly__	(Optional)
TABLE_icmpv6_vpc_stats	(Optional) icmpv6 Vpc statistics
<i>icmpv6-pro-drp-pull-disable</i>	(Optional)
<i>icmpv6-pro-drp-push-msg-disable</i>	(Optional)
<i>icmpv6-pro-ign-snd-pull-disabe</i>	(Optional)
<i>icmpv6-ign-snd-push-disable</i>	(Optional)
<i>icmpv6-drp-im-fail</i>	(Optional)
<i>icmpv6-drp-mcecm-fail</i>	(Optional)
<i>icmpv6-drp-invalid-pc-iod</i>	(Optional)
<i>icmpv6-drp-pt-lookup-fail</i>	(Optional)
<i>icmpv6-drp-resp-fail-no-mct</i>	(Optional)
<i>icmpv6-drp-resp-fail</i>	(Optional)
<i>icmpv6-resp-sent</i>	(Optional)

<i>icmpv6-resp-recvd</i>	(Optional)
<i>icmpv6-resp-recv-err</i>	(Optional)
<i>icmpv6-rcvd-msg</i>	(Optional)
<i>icmpv6-send-fail</i>	(Optional)
<i>icmpv6-cfs-rel-dlvry-fail</i>	(Optional)
<i>icmpv6-cfs-rel-dnvry-suc</i>	(Optional)
<i>icmpv6-drp-pt-add-fail</i>	(Optional)
<i>icmpv6-drp-no-mem</i>	(Optional)
<i>icmpv6-drp-tmr-cre-fail</i>	(Optional)
<i>icmpv6-drp-add-adj-fail</i>	(Optional)
<i>icmpv6-off-drp-pt-lookup-fail</i>	(Optional)
<i>icmpv6-dont-drp-vlan-mismat</i>	(Optional)
<i>icmpv6-drp-svi-invalid</i>	(Optional)
<i>icmpv6-dont-drop-sv-down</i>	(Optional)
<i>icmpv6-drp-mct-down</i>	(Optional)
<i>icmpv6-drp-ctxt-invalid</i>	(Optional)
<i>icmpv6-drp-vrf-invalid</i>	(Optional)
<i>icmpv6-drp-l3addr-invalid</i>	(Optional)
<i>icmpv6-drp-l3addr-sanity-fail</i>	(Optional)
<i>icmpv6-drp-mac-sanity-fail</i>	(Optional)
<i>icmpv6-own-rtr-mac</i>	(Optional)
<i>icmpv6-drp-own-ipv6addr</i>	(Optional)
<i>icmpv6-drp-own-vipv6add</i>	(Optional)
<i>icmpv6-drp-adj-fail</i>	(Optional)
<i>icmpv6-drp-subnet-mismatch</i>	(Optional)
<i>icmpv6-drp-adj-exist</i>	(Optional)
<i>icmpv6-dont-drp-ip-not-enable</i>	(Optional)
<i>icmpv6-drp-total-cnt</i>	(Optional)
<i>icmpv6-dont-drop-total-cnt</i>	(Optional)

---

<i>icmpv6-add-adj</i>	(Optional)
-----------------------	------------

---

<i>icmpv6-del-adj</i>	(Optional)
-----------------------	------------

---

<i>icmpv6-adj-already-exist</i>	(Optional)
---------------------------------	------------

---

**Command Mode**

- /exec

## show ipv6 interface

```
show ipv6 interface { [ brief [ include-secondary ] | [ <interface> | <ipv6-addr> ] [ detail ] ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf <vrf-name-out> ] [ TABLE_intf <intf-name> [
<proto-state> ] [ <link-state> ] [ <admin-state> ] [ <iod> ] [ <addr> ] [ <prefix> ] [ { TABLE_sec_addr [
<sec-prefix> ] } ] [ <linklocal-addr> ] [ <linklocal-configured> ] [ <ipv6-disabled> ] [ <mrouting-enabled>
] [ <mgroup-locally-joined> ] [ { TABLE_maddr <m-addr> [ <m-addr-refcnt> ] } ] [ { TABLE_sg [ <sg-saddr>
] [ <sg-maddr> ] [ <sg-refcnt> ] } ] [ <mtu> ] [ <global-in-pcl-configured> ] [ <global-in-pcl-name> ] [
<global-in-pcl-pending> ] [ <global-out-pcl-configured> ] [ <global-out-pcl-name> ] [ <global-out-pcl-pending>
] [ <in-pcl-configured> ] [ <in-pcl-name> ] [ <in-pcl-pending> ] [ <out-pcl-configured> ] [ <out-pcl-name>
] [ <out-pcl-pending> ] [ <urpf-mode> ] [ <ipv6-lstyp> ] [ <stats-last-reset> ] [ <acl-in> ] [ <acl-out> ] [
<upkt-fwd> ] [ <upkt-orig> ] [ <upkt-consumed> ] [ <ubyte-fwd> ] [ <ubyte-orig> ] [ <ubyte-consumed> ]
] [ <mpkt-fwd> ] [ <mpkt-orig> ] [ <mpkt-consumed> ] [ <mbyte-fwd> ] [ <mbyte-orig> ] [ <mbyte-consumed>
] [ <upkt-in-acc> ] [ <upkt-in-rej> ] [ <ubyte-in-acc> ] [ <ubyte-in-rej> ] [ <mpkt-in-acc> ] [ <mpkt-in-rej>
] [ <mbyte-in-acc> ] [ <mbyte-in-rej> ] [ <upkt-out-acc> ] [ <upkt-out-rej> ] [ <ubyte-out-acc> ] [
<ubyte-out-rej> ] [ <mpkt-out-acc> ] [ <mpkt-out-rej> ] [ <mbyte-out-acc> ] [ <mbyte-out-rej> ] [
<hw-upkt-sent> ] [ <hw-upkt-recv> ] [ <hw-ubyte-sent> ] [ <hw-ubyte-recv> ] [ <hw-mpkt-sent> ] [
<hw-mpkt-recv> ] [ <hw-mbyte-sent> ] [ <hw-mbyte-recv> ] [ <hw-upkt-drop> ] [ <hw-ubyte-drop> ] [
<hw-mpkt-drop> ] [ <hw-mbyte-drop> ] [ <hw-mpkt-rpdrop> ] [ <hw-mbyte-rpdrop> ] [ <hw-mpkt-dfdrops> ]
] [ <hw-mbyte-dfdrops> ] ] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
interface	Display IPv6 related interface information
brief	(Optional) Display summary of IPv6 status and configuration
include-secondary	(Optional) Display summary of all IPv6 addresses
<i>interface</i>	(Optional) Interface name to display
detail	(Optional) Display detailed IPv6 interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)

<i>intf-name</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>iod</i>	(Optional)
<i>prefix</i>	(Optional)
TABLE_sec_addr	(Optional)
<i>sec-prefix</i>	(Optional)
<i>linklocal-configured</i>	(Optional)
<i>ipv6-disabled</i>	(Optional)
<i>mrouting-enabled</i>	(Optional)
<i>mgroup-locally-joined</i>	(Optional)
TABLE_maddr	(Optional)
<i>m-addr-refcnt</i>	(Optional)
TABLE_sg	(Optional)
<i>sg-refcnt</i>	(Optional)
<i>mtu</i>	(Optional)
<i>global-in-pcl-configured</i>	(Optional)
<i>global-in-pcl-name</i>	(Optional)
<i>global-in-pcl-pending</i>	(Optional)
<i>global-out-pcl-configured</i>	(Optional)
<i>global-out-pcl-name</i>	(Optional)
<i>global-out-pcl-pending</i>	(Optional)
<i>in-pcl-configured</i>	(Optional)
<i>in-pcl-name</i>	(Optional)
<i>in-pcl-pending</i>	(Optional)
<i>out-pcl-configured</i>	(Optional)
<i>out-pcl-name</i>	(Optional)
<i>out-pcl-pending</i>	(Optional)

<i>urpf-mode</i>	(Optional)
<i>ipv6-lstype</i>	(Optional)
<i>stats-last-reset</i>	(Optional)
<i>acl-in</i>	(Optional)
<i>acl-out</i>	(Optional)
<i>upkt-fwd</i>	(Optional)
<i>upkt-orig</i>	(Optional)
<i>upkt-consumed</i>	(Optional)
<i>ubyte-fwd</i>	(Optional)
<i>ubyte-orig</i>	(Optional)
<i>ubyte-consumed</i>	(Optional)
<i>mpkt-fwd</i>	(Optional)
<i>mpkt-orig</i>	(Optional)
<i>mpkt-consumed</i>	(Optional)
<i>mbyte-fwd</i>	(Optional)
<i>mbyte-orig</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>upkt-in-acc</i>	(Optional)
<i>upkt-in-rej</i>	(Optional)
<i>ubyte-in-acc</i>	(Optional)
<i>ubyte-in-rej</i>	(Optional)
<i>mpkt-in-acc</i>	(Optional)
<i>mpkt-in-rej</i>	(Optional)
<i>mbyte-in-acc</i>	(Optional)
<i>mbyte-in-rej</i>	(Optional)
<i>upkt-out-acc</i>	(Optional)
<i>upkt-out-rej</i>	(Optional)
<i>ubyte-out-acc</i>	(Optional)
<i>ubyte-out-rej</i>	(Optional)



<i>mpkt-out-acc</i>	(Optional)
<i>mpkt-out-rej</i>	(Optional)
<i>mbyte-out-acc</i>	(Optional)
<i>mbyte-out-rej</i>	(Optional)
<i>hw-upkt-sent</i>	(Optional)
<i>hw-upkt-recv</i>	(Optional)
<i>hw-ubyte-sent</i>	(Optional)
<i>hw-ubyte-recv</i>	(Optional)
<i>hw-mpkt-sent</i>	(Optional)
<i>hw-mpkt-recv</i>	(Optional)
<i>hw-mbyte-sent</i>	(Optional)
<i>hw-mbyte-recv</i>	(Optional)
<i>hw-upkt-drop</i>	(Optional)
<i>hw-ubyte-drop</i>	(Optional)
<i>hw-mpkt-drop</i>	(Optional)
<i>hw-mbyte-drop</i>	(Optional)
<i>hw-mpkt-rpdrop</i>	(Optional)
<i>hw-mbyte-rpdrop</i>	(Optional)
<i>hw-mpkt-dfdrop</i>	(Optional)
<i>hw-mbyte-dfdrop</i>	(Optional)

**Command Mode**

- /exec

# show ipv6 interface global

show ipv6 interface global

## Syntax Description

Syntax	Description
show	Show running system information
ipv6	Display IPv6 information
interface	Display IPv6 related interface information
global	Show IPv6 global parameters

## Command Mode

- /exec

## show ipv6 internal bfd data

```
show ipv6 internal bfd data [ { vrf { <vrf-name> | <vrf-known-name> | all } | interface <interface> } ]
```

### Syntax Description

Syntax Description	show	Show running system information
	ipv6	Display IPV6 information
	internal	Commands for internal use
	bfd	show bfd related internal information
	data	bfd internal data structure
	vrf	(Optional) Display per-VRF information
	all	(Optional) Display all VRFs
	interface	(Optional) Display interface related bfd information
	<i>interface</i>	(Optional) Interface for which bfd info is required
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec

# show ipv6 internal context array

show ipv6 internal [ api ] context array

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	ipv6	Display IPv6 information
	internal	Commands for internal use
	api	(Optional) Show api values
	context	Display context info
	array	Print the array which stores context ptrs

## Command Mode

- /exec

# show ipv6 internal event-history

show ipv6 internal event-history { errors | msgs | ipc | ha | log | sdb | snmp | bfd | objstr }

## Syntax Description

Syntax Description		
show	Show running system information	
ipv6	Display IPV6 information	
internal	Commands for internal use	
event-history	Show various event logs of IPV6	
errors	Show error logs of IPV6	
msgs	Show various message logs of IPV6	
log	Show syslog message of IPV6	
ipc	Show ipc debug message of IPV6	
snmp	Show snmp debug message of IPV6	
ha	Show ha debug message of IPV6	
sdb	Show sdb debug message of IPV6	
bfd	Show bfd related event history	
objstr	Show Object Store logs of IPV6	

## Command Mode

- /exec

## show ipv6 internal event-history buffer-size

show ipv6 internal event-history buffer-size { errors | log | ipc | snmp | ha | sdb | bfd | all }

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	Display IPV6 information
internal	Commands for internal use
event-history	various event logs of IP
buffer-size	Show current size of the buffers
errors	Show error logs buffer size of IPV6
log	Show syslog message buffer size of IPV6
ipc	Show ipc debug message buffer size of IPV6
snmp	Show snmp debug message buffer size of IPV6
ha	Show ha debug message buffer size of IPV6
sdb	Show sdb debug message buffer size of IPV6
bfd	Show bfd debug message buffr size of IPV6
all	Show sizes of all event history buffers

### Command Mode

- /exec

# show ipv6 internal info

show ipv6 internal { info | fastboot-cache }

## Syntax Description

Syntax	Description
show	Show running system information
ipv6	Display IPV6 information
internal	Commands for internal use
info	Commands for internal use
fastboot-cache	Show IPv6 cache for fastboot recovery

## Command Mode

- /exec

# show ipv6 internal mem

```
show ipv6 internal { mem-stats [ shared | all ] [ no-libs ] [ detail ] }
```

## Syntax Description

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
internal	Display internal ipv6 information
shared	(Optional) Display shared memory statistics
all	(Optional) Display private and shared memory statistics
mem-stats	Show memory allocation statistics
no-libs	(Optional) Exclude libraries
detail	(Optional) Display detailed information

## Command Mode

- /exec



## show ipv6 internal netstack m6rib

```
show ipv6 internal netstack { m6rib-txlist [ vrf { <vrf-name> | <vrf-known-name> } ] | m6rib-buffers }
```

### Syntax Description

Syntax Description		
show		Show running system information
ipv6		Display IPv6 information
internal		Commands for internal use
netstack		Netstack's local cache
m6rib-txlist		Show M6RIB transmission-list information
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
m6rib-buffers		Show M6RIB route buffer information

### Command Mode

- /exec

# show ipv6 internal netstack mroute

```
show ipv6 internal netstack mroute [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
ipv6	Display IPv6 information	
internal	Commands for internal use	
netstack	Netstack's local cache	
mroute	Multicast route information	
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 lisp data-cache

```
show ipv6 lisp data-cache [ <eid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ipv6		Display IPv6 information
lisp		LISP show commands
data-cache		Display EID-to-RLOC data cache mapping in this ITR
<i>eid</i>		(Optional) Display mapping for IPv6 destination EID
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

## Command Mode

- /exec

# show ipv6 local-pt

```
show ipv6 local-pt [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
ipv6	Display IPv6 information	
local-pt	Display IPv6 local address pt data structure	
vrf	(Optional) Display per-VRF information	
<i>vrf-name</i>	(Optional) VRF name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
all	(Optional) Display all VRFs	

## Command Mode

- /exec

# show ipv6 local policy

```
show ipv6 local policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_pbr <interface>
<rmap> <status> <vrf_name> ]
```

## Syntax Description

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

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
groups	Display MLD attached group membership information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>interface</i>	(Optional) Display group membership on interface name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>entry-count</i>	(Optional)
TABLE_group	(Optional)
TABLE_intf	(Optional)
<i>intf-name</i>	(Optional)
<i>icmpv6-disabled</i>	(Optional)
<i>mld-source-unspec</i>	(Optional)
<i>mld-static</i>	(Optional)
<i>mld-local-group</i>	(Optional)
<i>mld-translated</i>	(Optional)
<i>mld-uptime</i>	(Optional)

---

*mld-expire* (Optional)

---

**Command Mode**

- /exec

# show ipv6 mld internal errors

```
show ipv6 [ icmp ] mld internal errors
```

## Syntax Description

---

**Syntax Description**

---

show Show running system information

---

ipv6 Display IPv6 information

---

icmp (Optional) Display ICMPv6 information

---

mld Display Multicast Listener Discovery information

---

internal Commands for internal use

---

errors Show MLD errors

---

## Command Mode

- /exec



## show ipv6 mld internal m6rib

```
show ipv6 [ icmp ] mld internal { m6rib-txlist [ vrf { <vrf-name> | <vrf-known-name> | all } ] | m6rib-buffers
}
```

### Syntax Description

Syntax Description		
show	Show running system information	
ipv6	Display IPv6 information	
icmp	(Optional) Display ICMPv6 information	
mld	Display Multicast Listener Discovery information	
internal	Commands for internal use	
m6rib-txlist	Show M6RIB transmission-list 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 MLD VRFs	
m6rib-buffers	Show M6RIB route buffer information	

### 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

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
local-groups	Display MLD local group membership information
<i>interface</i>	(Optional) Display group membership on interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_entry	(Optional)
<i>static-oif</i>	(Optional)
<i>local-group</i>	(Optional)
<i>if-name</i>	(Optional)
<i>last-reported</i>	(Optional)

### Command Mode

- /exec

# show ipv6 mld route internal

```
show ipv6 [ icmp ] mld route internal [ static ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

Syntax Description	show	Show running system information
	ipv6	Display IPv6 information
	icmp	(Optional) Display ICMPv6 information
	mld	Display Multicast Listener Discovery information
	route	Show internal MLD route cache
	internal	Commands for internal use
	static	(Optional) Show static OIFs
	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 mld vrf all

```
show ipv6 [ icmp ] mld vrf all
```

## Syntax Description

Syntax Description	
show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
vrf	Display per-VRF information
all	Display MLD VRFs

## Command Mode

- /exec

## show ipv6 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

#### Syntax Description

show	Show running system information
ipv6	Display IPV6 information
mtu	Display IPV6 Path MTU Cache
statistics	(Optional) Display non-TCP Path MTU Statistics
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display IPV6 Path MTU Cache with detail
__readonly__	(Optional)
TABLE_mtu_stat	(Optional)
<i>out-ent</i>	(Optional)
<i>exp-ent</i>	(Optional)
<i>purge-ent</i>	(Optional)
<i>int-err</i>	(Optional)
<i>pkt-too-big</i>	(Optional)
<i>cache-miss</i>	(Optional)
<i>cache-upd</i>	(Optional)
<i>mtu-small</i>	(Optional)
<i>cache-no-upd</i>	(Optional)
TABLE_mtu_vrf	(Optional)
<i>tot-ipv6-mtu</i>	(Optional)
TABLE_one_mtu	(Optional)

---

*pmtu-cntxt* (Optional)

---

*mtu-cache* (Optional)

---

*up-time* (Optional)

---

*iod-lcache* (Optional)

---

**Command Mode**

- /exec

## show ipv6 nd ra dns search-list

```
show ipv6 nd ra dns search-list [ interface <interface> ] [ __readonly__ { TABLE_intf <intf_name>
<dns_supress_server_list> [ { TABLE_list <list_no> <list_name> [ { <finite> | <infinite> } ] <seq_no> } ]
} ]
```

### Syntax Description

Syntax Description		
show		Show running system information
ipv6		Display IPv6 information
nd		ICMPv6 Neighbor Discovery commands
ra		Router Advertisement
dns		Domain Name System
search-list		DNS Search List
interface		(Optional) Display DNS Search List information on interface
<i>interface</i>		(Optional) Interface name to display
<i>__readonly__</i>		(Optional)
TABLE_intf		(Optional) IPV6 Interface name
<i>intf_name</i>		(Optional) Interface name
<i>dns_supress_server_list</i>		(Optional) DNS Supress server list
TABLE_list		(Optional) Search list
<i>list_no</i>		(Optional) Search list number
<i>list_name</i>		(Optional) Search list name
<i>finite</i>		(Optional) Search list life time
<i>infinite</i>		(Optional) Search list infinte time
<i>seq_no</i>		(Optional) Search list sequence number

### Command Mode

- /exec

## show ipv6 nd ra dns server

```
show ipv6 nd ra dns server [ interface <interface> ] [ __readonly__ { TABLE_intf <intf_name>
<dns_supress_server_list> [ { TABLE_list <dns_server> <dns_addr> [ { <finite> | <infinite> } ] } ] <seq_no>
} ] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
server	Domain Name System Server
interface	(Optional) Display Recursive DNS Server List information on interface
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional) IPV6 Interface name
<i>intf_name</i>	(Optional) Interface name
<i>dns_supress_server_list</i>	(Optional) DNS Supress server list
TABLE_list	(Optional) Search list
<i>dns_server</i>	(Optional) DNS server number
<i>dns_addr</i>	(Optional) DNS server address
<i>finite</i>	(Optional) DNS server life time
<i>infinite</i>	(Optional) DNS server time infinte
<i>seq_no</i>	(Optional) DNS server sequence number

### Command Mode

- /exec



# show ipv6 nd rt-pref global pt

show ipv6 nd rt-pref global pt

## Syntax Description

Syntax	Description
show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
rt-pref	Router Preference
global	Global
pt	PTREE

## Command Mode

- /exec

# show ipv6 ndp

show ipv6 ndp

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

ipv6 Display IPv6 information

---

ndp Show IPv6 neighbors from netstack

---

## Command Mode

- /exec

## show ipv6 neighbor static

```
show ipv6 neighbor static [ interface <interface> ] [ __readonly__ [ TABLE_i6_nei { <nei-ipv6> <nei-mac>
<nei-iod> <nei-if-iod> } ] [ <tot-nei-ent> ] [ TABLE_nei_cnt { <nei-ipv6-tot> <nei-mac-tot> <nei-iod-tot>
<nei-if-iod-tot> } ] ]
```

### Syntax Description

#### 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)
<i>TABLE_i6_nei</i>	(Optional)
<i>nei-mac</i>	(Optional)
<i>nei-iod</i>	(Optional)
<i>nei-if-iod</i>	(Optional)
<i>tot-nei-ent</i>	(Optional)
<i>TABLE_nei_cnt</i>	(Optional)
<i>nei-mac-tot</i>	(Optional)
<i>nei-iod-tot</i>	(Optional)
<i>nei-if-iod-tot</i>	(Optional)

### Command Mode

- /exec

# show ipv6 pim bitfield

show ipv6 pim bitfield

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

ipv6 Display IPv6 information

---

pim Display PIM6 status and configuration

---

bitfield Display compressed bitfield details

---

## Command Mode

- /exec

## show ipv6 pim df

```
show ipv6 pim df [ <rp-or-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
<out-context> { TABLE_rp <rp-addr> <df-ordinal> <df-bits> <df-bits-count> <metric-pref> <metric> {
TABLE_grange <grange-grp> <grange-masklen> } { TABLE_iod <if-name> <df-winner> <df-state>
<winner-metric-pref> <winner-metric> <uptime> <is-rpf> } } ]
```

### Syntax Description

#### 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
<i>__readonly__</i>	(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)

---

*uptime* (Optional)

---

*is-rpf* (Optional)

---

**Command Mode**

- /exec

# show ipv6 pim embed-rp

show ipv6 pim embed-rp <group>

## Syntax Description

Syntax	Description
show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
embed-rp	Display Embed-RP group address mapping

## Command Mode

- /exec

# show ipv6 pim event-history

show ipv6 pim [ internal ] event-history { errors | msgs | <pim6-event-hist-buf-name> | statistics }

## Syntax Description

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

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

Syntax Description		
show		Show running system information
ipv6		Display IPv6 information
pim		Display PIM6 status and configuration
fabric		Fabric functionality
legacy-vlans		Show legacy VLANs on this switch
<i>__readonly__</i>		(Optional)
<i>TABLE_legacy_vlan</i>		(Optional)
<i>vlan_id</i>		(Optional)

### Command Mode

- /exec

## show ipv6 pim group-range

```
show ipv6 pim group-range [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
<out-context> { TABLE_group <grp-addr> <invalid-grp> <mode> <rp-addr> <sh-tree-only-range> } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
ipv6	Display IPv6 information	
pim	Display PIM6 status and configuration	
group-range	Display the various group ranges	
vrf	(Optional) Display per-VRF information	
<i>vrf-name</i>	(Optional) VRF name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
all	(Optional) Display information for all VRFs	
__readonly__	(Optional)	
<i>out-context</i>	(Optional)	
TABLE_group	(Optional)	
<i>invalid-grp</i>	(Optional)	
<i>mode</i>	(Optional)	

### Command Mode

- /exec

## show ipv6 pim interface show ipv6 pim interface

```
show ipv6 pim interface <interface> | show ipv6 pim interface [ brief ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ <out-context> { TABLE_iod <if-name> <if-addr> <dr> <nbr-cnt> <is-border>
<is-iface-in-cib> <is-pim-enabled> <if-addr-summary> <if-status> <dr-priority> <no-dr-priority>
<hello-interval-sec> <hello-interval-msec> <hello-timer> <holdtime-sec> <holdtime-msec> <genid>
<isauth-config> <is-passive> <nbr-policy-name> <jp-in-policy-name> <jp-out-policy-name> <last-cleared>
<hello-sent> <hello-rcvd> <jp-sent> <jp-rcvd> <assert-sent> <assert-rcvd> <graft-sent> <graft-rcvd>
<graft-ack-sent> <graft-ack-rcvd> <df-offer-sent> <df-offer-rcvd> <df-winner-sent> <df-winner-rcvd>
<df-backoff-sent> <df-backoff-rcvd> <pass-sent> <pass-rcvd> <cksum-errors> <invalid-errors>
<invalid-df-errors> <auth-failed> <pak-len-errors> <ver-errors> <pkts-self> <pkts-non-nbr> <pkts-on-passive>
<jp-rcvd-on-rpf> <jp-rcvd-no-rp> <jp-rcvd-wrong-rp> <jp-rcvd-for-ssm> <jp-rcvd-for-bidir>
<jp-in-policy-filter> <jp-out-policy-filter> } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
interface	Display PIM6 interface related information
<i>interface</i>	Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>nbr-cnt</i>	(Optional)
<i>is-iface-in-cib</i>	(Optional)
<i>is-pim-enabled</i>	(Optional)
<i>is-border</i>	(Optional)
<i>if-addr-summary</i>	(Optional)

<i>if-status</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)
<i>hello-interval-sec</i>	(Optional)
<i>hello-interval-msec</i>	(Optional)
<i>hello-timer</i>	(Optional)
<i>holdtime-sec</i>	(Optional)
<i>holdtime-msec</i>	(Optional)
<i>genid</i>	(Optional)
<i>isauth-config</i>	(Optional)
<i>is-passive</i>	(Optional)
<i>nbr-policy-name</i>	(Optional)
<i>jp-in-policy-name</i>	(Optional)
<i>jp-out-policy-name</i>	(Optional)
<i>last-cleared</i>	(Optional)
<i>hello-sent</i>	(Optional)
<i>hello-rcvd</i>	(Optional)
<i>jp-sent</i>	(Optional)
<i>jp-rcvd</i>	(Optional)
<i>assert-sent</i>	(Optional)
<i>assert-rcvd</i>	(Optional)
<i>graft-sent</i>	(Optional)
<i>graft-rcvd</i>	(Optional)
<i>graft-ack-sent</i>	(Optional)
<i>graft-ack-rcvd</i>	(Optional)
<i>df-offer-sent</i>	(Optional)
<i>df-offer-rcvd</i>	(Optional)
<i>df-winner-sent</i>	(Optional)
<i>df-winner-rcvd</i>	(Optional)

---

*df-backoff-sent* (Optional)

---

*df-backoff-rcvd* (Optional)

---

*pass-sent* (Optional)

---

*pass-rcvd* (Optional)

---

*cksum-errors* (Optional)

---

*invalid-errors* (Optional)

---

*invalid-df-errors* (Optional)

---

*auth-failed* (Optional)

---

*pak-len-errors* (Optional)

---

*ver-errors* (Optional)

---

*pkts-self* (Optional)

---

*pkts-non-nbr* (Optional)

---

*pkts-on-passive* (Optional)

---

*jp-rcvd-on-rpf* (Optional)

---

*jp-rcvd-no-rp* (Optional)

---

*jp-rcvd-wrong-rp* (Optional)

---

*jp-rcvd-for-ssm* (Optional)

---

*jp-rcvd-for-bidir* (Optional)

---

*jp-in-policy-filter* (Optional)

---

*jp-out-policy-filter* (Optional)

---

#### Command Mode

- /exec

# show ipv6 pim internal

show ipv6 pim internal

## Syntax Description

Syntax	Description
show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
internal	Commands for internal use

## Command Mode

- /exec

# show ipv6 pim internal buffers

```
show ipv6 pim internal buffers [ { [ all <count> ] [ free <count> ] } ]
```

## Syntax Description

Syntax	Description
show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
internal	Commands for internal use
buffers	Display detailed buffer statistics
all	(Optional) Dump buffers from ALL list
free	(Optional) Dump buffers from FREE list
count	(Optional) Number of buffers to dump

## Command Mode

- /exec



# show ipv6 pim internal errors

show ipv6 pim internal errors

## Syntax Description

Syntax	Description
show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
internal	Commands for internal use
errors	Show PIM6 errors

## Command Mode

- /exec

# show ipv6 pim internal library-info

show ipv6 pim internal library-info

## Syntax Description

Syntax	Description
show	Show running system information
ipv6	Display IPv6 information
pim	PIM6 global configuration commands
internal	Commands for internal use
library-info	Show various event logs of library

## Command Mode

- /exec

# show ipv6 pim internal mem-stats

show ipv6 pim internal mem-stats [ shared | all ] [ no-libs ] [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
internal	Commands for internal use
mem-stats	Show memory allocation statistics
shared	(Optional) Display shared memory statistics
all	(Optional) Display private and shared memory statistics
no-libs	(Optional) Exclude libraries
detail	(Optional) Display detailed information

## Command Mode

- /exec

## show ipv6 pim internal pss-dump df-states

```
show ipv6 pim internal pss-dump df-states [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
internal	Commands for internal use
pss-dump	Display info stored in PSS
df-states	DF elected winner / loser 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

### 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

Syntax Description	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> } ]
<sgpr-prune-list-count> [ { TABLE_sgrprunelist <sgprunelistoif-name> } ] }
```

### Syntax Description

Syntax Description	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

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	PIM6 global configuration commands
policy	Policy related information
statistics	Policy statistics
jp-policy	Statistics for jp-policy
neighbor-policy	Statistics for neighbor-policy
<i>interface</i>	Interface to display policy statistics for
<i>__readonly__</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

### Command Mode

- /exec



## show ipv6 pim route

```
show ipv6 pim route { [ bitfield ] | <source> <group> | <group> [ <source> ] [ bitfield ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <context-name> <route-count> [ TABLE_one_route
<mcast-addr> [ <rp-addr> <rp-local> ] <bidir> <sgexpire> <is-fabricowned> [ <sgexpire> ] [ <timeleft> ]
<rp-bit> [ <register> ] [ <assert-timeout> ] <intf-name> <rpf-nbr-1> <rpf-nbr-addr> <rpf-nbr-2> [ <metric-pref>
<route-metric> ] [ <oif-count> ] [ <oif-bf-str> ] [ <timeout-count> ] [ <timeout-bf-str> ] [ <immediate-count>
] [ <immediate-bf-str> ] [ <immediate-timeout-count> ] [ <immediate-timeout-bf-str> ] [ <sgr-prune-list-count>
] [ <sgr-prune-list-bf-str> ] [ <timeout-interval> <jp-holdtime-rndup> ] ] ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
route	Display PIM6 specific route information
bitfield	(Optional) Display details of each bitfield for PIM6 route
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>context-name</i>	(Optional)
<i>route-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>mcast-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>rp-local</i>	(Optional)
<i>bidir</i>	(Optional)
<i>sgexpire</i>	(Optional)
<i>is-fabricowned</i>	(Optional)
<i>sgexpire</i>	(Optional)

<i>timeleft</i>	(Optional)
<i>rp-bit</i>	(Optional)
<i>register</i>	(Optional)
<i>assert-timeout</i>	(Optional)
<i>intf-name</i>	(Optional)
<i>rpf-nbr-1</i>	(Optional)
<i>rpf-nbr-addr</i>	(Optional)
<i>rpf-nbr-2</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>route-metric</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oif-bf-str</i>	(Optional)
<i>timeout-count</i>	(Optional)
<i>timeout-bf-str</i>	(Optional)
<i>immediate-count</i>	(Optional)
<i>immediate-bf-str</i>	(Optional)
<i>immediate-timeout-count</i>	(Optional)
<i>immediate-timeout-bf-str</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
<i>sgr-prune-list-bf-str</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>jp-holdtime-rndup</i>	(Optional)

### Command Mode

- /exec

# show ipv6 pim route internal

```
show ipv6 pim route internal [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ipv6		Display IPv6 information
pim		PIM6 global configuration commands
internal		Commands for internal use
route		Display PIM6 internal route cache
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs

## Command Mode

- /exec

## show ipv6 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

#### 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

## show ipv6 pim rp

```
show ipv6 pim rp [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-context>
<is-bsr-enabled> <is-bsr-listen-only> <is-bsr-forward-only> <are-we-bsr> <bsr-address> <is-bsr-address>
<bsr-priority> <bsr-hash-masklen> <bs-timer> <bsr-uptime> <bsr-expires> <is-autorp-enabled>
<is-autorp-listen-only> <is-autorp-forward-only> <are-we-autorp> <autorp-address> <is-autorp-address>
<autorp-dis-timer> <autorp-up-time> <autorp-expire-time> <rp-cand-policy-name> <bsr-policy-name>
<rp-announce-policy-name> <rp-discovery-policy-name> { TABLE_anycast_rp <anycast-rp-addr> {
TABLE_arp_rp <arp-rp-addr> <is-rpaddr-local> } } { TABLE_rp <rp-addr> <is-rp-in-cib> <df-ordinal>
<rp-uptime> <rp-priority> <autorp-expires> <bsr-rp-expires> <autorp-info-src> <bsr-info-src> <is-rp-static>
<static-rp-group-map> { TABLE_grange <grange-grp> <grange-masklen> <is-bidir-grp> <is-autorp-rp-owner>
<is-bsr-rp-owner> <is-static-rp-owner> } } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
rp	Display PIM6 RP, Auto-RP, and BSR related information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
<i>is-bsr-enabled</i>	(Optional)
<i>is-bsr-listen-only</i>	(Optional)
<i>is-bsr-forward-only</i>	(Optional)
<i>are-we-bsr</i>	(Optional)
<i>is-bsr-address</i>	(Optional)
<i>bsr-priority</i>	(Optional)
<i>bsr-hash-masklen</i>	(Optional)
<i>bs-timer</i>	(Optional)
<i>bsr-uptime</i>	(Optional)
<i>bsr-expires</i>	(Optional)

<i>is-atorp-enabled</i>	(Optional)
<i>is-atorp-listen-only</i>	(Optional)
<i>is-atorp-forward-only</i>	(Optional)
<i>are-we-atorp</i>	(Optional)
<i>is-atorp-address</i>	(Optional)
<i>atorp-dis-timer</i>	(Optional)
<i>atorp-up-time</i>	(Optional)
<i>atorp-expire-time</i>	(Optional)
<i>rp-cand-policy-name</i>	(Optional)
<i>bsr-policy-name</i>	(Optional)
<i>rp-announce-policy-name</i>	(Optional)
<i>rp-discovery-policy-name</i>	(Optional)
TABLE_anycast_rp	(Optional)
TABLE_arp_rp	(Optional)
<i>is-rpaddr-local</i>	(Optional)
TABLE_rp	(Optional)
<i>is-rp-in-cib</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rp-uptime</i>	(Optional)
<i>rp-priority</i>	(Optional)
<i>atorp-expires</i>	(Optional)
<i>bsr-rp-expires</i>	(Optional)
<i>is-rp-static</i>	(Optional)
<i>static-rp-group-map</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-masklen</i>	(Optional)
<i>is-bidir-grp</i>	(Optional)
<i>is-atorp-rp-owner</i>	(Optional)
<i>is-bsr-rp-owner</i>	(Optional)

---

*is-static-rp-owner* (Optional)

---

**Command Mode**

- /exec

## show ipv6 pim statistics

```
show ipv6 pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <uptime> <reg-sent>
<reg-rcvd> <null-reg-sent> <null-reg-rcvd> <reg-stop-sent> <reg-stop-rcvd> <reg-rcvd-not-rp>
<reg-rcvd-for-ssm> <reg-rcvd-for-bidir> <bootstrap-sent> <bootstrap-rcvd> <cand-rp-sent> <cand-rp-rcvd>
<bs-no-nbr> <bs-border-deny> <bs-len-errors> <bs-rpf-failed> <bs-no-listen> <candrp-border-deny>
<candrp-no-listen> <autorp-announce-sent> <autorp-announce-rcvd> <autorp-discovery-sent>
<autorp-discovery-rcvd> <autorp-rpf-failed> <autorp-border-deny> <autorp-invalid-type> <autorp-ttl-expired>
<autorp-no-listen> <ctrl-no-route> <data-no-route> <no-state> <create-state> ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
statistics	Packet counter statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>uptime</i>	(Optional)
<i>reg-sent</i>	(Optional)
<i>reg-rcvd</i>	(Optional)
<i>null-reg-sent</i>	(Optional)
<i>null-reg-rcvd</i>	(Optional)
<i>reg-stop-sent</i>	(Optional)
<i>reg-stop-rcvd</i>	(Optional)
<i>reg-rcvd-not-rp</i>	(Optional)
<i>reg-rcvd-for-ssm</i>	(Optional)
<i>reg-rcvd-for-bidir</i>	(Optional)
<i>bootstrap-sent</i>	(Optional)
<i>bootstrap-rcvd</i>	(Optional)



<i>cand-rp-sent</i>	(Optional)
<i>cand-rp-rcvd</i>	(Optional)
<i>bs-no-nbr</i>	(Optional)
<i>bs-border-deny</i>	(Optional)
<i>bs-len-errors</i>	(Optional)
<i>bs-rpf-failed</i>	(Optional)
<i>bs-no-listen</i>	(Optional)
<i>candrp-border-deny</i>	(Optional)
<i>candrp-no-listen</i>	(Optional)
<i>autorp-announce-sent</i>	(Optional)
<i>autorp-announce-rcvd</i>	(Optional)
<i>autorp-discovery-sent</i>	(Optional)
<i>autorp-discovery-rcvd</i>	(Optional)
<i>autorp-rpf-failed</i>	(Optional)
<i>autorp-border-deny</i>	(Optional)
<i>autorp-invalid-type</i>	(Optional)
<i>autorp-ttl-expired</i>	(Optional)
<i>autorp-no-listen</i>	(Optional)
<i>ctrl-no-route</i>	(Optional)
<i>data-no-route</i>	(Optional)
<i>no-state</i>	(Optional)
<i>create-state</i>	(Optional)

**Command Mode**

- /exec

# show ipv6 pim vrf

```
show ipv6 pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail ] [ __readonly__ TABLE_context
<out-context> <context-id> <table-id> <count> ]
```

## Syntax Description

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	
__readonly__	(Optional)	
TABLE_context	(Optional)	
<i>out-context</i>	(Optional)	
<i>context-id</i>	(Optional)	
<i>table-id</i>	(Optional)	
<i>count</i>	(Optional)	

## Command Mode

- /exec

# show ipv6 policy

```
show ipv6 policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_pbr <interface>
<rmap> <status> <vrf_name> ]
```

## Syntax Description

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

#### 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)
<i>TABLE_ipv6_pfl</i>	(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

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
process	Display IPv6 global information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
<i>__readonly__</i>	(Optional)
TABLE_ipv6_all	(Optional)
<i>cnxt-name</i>	(Optional)
<i>cnxt-id</i>	(Optional)
TABLE_ipv6	(Optional)
<i>ipv6-vrf</i>	(Optional)
<i>ipv6-vrf-id</i>	(Optional)
<i>auto-disc</i>	(Optional)
<i>auto-add</i>	(Optional)
<i>sta-disc</i>	(Optional)
<i>sta-def</i>	(Optional)
<i>ipv6-unreach</i>	(Optional)
TABLE_iod	(Optional)
<i>iod-val</i>	(Optional)
<i>iod-ifind</i>	(Optional)
TABLE_ipv6_nxt	(Optional)

**Command Mode**

- /exec

# show ipv6 process sdb

show ipv6 process sdb

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	ipv6	Display IPv6 information
	process	Display IPv6 global information
	sdb	Dump IPv6 sdb in a file

## Command Mode

- /exec

# show ipv6 raguard statistics

```
show ipv6 raguard statistics [ interface <intf-range> ] [ __readonly__ <msg_stats_hdr> <intf2> <rx_pkts>
<drop_count> ]
```

## Syntax Description

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 } ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
isis	Intermediate-to-intermediate (ISIS)
src-rip	Routing Information Protocol (RIP)
ospfv3	Open Shortest Path First (OSPFv3)
lisp	LISP EID-prefixes
<i>tag</i>	Process tag
direct	Directly connected routes
static	Static routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

## Command Mode

- /exec

## show ipv6 route

```
show { { ipv6 route } | { routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [
topology <topology-name> ] } } [ l3vm-info ] [ rpf ] [ <ipv6-addr> | <hostname> | { <ipv6-prefix> [ {
longer-prefixes | shorter-prefixes } ] ] [ { <ipv6-protocol> [ all ] } | { 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> <ifname> <pref> <metric> <uptime> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <hidden>
] [ TABLE_summary <routes> <paths> [ <multicast_paths> ] [ TABLE_unicast [ <clientname> ] [ <best-paths>
] [ <backup-paths> ] ] [ TABLE_multicast [ <clientname> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_route_count [ <mask_len> ] [ <count> ] ] ] ] ]
```

### Syntax Description

Syntax Description	show	Show running system information
	route	Display IPv6 routing table
	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
	l3vm-info	(Optional) Display corresponding L3VM information
	rpf	(Optional) Display RPF information for multicast source
	<i>hostname</i>	(Optional) Display single route longest match lookup
	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
	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
<i>updated</i>	(Optional) Display routes filtered by last updated time
<i>since</i>	(Optional) Display those routes updated since this time
<i>stime</i>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
<i>until</i>	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
<i>summary</i>	(Optional) Display route counts
<i>deleted</i>	(Optional) Display delete-pending routes also
<i>detail</i>	(Optional) Display routes in full detail
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>TABLE_addrf</i>	(Optional)
<i>addrf</i>	(Optional)
<i>TABLE_prefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
<i>TABLE_path</i>	(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)
TABLE_summary	(Optional)
<i>routes</i>	(Optional)
<i>paths</i>	(Optional)
<i>multicast_paths</i>	(Optional)
TABLE_unicast	(Optional)
<i>clientname</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientname</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



<i>reach-time</i>	(Optional)
<i>retrans-time</i>	(Optional)
TABLE_prefix_ipv6	(Optional)
<i>ipv6-prefix</i>	(Optional)
<i>buf-ipv6</i>	(Optional)
<i>buf-autono</i>	(Optional)
<i>valid-life-time</i>	(Optional)
<i>prefer-life</i>	(Optional)

**Command Mode**

- /exec

## show ipv6 static-route

```
show ipv6 static-route [ <prefix> ] [ multicast ] [ track-table ] [ vrf { <vrf-name> | <vrf-known-name> | all }
] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_route <prefix-out> <next-hop> <intf-name> <pref>
<real-nh> <has-real-intf> <real-intf-name> TABLE_track-table ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
ipv6	Display IPv6 information	
static-route	Display configured static routes	
multicast	(Optional) Display configured static mroutes	
track-table	(Optional) Display track object details associated with static routes	
all	(Optional) Display all VRFs	
vrf	(Optional) Display per-VRF information	
<i>vrf-name</i>	(Optional) VRF name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
<i>__readonly__</i>	(Optional)	
TABLE_vrf	(Optional)	
<i>vrf-name-out</i>	(Optional)	
TABLE_route	(Optional)	
<i>intf-name</i>	(Optional)	
<i>pref</i>	(Optional)	
<i>has-real-intf</i>	(Optional)	
<i>real-intf-name</i>	(Optional)	
TABLE_track-table	(Optional)	

### Command Mode

- /exec

# show ipv6 statistics

show ipv6 statistics

## Syntax Description

Syntax	Description
show	Show running system information
ipv6	Display IPv6 information
statistics	Display IPv6 global statistics

## Command Mode

- /exec



## show ipv6 traffic

```
show ipv6 traffic [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_ipv6_traffic <uptime> <upkt-fwd> <mpkt-fwd> <ubyte-fwd> <mbyte-fwd>
<upkt-orig> <mpkt-orig> <ubyte-orig> <mbyte-orig> <upkt-consumed> <mpkt-consumed> <ubyte-consumed>
<mbyte-consumed> <ufrag-orig> <mfra-orig> <ufrag-consumed> <mfrag-consumed> <bad-version>
<rt-lookup-fail> <hoplimit-excd> <opt-header-error> <pld-length-too-small> <pm-failed> <mbuf-error>
<could-not-enc> <dest-if-down> ]
```

### Syntax Description

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)	
<i>TABLE_vrf</i>	(Optional)	
<i>vrf-name-out</i>	(Optional)	
<i>TABLE_ipv6_traffic</i>	(Optional)	
<i>uptime</i>	(Optional)	
<i>upkt-fwd</i>	(Optional)	
<i>mpkt-fwd</i>	(Optional)	
<i>ubyte-fwd</i>	(Optional)	
<i>mbyte-fwd</i>	(Optional)	
<i>upkt-orig</i>	(Optional)	
<i>mpkt-orig</i>	(Optional)	
<i>ubyte-orig</i>	(Optional)	
<i>mbyte-orig</i>	(Optional)	
<i>upkt-consumed</i>	(Optional)	
<i>mpkt-consumed</i>	(Optional)	

<i>ubyte-consumed</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>ufrag-orig</i>	(Optional)
<i>mfra-orig</i>	(Optional)
<i>ufrag-consumed</i>	(Optional)
<i>mfrag-consumed</i>	(Optional)
<i>bad-version</i>	(Optional)
<i>rt-lookup-fail</i>	(Optional)
<i>hoplimit-excd</i>	(Optional)
<i>opt-header-error</i>	(Optional)
<i>pld-length-too-small</i>	(Optional)
<i>pm-failed</i>	(Optional)
<i>mbuf-error</i>	(Optional)
<i>could-not-enc</i>	(Optional)
<i>dest-if-down</i>	(Optional)

**Command Mode**

- /exec

# show isis

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ process | protocol ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <instance_num> <uuid>
<process-id> <vrf-name-out> <system-id-out> <is-type-out> <sap-out> <qh-out> <mtu-out> [ <gr-status-out>
] [ <gr-state-active-out> ] [ <gr-state-inactive-out> ] [ <last-gr-status-fail-out> ] [ <last-gr-status-success-out>
] [ <last-gr-status-none-out> ] [ <gr-status-disable-out> ] [ TABLE_afi_safi <af-ix> <af-bfd-config>
<af-pib-tag> ] <metric-style> <accept-metric> [ <net-set-none> ] [ TABLE_area_addr <area-addr-nsap> ] [
<proc-state-not-config> ] [ <proc-state-admin-down> ] [ <proc-state-l3vm-down> ] [
<proc-state-unknown-down> ] [ <proc-state-not-specified> ] [ <proc-state-no-net> ] [ <proc-state-no-vrf-id>
] [ <proc-state-out-memory> ] [ <proc-state-restart> ] [ <proc-state-running> ] <vrf-id-out> [ TABLE_te
<te-lvl-out> <te-lvl-active> ] [ <te-ted-out> ] [ <mpls-te-out> ] [ TABLE_mpls_te [ <mpls-te-lvl-out> ] [
<mpls-te-rtrid-intf-out> ] [ <mpls-te-fa-lvl-out> ] [ TABLE_te_fa <te-fa-sysid-out> <te-fa-intf-out> ] [
<te-stat-sys-id-out> ] [ <te-stat-rtr-id-out> ] [ TABLE_te_stat_lvl <te-stat-lvl-out> <te-stat-up-out>
<te-stat-down-out> ] [ TABLE_iib_list_yeild <intf-name-out> ] [ TABLE_auth <auth-lvl-out> [
<auth-type-no-type> ] [ <auth-type-clear-text> ] [ <auth-type-md5> ] [ <auth-type-key-chain> ] [
<auth-type-none> ] [ <auth-check> ] [ <auth-no-check> ] ] [ TABLE_spf <spf-lvl-out> [ <spf-timer> ] ] ]
```

## Syntax Description

### 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
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>instance_num</i>	(Optional)
<i>uuid</i>	(Optional)
<i>process-id</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>system-id-out</i>	(Optional)

<i>is-type-out</i>	(Optional)
<i>sap-out</i>	(Optional)
<i>qh-out</i>	(Optional)
<i>mtu-out</i>	(Optional)
<i>gr-status-out</i>	(Optional)
<i>gr-state-active-out</i>	(Optional)
<i>gr-state-inactive-out</i>	(Optional)
<i>last-gr-status-fail-out</i>	(Optional)
<i>last-gr-status-success-out</i>	(Optional)
<i>last-gr-status-none-out</i>	(Optional)
<i>gr-status-disable-out</i>	(Optional)
TABLE_afi_safi	(Optional)
<i>af-ix</i>	(Optional)
<i>af-bfd-config</i>	(Optional)
<i>af-pib-tag</i>	(Optional)
<i>metric-style</i>	(Optional)
<i>accept-metric</i>	(Optional)
<i>net-set-none</i>	(Optional)
TABLE_area_addr	(Optional)
<i>area-addr-nsap</i>	(Optional)
<i>proc-state-not-config</i>	(Optional)
<i>proc-state-admin-down</i>	(Optional)
<i>proc-state-l3vm-down</i>	(Optional)
<i>proc-state-unknown-down</i>	(Optional)
<i>proc-state-not-specified</i>	(Optional)
<i>proc-state-no-net</i>	(Optional)
<i>proc-state-no-vrf-id</i>	(Optional)
<i>proc-state-out-memory</i>	(Optional)
<i>proc-state-restart</i>	(Optional)

<i>proc-state-running</i>	(Optional)
<i>vrf-id-out</i>	(Optional)
TABLE_te	(Optional)
<i>te-lvl-out</i>	(Optional)
<i>te-lvl-active</i>	(Optional)
<i>te-ted-out</i>	(Optional)
<i>mpls-te-out</i>	(Optional)
TABLE_mpls_te	(Optional)
<i>mpls-te-lvl-out</i>	(Optional)
<i>mpls-te-rtrid-intf-out</i>	(Optional)
<i>mpls-te-fa-lvl-out</i>	(Optional)
TABLE_te_fa	(Optional)
<i>te-fa-sysid-out</i>	(Optional)
<i>te-fa-intf-out</i>	(Optional)
<i>te-stat-sys-id-out</i>	(Optional)
<i>te-stat-rtr-id-out</i>	(Optional)
TABLE_te_stat_lvl	(Optional)
<i>te-stat-lvl-out</i>	(Optional)
<i>te-stat-up-out</i>	(Optional)
<i>te-stat-down-out</i>	(Optional)
TABLE_iib_list_yeild	(Optional)
<i>intf-name-out</i>	(Optional)
TABLE_auth	(Optional)
<i>auth-lvl-out</i>	(Optional)
<i>auth-type-no-type</i>	(Optional)
<i>auth-type-cleartext</i>	(Optional)
<i>auth-type-md5</i>	(Optional)
<i>auth-type-key-chain</i>	(Optional)
<i>auth-type-none</i>	(Optional)

<i>auth-check</i>	(Optional)
<i>auth-no-check</i>	(Optional)
TABLE_spf	(Optional)
<i>spf-lvl-out</i>	(Optional)
<i>spf-timer</i>	(Optional)

**Command Mode**

- /exec

# show isis adjacency

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] adjacency [ <interface> [ p2p-level-1-2
] ] [ { system-id <sid> } | [ detail ] | [ summary ] } ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <adj-summary-out>
<adj-interface-out> [ <adj-interface-name-out> ] [ { TABLE_process_adj <adj-sys-name-out> <adj-sys-id-out>
[ <adj-usage-out> ] [ <adj-level-out> ] <adj-state-out> <adj-hold-time-out> <adj-intf-name-out>
<adj-detail-set-out> [ { <adj-transitions-out> <adj-flap-out> [ <adj-flap-time-out> ] <adj-ckt-type-out>
<adj-ipv4-addr-out> <adj-ipv6-addr-out> <adj-bcast-out> [ { <adj-ckt-id-out> <adj-lan-prio-out> } ]
<adj-bfd-ipv4-establish-out> <adj-bfd-ipv6-establish-out> <adj-resurrect-out> [ { <adj-resurrect-count-out>
<adj-resurrect-hwm-out> } ] <adj-restart-capable-out> <adj-restart-ack-out> [ { <adj-restart-mode-out>
<adj-restart-adj-seen-ra-out> <adj-restart-adj-seen-csnp-out> <adj-restart-adj-seen-l1-csnp-out>
<adj-restart-adj-seen-l2-csnp-out> <adj-restart-suppress-adj-out> } ] } ] } ] [ { TABLE_p2p_adj_sum
<adj-summ-p2p-level-out> <adj-summ-p2p-state-out> <adj-summ-p2p-count-out> } ] [ { TABLE_lan_adj_sum
<adj-summ-lan-level-out> <adj-summ-lan-state-out> <adj-summ-lan-count-out> } ] } ] }
```

## Syntax Description

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
<i>__readonly__</i>		(Optional)
TABLE_process_tag		(Optional)
<i>process-tag-out</i>		(Optional)
TABLE_vrf		(Optional)

<i>vrf-name-out</i>	(Optional)
<i>adj-summary-out</i>	(Optional)
<i>adj-interface-out</i>	(Optional)
<i>adj-interface-name-out</i>	(Optional)
TABLE_process_adj	(Optional)
<i>adj-sys-name-out</i>	(Optional)
<i>adj-sys-id-out</i>	(Optional)
<i>adj-usage-out</i>	(Optional)
<i>adj-level-out</i>	(Optional)
<i>adj-state-out</i>	(Optional)
<i>adj-hold-time-out</i>	(Optional)
<i>adj-intf-name-out</i>	(Optional)
<i>adj-detail-set-out</i>	(Optional)
<i>adj-transitions-out</i>	(Optional)
<i>adj-flap-out</i>	(Optional)
<i>adj-flap-time-out</i>	(Optional)
<i>adj-ckt-type-out</i>	(Optional)
<i>adj-ipv4-addr-out</i>	(Optional)
<i>adj-ipv6-addr-out</i>	(Optional)
<i>adj-bcast-out</i>	(Optional)
<i>adj-ckt-id-out</i>	(Optional)
<i>adj-lan-prio-out</i>	(Optional)
<i>adj-bfd-ipv4-establish-out</i>	(Optional)
<i>adj-bfd-ipv6-establish-out</i>	(Optional)
<i>adj-resurrect-out</i>	(Optional)
<i>adj-resurrect-count-out</i>	(Optional)
<i>adj-resurrect-hwm-out</i>	(Optional)
<i>adj-restart-capable-out</i>	(Optional)
<i>adj-restart-ack-out</i>	(Optional)



<i>adj-restart-mode-out</i>	(Optional)
<i>adj-restart-adj-seen-ra-out</i>	(Optional)
<i>adj-restart-adj-seen-csnp-out</i>	(Optional)
<i>adj-restart-adj-seen-l1-csnp-out</i>	(Optional)
<i>adj-restart-adj-seen-l2-csnp-out</i>	(Optional)
<i>adj-restart-suppress-adj-out</i>	(Optional)
TABLE_p2p_adj_sum	(Optional)
<i>adj-summ-p2p-level-out</i>	(Optional)
<i>adj-summ-p2p-state-out</i>	(Optional)
<i>adj-summ-p2p-count-out</i>	(Optional)
TABLE_lan_adj_sum	(Optional)
<i>adj-summ-lan-level-out</i>	(Optional)
<i>adj-summ-lan-state-out</i>	(Optional)
<i>adj-summ-lan-count-out</i>	(Optional)

**Command Mode**

- /exec

# show isis csnp

```
show isis [ <isis-tag> ] csnp [ detail ] [ __readonly__ TABLE_process_tag <process-tag-out> [ {
TABLE_CSNPLEVEL <csnp-level> <csnp-cache-valid> <csnp-cache-hit> <cscnp-cache-miss> <csnp-hit-rate>
[ { TABLE_CSNPLSPS <csnp-start-lsp-id> <csnp-end-lsp-id> <csnp-entry-valid> <csnp-pdu-lengh> [ {
TABLE_CSNPONELSP <csnp-lsp-id> <csnp-lsp-seq-num> <csnp-lsp-chk-sum> <csnp-lsp-life-time> } ] }
] } ] }
```

## Syntax Description

### 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)
<i>TABLE_process_tag</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>TABLE_CSNPLEVEL</i>	(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)
<i>TABLE_CSNPLSPS</i>	(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)
<i>TABLE_CSNPONELSP</i>	(Optional)
<i>csnp-lsp-id</i>	(Optional)
<i>csnp-lsp-seq-num</i>	(Optional)

---

*csnp-lsp-chk-sum* (Optional)

---

*csnp-lsp-life-time* (Optional)

---

**Command Mode**

- /exec

## show isis database

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ <level> ] [ detail | advertise
| summary ] [ <lid> ] { [ zero-sequence ] | [ ip prefix <ip-prefix> ] | [ ipv6 prefix <ipv6-prefix> ] | [ router-id
<rid> ] | [ adjacency <adj-id> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ {
TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [ <dbase-hname-absent-out> ] [ {
TABLE_process_lvl <dbase-level-out> [ { TABLE_process_lsp <dbase-lsp-name-out> <dbase-lsp-status-out>
<dbase-lsp-absent-out> [ { <dbase-lsp-seqnum-out> <dbase-lsp-cksum-out> [ <dbase-lsp-lifetime-str-out> ]
[ <dbase-lsp-lifetime-out> ] <dbase-att-out> <dbase-partition-out> <dbase-overload-out> <dbase-istype-out>
} ] [ <dbase-lsp-instance-out> [ { TABLE_process_tlv <dbase-lsp-tlv-name-out> [ <dbase-lsp-area-addr-out>
] [ <dbase-lsp-is-nbr-name-out> ] [ <dbase-lsp-is-nbr-metric-out> ] [ <dbase-lsp-is-nbr-ext-metric-out> ] [
<dbase-lsp-es-nbr-name-out> ] [ <dbase-lsp-es-nbr-metric-out> ] [ <dbase-lsp-es-nbr-ext-metric-out> ] [
<dbase-lsp-auth-type-out> ] [ <dbase-lsp-auth-len-out> ] [ <dbase-lsp-ext-is-name-out> ] [
<dbase-lsp-ext-is-metric-out> ] [ <dbase-lsp-ip-ri-addr-out> ] [ <dbase-lsp-ip-ri-mask-out> ] [
<dbase-lsp-ip-ri-metric-out> ] [ <dbase-lsp-ip-ri-ext-metric-out> ] [ <dbase-lsp-ip-ri-up-down-out> ] [ {
TABLE_process_nlpid <dbase-lsp-prot-support-out> } ] [ <dbase-lsp-ip-addr-out> ] [ <dbase-lsp-ipv6-addr-out>
] [ { TABLE_process_extip <dbase-lsp-extip-addr-out> <dbase-lsp-extip-prefix-len-out>
<dbase-lsp-extip-metric-out> <dbase-lsp-extip-up-down-out> } ] [ <dbase-lsp-hname-out> ] [
<dbase-lsp-hname-len-out> ] [ { TABLE_process_extipv6 <dbase-lsp-extipv6-addr-out>
<dbase-lsp-extipv6-prefix-len-out> <dbase-lsp-extipv6-metric-out> <dbase-lsp-extipv6-up-down-out>
<dbase-lsp-extipv6-ext-origin-out> } ] [ <dbase-lsp-tlv-len-out> ] [ <dbase-lsp-tlv-unknown-out> ] [ {
TABLE_process_subtlv <dbase-lsp-subtlv-name-out> [ <dbase-lsp-extis-admin-group-out> ] [
<dbase-lsp-subtlv-ip-addr-out> ] [ <dbase-lsp-extis-bw-out> ] [ <dbase-lsp-extis-pri1-out> ] [
<dbase-lsp-extis-pri1-val-out> ] [ <dbase-lsp-extis-pri2-out> ] [ <dbase-lsp-extis-pri2-val-out> ] [
<dbase-lsp-extis-te-metric-out> ] [ <dbase-lsp-subtlv-len-out> ] [ <dbase-lsp-subtlv-unknown-out> ] } } ]
<dbase-lsp-digest-out> } } ] [ { <dbase-lsp-total-out> [ { <dbase-lsp-empty-out> <dbase-lsp-zeroseq-out>
} } ] } } ] }
```

### Syntax Description

#### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Display IS-IS database information
<i>level</i>	(Optional) IS-IS level
<i>lid</i>	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
detail	(Optional) Display detailed IS-IS information

advertise	(Optional) Display advertise tlv lsp-memory information
summary	(Optional) Display summary IS-IS information
zero-sequence	(Optional) LSP with zero sequence number
ip	(Optional) IP attribute filter
ipv6	(Optional) IPv6 attribute filter
prefix	(Optional) Prefix filter
<i>ip-prefix</i>	(Optional) Single exact match IP prefix filter
adjacency	(Optional) Adjacency filter
<i>adj-id</i>	(Optional) Single exact match adjacency filter
router-id	(Optional) Router-id filter
<i>rid</i>	(Optional) single exact match router-id filter
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>dbase-hname-absent-out</i>	(Optional)
TABLE_process_lvl	(Optional)
<i>dbase-level-out</i>	(Optional)
TABLE_process_lsp	(Optional)
<i>dbase-lsp-name-out</i>	(Optional)
<i>dbase-lsp-status-out</i>	(Optional)
<i>dbase-lsp-absent-out</i>	(Optional)
<i>dbase-lsp-seqnum-out</i>	(Optional)
<i>dbase-lsp-cksum-out</i>	(Optional)
<i>dbase-lsp-lifetime-str-out</i>	(Optional)
<i>dbase-lsp-lifetime-out</i>	(Optional)
<i>dbase-att-out</i>	(Optional)
<i>dbase-partition-out</i>	(Optional)

<i>dbase-overload-out</i>	(Optional)
<i>dbase-istype-out</i>	(Optional)
<i>dbase-lsp-instance-out</i>	(Optional)
TABLE_process_tlv	(Optional)
<i>dbase-lsp-tlv-name-out</i>	(Optional)
<i>dbase-lsp-area-addr-out</i>	(Optional)
<i>dbase-lsp-is-nbr-name-out</i>	(Optional)
<i>dbase-lsp-is-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-is-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-name-out</i>	(Optional)
<i>dbase-lsp-es-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-auth-type-out</i>	(Optional)
<i>dbase-lsp-auth-len-out</i>	(Optional)
<i>dbase-lsp-ext-is-name-out</i>	(Optional)
<i>dbase-lsp-ext-is-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-addr-out</i>	(Optional)
<i>dbase-lsp-ip-ri-mask-out</i>	(Optional)
<i>dbase-lsp-ip-ri-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-ext-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-up-down-out</i>	(Optional)
TABLE_process_nlpid	(Optional)
<i>dbase-lsp-prot-support-out</i>	(Optional)
<i>dbase-lsp-ip-addr-out</i>	(Optional)
<i>dbase-lsp-ipv6-addr-out</i>	(Optional)
TABLE_process_extip	(Optional)
<i>dbase-lsp-extip-addr-out</i>	(Optional)
<i>dbase-lsp-extip-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extip-metric-out</i>	(Optional)

<i>dbase-lsp-extip-up-down-out</i>	(Optional)
<i>dbase-lsp-hname-out</i>	(Optional)
<i>dbase-lsp-hname-len-out</i>	(Optional)
TABLE_process_extipv6	(Optional)
<i>dbase-lsp-extipv6-addr-out</i>	(Optional)
<i>dbase-lsp-extipv6-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extipv6-metric-out</i>	(Optional)
<i>dbase-lsp-extipv6-up-down-out</i>	(Optional)
<i>dbase-lsp-extipv6-ext-origin-out</i>	(Optional)
<i>dbase-lsp-tlv-len-out</i>	(Optional)
<i>dbase-lsp-tlv-unknown-out</i>	(Optional)
TABLE_process_subtlv	(Optional)
<i>dbase-lsp-subtlv-name-out</i>	(Optional)
<i>dbase-lsp-extis-admin-group-out</i>	(Optional)
<i>dbase-lsp-subtlv-ip-addr-out</i>	(Optional)
<i>dbase-lsp-extis-bw-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-val-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-val-out</i>	(Optional)
<i>dbase-lsp-extis-te-metric-out</i>	(Optional)
<i>dbase-lsp-subtlv-len-out</i>	(Optional)
<i>dbase-lsp-subtlv-unknown-out</i>	(Optional)
<i>dbase-lsp-digest-out</i>	(Optional)
<i>dbase-lsp-total-out</i>	(Optional)
<i>dbase-lsp-empty-out</i>	(Optional)
<i>dbase-lsp-zeroseq-out</i>	(Optional)

**Command Mode**

- /exec

# show isis event-history

```
show isis [ <isis-tag> ] [ internal ] event-history { errors | msgs | <isis-event-hist-buf-name> | statistics }
```

## Syntax Description

Syntax Description		
show		Show running system information
isis		Display IS-IS status and configuration
<i>isis-tag</i>		(Optional) Routing process tag
internal		(Optional) Commands for internal use
event-history		Display IS-IS event history
errors		Error history
msgs		Message history
<i>isis-event-hist-buf-name</i>		Event history buffer
statistics		Show the state and size of the buffer

## Command Mode

- /exec



# show isis hostname

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] { hostname | hostname-table } [ detail
] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf <vrf-name-out>
<hname-enabled-out> <hname-detail-out> <hname-level-out> <hname-id-out> <hname-id-mine-out>
<hname-name-out> ]
```

## Syntax Description

Syntax Description	show	Show running system information
	isis	Display IS-IS status and configuration
	<i>isis-tag</i>	(Optional) Routing process tag
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	all	(Optional) Display information for all VRFs
	hostname	Display IS-IS hostname table information
	hostname-table	Display IS-IS hostname table information
	detail	(Optional) Display detailed IS-IS information
	<i>__readonly__</i>	(Optional)
	<i>tag-out</i>	(Optional)
	TABLE_vrf	(Optional)
	<i>vrf-name-out</i>	(Optional)
	<i>hname-enabled-out</i>	(Optional)
	<i>hname-detail-out</i>	(Optional)
	<i>hname-level-out</i>	(Optional)
	<i>hname-id-out</i>	(Optional)
	<i>hname-id-mine-out</i>	(Optional)
	<i>hname-name-out</i>	(Optional)

## Command Mode

- /exec

## show isis interface

```
show isis [<isis-tag>] [vrf {<vrf-name> | <vrf-known-name> | all}] interface [brief | <interface>] [level-1
| level-2] [vrf {<vrf-name> | <vrf-known-name> | all}] [__readonly__ {TABLE_process_tag
<process-tag-out> {TABLE_vrf <vrf-name-out> [ {TABLE_interface [ {<intfb-name-out> <intfb-type-out>
<intfb-ix-out> <intfb-state-out> <intfb-ready-state-out> <intfb-cid-out> <intfb-ckt-type-out> <intfb-mtu-out>
[ {<intf-p2p-metric-lvl-1-out> <intf-p2p-metric-lvl-2-out> <intf-p2p-prio-lvl-1-out> <intf-p2p-prio-lvl-2-out>
<intf-p2p-adj-count-lvl-1-out> <intf-p2p-adj-up-count-lvl-1-out> <intf-p2p-adj-count-lvl-2-out>
<intf-p2p-adj-up-count-lvl-2-out> } ] [ {<intf-loopback-metric-lvl-1-out> <intf-loopback-metric-lvl-2-out>
<intf-loopback-prio-lvl-1-out> <intf-loopback-prio-lvl-2-out> <intf-loopback-adj-count-lvl-1-out>
<intf-loopback-adj-up-count-lvl-1-out> <intf-loopback-adj-count-lvl-2-out>
<intf-loopback-adj-up-count-lvl-2-out> } ] [ {<intf-bcast-metric-lvl-1-out> <intf-bcast-metric-lvl-2-out>
<intf-bcast-prio-lvl-1-out> <intf-bcast-prio-lvl-2-out> <intf-bcast-adj-count-lvl-1-out>
<intf-bcast-adj-up-count-lvl-1-out> <intf-bcast-adj-count-lvl-2-out> <intf-bcast-adj-up-count-lvl-2-out> } ]
} ] [ {<intf-name-out> <intf-status-out> } ] [ {<intf-state-out> <intf-internal-state-out> [
<intf-cib-disabled-out> ] [ <intf-cid-invalid-out> ] } ] [ {TABLE_auth [ {<intf-auth-info-out> [
<intf-auth-kchain-out> ] <intf-auth-chk-info-out> } ] } ] [ {<intf-ix-out> <intf-cid-out> <intf-ckt-type-out>
} ] [ {TABLE_bfd [ <intf-bfd-ipv4-state-out> ] [ <intf-bfd-ipv6-state-out> ] } ] [ <intf-passive-mask-out> ]
[ <intf-passive-mask-lvl-out> ] [ <intf-mgrp-set-out> ] [ <intf-mgrp-state-out> ] [ <intf-mgrp-id-out> ] [
<intf-p2p-type-out> ] [ { <intf-p2p-ext-local-cid-out> <intf-p2p-cid-out> <intf-retx-intv-out>
<intf-retx-throttle-out> } ] [ <intf-loopback-type-out> ] [ { <intf-lsp-intv-out> <intf-mtu-out> [
<intf-hpad-state-out> ] } ] [ { <intf-p2p-pad-ts-out> } ] [ <intf-p2p-adj-count-out> <intf-p2p-adj-up-count-out>
<intf-p2p-prio-out> <intf-p2p-hello-intv-out> <intf-p2p-hello-multi-out> <intf-p2p-hello-next-out> [ {
TABLE_p2p <intf-p2p-lvl-out> <intf-p2p-adj-lvl-out> <intf-p2p-adj-up-lvl-out> <intf-p2p-metric-lvl-out>
<intf-p2p-csnp-lvl-out> <intf-p2p-csnp-nxt-lvl-out> <intf-p2p-lspid-last-lvl-out> } ] ] [ {<intf-bcast-type-out>
[ {TABLE_bcast_pad [ {<intf-bcast-lvl-out> <intf-bcast-pad-ts-out> } ] } ] [ {TABLE_bcast_dis [ {
<intf-bcast-lvl-dis-out> <intf-bcast-dis-ts-out> } ] } ] [ {TABLE_bcast_pkt <intf-bcast-lvl-info-out>
<intf-bcast-lvl-metric-0-out> <intf-bcast-lvl-metric-2-out> <intf-bcast-lvl-csnp-intv-out>
<intf-bcast-lvl-csnp-next-out> <intf-bcast-lvl-iih-intv-out> <intf-bcast-lvl-iih-multi-out>
<intf-bcast-lvl-iih-next-out> } ] [ {TABLE_bcast_adj <intf-bcast-lvl-value-out> <intf-bcast-lvl-adj-out>
<intf-bcast-lvl-adj-up-out> <intf-bcast-lvl-prio-out> <intf-bcast-lvl-ctid-out> <intf-bcast-lvl-ctid-ts-out>
} ] } ] [ {TABLE_loopback <intf-loopback-lvl-out> <intf-loopback-lvl-metric-out> } ] [ <intf-unknown-out>
} ] } ] }
```

### Syntax Description

Syntax Description		
show		Show running system information
isis		Display IS-IS status and configuration
<i>isis-tag</i>		(Optional) Routing process tag
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
all		(Optional) Display information for all VRFs
brief		(Optional) Brief display of IS-IS interfaces

interface	Display IS-IS interface information
level-1	(Optional) Display Level-1 interfaces
level-2	(Optional) Display level-2 interfaces
<i>interface</i>	(Optional) IS-IS interface
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_interface	(Optional)
<i>intf-status-out</i>	(Optional)
<i>intf-name-out</i>	(Optional)
<i>intf-ix-out</i>	(Optional)
<i>intf-state-out</i>	(Optional)
<i>intf-cid-out</i>	(Optional)
<i>intf-ckt-type-out</i>	(Optional)
<i>intfb-name-out</i>	(Optional)
<i>intfb-type-out</i>	(Optional)
<i>intfb-ix-out</i>	(Optional)
<i>intfb-state-out</i>	(Optional)
<i>intfb-ready-state-out</i>	(Optional)
<i>intfb-cid-out</i>	(Optional)
<i>intfb-ckt-type-out</i>	(Optional)
<i>intf-p2p-metric-lvl-1-out</i>	(Optional)
<i>intf-p2p-metric-lvl-2-out</i>	(Optional)
<i>intf-p2p-prio-lvl-1-out</i>	(Optional)
<i>intf-p2p-prio-lvl-2-out</i>	(Optional)
<i>intf-p2p-adj-count-lvl-1-out</i>	(Optional)
<i>intf-p2p-adj-count-lvl-2-out</i>	(Optional)

<i>intf-p2p-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-p2p-adj-up-count-lvl-2-out</i>	(Optional)
<i>intf-loopback-metric-lvl-1-out</i>	(Optional)
<i>intf-loopback-metric-lvl-2-out</i>	(Optional)
<i>intf-loopback-prio-lvl-1-out</i>	(Optional)
<i>intf-loopback-prio-lvl-2-out</i>	(Optional)
<i>intf-loopback-adj-count-lvl-1-out</i>	(Optional)
<i>intf-loopback-adj-count-lvl-2-out</i>	(Optional)
<i>intf-loopback-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-loopback-adj-up-count-lvl-2-out</i>	(Optional)
<i>intf-bcast-metric-lvl-1-out</i>	(Optional)
<i>intf-bcast-metric-lvl-2-out</i>	(Optional)
<i>intf-bcast-prio-lvl-1-out</i>	(Optional)
<i>intf-bcast-prio-lvl-2-out</i>	(Optional)
<i>intf-bcast-adj-count-lvl-1-out</i>	(Optional)
<i>intf-bcast-adj-count-lvl-2-out</i>	(Optional)
<i>intf-bcast-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-bcast-adj-up-count-lvl-2-out</i>	(Optional)
<i>intf-internal-state-out</i>	(Optional)
<i>intf-cib-disabled-out</i>	(Optional)
<i>intf-cid-invalid-out</i>	(Optional)
TABLE_auth	(Optional)
<i>intf-auth-info-out</i>	(Optional)
<i>intf-auth-kchain-out</i>	(Optional)
<i>intf-auth-chk-info-out</i>	(Optional)
TABLE_bfd	(Optional)
<i>intf-bfd-ipv4-state-out</i>	(Optional)
<i>intf-bfd-ipv6-state-out</i>	(Optional)
<i>intf-passive-mask-out</i>	(Optional)

<i>intf-passive-mask-lvl-out</i>	(Optional)
<i>intf-mgrp-set-out</i>	(Optional)
<i>intf-mgrp-state-out</i>	(Optional)
<i>intf-mgrp-id-out</i>	(Optional)
<i>intf-p2p-type-out</i>	(Optional)
<i>intf-p2p-ext-local-cid-out</i>	(Optional)
<i>intf-p2p-cid-out</i>	(Optional)
<i>intf-retx-intv-out</i>	(Optional)
<i>intf-retx-throttle-out</i>	(Optional)
<i>intf-loopback-type-out</i>	(Optional)
<i>intf-lsp-intv-out</i>	(Optional)
<i>intf-mtu-out</i>	(Optional)
<i>intfb-mtu-out</i>	(Optional)
<i>intf-hpad-state-out</i>	(Optional)
<i>intf-p2p-pad-ts-out</i>	(Optional)
<i>intf-p2p-adj-count-out</i>	(Optional)
<i>intf-p2p-adj-up-count-out</i>	(Optional)
<i>intf-p2p-prio-out</i>	(Optional)
<i>intf-p2p-hello-intv-out</i>	(Optional)
<i>intf-p2p-hello-multi-out</i>	(Optional)
<i>intf-p2p-hello-next-out</i>	(Optional)
TABLE_p2p	(Optional)
<i>intf-p2p-lvl-out</i>	(Optional)
<i>intf-p2p-adj-lvl-out</i>	(Optional)
<i>intf-p2p-adj-up-lvl-out</i>	(Optional)
<i>intf-p2p-metric-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-nxt-lvl-out</i>	(Optional)
<i>intf-p2p-lspid-last-lvl-out</i>	(Optional)

<i>intf-bcast-type-out</i>	(Optional)
TABLE_bcast_pad	(Optional)
<i>intf-bcast-lvl-out</i>	(Optional)
<i>intf-bcast-pad-ts-out</i>	(Optional)
TABLE_bcast_dis	(Optional)
<i>intf-bcast-lvl-dis-out</i>	(Optional)
<i>intf-bcast-dis-ts-out</i>	(Optional)
TABLE_bcast_pkt	(Optional)
<i>intf-bcast-lvl-info-out</i>	(Optional)
<i>intf-bcast-lvl-metric-0-out</i>	(Optional)
<i>intf-bcast-lvl-metric-2-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-intv-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-next-out</i>	(Optional)
<i>intf-bcast-lvl-iih-intv-out</i>	(Optional)
<i>intf-bcast-lvl-iih-multi-out</i>	(Optional)
<i>intf-bcast-lvl-iih-next-out</i>	(Optional)
TABLE_bcast_adj	(Optional)
<i>intf-bcast-lvl-value-out</i>	(Optional)
<i>intf-bcast-lvl-adj-out</i>	(Optional)
<i>intf-bcast-lvl-adj-up-out</i>	(Optional)
<i>intf-bcast-lvl-prio-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-ts-out</i>	(Optional)
TABLE_loopback	(Optional)
<i>intf-loopback-lvl-out</i>	(Optional)
<i>intf-loopback-lvl-metric-out</i>	(Optional)
<i>intf-unknown-out</i>	(Optional)

### Command Mode

- /exec

# show isis internal dpi

show isis [ <isis-tag> ] internal dpi

## Syntax Description

<b>Syntax Description</b>	<b>show</b>	Show running system information
	<b>isis</b>	Display IS-IS status and configuration
	<i>isis-tag</i>	(Optional) Routing process tag
	<b>internal</b>	Commands for internal use
	<b>dpi</b>	Show various logs of Deep Packet Inspection

## Command Mode

- /exec

# show isis internal library-info

show isis [ <isis-tag> ] internal library-info

## Syntax Description

Syntax Description		
show		Show running system information
isis		Display IS-IS status and configuration
<i>isis-tag</i>	(Optional)	Routing process tag
internal		Commands for internal use
library-info		Show various event logs of library

## Command Mode

- /exec



# show isis internal mem-stats

```
show isis [ <isis-tag> ] internal mem-stats [ no-libs ] [ detail ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
isis	Display IS-IS status and configuration	
<i>isis-tag</i>	(Optional) Routing process tag	
internal	Commands for internal use	
mem-stats	Show memory allocation statistics	
no-libs	(Optional) Exclude libraries	
detail	(Optional) Display detailed information	

## Command Mode

- /exec

# show isis internal mtr

show isis [ <isis-tag> ] internal mtr

## Syntax Description

Syntax Description	
show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
internal	Commands for internal use
mtr	Show various logs of Multi Topology routing

## Command Mode

- /exec

# show isis internal packet queue counters

show isis [ <isis-tag> ] internal packet queue counters

## Syntax Description

Syntax Description	
show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
internal	Commands for internal use
packet	Show packet counters
queue	Show packet queue counters
counters	Show packet queue statistics

## Command Mode

- /exec

# show isis internal pss

```
show isis [ <isis-tag> ] internal pss { vrf | interface | adjacency | database [ detail ] | traffic-eng { database | link } }
```

## Syntax Description

Syntax Description		
show	Show running system information	
isis	Display IS-IS status and configuration	
<i>isis-tag</i>	(Optional) Routing process tag	
internal	Commands for internal use	
pss	Display IS-IS persistent-pool storage data	
vrf	VRF information	
interface	Interface data	
adjacency	Adjacency data	
database	Database data	
detail	(Optional) Display detailed IS-IS information	
traffic-eng	Traffic-Eng data	
database	Traffic-Eng database data	
link	Traffic-Eng link data	

## Command Mode

- /exec



<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

#### 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

<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>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





detail	(Optional) Display detail route information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
TABLE_prefix	(Optional)
<i>route-prefix-out</i>	(Optional)
<i>route-mask-len-out</i>	(Optional)
<i>route-level-out</i>	(Optional)
<i>route-summ-discard-addr-out</i>	(Optional)
<i>route-summ-discard-mask-len-out</i>	(Optional)
<i>route-discard-addr-out</i>	(Optional)
<i>route-discard-mask-len-out</i>	(Optional)
<i>route-addr-print-out</i>	(Optional)
<i>route-mask-len-print-out</i>	(Optional)
<i>route-direct-print-out</i>	(Optional)
TABLE_direct_path	(Optional)
<i>route-direct-out</i>	(Optional)
<i>route-direct-via-out</i>	(Optional)
<i>route-direct-if-name-out</i>	(Optional)
<i>route-direct-metric-out</i>	(Optional)
<i>route-direct-level-out</i>	(Optional)
<i>route-direct-instance-out</i>	(Optional)
TABLE_best_path	(Optional)
<i>route-no-def-prefix-out</i>	(Optional)
<i>route-def-prefix-out</i>	(Optional)
<i>route-addr-valid-out</i>	(Optional)

<i>route-marker-out</i>	(Optional)
<i>route-ifname-out</i>	(Optional)
<i>route-metric-out</i>	(Optional)
<i>route-pref-out</i>	(Optional)
<i>route-instance-out</i>	(Optional)
<i>route-discard-mask-out</i>	(Optional)
<i>route-sum-prefix-out</i>	(Optional)
<i>route-sum-prefix-len-out</i>	(Optional)
<i>route-total-out</i>	(Optional)
<i>route-paths-total-out</i>	(Optional)
<i>route-paths-best-out</i>	(Optional)
<i>route-paths-backup-out</i>	(Optional)
TABLE_sum_best_route	(Optional)
<i>route-sum-lvl-out</i>	(Optional)
<i>route-sum-total-out</i>	(Optional)
<i>route-sum-direct-out</i>	(Optional)
<i>route-sum-normal-out</i>	(Optional)
<i>route-sum-missing-out</i>	(Optional)
<i>route-best-pend-num-out</i>	(Optional)
<i>route-bestpaths-out</i>	(Optional)
TABLE_sum_best_path	(Optional)
<i>route-path-sum-lvl-out</i>	(Optional)
<i>route-path-sum-total-out</i>	(Optional)
<i>route-path-sum-direct-out</i>	(Optional)
<i>route-path-sum-normal-out</i>	(Optional)
<i>route-backuppaths-out</i>	(Optional)
TABLE_sum_backup_path	(Optional)
<i>backup-path-sum-lvl-out</i>	(Optional)
<i>backup-path-sum-total-out</i>	(Optional)

---

*backup-path-sum-direct-out* (Optional)

---

*backup-path-sum-normal-out* (Optional)

---

*route-bestroutes-per-mask-out* (Optional)

---

TABLE\_best\_mask (Optional)

---

*route-best-mask-val-out* (Optional)

---

*route-best-mask-count-out* (Optional)

---

*route-pend-q-count-out* (Optional)

---

### Command Mode

- /exec

## show isis lsp free-list

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] { non-pseudonode | pseudonode {
<interface> | orphan } } lsp free-list [ summary ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
isis	Display IS-IS status and configuration	
<i>isis-tag</i>	(Optional) Routing process tag	
vrf	(Optional) Display per-VRF information	
<i>vrf-name</i>	(Optional) VRF name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
all	(Optional) Display information for all VRFs	
non-pseudonode	Display IS-IS non-pseudo-node information	
pseudonode	Display IS-IS pseudo-node information	
<i>interface</i>	IS-IS interface	
orphan	Display orphan LSP information	
lsp	Display IS-IS LSP information	
free-list	Display free-list information	
summary	(Optional) Display LSP count per free-list	

### Command Mode

- /exec

## show isis mesh-group

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] mesh-group [ <mesh-id> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf <vrf-name-out>
<mesh-id-set-out> <mesh-id-out> <mesh-set-id-out> <mesh-id-intf-name-out> <mesh-id-none-out> ]
```

### Syntax Description

#### 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)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>mesh-id-set-out</i>	(Optional)
<i>mesh-id-out</i>	(Optional)
<i>mesh-set-id-out</i>	(Optional)
<i>mesh-id-intf-name-out</i>	(Optional)
<i>mesh-id-none-out</i>	(Optional)

### Command Mode

- /exec

## show isis non tlv overflow-list

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] { non-pseudonode | pseudonode
<interface> } tlv overflow-list [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

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

#### Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ip	(Optional) Display IS-IS IPv4 information
<i>ip-addr</i>	(Optional) Display single IP redistribute route
<i>ip-prefix</i>	(Optional) Display single exact match IP redistribute route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
direct-mask	(Optional) Display routes with direct-mask set
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>redist-route-vrf</i>	(Optional)



<i>redist-route-af-ix</i>	(Optional)
TABLE_one_route	(Optional)
<i>redist-route-prefix</i>	(Optional)
<i>redist-route-mask-len</i>	(Optional)
<i>redist-route-pib-name</i>	(Optional)
<i>redist-route-direct-mask</i>	(Optional)
<i>redist-route-route-type</i>	(Optional)
TABLE_redist	(Optional)
<i>redist-route-status</i>	(Optional)
<i>redist-route-level</i>	(Optional)
<i>redist-route-metric</i>	(Optional)
<i>redist-route-sum-addr-prefix</i>	(Optional)
<i>redist-route-sum-addr-mask-len</i>	(Optional)
<i>redist-route-summary-addr-prefix</i>	(Optional)
<i>redist-route-summary-addr-mask-len</i>	(Optional)
<i>redist-route-summary-route-total</i>	(Optional)
TABLE_protocol	(Optional)
<i>redist-route-summary-pib-name</i>	(Optional)
<i>redist-route-summary-prot-route-total</i>	(Optional)
<i>redist-route-summary-pending-total</i>	(Optional)
TABLE_mask_len	(Optional)
<i>redist-route-summary-mask-len-ix</i>	(Optional)
<i>redist-route-summary-mask-len</i>	(Optional)

### Command Mode

- /exec

## show isis route-map statistics

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] route-map statistics { { redistribute
{ static | direct | amt | bgp <as> | { <src-isis> | eigrp | ospf | rip } <tag> } } | { distribute <src-level> into
<dst-level> } } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag
<process-tag-out> { TABLE_vrf <route-map-stat-vrf> [ { TABLE_process_route_map [ <name> ] [ <action>
] [ <seq> ] [ { TABLE_cmd [ <str> ] [ <compare-count> ] [ <match-count> ] } ] <accept-count> <reject-count>
} } } ]
```

### Syntax Description

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



TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
TABLE_prefix	(Optional)
<i>route-prefix-out</i>	(Optional)
<i>route-mask-len-out</i>	(Optional)
<i>route-level-out</i>	(Optional)
<i>route-summ-discard-addr-out</i>	(Optional)
<i>route-summ-discard-mask-len-out</i>	(Optional)
<i>route-discard-addr-out</i>	(Optional)
<i>route-discard-mask-len-out</i>	(Optional)
<i>route-addr-print-out</i>	(Optional)
<i>route-mask-len-print-out</i>	(Optional)
<i>route-direct-print-out</i>	(Optional)
TABLE_direct_path	(Optional)
<i>route-direct-out</i>	(Optional)
<i>route-direct-via-out</i>	(Optional)
<i>route-direct-if-name-out</i>	(Optional)
<i>route-direct-metric-out</i>	(Optional)
<i>route-direct-level-out</i>	(Optional)
<i>route-direct-instance-out</i>	(Optional)
TABLE_best_path	(Optional)
<i>route-no-def-prefix-out</i>	(Optional)
<i>route-def-prefix-out</i>	(Optional)
<i>route-addr-valid-out</i>	(Optional)
<i>route-marker-out</i>	(Optional)
<i>route-ifname-out</i>	(Optional)

<i>route-metric-out</i>	(Optional)
<i>route-pref-out</i>	(Optional)
<i>route-instance-out</i>	(Optional)
<i>route-discard-mask-out</i>	(Optional)
<i>route-sum-prefix-out</i>	(Optional)
<i>route-sum-prefix-len-out</i>	(Optional)
<i>route-total-out</i>	(Optional)
<i>route-paths-total-out</i>	(Optional)
<i>route-paths-best-out</i>	(Optional)
<i>route-paths-backup-out</i>	(Optional)
TABLE_sum_best_route	(Optional)
<i>route-sum-lvl-out</i>	(Optional)
<i>route-sum-total-out</i>	(Optional)
<i>route-sum-direct-out</i>	(Optional)
<i>route-sum-normal-out</i>	(Optional)
<i>route-sum-missing-out</i>	(Optional)
<i>route-best-pend-num-out</i>	(Optional)
<i>route-bestpaths-out</i>	(Optional)
TABLE_sum_best_path	(Optional)
<i>route-path-sum-lvl-out</i>	(Optional)
<i>route-path-sum-total-out</i>	(Optional)
<i>route-path-sum-direct-out</i>	(Optional)
<i>route-path-sum-normal-out</i>	(Optional)
<i>route-backuppaths-out</i>	(Optional)
TABLE_sum_backup_path	(Optional)
<i>backup-path-sum-lvl-out</i>	(Optional)
<i>backup-path-sum-total-out</i>	(Optional)
<i>backup-path-sum-direct-out</i>	(Optional)
<i>backup-path-sum-normal-out</i>	(Optional)

---

*route-bestroutes-per-mask-out* (Optional)

---

TABLE\_best\_mask (Optional)

---

*route-best-mask-val-out* (Optional)

---

*route-best-mask-count-out* (Optional)

---

*route-pend-q-count-out* (Optional)

---

### Command Mode

- /exec

# show isis route is

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] route is [ topology { [ base ] | mt-ipv6 } ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description	show	Show running system information
	isis	Display IS-IS status and configuration
	<i>isis-tag</i>	(Optional) Routing process tag
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	all	(Optional) Display information for all VRFs
	route	Display IS-IS route information
	is	Display IS route
	topology	(Optional) Display routes for a topology
	base	(Optional) Display routes for BASE topology
	mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology

## Command Mode

- /exec



## show isis rrm

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] rrm <interface> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <rrm-if-name> [ { TABLE_rrm <rrm-level> <rrm-retx-interval> <rrm-retx-throttle-interval> <rrm-retx-queue-length> <rrm-next-retx> <rrm-retx-queue-hwm> <rrm-retx-queue-exceed> <rrm-dbase-hdr> [ <rrm-timestamp> ] [ <rrm-lsp-retx-instance> ] [ <rrm-lsp-db-instance> ] [ <rrm-rrm-set> ] [ <rrm-srm-set> ] } } ] ]
```

### Syntax Description

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)
TABLE_process_tag		(Optional)
<i>process-tag-out</i>		(Optional)
<i>rrm-if-name</i>		(Optional)
TABLE_rrm		(Optional)
<i>rrm-level</i>		(Optional)
<i>rrm-retx-interval</i>		(Optional)
<i>rrm-retx-throttle-interval</i>		(Optional)
<i>rrm-retx-queue-length</i>		(Optional)
<i>rrm-next-retx</i>		(Optional)
<i>rrm-retx-queue-hwm</i>		(Optional)
<i>rrm-retx-queue-exceed</i>		(Optional)
<i>rrm-dbase-hdr</i>		(Optional)

---

*rrm-timestamp* (Optional)

---

*rrm-lsp-retx-instance* (Optional)

---

*rrm-lsp-db-instance* (Optional)

---

*rrm-rrm-set* (Optional)

---

*rrm-srm-set* (Optional)

---

### Command Mode

- /exec

## show isis spf-adjacency

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] spf-adjacency [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <spf-adjacency-vrf> [ <spf-adjacency-system-name> ] [ <spf-adjacency-refcount> ] [ <spf-adjacency-if-name> ] [ <spf-adjacency-rib-addr> ] [ <spf-adjacency-rib-addr-valid> ] [ <spf-adjacency-rib-ipv6-addr> ] [ <spf-adjacency-rib-ipv6-addr-valid> ] [ <spf-adjacency-spf-addr> ] [ <spf-adjacency-spf-ipv6-addr> ] [ { TABLE_SPFADJLEVEL <spf-adjacency-level> } ] ]
```

### Syntax Description

Syntax Description	
show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
spf-adjacency	Display IS-IS SPF adjacency information
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>spf-adjacency-vrf</i>	(Optional)
<i>spf-adjacency-system-name</i>	(Optional)
<i>spf-adjacency-refcount</i>	(Optional)
<i>spf-adjacency-if-name</i>	(Optional)
<i>spf-adjacency-rib-addr</i>	(Optional)
<i>spf-adjacency-rib-addr-valid</i>	(Optional)
<i>spf-adjacency-rib-ipv6-addr</i>	(Optional)
<i>spf-adjacency-rib-ipv6-addr-valid</i>	(Optional)
<i>spf-adjacency-spf-addr</i>	(Optional)
<i>spf-adjacency-spf-ipv6-addr</i>	(Optional)
TABLE_SPFADJLEVEL	(Optional)

---

*spf-adjacency-level* (Optional)

---

**Command Mode**

- /exec

## show isis spf-log

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] spf-log [ detail ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf <vrf-name-out> <spflog-calc-out>
<spflog-size-out> <spflog-maxsize-out> <spflog-ago-time-out> <spflog-lvl-out> <spflog-reason-out>
<spflog-count-out> <spflog-elapsed-ts-out> <spflog-log-num-out> <spflog-ts-detail-out>
<spflog-date-detail-out> <spflog-lvl-detail-out> <spflog-instance-detail-out> <spflog-init-ts-detail-out>
<spflog-spf-ts-detail-out> <spflog-detail-ts-is-out> <spflog-detail-ts-urib-out> <spflog-detail-ts-elapsed-out>
<spflog-detail-lvl-out> <spflog-detail-spf-cnt-out> <spflog-detail-sync-cnt-out> <spflog-detail-spf-reason-out>
]
```

### Syntax Description

Syntax Description	
show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
spf-log	Display IS-IS SPF information
detail	(Optional) Display detail ISIS SPF information
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>spflog-calc-out</i>	(Optional)
<i>spflog-size-out</i>	(Optional)
<i>spflog-maxsize-out</i>	(Optional)
<i>spflog-ago-time-out</i>	(Optional)
<i>spflog-lvl-out</i>	(Optional)
<i>spflog-reason-out</i>	(Optional)
<i>spflog-count-out</i>	(Optional)
<i>spflog-elapsed-ts-out</i>	(Optional)

---

*spflog-log-num-out* (Optional)

---

*spflog-ts-detail-out* (Optional)

---

*spflog-date-detail-out* (Optional)

---

*spflog-lvl-detail-out* (Optional)

---

*spflog-instance-detail-out* (Optional)

---

*spflog-init-ts-detail-out* (Optional)

---

*spflog-spf-ts-detail-out* (Optional)

---

*spflog-detail-ts-is-out* (Optional)

---

*spflog-detail-ts-urib-out* (Optional)

---

*spflog-detail-ts-elapsed-out* (Optional)

---

*spflog-detail-lvl-out* (Optional)

---

*spflog-detail-spf-cnt-out* (Optional)

---

*spflog-detail-sync-cnt-out* (Optional)

---

*spflog-detail-spf-reason-out* (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

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> <snn-if-name> [ {
TABLE_ssn <snn-level> <snn-psnp-eligible> <snn-next-psnp> <snn-dbase_hdr> } ] } ]
```

### Syntax Description

Syntax Description	show	Show running system information
	isis	Display IS-IS status and configuration
	<i>isis-tag</i>	(Optional) Routing process tag
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	all	(Optional) Display information for all VRFs
	ssn	Display IS-IS Send-Sequence-Number information
	<i>interface</i>	IS-IS interface
	<i>__readonly__</i>	(Optional)
	TABLE_process_tag	(Optional)
	<i>process-tag-out</i>	(Optional)
	<i>snn-if-name</i>	(Optional)
	TABLE_ssn	(Optional)
	<i>snn-level</i>	(Optional)
	<i>snn-psnp-eligible</i>	(Optional)
	<i>snn-next-psnp</i>	(Optional)
	<i>snn-dbase_hdr</i>	(Optional)

### Command Mode

- /exec



## show isis statistics

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics [ <interface> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf <vrf-name-out> <stat-if-out>
<stat-if-name-out> <stat-spf-calc-out> <stat-lsp-sourced-out> <stat-lsp-refresh-out> <stat-lsp-purge-out>
<stat-dis-elections-out> ]
```

### Syntax Description

Syntax Description	show	Show running system information
	isis	Display IS-IS status and configuration
	<i>isis-tag</i>	(Optional) Routing process tag
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	all	(Optional) Display information for all VRFs
	statistics	Display IS-IS protocol statistics
	<i>interface</i>	(Optional) IS-IS interface
	<i>__readonly__</i>	(Optional)
	<i>tag-out</i>	(Optional)
	TABLE_vrf	(Optional)
	<i>vrf-name-out</i>	(Optional)
	<i>stat-if-out</i>	(Optional)
	<i>stat-if-name-out</i>	(Optional)
	<i>stat-spf-calc-out</i>	(Optional)
	<i>stat-lsp-sourced-out</i>	(Optional)
	<i>stat-lsp-refresh-out</i>	(Optional)
	<i>stat-lsp-purge-out</i>	(Optional)
	<i>stat-dis-elections-out</i>	(Optional)

### Command Mode

- /exec

## show isis summary-address show isis ipv6 summary-address

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] summary-address [ <ip-addr> |
<ip-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] | show isis [ <isis-tag> ] [
vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 summary-address [ <ipv6-addr> | <ipv6-prefix> [
longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf
<vrf-name-out> <afi-safi-out> <addr-absent-out> <addr-prefix-out> <addr-mask-len-out> <addr-level-out>
<addr-num-out> <addr-lvl-out> <addr-metric-absent-out> <addr-metric-out> <addr-route-count-out> ]
```

### Syntax Description

Syntax Description	show	Show running system information
	isis	Display IS-IS status and configuration
	<i>isis-tag</i>	(Optional) Routing process tag
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	all	(Optional) Display information for all VRFs
	ip	(Optional) Display IS-IS IPv4 information
	ipv6	Display IS-IS IPv6 information
	summary-address	Display IS-IS summary address
	<i>ip-addr</i>	(Optional) Display single IP summary address
	<i>ip-prefix</i>	(Optional) Display single exact match IP summary address
	longer-prefixes	(Optional) Display exact match and more specific summary address
	<i>isis-tag</i>	(Optional)
	<i>__readonly__</i>	(Optional)
	<i>tag-out</i>	(Optional)
	TABLE_vrf	(Optional)
	<i>vrf-name-out</i>	(Optional)
	<i>afi-safi-out</i>	(Optional)
	<i>addr-absent-out</i>	(Optional)
	<i>addr-prefix-out</i>	(Optional)
	<i>addr-mask-len-out</i>	(Optional)

---

*addr-level-out* (Optional)

---

*addr-num-out* (Optional)

---

*addr-lvl-out* (Optional)

---

*addr-metric-absent-out* (Optional)

---

*addr-metric-out* (Optional)

---

*addr-route-count-out* (Optional)

---

### Command Mode

- /exec

## show isis topology

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] topology [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <topology-vrf> [ {
TABLE_LEVEL <topology-level> [ { TABLE_ONE_ROUTE <topology-one-route-node-name> [
<topology-one-route-spf-instance> ] [ <topology-one-route-on-path> ] [ <topology-one-route-mt-id> ] [ {
TABLE_ONE_ROUTE_NH <topology-one-route-nh-system-name> [ <topology-one-route-nh-if-name> ] [
<topology-one-route-nh-metric> } ] ] [ { TABLE_ONE_ROUTE_MBEST
<topology-one-route-mbest-system-name> [ <topology-one-route-mbest-if-name> ] [
<topology-one-route-mbest-metric> } ] } ] [ <topology-default-spf-instance> ] [ { TABLE_NH
<topology-nh-system-name> [ <topology-nh-if-name> ] [ <topology-nh-metric> } ] ] [ { TABLE_MBEST
<topology-mbest-system-name> [ <topology-mbest-if-name> ] [ <topology-mbest-metric> } ] } ] ] ]
```

### Syntax Description

Syntax Description	show	Show running system information
	isis	Display IS-IS status and configuration
	<i>isis-tag</i>	(Optional) Routing process tag
	topology	Display IS-IS Topology information
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	all	(Optional) Display information for all VRFs
	<i>__readonly__</i>	(Optional)
	TABLE_process_tag	(Optional)
	<i>process-tag-out</i>	(Optional)
	<i>topology-vrf</i>	(Optional)
	TABLE_LEVEL	(Optional)
	<i>topology-level</i>	(Optional)
	TABLE_ONE_ROUTE	(Optional)
	<i>topology-one-route-node-name</i>	(Optional)
	<i>topology-one-route-spf-instance</i>	(Optional)
	<i>topology-one-route-on-path</i>	(Optional)
	<i>topology-one-route-mt-id</i>	(Optional)
	TABLE_ONE_ROUTE_NH	(Optional)

<i>topology-one-route-nh-system-name</i>	(Optional)
<i>topology-one-route-nh-if-name</i>	(Optional)
<i>topology-one-route-nh-metric</i>	(Optional)
TABLE_ONE_ROUTE_MBEST	(Optional)
<i>topology-one-route-mbest-system-name</i>	(Optional)
<i>topology-one-route-mbest-if-name</i>	(Optional)
<i>topology-one-route-mbest-metric</i>	(Optional)
<i>topology-default-spf-instance</i>	(Optional)
TABLE_NH	(Optional)
<i>topology-nh-system-name</i>	(Optional)
<i>topology-nh-if-name</i>	(Optional)
<i>topology-nh-metric</i>	(Optional)
TABLE_MBEST	(Optional)
<i>topology-mbest-system-name</i>	(Optional)
<i>topology-mbest-if-name</i>	(Optional)
<i>topology-mbest-metric</i>	(Optional)

**Command Mode**

- /exec

## show isis traffic

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> ] [ mbuf-priority
] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out>
{ TABLE_vrf <vrf-name-out> <traffic-if-out> [ <traffic-if-name-out> ] <traffic-lan-iih-out>
<traffic-lan-iih-rcv-out> <traffic-lan-iih-xmit-out> <traffic-lan-iih-rcv-auth-err-out> <traffic-lan-iih-rcv-err-out>
<traffic-p2p-iih-out> <traffic-p2p-iih-rcv-out> <traffic-p2p-iih-xmit-out> <traffic-p2p-iih-rcv-auth-err-out>
<traffic-p2p-iih-rcv-err-out> <traffic-csnp-out> <traffic-csnp-rcv-out> <traffic-csnp-xmit-out>
<traffic-csnp-rcv-auth-err-out> <traffic-csnp-rcv-err-out> <traffic-psnp-out> <traffic-psnp-rcv-out>
<traffic-psnp-xmit-out> <traffic-psnp-rcv-auth-err-out> <traffic-psnp-rcv-err-out> <traffic-lsp-out>
<traffic-lsp-rcv-out> <traffic-lsp-flood-out> <traffic-lsp-rcv-auth-err-out> <traffic-lsp-rcv-err-out>
<traffic-lsp-rexmit-out> [ <traffic-xmit-err-out> ] [ <traffic-unknown-pdu-rcv-out> ] } } ]
```

### Syntax Description

#### 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
<i>__readonly__</i>	(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





<i>TABLE_device</i>	(Optional)
<i>device_grp</i>	(Optional) service device group
<i>TABLE_route_map</i>	(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
<i>TABLE_vip</i>	(Optional)
<i>vip_ip</i>	(Optional) vip ip
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
<i>TABLE_vip_node</i>	(Optional)
<i>vip_node</i>	(Optional) service node ip
<i>vip_nodev6</i>	(Optional) service node IPv6
<i>vip_config</i>	(Optional) node config
<i>vip_weight</i>	(Optional) node weight
<i>vip_status</i>	(Optional) node status
<i>vip_track_id</i>	(Optional) node track id
<i>vip_ip_sla_id</i>	(Optional) node ip sla id
<i>TABLE_vip_acl</i>	(Optional)
<i>vip_access_list</i>	(Optional) access list
<i>TABLE_node</i>	(Optional)
<i>node</i>	(Optional) service node ip
<i>nodev6</i>	(Optional) service node IPv6
<i>config</i>	(Optional) node config
<i>weight</i>	(Optional) node weight
<i>status</i>	(Optional) node status
<i>track_id</i>	(Optional) node track id
<i>ip_sla_id</i>	(Optional) node ip sla id

---

TABLE_acl	(Optional)
<i>access_list</i>	(Optional) access list

---

**Command Mode**

- /exec



<i>device_grp</i>	(Optional) service device group
TABLE_route_map	(Optional)
<i>route_map</i>	(Optional) service route map
<i>interface</i>	(Optional) interface
<i>r_status</i>	(Optional) route map status
<i>int_track_id</i>	(Optional) interface track id
TABLE_vip	(Optional)
<i>vip_ip</i>	(Optional) vip ip
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
TABLE_vip_node	(Optional)
<i>vip_node</i>	(Optional) service node ip
<i>vip_nodev6</i>	(Optional) service node IPv6
<i>vip_config</i>	(Optional) node config
<i>vip_weight</i>	(Optional) node weight
<i>vip_status</i>	(Optional) node status
<i>vip_track_id</i>	(Optional) node track id
<i>vip_ip_sla_id</i>	(Optional) node ip sla id
TABLE_vip_acl	(Optional)
<i>vip_access_list</i>	(Optional) access list
TABLE_node	(Optional)
<i>node</i>	(Optional) service node ip
<i>nodev6</i>	(Optional) service node IPv6
<i>config</i>	(Optional) node config
<i>weight</i>	(Optional) node weight
<i>status</i>	(Optional) node status
<i>track_id</i>	(Optional) node track id
<i>ip_sla_id</i>	(Optional) node ip sla id
TABLE_acl	(Optional)

---

*access\_list* (Optional) access list

---

**Command Mode**

- /exec



<i>state</i>	(Optional) state
<i>buckets</i>	(Optional) buckets
<i>reason</i>	(Optional) inactive reason
<i>vrf_name</i>	(Optional) VRF-Name
<i>userACL</i>	(Optional) user access-list
<i>peer_status</i>	(Optional) peer status
TABLE_device	(Optional)
<i>device_grp</i>	(Optional) service device group
<i>dg_probe</i>	(Optional) probe type
<i>dg_probe_port</i>	(Optional) probe port
TABLE_route_map	(Optional)
<i>route_map</i>	(Optional) service route map
<i>interface</i>	(Optional) interface
<i>r_status</i>	(Optional) route map status
<i>int_track_id</i>	(Optional) interface track id
TABLE_vip	(Optional)
<i>vip_ip</i>	(Optional) vip ip
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
<i>vip_dgname</i>	(Optional) vip device group
<i>ace_name</i>	(Optional) ace information
<i>ace_seq</i>	(Optional) ace information
<i>ace_ip</i>	(Optional) ace information
<i>ace_protocol</i>	(Optional) ace information
<i>ace_port</i>	(Optional) ace information
TABLE_vip_node	(Optional)
<i>vip_node</i>	(Optional) service node ip
<i>vip_nodev6</i>	(Optional) service node IPv6
<i>vip_config</i>	(Optional) node config

<i>vip_weight</i>	(Optional) node weight
<i>vip_status</i>	(Optional) node status
<i>vip_node_probe</i>	(Optional) node probe type
<i>vip_node_probe_port</i>	(Optional) node probe port
<i>vip_node_probe_ip</i>	(Optional) node probe ip
<i>vip_track_id</i>	(Optional) node track id
<i>vip_ip_sla_id</i>	(Optional) node ip sla id
TABLE_vip_standby	(Optional)
<i>vip_standby_ip</i>	(Optional) standby node ip
<i>vip_standby_ipv6</i>	(Optional) standby node ipv6
<i>vip_standby_config</i>	(Optional) standby node config
<i>vip_standby_weight</i>	(Optional) standby node weight
<i>vip_standby_status</i>	(Optional) standby node status
<i>vip_standby_probe</i>	(Optional) standby node probe type
<i>vip_standby_probe_port</i>	(Optional) standby node probe port
<i>vip_standby_probe_ip</i>	(Optional) standby node probe ip
<i>vip_standby_track_id</i>	(Optional) standby node track id
<i>vip_standby_sla_id</i>	(Optional) standby node sla id
TABLE_vip_acl	(Optional)
<i>vip_access_list</i>	(Optional) access list
TABLE_node	(Optional)
<i>node</i>	(Optional) service node ip
<i>nodev6</i>	(Optional) service node IPv6
<i>config</i>	(Optional) node config
<i>weight</i>	(Optional) node weight
<i>status</i>	(Optional) node status
<i>node_probe</i>	(Optional) node probe type
<i>node_probe_port</i>	(Optional) node probe port
<i>node_probe_ip</i>	(Optional) node probe ip



<i>track_id</i>	(Optional) node track id
<i>ip_sla_id</i>	(Optional) node ip sla id
TABLE_standby	(Optional)
<i>standby_ip</i>	(Optional) standby node ip
<i>standby_ipv6</i>	(Optional) standby node ipv6
<i>standby_config</i>	(Optional) standby node config
<i>standby_weight</i>	(Optional) standby node weight
<i>standby_status</i>	(Optional) standby node status
<i>standby_probe</i>	(Optional) standby node probe type
<i>standby_probe_port</i>	(Optional) standby node probe port
<i>standby_probe_ip</i>	(Optional) standby node probe ip
<i>standby_track_id</i>	(Optional) standby node track id
<i>standby_sla_id</i>	(Optional) standby node sla id
TABLE_acl	(Optional)
<i>access_list</i>	(Optional) access list

**Command Mode**

- /exec



<i>buckets</i>	(Optional) buckets
<i>reason</i>	(Optional) inactive reason
<i>vrf_name</i>	(Optional) VRF-Name
<i>userACL</i>	(Optional) user access-list
<i>peer_status</i>	(Optional) peer status
TABLE_device	(Optional)
<i>device_grp</i>	(Optional) service device group
<i>dg_probe</i>	(Optional) device-group probe type
<i>dg_probe_port</i>	(Optional) device-group probe port
TABLE_route_map	(Optional)
<i>route_map</i>	(Optional) service route map
<i>interface</i>	(Optional) interface
<i>r_status</i>	(Optional) route map status
<i>int_track_id</i>	(Optional) interface track id
TABLE_vip	(Optional)
<i>vip_ip</i>	(Optional) vip ip
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
<i>vip_dgname</i>	(Optional) vip device group
TABLE_vip_node	(Optional)
<i>vip_node</i>	(Optional) service node ip
<i>vip_nodev6</i>	(Optional) service node IPv6
<i>vip_config</i>	(Optional) node config
<i>vip_weight</i>	(Optional) node weight
<i>vip_status</i>	(Optional) node status
<i>vip_node_probe</i>	(Optional) node probe type
<i>vip_node_probe_port</i>	(Optional) node probe port
<i>vip_node_probe_ip</i>	(Optional) node probe ip
<i>vip_track_id</i>	(Optional) node track id

<i>vip_ip_sla_id</i>	(Optional) node ip sla id
TABLE_vip_standby	(Optional)
<i>vip_standby_ip</i>	(Optional) standby node ip
<i>vip_standby_ipv6</i>	(Optional) standby node ipv6
<i>vip_standby_config</i>	(Optional) standby node config
<i>vip_standby_weight</i>	(Optional) standby node weight
<i>vip_standby_status</i>	(Optional) standby node status
<i>vip_standby_probe</i>	(Optional) standby node probe type
<i>vip_standby_probe_port</i>	(Optional) standby node probe port
<i>vip_standby_probe_ip</i>	(Optional) standby node probe ip
<i>vip_standby_track_id</i>	(Optional) standby node track id
<i>vip_standby_sla_id</i>	(Optional) standby node sla id
TABLE_vip_acl	(Optional)
<i>vip_access_list</i>	(Optional) access list
TABLE_node	(Optional)
<i>node</i>	(Optional) service node ip
<i>nodev6</i>	(Optional) service node IPv6
<i>config</i>	(Optional) node config
<i>weight</i>	(Optional) node weight
<i>status</i>	(Optional) node status
<i>node_probe</i>	(Optional) node probe type
<i>node_probe_port</i>	(Optional) node probe port
<i>node_probe_ip</i>	(Optional) node probe ip
<i>track_id</i>	(Optional) node track id
<i>ip_sla_id</i>	(Optional) node ip sla id
TABLE_standby	(Optional)
<i>standby_ip</i>	(Optional) standby node ip
<i>standby_ipv6</i>	(Optional) standby node ipv6
<i>standby_config</i>	(Optional) standby node config

<i>standby_weight</i>	(Optional) standby node weight
<i>standby_status</i>	(Optional) standby node status
<i>standby_probe</i>	(Optional) standby node probe type
<i>standby_probe_port</i>	(Optional) standby node probe port
<i>standby_probe_ip</i>	(Optional) standby node probe ip
<i>standby_track_id</i>	(Optional) standby node track id
<i>standby_sla_id</i>	(Optional) standby node sla id
TABLE_acl	(Optional)
<i>access_list</i>	(Optional) access list

**Command Mode**

- /exec

# show itd session device-group

```
show itd session device-group [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <node> ] ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
itd	ITD service	
session	ITD service session	
device-group	ITD service session device-group	
<i>name</i>	(Optional) ITD Service session name	
<i>__readonly__</i>	(Optional) Read Only	
<i>first_entry</i>	(Optional)	
TABLE_svc	(Optional)	
<i>node</i>	(Optional) node	

## Command Mode

- /exec

## show itd statistics

```
show itd { <service_name> | all } [ src { <src-ip> | <src-IPv6> } | dst { <dst-ip> | <dst-IPv6> } ] statistics [
brief ] [ __readonly__ <is_firstentry_node> <is_firstentry_acl> [ TABLE_nice <service_name> [ <vip> ] [
<vip_pkt> ] <dev_grp> <node> <node_pkt> [ <acl> ] [ <acl_pkt> ] <mode> <percentage> ] ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
itd	ITD service
statistics	ITD statistics
brief	(Optional) brief
__readonly__	(Optional) Read Only
<i>is_firstentry_node</i>	(Optional)
<i>is_firstentry_acl</i>	(Optional)
TABLE_nice	(Optional)
<i>service_name</i>	service_name
all	All ITD services
src	(Optional) Statistics for src ip
<i>src-ip</i>	(Optional) Provide statistics for src ip
dst	(Optional) Statistics for dst ip
<i>dst-ip</i>	(Optional) Provide statistics for dst ip
<i>vip</i>	(Optional) service virtual ip
<i>vip_pkt</i>	(Optional) virtual ip pkt_count
<i>dev_grp</i>	(Optional) device group
<i>node</i>	(Optional) service node ip
<i>node_pkt</i>	(Optional) node pkt count
<i>acl</i>	(Optional) access list
<i>acl_pkt</i>	(Optional) acl pkt count
<i>mode</i>	(Optional) Redirect mode

---

*percentage* (Optional) Packet percentage

---

**Command Mode**

- /exec



## show itd statistics

```
show itd { <service_name> | all } [ src { <src-ip> | <src-IPv6> } | dst { <dst-ip> | <dst-IPv6> } ] statistics [
brief ] [ __readonly__ <is_firstentry_node> <is_firstentry_acl> <is_for_ace> [ TABLE_nice <service_name>
[ <vip> ] [ <ace_seq> ] [ <ace_ip> ] [ <vip_pkt> ] <dev_grp> <node> <node_pkt> [ <acl> ] [ <acl_pkt> ]
<mode> <percentage> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
itd	ITD service
statistics	ITD statistics
brief	(Optional) brief
__readonly__	(Optional) Read Only
<i>is_firstentry_node</i>	(Optional)
<i>is_firstentry_acl</i>	(Optional)
<i>is_for_ace</i>	(Optional)
TABLE_nice	(Optional)
<i>service_name</i>	service_name
all	All ITD services
src	(Optional) Statistics for src ip
<i>src-ip</i>	(Optional) Provide statistics for src ip
dst	(Optional) Statistics for dst ip
<i>dst-ip</i>	(Optional) Provide statistics for dst ip
<i>vip</i>	(Optional) service virtual ip
<i>ace_seq</i>	(Optional) service ACE name and sequence number
<i>ace_ip</i>	(Optional) service ACE ip/mask/prefix
<i>vip_pkt</i>	(Optional) virtual ip pkt_count
<i>dev_grp</i>	(Optional) device group
<i>node</i>	(Optional) service node ip
<i>node_pkt</i>	(Optional) node pkt count
<i>acl</i>	(Optional) access list

---

<i>acl_pkt</i>	(Optional) acl pkt count
<i>mode</i>	(Optional) Redirect mode
<i>percentage</i>	(Optional) Packet percentage

---

**Command Mode**

- /exec

## show itd vrf

```
show itd vrf [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <service_name> <vrf_name> <vrf_id> ] ]
```

### Syntax Description

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)	
<i>TABLE_svc</i>	(Optional)	
<i>service_name</i>	(Optional) itd service name	
<i>vrf_name</i>	(Optional) vrf name	
<i>vrf_id</i>	(Optional) vrf id	

### Command Mode

- /exec

# show itd vrf

```
show itd vrf [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <service_name> <vrf_name> <vrf_id> ] ]
```

## Syntax Description

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)	
<i>TABLE_svc</i>	(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

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- [show key chain, on page 1842](#)
- [show key chain mode decrypt, on page 1843](#)
- [show keystore, on page 1844](#)
- [show kim inconsistency, on page 1845](#)
- [show kim internal event-history cli, on page 1846](#)
- [show kim internal event-history errors, on page 1847](#)
- [show kim internal event-history events, on page 1848](#)
- [show kim internal event-history intf, on page 1849](#)
- [show kim internal event-history msgs, on page 1850](#)
- [show kim internal event-history mts, on page 1851](#)
- [show kim internal event-history packets, on page 1852](#)
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- [show kim internal mem-stats, on page 1856](#)

## 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

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

Syntax Description	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

Syntax Description	keystore	keystore stats
	<i>__readonly__</i>	(Optional)
	<i>TABLE_sksd_state_entries</i>	(Optional) Displays handles of the keys stored
	<i>index</i>	(Optional) Index value
	<i>handle</i>	(Optional) Handle Name
	<i>keystore_type</i>	(Optional) Type of storage h/w or s/w
	<i>keystore_ver</i>	(Optional) Version
	<i>fw_panic</i>	(Optional) Number of panics
	<i>fw_resets</i>	(Optional) Number of Resets
	<i>rx_fifo_underruns</i>	(Optional) Rx FIFO Underruns
	<i>rx_timeouts</i>	(Optional) Number of Rx timeouts
	<i>rx_bad_checksums</i>	(Optional) Number of Bad Checsums
	<i>rx_bad_fragment_lengths</i>	(Optional) Bad fragment lenghts received
	<i>keystore_corruption</i>	(Optional) Number of corruptions detected

## Command Mode

- /exec



# show kim inconsistency

show kim inconsistency

## Syntax Description

Syntax Description		
show		Show running system information
kim		Display KIM information
inconsistency		KIM inconsistency

## Command Mode

- /exec

# show kim internal event-history cli

show kim internal event-history cli

## Syntax Description

Syntax Description		
show		Show running system information
kim		Display KIM information
internal		KIM Internal State
event-history		Show various event logs of KIM
cli		CLI event debugging

## Command Mode

- /exec

# show kim internal event-history errors

show kim internal event-history errors

## Syntax Description

Syntax Description		
	show	Show running system information
	kim	Display KIM information
	internal	KIM Internal State
	event-history	Show various event logs of KIM
	errors	Error messages

## Command Mode

- /exec

# show kim internal event-history events

show kim internal event-history events

## Syntax Description

Syntax Description		
show		Show running system information
kim		Display KIM information
internal		KIM Internal State
event-history		Show various event logs of KIM
events		Trace Event debugs

## Command Mode

- /exec

# show kim internal event-history intf

show kim internal event-history intf

## Syntax Description

Syntax Description		
show		Show running system information
kim		Display KIM information
internal		KIM Internal State
event-history		Show various event logs of KIM
intf		Interface debugs

## Command Mode

- /exec

# show kim internal event-history msgs

show kim internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
kim		Display KIM information
internal		KIM Internal State
event-history		Show various event logs of KIM
msgs		Messages debugging

## Command Mode

- /exec

# show kim internal event-history mts

show kim internal event-history mts

## Syntax Description

Syntax Description		
show		Show running system information
kim		Display KIM information
internal		KIM Internal State
event-history		Show various event logs of KIM
mts		MTS debugs

## Command Mode

- /exec

# show kim internal event-history packets

show kim internal event-history packets

## Syntax Description

Syntax Description		
show		Show running system information
kim		Display KIM information
internal		KIM Internal State
event-history		Show various event logs of KIM
packets		Packets

## Command Mode

- /exec



# show kim internal event-history pss

show kim internal event-history pss

## Syntax Description

Syntax	Description
show	Show running system information
kim	Display KIM information
internal	KIM Internal State
event-history	Show various event logs of KIM
pss	PSS debugs

## Command Mode

- /exec

# show kim internal event-history vrf

show kim internal event-history vrf

## Syntax Description

Syntax Description		
show		Show running system information
kim		Display KIM information
internal		KIM Internal State
event-history		Show various event logs of KIM
vrf		VRF debugs

## Command Mode

- /exec

# show kim internal info

show kim internal info [ lpss | namespace ]

## Syntax Description

Syntax Description		
show		Show running system information
kim		Display KIM information
internal		KIM Internal State
info		KIM info
lpss		(Optional) KIM lpss info
namespace		(Optional) KIM namespace info

## Command Mode

- /exec

# show kim internal mem-stats

show kim internal mem-stats [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
kim	Display KIM information
internal	KIM Internal State
mem-stats	Show memory allocation statistics
detail	(Optional) Display detailed information

## Command Mode

- /exec



## L Show Commands

---

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# show l2fwder l2rib info

show l2fwder l2rib info

## Syntax Description

Syntax	Description
show	Show running system information
l2fwder	L2 software forwarding
l2rib	L2RIB
info	stats and info

## Command Mode

- /exec

# show l2fwder rmac

show l2fwder rmac <mac-address>

## Syntax Description

Syntax Description		
show		Show running system information
l2fwder		Display L2FWDER forwarding information
rmac		router mac
<i>mac-address</i>		MAC address

## Command Mode

- /exec

# show l2fwder statistics

show l2fwder statistics

## Syntax Description

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

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 internal client-stats

show l2rib internal client-stats [ <client\_id> ]

## Syntax Description

Syntax	Description
show	Show running system information
l2rib	Layer 2 routing information base
internal	Display Layer 2 RIB internal information
client-stats	L2RIB Client Stats
<i>client_id</i>	(Optional) Enter Client ID

## Command Mode

- /exec

# show l2rib internal mem-stats

show l2rib internal mem-stats [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
l2rib	Layer 2 routing information base
internal	Layer2 RIB internal information
mem-stats	Dynamic memory stats
detail	(Optional) Detailed information

## Command Mode

- /exec



# show l2rib internal pss

show l2rib internal pss <rt-enum>

## Syntax Description

Syntax Description	
show	Show running system information
l2rib	Layer 2 routing information base
internal	Layer2 RIB internal information
pss	Display all PSS information
<i>rt-enum</i>	Runtime PSS key types

## Command Mode

- /exec

# show l2rib internal state

show l2rib internal state

## Syntax Description

Syntax	Description
show	Show running system information
l2rib	Layer 2 routing information base
internal	Layer2 RIB internal information
state	Show L2RIB state

## Command Mode

- /exec

# show l2rib internal stats

show l2rib internal stats

## Syntax Description

Syntax	Description
show	Show running system information
l2rib	Layer 2 routing information base
internal	Display Layer 2 RIB internal information
stats	L2RIB Stats

## Command Mode

- /exec

## show l2rib internal txlist

show l2rib internal txlist { all | topo | mac-local-static | mac-bgp | mac-vxlan | mac-best-route | mac-ip-bgp | mac-ip-best-route | imet-vxlan-fl | topo-eoc | eoc | arp-signal | signal } { all | elements | members }

### Syntax Description

Syntax Description	show	Show running system information
	l2rib	Layer 2 routing information base
	internal	Display Layer2 RIB internal information
	txlist	L2RIB TxList
	all	All TxLists
	topo	Topology and Bind-ACK TxList
	mac-local-static	Mac (Local and Static) TxList
	mac-bgp	Mac BGP
	mac-vxlan	Mac VxLAN
	mac-best-route	Mac Best-Route
	mac-ip-bgp	Mac-IP BGP
	mac-ip-best-route	Mac-IP Best-Route
	imet-vxlan-fl	IMET and VXLAN FL TxList
	topo-eoc	Topology EOC TxList
	eoc	EOC TxList
	arp-signal	ARP Signaling
	signal	Signaling
	all	Both Elements/Members
	elements	TxList Elements
	members	TxList Members

### Command Mode

- /exec

# show l2rib internal unfreeze-list

show l2rib internal unfreeze-list

## Syntax Description

Syntax Description		
show		Show running system information
l2rib		Layer 2 routing information base
internal		Layer2 RIB internal information
unfreeze-list		Duplicate MACs that are pending unfreeze

## Command Mode

- /exec

## show l2rib producers

```
show l2rib producers [ { topology | mac | mac-ip | ead | pl | imet | flood-list | startup-route | peerid } [ static |
local | bgp | vxlan | hmm | arp | ofa ] ] [ detail ] [ __readonly__ TABLE_l2rib_producers <prod-name> <prod-id>
<client-id> <obj-type> <admin-dist> <purge-time> <state> [ <prod-flags> ] ]
```

### Syntax Description

#### 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
static	(Optional) Static
local	(Optional) Local
bgp	(Optional) BGP
vxlan	(Optional) VXLAN
hmm	(Optional) HMM
arp	(Optional) ARP
ofa	(Optional) OFA
__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 } ] ] [ __readonly__ TABLE_l2rib_registrations <client-id> <topo-id> <obj-type> <prod>
]
```

### Syntax Description

#### 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
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
<i>__readonly__</i>	(Optional)
TABLE_l2rib_registrations	(Optional) L2RIB Registrations Table
<i>client-id</i>	(Optional) Client ID
<i>topo-id</i>	(Optional) Topology ID
<i>obj-type</i>	(Optional) Object Type
<i>prod</i>	(Optional) Producer

### Command Mode

- /exec



# show l2route evpn 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

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

Syntax Description	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)
<i>TABLE_l2route_fl</i>	(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> ] [ <flags> ] [ <type> ] [ <vni-label> ] [ <tunnel-id> ] [ <client-nfn> ] ]
```

## Syntax Description

Syntax Description	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>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> ] [ <flags> ] [ <type> ] [ <vni-label> ] [ <tunnel-id> ] [ <client-nfn> ]
]
```

### Syntax Description

#### 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
<i>__readonly__</i>	(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>flags</i>	(Optional) Flags
<i>type</i>	(Optional) Type
<i>vni-label</i>	(Optional) VNI Label
<i>tunnel-id</i>	(Optional) Tunnel ID
<i>client-nfn</i>	(Optional) Client Notification Bitmap

### Command Mode

- /exec

# show l2route evpn mac-ip all

```
show l2route evpn mac-ip all [ detail ] [ __readonly__ TABLE_l2route_mac_ip_all <topo-id> <mac-addr>
<prod-type> <host-ip> [ <l3-info> ] [ <seq-num> ] [ <soo> ] <next-hop> [ <peerid> ] [ <peer-ifindex> ] [
<flags> ] [ <client-nfn> ] ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
mac-ip	MAC-IP Route
all	Display all routes without filtering
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_l2route_mac_ip_all	(Optional) L2RIB Mac-IP All Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>prod-type</i>	(Optional) Producer Type
<i>host-ip</i>	(Optional) Host IP
<i>l3-info</i>	(Optional) L3 Info
<i>seq-num</i>	(Optional) Sequence Number
<i>soo</i>	(Optional) SOO
<i>next-hop</i>	(Optional) Next Hop
<i>peerid</i>	(Optional) Peer ID
<i>peer-ifindex</i>	(Optional) Peer Interface Index
<i>flags</i>	(Optional) Flags
<i>client-nfn</i>	(Optional) Client Notification Bitmap

## 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 <mac-addr> <prod-type> <host-ip> [ <l3-info> ] [ <seq-num> ] [ <soo> ] <next-hop>
[ <peerid> ] [ <peer-ifindex> ] [ <flags> ] [ <client-nfn> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
evpn	EVPN
mac-ip	MAC-IP Route
evi	Filter on E-VPN identifier (VLAN-ID or BD-ID)
<i>vpn-id</i>	E-VPN identifier (VLAN-ID or BD-ID)
arp	(Optional) Filter on ARP producer
bgp	(Optional) Filter on BGP producer
hmm	(Optional) Filter on HMM producer
mac	(Optional) Filter on MAC address
<i>mac_addr</i>	(Optional) 48-bit MAC address value
host-ip	(Optional) Filter on Host IP address
<i>ipv4_host</i>	(Optional) IPv4 address
next-hop	(Optional) Filter on Next-Hop IP or Interface Name
<i>ipv4_addr</i>	(Optional) IPv4 address of Next Hop
<i>if-hdl</i>	(Optional) Interface index of Next Hop
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_mac_ip	(Optional) L2RIB Mac-IP Table
<i>mac-addr</i>	(Optional) Mac Address
<i>prod-type</i>	(Optional) Producer Type
<i>host-ip</i>	(Optional) Host IP
<i>l3-info</i>	(Optional) L3 Information

<i>seq-num</i>	(Optional) Sequence Number
<i>soo</i>	(Optional) SOO
<i>next-hop</i>	(Optional) Next Hop
<i>peerid</i>	(Optional) Peer ID
<i>peer-ifindex</i>	(Optional) Peer Interface Index
<i>flags</i>	(Optional) Flags
<i>client-nfn</i>	(Optional) Client Notification Bitmap

**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> <next-hop> [ <peer-id> ] [ <seq-num> ] [ <soo> ] [ <flags> ] [ <client-nfn> ] ]
```

## Syntax Description

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>next-hop</i>		(Optional) Next Hop
<i>peer-id</i>		(Optional) Peer-ID
<i>seq-num</i>		(Optional) Sequence Number
<i>soo</i>		(Optional) SOO
<i>flags</i>		(Optional) Flags
<i>client-nfn</i>		(Optional) Client Notification Bitmap

## Command Mode

- /exec



## show l2route evpn mac evi

```
show l2route evpn mac evi <vpn-id> [ static | local | bgp | vxlan ] [ mac <mac_addr> ] [ next-hop { <ipv4_addr>
| <ipv6_addr> | <if-hdl> } ] [ detail ] [ __readonly__ TABLE_l2route_mac <mac-addr> <prod-type> <next-hop>
[ <peer-id> ] [ <seq-num> ] [ <soo> ] [ <flags> ] [ <client-nfn> ] ]
```

### Syntax Description

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
	mac	(Optional) Filter on MAC address
	<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	(Optional) L2RIB Mac Table
	<i>mac-addr</i>	(Optional) Mac Address
	<i>prod-type</i>	(Optional) Producer Type
	<i>next-hop</i>	(Optional) Next Hop
	<i>peer-id</i>	(Optional) Peer-ID
	<i>seq-num</i>	(Optional) Sequence Number
	<i>soo</i>	(Optional) SOO

---

<i>flags</i>	(Optional) Flags
<i>client-nfn</i>	(Optional) Client Notification Bitmap

---

**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-afhdl> ] [ <nve-afhdl> ] [ <flags> ] [ <client-nfn> ] ]
```

### Syntax Description

Syntax Description	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-afhdl</i>	(Optional) Source Loopback Interface Handle
<i>nve-afhdl</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

Syntax Description	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

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 <ip-hdl> <ip-addr> <peer-id> <if-idx> <num-macs> ]
```

## Syntax Description

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>ip-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

## Command Mode

- /exec

# show l2route summary

show l2route summary

## Syntax Description

Syntax	Description
show	Show running system information
l2route	Layer 2 routing information base
summary	Summary

## Command Mode

- /exec

# show l2route topology

```
show l2route topology [ <topo_id> ] [ detail ] [ __readonly__ TABLE_l2route_topology <topo-id> <topo-name>
<topo-type> [ <vni> ] [ <encap-type> ] [ <iod> ] [ <if-hdl> ] [ <vtep-ip> ] [ <emulated-ip> ] [ <tx-id> ] [
<rcvd-flag> ] [ <rmac> ] [ <vrf-id> ] [ <vmac> ] [ <flags> ] [ <sub-flags> ] [ <prev-flags> ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
topology	Display topology IDs
<i>topo_id</i>	(Optional) Enter Topology ID
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_topology	(Optional) L2RIB Topology Table
<i>topo-id</i>	(Optional) Topology ID
<i>topo-name</i>	(Optional) Topology Name
<i>topo-type</i>	(Optional) Topology Type
<i>vni</i>	(Optional) VNI
<i>encap-type</i>	(Optional) Encap Type
<i>iod</i>	(Optional) IOD
<i>if-hdl</i>	(Optional) Interface Handle
<i>vtep-ip</i>	(Optional) VTEP IP Address
<i>emulated-ip</i>	(Optional) Emulated VTEP IP Address
<i>tx-id</i>	(Optional) Transaction ID for Topology Ack
<i>rcvd-flag</i>	(Optional) Flag to Indicate Topology Ack
<i>rmac</i>	(Optional) Local Router MAC (For L3 VNIs)
<i>vrf-id</i>	(Optional) VRF ID (For L3 VNIs)
<i>vmac</i>	(Optional) Local Virtual MAC (For L3 VNIs)
<i>flags</i>	(Optional) Flags
<i>sub-flags</i>	(Optional) Sub Flags
<i>prev-flags</i>	(Optional) Previous Flags



**Command Mode**

- /exec

## show l2route topology

```
show l2route { mac | openflow mac | dataplane mac [ local | remote ] } { topology <topo-id> | all } [ detail ]
[ __readonly__ TABLE_l2route_mac [ <topo-id> ] <mac-addr> <prod-type> <next-hop> [ <peer-id> ] [
<seq-num> ] [ <soo> ] [ <flags> ] [ <client-nfn> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
l2route	Layer 2 routing information base
dataplane	dataplane
openflow	openflow
mac	MAC Route
all	Display all routes without filtering
local	(Optional) dataplane learnt local routes
remote	(Optional) dataplane learnt remote routes
topology	Filter on topology ID
<i>topo-id</i>	topology ID
detail	(Optional) Detailed information
<i>__readonly__</i>	(Optional)
TABLE_l2route_mac	(Optional) L2RIB Mac All Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>prod-type</i>	(Optional) Producer Type
<i>next-hop</i>	(Optional) Next Hop
<i>peer-id</i>	(Optional) Peer-ID
<i>seq-num</i>	(Optional) Sequence Number
<i>soo</i>	(Optional) SOO
<i>flags</i>	(Optional) Flags
<i>client-nfn</i>	(Optional) Client Notification Bitmap

### 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> <prod-type> <host-ip> [ <l3-info> ] [ <seq-num> ] [
<soo> ] <next-hop> [ <peerid> ] [ <peer-ifindex> ] [ <flags> ] [ <client-nfn> ] ]
```

## Syntax Description

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
<i>__readonly__</i>		(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>prod-type</i>		(Optional) Producer Type
<i>host-ip</i>		(Optional) Host IP
<i>l3-info</i>		(Optional) L3 Information
<i>seq-num</i>		(Optional) Sequence Number
<i>soo</i>		(Optional) SOO
<i>next-hop</i>		(Optional) Next Hop
<i>peerid</i>		(Optional) Peer ID
<i>peer-ifindex</i>		(Optional) Peer Interface Index
<i>flags</i>		(Optional) Flags
<i>client-nfn</i>		(Optional) Client Notification Bitmap

## Command Mode

- /exec

## show lacp counters

```
show lacp counters [ interface <if0> ] [ __readonly__ TABLE_interface <interface> TABLE_member <port>
<pdus-sent> <pdus-rcvd> <marker-rcvd> <marker-resp-sent> <pkt-errors> [ <illegal-rcvd> ] [ <unknown-rcvd>
]
```

### Syntax Description

#### Syntax Description

show	Show running system information
lacp	LACP protocol
counters	LACP counters
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>TABLE_interface</i>	(Optional) Port channel table
<i>interface</i>	(Optional) Port channel
<i>TABLE_member</i>	(Optional) Member port info
<i>port</i>	(Optional) Member port
<i>pdus-sent</i>	(Optional) Number of PDUs sent
<i>pdus-rcvd</i>	(Optional) Number of PDUs received
<i>marker-rcvd</i>	(Optional) Number of Marker PDUs received
<i>marker-resp-sent</i>	(Optional) Number of Marker response PDUs sent
<i>pkt-errors</i>	(Optional) Number of packet errors
<i>illegal-rcvd</i>	(Optional) Number of illegal packets received
<i>unknown-rcvd</i>	(Optional) Number of unknown packets received

### Command Mode

- /exec

## show lacp interface

```
show lacp interface [ <if0> ] [ __readonly__ <interface> <operational-state> <channel-group> <port-channel>
<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

#### Syntax Description

show	Show running system information
lacp	LACP protocol
interface	Specify a interface
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Interface ID
<i>channel-group</i>	(Optional) Channel Group
<i>port-channel</i>	(Optional) Port Channel
<i>lag-id</i>	(Optional) LAG Id
<i>active-time</i>	(Optional) active-time
<i>operational-state</i>	(Optional) Operational State
<i>agg-or-indiv</i>	(Optional) Aggregate or individual port
<i>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

<i>localport</i>	(Optional) Local port information
<i>local-interface</i>	(Optional) Interface
<i>local-mac-address</i>	(Optional) MAC Address
<i>local-system-priority</i>	(Optional) System Priority
<i>local-port-priority</i>	(Optional) Port Priority
<i>local-port-num</i>	(Optional) Port Number
<i>local-op-key</i>	(Optional) Operational Key
<i>local-admin-state</i>	(Optional) Local Admin State
<i>local-oper-state</i>	(Optional) Local Oper State
<i>local-activity</i>	(Optional) Mode
<i>local-timeout</i>	(Optional) Timeout
<i>local-sync</i>	(Optional) Synchronization
<i>local-distributing</i>	(Optional) Distributing
<i>local-collecting</i>	(Optional) Collecting
<i>partner-info-timeout</i>	(Optional) Partner information refresh timeout
<i>partnerport</i>	(Optional) Partner port information
<i>partner-interface</i>	(Optional) Partner Interface
<i>partner-mac-address</i>	(Optional) Partner MAC Address
<i>partner-system-priority</i>	(Optional) Partner System Priority
<i>partner-port-priority</i>	(Optional) Partner Port Priority
<i>partner-port-num</i>	(Optional) Partner Port Number
<i>partner-op-key</i>	(Optional) Operational Key
<i>partner-admin-state</i>	(Optional) Partner Admin State
<i>partner-oper-state</i>	(Optional) Partner Oper State
<i>partner-activity</i>	(Optional) Mode
<i>partner-timeout</i>	(Optional) Timeout
<i>partner-sync</i>	(Optional) Synchronization
<i>partner-distributing</i>	(Optional) Distributing
<i>partner-collecting</i>	(Optional) Collecting

**Command Mode**

- /exec

## show lacp internal debug

```
show lacp internal debug [ interface <if0> ] [ __readonly__ <interface> <rx-state> <last-rx-time> <mux-state>
<mux-reason> <actor-churn-state> <partner-churn-state> <actor-churn-count> <partner-churn-count>
<actor-sync-trans-count> <partner-sync-trans-count> <actor-change-count> <partner-change-count> ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
lacp	LACP protocol
internal	Show lacp service internal status
debug	LACP debug
interface	(Optional) Specify a interface
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Ethernet interface
<i>rx-state</i>	(Optional) RX State
<i>last-rx-time</i>	(Optional) Last RX Time
<i>mux-state</i>	(Optional) MUX State
<i>mux-reason</i>	(Optional) MUX Reason
<i>actor-churn-state</i>	(Optional) Actor Churn state
<i>partner-churn-state</i>	(Optional) Partner Churn State
<i>actor-churn-count</i>	(Optional) Actor Churn Count
<i>partner-churn-count</i>	(Optional) Partner Churn Count
<i>actor-sync-trans-count</i>	(Optional) Actor Sync Transition Count
<i>partner-sync-trans-count</i>	(Optional) Partner Sync Transition Count
<i>actor-change-count</i>	(Optional) Actor Change Count
<i>partner-change-count</i>	(Optional) Partner Change Count

### Command Mode

- /exec



# show lacp internal debug buffer

show lacp internal debug buffer

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	lacp	Show LACP information
	internal	Show lacp service internal status
	debug	LACP debug
	buffer	LACP debug buffer

## Command Mode

- /exec

# show lacp internal event-history errors

show lacp internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
lacp		Show lacp information
internal		Show lacp service internal status
event-history		Show event logs of lacp
errors		Show error logs of lacp

## Command Mode

- /exec

# show lacp internal event-history global

show lacp internal event-history global

## Syntax Description

Syntax Description		
show	Show running system information	
lacp	Show lacp information	
internal	Show lacp service internal status	
event-history	Show event logs of lacp	
global	Show global event transition	

## Command Mode

- /exec

# show lacp internal event-history interface

show lacp internal event-history interface <if0>

## Syntax Description

Syntax Description		
show		Show running system information
lacp		Show lacp information
internal		Show lacp service internal status
event-history		Show event logs of lacp
interface		Show interface event transition
<i>if0</i>		Enter interface name

## Command Mode

- /exec

# show lacp internal event-history lock

show lacp internal event-history lock

## Syntax Description

Syntax Description		
show		Show running system information
lacp		Show lacp information
internal		Show lacp service internal status
event-history		Show event logs of lacp
lock		Show lock logs of lacp

## Command Mode

- /exec

# show lacp internal event-history msgs

show lacp internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
lacp		Show lacp information
internal		Show lacp service internal status
event-history		Show event logs of lacp
msgs		Show message logs of lacp

## Command Mode

- /exec

# show lacp internal info

```
show lacp internal info [ { global | all | log | reset } ]
```

## Syntax Description

Syntax	Description
show	Show running system information
lacp	Show lacp information
internal	Show lacp service internal status
info	Show internal information
all	(Optional) Show all the internal information
global	(Optional) Display lacp global info
reset	(Optional) Display lacp global info
log	(Optional) Display min-links log

## Command Mode

- /exec

# show lacp internal info interface

show lacp internal info interface <if0> [ detail { fsmlog } ]

## Syntax Description

Syntax Description	Description
show	Show running system information
lacp	Show lacp information
internal	Show lacp service internal status
info	Show internal information
interface	Display lacp interface info
detail	(Optional) For detailed dump
fsmlog	(Optional) For fsmlog dump
<i>if0</i>	Enter interface name

## Command Mode

- /exec



# show lacp internal mem-stats

show lacp internal mem-stats [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
lacp	Show lacp information
internal	Show lacp service internal status
mem-stats	Show memory allocation statistics of lacp
detail	(Optional) Show detail memstats for lacp

## Command Mode

- /exec

# show lacp internal mib

show lacp internal mib [ \_\_readonly\_\_ <tables-last-changed> ]

## Syntax Description

Syntax Description		
show		Show running system information
lacp		LACP protocol
internal		Show lacp service internal status
mib		Show lacp mib information
__readonly__		(Optional)
<i>tables-last-changed</i>	(Optional)	<i>tables-last-changed</i>

## Command Mode

- /exec

# show lacp issu-impact

```
show lacp issu-impact [ __readonly__ TABLE_interface <interface> ]
```

## Syntax Description

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
interface	(Optional)	Port-channel Member

## Command Mode

- /exec

## show lacp neighbor

```
show lacp neighbor [ interface <if0> ] [ __readonly__ TABLE_interface <interface> TABLE_member <port>
<partner-system-id> <partner-port-num> <partner-age> <partner-flags> <partner-port-priority>
<partner-oper-key> <partner-port-state> ]
```

### Syntax Description

#### 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

### 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

Syntax Description		
show	Show running system information	
lacp	LACP protocol	
system-identifier	Show system-identifier information	
<i>__readonly__</i>	(Optional)	
<i>system-priority</i>	(Optional) System priority	
<i>system-mac</i>	(Optional) System mac address	

## Command Mode

- /exec

## show ldap-search-map

```
show ldap-search-map [ __readonly__ { number_of_search_maps <search_map_count> } {
TABLE_ldap_searchmaps <map_name> [ <map_baseDN> <map_attr> <map_filter> ] } ]
```

### Syntax Description

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> } ]
```

### Syntax Description

#### Syntax Description

<i>__readonly__</i>	(Optional)
TABLE_ldap_hosts	(Optional) Ldap host configuration
global_timeout	(Optional) Ldap host global timeout
global_port	(Optional) Ldap host global port
global_deadtime	(Optional) Ldap host global deadtime
total_number_of_server	(Optional) Total number of ldap hosts configured
<i>g_servers_count</i>	(Optional) Total number of ldap hosts configured
<i>g_timeout</i>	(Optional) global timeout value
<i>g_port</i>	(Optional) Global ldap port
<i>g_deadtime</i>	(Optional) Global deadtime value
<i>ldap_host</i>	(Optional) Ldap host
<i>h_idletime</i>	(Optional) Ldap host idletime
<i>h_test_user</i>	(Optional) Ldap host testuser
<i>h_test_passwd</i>	(Optional) Ldap host password
<i>h_test_dn</i>	(Optional) Ldap testuser dn
<i>h_timeout</i>	(Optional) Ldap host timeout
<i>h_port</i>	(Optional) Ldap host port
<i>h_rootDN</i>	(Optional) Ldap host RootDN
<i>h_ssl_enable</i>	(Optional) Ldap host ssl configuration
show	Show running system information
ldap-server	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

#### 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
<i>TABLE_groups</i>	(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
<i>TABLE_g_servers</i>	(Optional) LDAP group server information
<i>g_server</i>	(Optional) LDAP group host
<i>g_port</i>	(Optional) LDAP group host port
<i>g_timeout</i>	(Optional) LDAP griup host timeout
<i>g_search_map</i>	(Optional) LDAP group search map

### Command Mode

- /exec

## show ldap-server statistics

```
show ldap-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } { { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_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

#### Syntax Description

show	Show running system information
ldap-server	Show LDAP configuration information
statistics	Show LDAP statistics
<i>host0</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>server_state</i>	(Optional) Show state of server
<i>clock_time</i>	(Optional) Show clock time in terms of hours, minutes and seconds
<i>monitoring_statistics</i>	(Optional) Monitoring Statistics
<i>time_in_pstate</i>	(Optional) Time in previous state
<i>ndead</i>	(Optional) Number of times dead
<i>tt_in_dstate</i>	(Optional) Total time in dead state
<i>auth_statistics</i>	(Optional) Authentication Statistics
<i>acct_statistics</i>	(Optional) Accounting Statistics
<i>auth_failed_transactions</i>	(Optional) Authentication: Failed transactions
<i>auth_succ_transactions</i>	(Optional) Authentication: Successful transactions
<i>auth_req_sent</i>	(Optional) Authentication: Requests sent
<i>auth_req_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

Syntax Description		
show		Show running system information
license		show the contents of all the license files
<i>__readonly__</i>	(Optional)	Read only
<i>lic_file_name</i>	(Optional)	Name of the license file
<i>lic_file_contents</i>	(Optional)	License file contents

## Command Mode

- /exec

# show license brief

```
show license brief [ __readonly__ { [ <lic_file_name> ] + } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
license		show the contents of all the license files
brief		Show a list of license files
<i>__readonly__</i>	(Optional)	Read only
<i>lic_file_name</i>	(Optional)	Name of the license file

## Command Mode

- /exec

# show license file

```
show license file <license-file> [ __readonly__ { [ <lic_file_contents> ] + } ]
```

## Syntax Description

### Syntax Description

show	Show running system information
license	Show the contents of all the license files
file	Show contents of a license file
<i>license-file</i>	Show the contents of license file __nil__ Please install a license before using this command.
<i>__readonly__</i>	(Optional) Read only
<i>lic_file_contents</i>	(Optional) License file contents

## Command Mode

- /exec

# show license host-id

```
show license host-id [ __readonly__ { <host_id> } ]
```

## Syntax Description

### 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
<i>__readonly__</i>	(Optional) Read only
<i>host_id</i>	(Optional) unique id for this host for licensing

## Command Mode

- /exec



# show license reserved

show license reserved

## Syntax Description

Syntax Description	
show	show commands
license	Display licensing information
reserved	Display reserved licenses information

## Command Mode

- /exec

## show license usage

```
show license usage [ { detail | <license-feature> } ] [ __readonly__ { TABLE_show_lic_usage <feature_name>
<lic_installed> <count> <status> <expiry_date> <comments> } <application_name> ]
```

### Syntax Description

Syntax Description		
	show	Show running system information
	license	show the contents of all the license files
	usage	Show license usage table
	detail	(Optional) Show license usage table
	<i>license-feature</i>	(Optional) Show services using license
	<i>__readonly__</i>	(Optional) Read only
	TABLE_show_lic_usage	(Optional) License usage
	<i>feature_name</i>	(Optional) Name of the feature
	<i>lic_installed</i>	(Optional) Is the license installed?
	<i>count</i>	(Optional) License count
	<i>status</i>	(Optional) License status
	<i>expiry_date</i>	(Optional) Expiry date of the license
	<i>comments</i>	(Optional) License comments
	<i>application_name</i>	(Optional) Name of the application using the license

### Command Mode

- /exec

# show line

```
show line [ __readonly__ <speed> <databits> <stopbits> <parity> <modem_in> <modem_init_str> <stat> [
TABLE_ps_output <ps> ] [ <speed_aux> <databits_aux> <stopbits_aux> <parity_aux> <modem_in_aux>
<modem_init_str_aux> <hw_fc_aux> <stat_aux> [ TABLE_ps_output_aux <ps_aux> ] ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
line	Show the line configuration
<i>__readonly__</i>	(Optional)
TABLE_ps_output	(Optional) Process info for console login
TABLE_ps_output_aux	(Optional) Process info for com1 login
<i>speed</i>	(Optional) Port speed(baud)
<i>databits</i>	(Optional) Bits per byte
<i>stopbits</i>	(Optional) Bits
<i>parity</i>	(Optional) Parity
<i>modem_in</i>	(Optional) Modem In
<i>modem_init_str</i>	(Optional) Modem Init-String
<i>stat</i>	(Optional) Statistics
<i>ps</i>	(Optional) Login process
<i>speed_aux</i>	(Optional) Port speed(baud)
<i>databits_aux</i>	(Optional) Bits per byte
<i>stopbits_aux</i>	(Optional) Bits
<i>parity_aux</i>	(Optional) Parity
<i>modem_in_aux</i>	(Optional) Modem In
<i>modem_init_str_aux</i>	(Optional) Modem Init-String
<i>hw_fc_aux</i>	(Optional) Hardware Flowcontrol
<i>stat_aux</i>	(Optional) Statistics
<i>ps_aux</i>	(Optional) Login process

## Command Mode

- /exec

# show line console

```
show line console [ __readonly__ <speed> <databits> <stopbits> <parity> <modem_in> <modem_init_str>
<stat> [ TABLE_ps_output <ps> ] ]
```

## Syntax Description

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

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

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
<i>__readonly__</i>		(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

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

### 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

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

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

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 internal event-history

show lisp internal event-history { cli | statistics | msgs | <lisp-event-hist> }

## Syntax Description

Syntax Description	show	Show running system information
	lisp	Display LISP library buffer msgs or errors
	internal	Commands for internal use
	event-history	Display various event logs for LISP
	cli	Show LISP CLI related events
	statistics	Show LISP event-history statistics
	msgs	Show LISP event-history of MTS messages
	<i>lisp-event-hist</i>	Show LISP event log

## Command Mode

- /exec

# show lisp internal info

show lisp internal info

## Syntax Description

Syntax	Description
show	Show running system information
lisp	LISP show commands
internal	Commands for internal use
info	Show internal lisp library information

## Command Mode

- /exec

# show lisp internal ip multicast routes

show lisp internal { ip | ipv6 } multicast routes

## Syntax Description

Syntax Description		
show	Show running system information	
lisp	Display LISP library buffer msgs or errors	
internal	Commands for internal use	
ip	Display IP information	
ipv6	Display IPv6 information	
multicast	Show multicast related information	
routes	Show multicast routes	

## Command Mode

- /exec /exec/configure/vrf

# show lisp internal library-info

show lisp internal library-info

## Syntax Description

Syntax Description		
show		Show running system information
lisp		Display LISP library buffer msgs or errors
internal		Commands for internal use
library-info		Show various event logs of library

## Command Mode

- /exec

# show lisp internal mem-stats

show lisp internal mem-stats [ no-libs ] [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
lisp	Display LISP memory usage information
internal	Commands for internal use
mem-stats	Show memory allocation statistics
no-libs	(Optional) Exclude libraries
detail	(Optional) Display detailed information

## Command Mode

- /exec



# show lisp internal pss dyn-eid-source

show lisp internal pss dyn-eid-source

## Syntax Description

Syntax Description		
	show	Show running system information
	lisp	Display LISP map cache entries
	internal	Commands for internal use
	pss	Display entries in PSS
	dyn-eid-source	Display discovered dynamic EID info in PSS

## Command Mode

- /exec

# show lisp internal pss map-cache

show lisp internal pss map-cache [ <eid-prefix> ]

## Syntax Description

Syntax Description	
show	Show running system information
lisp	Display LISP map cache entries
internal	Commands for internal use
pss	Display entries in PSS
map-cache	Display map cache entries
<i>eid-prefix</i>	(Optional) Display exact match for IP EID-prefix entry

## Command Mode

- /exec

# show lisp internal pss site

show lisp internal pss site [ <site-name> ]

## Syntax Description

Syntax Description	
show	Show running system information
lisp	Display LISP map cache entries
internal	Commands for internal use
pss	Display entries in PSS
site	Display site-eid entries in PSS
<i>site-name</i>	(Optional) VRF name

## Command Mode

- /exec

# show lisp internal ufdm-pending ip

show lisp internal ufdm-pending { ip | ipv6 }

## Syntax Description

Syntax Description		
show	Show running system information	
lisp	Display LISP library buffer msgs or errors	
internal	Commands for internal use	
ufdm-pending	Display UFDm pending download queue	
ip	Display IP information	
ipv6	Display IPv6 information	

## Command Mode

- /exec

# show lisp negative-prefix

```
show lisp negative-prefix { <eid> | <eid6> } [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

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

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

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

Syntax Description		
show	Show running system information	
lisp	LISP show commands	
site	Display Map-Server site EID-prefixes configured	
instance-id	Show instance-ID summary display	
<i>iid</i>	(Optional) Show detail for entries of a single Instance-ID	
vrf	(Optional) Display information for vrf	
<i>vrf-name</i>	(Optional) VRF name	
<i>vrf-known-name</i>	(Optional) Known VRF name	

## Command Mode

- /exec



# show lisp smr

```
show lisp smr [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
lisp		LISP show commands
smr		Display SMR state for dynamic-EIDs
vrf		(Optional) Display information for vrf
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name

## Command Mode

- /exec

# show lisp stats-cache

```
show lisp stats-cache [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

Syntax Description	show	Show running system information
	lisp	LISP show commands
	stats-cache	Show dynamic statistics cache
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

# show lldp all

```
show lldp all [ __readonly__ TABLE_lldp_all <intf_desc> <lldp_tx> <lldp_rx> <lldp_dcbx> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
lldp		Show lldp Protocol information
all		Show all interfaces in lldp database
<i>__readonly__</i>	(Optional)	Read only
<i>TABLE_lldp_all</i>	(Optional)	output of show lldp all
<i>intf_desc</i>	(Optional)	Interface desc
<i>lldp_tx</i>	(Optional)	lldp tx status
<i>lldp_rx</i>	(Optional)	lldp rx status
<i>lldp_dcbx</i>	(Optional)	lldp dcbx status

## Command Mode

- /exec

## show lldp dcbx interface

```
show lldp dcbx interface <if0> [ __readonly__ <interface> [ <l_op_ver> <l_max_ver> <l_seq_no> <l_ack_no>
[ <l_feature> <l_cfg_len> <l_cfg> ]+ ] [ <p_op_ver> <p_max_ver> <p_seq_no> <p_ack_no> [ <p_tlv_type>
<p_tlv_len> <p_tlv_value> ]+ ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
lldp	Show information about lldp
dcbx	Show dcbx information
interface	Show lldp interface information
<i>if0</i>	Enter interface
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Interface ID
<i>l_op_ver</i>	(Optional) local dcbx control operation version
<i>l_max_ver</i>	(Optional) local dcbx control maximum version
<i>l_seq_no</i>	(Optional) local dcbx control seq no
<i>l_ack_no</i>	(Optional) local dcbx control ack no
<i>l_feature</i>	(Optional) local feature
<i>l_cfg_len</i>	(Optional) local feature config length
<i>l_cfg</i>	(Optional) local feature config
<i>p_op_ver</i>	(Optional) peer dcbx control operation version
<i>p_max_ver</i>	(Optional) peer dcbx control maximum version
<i>p_seq_no</i>	(Optional) peer dcbx control seq no
<i>p_ack_no</i>	(Optional) peer dcbx control ack no
<i>p_tlv_type</i>	(Optional) peer TLV type field
<i>p_tlv_len</i>	(Optional) peer TLV len field
<i>p_tlv_value</i>	(Optional) peer TLV value field

### Command Mode

- /exec

# show lldp entry

```
show lldp entry [ <sys-name> ] [ __readonly__ { <neigh_hdr> } { TABLE_entry <chassis_type> <chassis_id>
<port_type> <port_id> <l_port_id> <port_desc> <sys_name> <sys_desc> <ttl> <capability>
<mgmt_addr_type> <mgmt_addr> <mgmt_addr_ipv6_type> <mgmt_addr_ipv6> <vlan_id> } { <neigh_count>
} ]
```

## Syntax Description

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)	
<i>TABLE_entry</i>	(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

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) dcxb 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 dcxb control operation version
<i>l_max_ver</i>	(Optional) local dcxb control maximum version
<i>l_seq_no</i>	(Optional) local dcxb control seq no
<i>l_ack_no</i>	(Optional) local dcxb 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 dcxb control operation version
<i>p_max_ver</i>	(Optional) peer dcxb control maximum version
<i>p_seq_no</i>	(Optional) peer dcxb control seq no

---

*p\_ack\_no* (Optional) peer dcba control ack no

---

*p\_tlv\_type* (Optional) peer TLV type field

---

*p\_tlv\_len* (Optional) peer TLV len field

---

*p\_tlv\_value* (Optional) peer TLV value field

---

**Command Mode**

- /exec



# show lldp neighbors

```
show lldp neighbors [ interface <if> ] [ __readonly__ { <neigh_hdr> } { TABLE_nbor <chassis_type>
<chassis_id> <l_port_id> <ttl> <capability> <system_capability> <enabled_capability> <port_type> <port_id>
<mgmt_addr_type> <mgmt_addr> <mgmt_addr_ipv6_type> <mgmt_addr_ipv6> } { <neigh_count> } ]
```

## Syntax Description

Syntax Description	
show	Show running system information
lldp	Show information about lldp
neighbors	Show lldp neighbor information
interface	(Optional) Show lldp neighbor information on an interface
<i>if</i>	(Optional) Enter interface
<i>__readonly__</i>	(Optional)
<i>neigh_hdr</i>	(Optional)
TABLE_nbor	(Optional) Neighbor Table
<i>chassis_type</i>	(Optional) Chassis ID type
<i>chassis_id</i>	(Optional) Chassis ID
<i>l_port_id</i>	(Optional) Local port ID
<i>ttl</i>	(Optional) Time to live
<i>capability</i>	(Optional) Capability
<i>system_capability</i>	(Optional) System Capability
<i>enabled_capability</i>	(Optional) Enabled Capability
<i>port_type</i>	(Optional) Port ID type
<i>port_id</i>	(Optional) Port ID
<i>mgmt_addr_type</i>	(Optional) Management Address type
<i>mgmt_addr</i>	(Optional) Management Address
<i>mgmt_addr_ipv6_type</i>	(Optional) IPV6 Management Address type
<i>mgmt_addr_ipv6</i>	(Optional) IPV6 Management Address
<i>neigh_count</i>	(Optional)

## Command Mode

- /exec

## show lldp neighbors detail

```
show lldp neighbors [ interface <if> ] detail [ __readonly__ { <neigh_hdr> } { TABLE_nbor_detail
<chassis_type> <chassis_id> <port_type> <port_id> <l_port_id> <port_desc> <sys_name> <sys_desc> <ttl>
<capability> <system_capability> <enabled_capability> <mgmt_addr_type> <mgmt_addr>
<mgmt_addr_ipv6_type> <mgmt_addr_ipv6> <vlan_id> <invalid_vlan_id> } { <neigh_count> } ]
```

### Syntax Description

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

---

*mgmt\_addr\_ipv6\_type* (Optional) IPV6 Management Address type

---

*mgmt\_addr\_ipv6* (Optional) IPV6 Management Address

---

*vlan\_id* (Optional) Vlan ID

---

*invalid\_vlan\_id* (Optional) Invalid Vlan ID

---

*neigh\_count* (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

Syntax Description	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

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

### Syntax Description

show	Show running system information
lldp	Show information about lldp
timers	Show lldp timers
<i>__readonly__</i>	(Optional)
<i>ttl</i>	(Optional) Time to Live for lldp info
<i>reinit</i>	(Optional) Interface reinit timer
<i>tx_interval</i>	(Optional) Wait interval between successive transmit
<i>tx_delay</i>	(Optional) Delay between successive frame transmissions
<i>hold_mplier</i>	(Optional) Hold multiplier for ttl
<i>notification_interval</i>	(Optional) Notification interval for SNMP trap

## Command Mode

- /exec

# show lldp tlv-select

```
show lldp tlv-select [ __readonly__ <management-address-v4> <management-address-v6> <port-description>
<port-vlan> <system-capabilities> <system-description> <system-name> <dcbxp> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
lldp		Show information about lldp
tlv-select		Show lldp tlv-select
<i>__readonly__</i>	(Optional)	
<i>management-address-v4</i>	(Optional)	Management address v4
<i>management-address-v6</i>	(Optional)	Management address v6
<i>port-description</i>	(Optional)	Port description
<i>port-vlan</i>	(Optional)	Port vlan
<i>system-capabilities</i>	(Optional)	System capabilities
<i>system-description</i>	(Optional)	System description
<i>system-name</i>	(Optional)	System name
<i>dcbxp</i>	(Optional)	DCBXP

## Command Mode

- /exec

# show lldp traffic

show lldp traffic [ *\_\_readonly\_\_* <tx\_cnt> <aged\_cnt> <rx\_cnt> <rx\_err> <disc\_cnt> <unrecognized\_tlv> ]

## Syntax Description

Syntax Description		
show	Show running system information	
lldp	Show information about lldp	
traffic	Show lldp counters	
<i>__readonly__</i>	(Optional)	
<i>tx_cnt</i>	(Optional) Transmit count	
<i>aged_cnt</i>	(Optional) Aged out count	
<i>rx_cnt</i>	(Optional) Received count	
<i>rx_err</i>	(Optional) Received error count	
<i>disc_cnt</i>	(Optional) Disconnect count	
<i>unrecognized_tlv</i>	(Optional) Unrecognized TLV count	

## Command Mode

- /exec



# show lldp traffic interface

```
show lldp traffic interface <if> [ __readonly__ <interface> <tx_cnt> <aged_cnt> <rx_cnt> <rx_err> <disc_cnt>
<unrecognized_tlv> ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
lldp	Show information about lldp	
traffic	Show lldp counters	
interface	Show lldp traffic counters on an interface	
<i>if</i>	Enter interface	
<i>__readonly__</i>	(Optional)	
<i>interface</i>	(Optional) Interface ID	
<i>tx_cnt</i>	(Optional) Transmit count	
<i>aged_cnt</i>	(Optional) Aged out count	
<i>rx_cnt</i>	(Optional) Received count	
<i>rx_err</i>	(Optional) Received error count	
<i>disc_cnt</i>	(Optional) Disconnect count	
<i>unrecognized_tlv</i>	(Optional) Unrecognized TLV count	

## Command Mode

- /exec

# show locator-led status

```
show locator-led status [ __readonly__ { TABLE_loc_led_stat <component> <status> } ]
```

## Syntax Description

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

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

---

### Syntax Description

---

show Show running system information

---

logging Show logging configuration and contents of logfile

---

console Show console logging configuration

---

## Command Mode

- /exec

## show logging info

```
show logging info [ __readonly__ { <console_status> [ <console_severity> ] } { <monitor_status> [
<monitor_severity> ] } { <linecard_status> [ <linecard_severity> ] } { <log_timestamp> } [ {
<source_interface_status> } [ <source_interface_intf> | <source_interface_intf_index> <source_interface_error>
] ] { <server_status> [ { TABLE_logserver <server> <forwarding> <severity> <facility> <vrf> <port> } ] } { {
<origin_id_status> } [ <origin_id> ] } [ [ <logflash_status> ] [ <logflash_severity> ] ] { <logfile_status> [
<logfile_name> <logfile_severity> <logfile_size> ] } { { TABLE_facility <fac_name> <def_level> <cur_level>
} { <fac_info> } } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
info	Show logging configuration
<i>__readonly__</i>	(Optional)
<i>console_status</i>	(Optional) console logging status
<i>console_severity</i>	(Optional) console logging level
<i>monitor_status</i>	(Optional) monitor logging status
<i>monitor_severity</i>	(Optional) monitor logging level
<i>linecard_status</i>	(Optional) linecard logging status
<i>linecard_severity</i>	(Optional) linecard logging level
<i>log_timestamp</i>	(Optional) timestamp unit
<i>source_interface_status</i>	(Optional) source-interface logging status
<i>source_interface_intf</i>	(Optional) source-interface interface
<i>server_status</i>	(Optional) logging server status
TABLE_logserver	(Optional) output of show logging server
<i>origin_id_status</i>	(Optional) origin-id status
<i>origin_id</i>	(Optional) origin-id
<i>logflash_status</i>	(Optional) logflash status
<i>logflash_severity</i>	(Optional) logflash level
<i>logfile_status</i>	(Optional) logfile status
TABLE_facility	(Optional) output of show logging level(facility)

---

*fac\_info* (Optional) level info

---

**Command Mode**

- /exec

# show logging internal info

show logging internal info

## Syntax Description

Syntax	Description
show	Show running system information
logging	Show logging configuration
internal	logging internal information
info	logging internal information

## Command Mode

- /exec

# show logging last

show logging last <i0>

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

logging Show logging configuration and contents of logfile

---

last Show last few lines of logfile

---

*i0* Enter number of lines to display

---

## Command Mode

- /exec



# show logging level

show logging level [ { auth | authpriv | cron | daemon | ftp | kernel | local0 | local1 | local2 | local3 | local4 | local5 | local6 | local7 | lpr | mail | news | syslog | user | uucp } ]

## Syntax Description

### Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
auth	(Optional) Show Authorization System logging configuration
authpriv	(Optional) Show Authorization (Private) logging configuration
cron	(Optional) Show Cron/at facility logging configuration
daemon	(Optional) Show System daemons logging configuration
ftp	(Optional) Show File Transfer System logging configuration
kernel	(Optional) Show kernel logging configuration
local0	(Optional) Show Local use daemons logging configuration
local1	(Optional) Show Local use daemons logging configuration
local2	(Optional) Show Local use daemons logging configuration
local3	(Optional) Show Local use daemons logging configuration
local4	(Optional) Show Local use daemons logging configuration
local5	(Optional) Show Local use daemons logging configuration
local6	(Optional) Show Local use daemons logging configuration
local7	(Optional) Show Local use daemons logging configuration
lpr	(Optional) Show Line Printer System logging configuration
mail	(Optional) Show Mail System logging configuration
news	(Optional) Show USENET news logging configuration
syslog	(Optional) Show Internal Syslog Messages logging configuration
user	(Optional) Show user process logging configuration
uucp	(Optional) Show Unix-to-Unix copy system logging configuration

## Command Mode

- /exec

# show logging level aaa

show logging level aaa

## Syntax Description

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 aclmgr

show logging level aclmgr

## Syntax Description

---

### 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

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

---

### 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

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

---

### 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

<b>Syntax Description</b>	show	Show running system information
	logging	Show logging configuration and contents of logfile
	level	Show facility logging configuration
	ascii-cfg	Show ascii-cfg logging configuration

## Command Mode

- /exec

# show logging level bfd

show logging level bfd

## Syntax Description

---

### 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

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

---

### 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

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

---

### 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

Syntax Description	
show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
capability	Show capability logging configuration

## Command Mode

- /exec

# show logging level cdp

show logging level cdp

## Syntax Description

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

Syntax Description	
show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
cert-enroll	Show Cert-enroll logging configuration

## Command Mode

- /exec

# show logging level cert\_enroll

show logging level cert\_enroll

## Syntax Description

---

### 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

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

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

<b>Syntax Description</b>	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

---

### 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

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

---

### 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

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

Syntax Description		
show	Show running system information	
logging	Show logging configuration and contents of logfile	
level	Show facility logging configuration	
dhcp_snoop	Show DHCP snoop logging configuration	

## Command Mode

- /exec

# show logging level diagnostic device\_test

show logging level diagnostic device\_test

## Syntax Description

Syntax	Description
show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
diagnostic	Diagnostic commands
device_test	Show device_test logging configuration

## Command Mode

- /exec

# show logging level diagnostic diagclient

show logging level diagnostic diagclient

## Syntax Description

---

### 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

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

---

### Syntax Description

---

show Show running system information

---

logging Show logging configuration and contents of logfile

---

level Show facility logging configuration

---

dot1x Show dot1x logging configuration

---

## Command Mode

- /exec

# show logging level eigrp

show logging level eigrp [ <eigrp-ptag> ]

## Syntax Description

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

---

### 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 ethdstats

show logging level ethdstats

## Syntax Description

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

---

### 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

<b>Syntax Description</b>	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

---

### 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

<b>Syntax Description</b>	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

---

### 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

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 feature-mgr

show logging level feature-mgr

## Syntax Description

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

Syntax Description	
show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
fs-daemon	Show fs-daemon logging configuration

## Command Mode

- /exec

# show logging level glbp

show logging level glbp

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

logging Show logging configuration and contents of logfile

---

level Show facility logging configuration

---

glbp Show glbp logging settings

---

## Command Mode

- /exec

# show logging level gpixm

show logging level gpixm

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	logging	Show logging configuration and contents of logfile
	level	Show facility logging configuration
	gpixm	Show global-pixm logging configuration

## Command Mode

- /exec

# show logging level hsrp

show logging level hsrp

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

logging Show logging configuration and contents of logfile

---

level Show facility logging configuration

---

hsrp Show HSRP logging configuration

---

## Command Mode

- /exec

# show logging level im

show logging level im

## Syntax Description

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

---

### 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

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

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

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 pim

show logging level ip pim

## Syntax Description

Syntax	Description
show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	Display IP information
pim	Show pim logging configuration

## Command Mode

- /exec

# show logging level ip sla responder

show logging level ip sla responder

## Syntax Description

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

### Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ip	
sla	Service Level Agreement (SLA)
sender	Show sla-sender logging configuration

## Command Mode

- /exec

# show logging level ipconf

```
show logging level ipconf [ ipv6 ]
```

## Syntax Description

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

Syntax	Description
show	show
logging	logging
level	level
ipfib	ipfib

## Command Mode

- /exec

# show logging level ipqos

show logging level ipqos

## Syntax Description

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

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

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

---

### 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

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

---

**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

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

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

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

---

### 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

---

### 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

---

### 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

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

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 mmode

show logging level mmode

## Syntax Description

<b>Syntax Description</b>	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

---

### 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

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

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

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

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

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

---

### 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

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

---

### 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

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

---

### Syntax Description

---

show Show running system information

---

logging Show logging configuration and contents of logfile

---

level Show facility logging configuration

---

nfm Show NFM logging configuration

---

## Command Mode

- /exec



# show logging level ngoam

show logging level ngoam

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	logging	Show logging configuration and contents of logfile
	level	Show facility logging configuration
	ngoam	Show ngoam logging level

## Command Mode

- /exec

# show logging level ntp

show logging level ntp

## Syntax Description

---

### 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

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 onep

show logging level onep

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

logging Show logging configuration and contents of logfile

---

level Show facility logging configuration

---

onep One Platform

---

## Command Mode

- /exec

# show logging level openflow

show logging level openflow

## Syntax Description

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

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

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

Syntax Description	
show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
otv	Show OTV logging configuration

## Command Mode

- /exec



# show logging level otv isis

show logging level otv isis

## Syntax Description

Syntax Description	
show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
otv	Show OTV ISIS logging configuration
isis	Show OTV ISIS logging configuration

## Command Mode

- /exec

# show logging level pfstat

show logging level pfstat

## Syntax Description

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

Syntax Description	
show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
ipv6	(Optional) Display IPv6 information
pim	Show pim6 logging configuration

## Command Mode

- /exec

# show logging level pixm

show logging level pixm

## Syntax Description

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

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

---

### Syntax Description

---

show Show running system information

---

logging Show logging configuration and contents of logfile

---

level Show facility logging configuration

---

platform Show platform logging configuration

---

## Command Mode

- /exec

# show logging level plcmgr

show logging level plcmgr

## Syntax Description

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

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

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

---

### Syntax Description

---

show Show running system information

---

logging Show logging configuration and contents of logfile

---

level Show facility logging configuration

---

poap Show poap logging configuration

---

## Command Mode

- /exec

# show logging level port-profile

show logging level port-profile

## Syntax Description

Syntax Description		
show	Show running system information	
logging	Show logging configuration and contents of logfile	
level	Show facility logging configuration	
port-profile	Show syslog level for port-profile	

## Command Mode

- /exec

# show logging level port-security

show logging level port-security

## Syntax Description

---

**Syntax Description**

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
port-security	Show port-security logging configuration

---

**Command Mode**

- /exec

# show logging level private-vlan

show logging level private-vlan

## Syntax Description

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

---

### 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

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

---

### 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

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 rpm

show logging level rpm

## Syntax Description

---

### 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

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 scheduler

show logging level scheduler

## Syntax Description

---

### 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

Syntax Description	
show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
security	Show security logging configuration

## Command Mode

- /exec

# show logging level session-mgr

show logging level session-mgr

## Syntax Description

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

Syntax Description	
show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
sflow	Show sFlow logging configuration

## Command Mode

- /exec

# show logging level smm

show logging level smm

## Syntax Description

---

### 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

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

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

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 stripcl

show logging level stripcl

## Syntax Description

---

### 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

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

---

### 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 track

show logging level track

## Syntax Description

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

---

### 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 u6rib

show logging level u6rib

## Syntax Description

<b>Syntax Description</b>	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

---

### 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 urib

show logging level urib

## Syntax Description

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

---

### 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

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 vmm

show logging level vmm

## Syntax Description

---

### 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

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

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

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

---

### 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

<b>Syntax Description</b>	show	Show running system information
	logging	Show logging configuration and contents of logfile
	level	Show facility logging configuration
	vrrpv3	level for vrrpv3 configuration

## Command Mode

- /exec

# show logging level vshd

show logging level vshd

## Syntax Description

---

### 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 xbar

show logging level xbar

## Syntax Description

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

---

### 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

<b>Syntax Description</b>	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

---

### 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

<b>Syntax Description</b>	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

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

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

---

### 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

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

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

### 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

#### Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
onboard	Show OBFL information
card-first-power-on	(Optional) show card first power on information
card-boot-history	(Optional) show card boot history
endtime	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s0</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
error-stats	(Optional) Show OBFL error statistics
port	(Optional) Show OBFL error statistics for a port
<i>i0</i>	(Optional)
<i>common_options</i>	(Optional) give the options
port1	(Optional) Show OBFL error statistics for a port
<i>i1</i>	(Optional)
module	(Optional) Show OBFL information for Module
<i>module</i>	(Optional) Enter module number
endtime1	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s1</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
port3	(Optional) Show OBFL error statistics for a port
<i>i3</i>	(Optional)



port4	(Optional) Show OBFL error statistics for a port
<i>i4</i>	(Optional)
starttime	(Optional) Show OBFL logs from start time mm/dd/yy-HH:MM:SS
<i>s2</i>	(Optional) Start time format - mm/dd/yy-HH:MM:SS
endtime2	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s3</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
port6	(Optional) Show OBFL error statistics for a port
<i>i6</i>	(Optional)
port7	(Optional) Show OBFL error statistics for a port
<i>i7</i>	(Optional)
starttime1	(Optional) Show OBFL logs from start time mm/dd/yy-HH:MM:SS
<i>s4</i>	(Optional) Start time format - mm/dd/yy-HH:MM:SS
endtime3	(Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS
<i>s5</i>	(Optional) End time format - mm/dd/yy-HH:MM:SS
port8	(Optional) Show OBFL error statistics for a port
<i>i8</i>	(Optional)
port9	(Optional) Show OBFL error statistics for a port
<i>i9</i>	(Optional)
obfl-logs	(Optional) Show OBFL Tech Support Log.
timeout-drops	(Optional) Show OBFL Timeout Drops logs
port10	(Optional) Show OBFL statistics per port basis
<i>i10</i>	(Optional)
credit-loss	(Optional) Show OBFL Credit Loss logs
last	(Optional) Show last min/hour/day logs
<i>last_no</i>	(Optional) Duration in min/hrs/day
minutes	(Optional) entry in minutes
hours	(Optional) entry in hours
days	(Optional) entry in days
request-timeout	(Optional) Show OBFL request timeout log

---

flow-control	(Optional) Show OBFL Flow Control log
pause-count	(Optional) Show Flow Control Pause Count Logs
pause-events	(Optional) Show Flow Control Pause Event Logs

---

**Command Mode**

- /exec

# show logging onboard kernel-trace

show logging onboard kernel-trace

## Syntax Description

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

---

### 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

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

---

### Syntax Description

---

show Show running system information

---

logging Show logging configuration and contents of logfile

---

pending server address pending configuration

---

## Command Mode

- /exec

# show logging server

```
show logging server [ __readonly__ [ <noentry> ] [ { TABLE_logserv <server> <forwarding> <severity>
<facility> <vrf> <port> } ] ]
```

## Syntax Description

Syntax Description		
<code>show</code>		Show running system information
<code>logging</code>		Show logging configuration and contents of logfile
<code>server</code>		Show server logging configuration
<code>__readonly__</code>	(Optional)	
<code>noentry</code>	(Optional)	logging server not configured
<code>TABLE_logserv</code>	(Optional)	output of show logging server
<code>server</code>	(Optional)	remote server address
<code>forwarding</code>	(Optional)	remote server forwarding
<code>severity</code>	(Optional)	remote server severity
<code>facility</code>	(Optional)	remote server facility
<code>vrf</code>	(Optional)	remote server vrf
<code>port</code>	(Optional)	remote server port

## Command Mode

- /exec

# show logging session status

show logging session status

## Syntax Description

---

### 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

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

---

### 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

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

```
show login [ __readonly__ [ <acc_list> <attempts> ] [ <within> <block_for> <time> ] [ <fail_count> ] ]
```

## Syntax Description

### Syntax Description

<code>show</code>	Show running system information
<code>login</code>	Display Secure Login Configurations and State
<code>__readonly__</code>	(Optional)
<code>acc_list</code>	(Optional) Applied ACL's
<code>attempts</code>	(Optional) Number of login failures
<code>within</code>	(Optional) Number of login failures within time
<code>block_for</code>	(Optional) Login disabled for time
<code>time</code>	(Optional) Time remaining to re-enable login
<code>fail_count</code>	(Optional) Login failure count

## Command Mode

- /exec

# show login failures

```
show login failures [ __readonly__ [ { TABLE_loginStats <username> <port> <remote_addr> <app_name>
<time> } ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
login		Secure Login
failures		Display Login failures in the current watch period
__readonly__	(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 login on-failure log

show login on-failure log [ *\_\_readonly\_\_* [ *<status>* ] ]

## Syntax Description

Syntax Description		
show	show	
login	login	
on-failure	authentication failure	
log	Log	
<i>__readonly__</i>	(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

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**





## M Show Commands

---

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# show mac-list

```
show mac-list { [ <mac_list_name> [ { seq <seq_no> | { <mac_addr> [ <mac_mask> } ] } ] ] } [ __readonly__
TABLE_mac_list <name> <seq> <action> <rule> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
mac-list		Show mac-lists
<i>mac_list_name</i>	(Optional)	Name of mac list
seq	(Optional)	Sequence number
<i>seq_no</i>	(Optional)	Sequence number
<i>mac_addr</i>	(Optional)	MAC address
<i>mac_mask</i>	(Optional)	MAC mask
<i>__readonly__</i>	(Optional)	
TABLE_mac_list	(Optional)	
<i>name</i>	(Optional)	
<i>seq</i>	(Optional)	
<i>action</i>	(Optional)	
<i>rule</i>	(Optional)	

## Command Mode

- /exec

## show mac address-table multicast

```
show mac address-table multicast [ vlan <vlan> ] [ __readonly__ { TABLE_vlan <vlan-id> <mac-addr>
<type> <age> <oifs> } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
mac	MAC configuration commands	
address-table	MAC Address Table	
multicast	Multicast MAC Table entries	
vlan	(Optional) VLAN/BD	
<i>vlan</i>	(Optional) VLAN/BD	
<i>__readonly__</i>	(Optional)	
<i>TABLE_vlan</i>	(Optional)	
<i>vlan-id</i>	(Optional)	
<i>mac-addr</i>	(Optional)	
<i>type</i>	(Optional)	
<i>age</i>	(Optional)	
<i>oifs</i>	(Optional)	

### Command Mode

- /exec

# show mac vdc

```
show mac vdc <vdc_id> [ __readonly__ <vdc_id> <mac_address> ]
```

## Syntax Description

### Syntax Description

show	show
mac	show management port mac address of the given vdc
vdc	show management port mac address of this vdc id
<i>vdc_id</i>	please enter vdc id
<i>__readonly__</i>	(Optional)
<i>vdc_id</i>	(Optional)
<i>mac_address</i>	(Optional)

## Command Mode

- /exec

# show macsec-policy

```
show macsec-policy [ <policy_name> ] [ __readonly__ <name> <cipher_suite> <conf_offset>
<keyserver_priority> <security_policy> <window_size> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
macsec-policy		Show macsec policy information
<i>policy_name</i>	(Optional)	Name of Policy
<i>__readonly__</i>	(Optional)	
<i>name</i>	(Optional)	Policy Name
<i>cipher_suite</i>	(Optional)	Cipher Suite
<i>conf_offset</i>	(Optional)	Confidentiality Offset
<i>keyserver_priority</i>	(Optional)	KeyServer Priority
<i>security_policy</i>	(Optional)	Security Policy
<i>window_size</i>	(Optional)	Window Size

## Command Mode

- /exec

# show macsec mka summary

show macsec mka summary

## Syntax Description

Syntax	Description
show	Show running system information
macsec	Show macsec information
mka	Show mka information
summary	Show mka summary information

## 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

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

Syntax Description		
show	Show running system information	
maintenance	maintenance	
profile	maintenance profile	
<i>mode</i>	(Optional)	
<i>__readonly__</i>	(Optional)	
<i>TABLE_profile</i>	(Optional)	
<i>name</i>	(Optional) profile name	
<i>TABLE_cfg</i>	(Optional)	
<i>cfg</i>	(Optional) profile config	

## Command Mode

- /exec

# show maintenance snapshot-delay

```
show maintenance snapshot-delay [ __readonly__ <delay> ]
```

## Syntax Description

Syntax	Description
<code>show</code>	Show running system information
<code>maintenance</code>	<code>maintenance</code>
<code>snapshot-delay</code>	<code>after_maintenance</code> snapshot delay value
<code>__readonly__</code>	(Optional)
<code>delay</code>	(Optional) delay value in seconds

## Command Mode

- /exec

# show maintenance timeout

show maintenance timeout [ *\_\_readonly\_\_* <timeout> ]

## Syntax Description

Syntax Description		
show		Show running system information
maintenance		maintenance
timeout		timeout value
<i>__readonly__</i>		(Optional)
<i>timeout</i>		(Optional) timeout value

## Command Mode

- /exec

# show mgmt-policy

```
show mgmt-policy { <policy-name> | all } [ __readonly__ { TABLE_mgmt_policy { <mgt-pol-name> [
<source-ip> <source-mask> ] [ <source-ip6> ] [ <src-port-rangestart> <src-port-range-end> ] [ <source-port>
] [ <dst-port-rangestart> <dest-port-range-end> ] [ <dest-port> ] } } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
mgmt-policy		PM Management policy
<i>policy-name</i>		Name of the policy
all		Show all policies
<i>__readonly__</i>		(Optional)
TABLE_mgmt_policy	(Optional)	Management policy Details
<i>mgt-pol-name</i>		(Optional)
<i>source-ip</i>		(Optional)
<i>source-mask</i>		(Optional)
<i>src-port-rangestart</i>		(Optional)
<i>src-port-range-end</i>		(Optional)
<i>source-port</i>		(Optional)
<i>dst-port-rangestart</i>		(Optional)
<i>dest-port-range-end</i>		(Optional)
<i>dest-port</i>		(Optional)

## Command Mode

- /exec

## show module

```
show module [ { <module> } | { <s0> [ <santa-cruz-range> ] } | { fabric [ <module> ] } ] [ __readonly__ {
TABLE_modinfo <modinf> <ports> <modtype> <model> <status> } [ { TABLE_modpwrinfo <modpwr>
<pwrstat> <reason> } ] { TABLE_modwwninfo <modwwn> <sw> <hw> <slottype> } [ { TABLE_modapplinfo
<modappl> <desc> <applver> } ] { TABLE_modmacinfo <modmac> <mac> <serialnum> } {
TABLE_moddiaginfo <mod> <diagstatus> } { TABLE_xbarinfo <xbarinf> <xbarports> <xbartype>
<xbarmodel> <xbarstatus> } [ { TABLE_xbarpwrinfo <xbarpwr> <xbarpwrstat> <xbarreason> } ] {
TABLE_xbarwwninfo <xbarwwn> <xbarsw> <xbarhw> <xbarwwnstr> } { TABLE_xbarmacinfo <xbarmac>
<xbarmacaddr> <xbarserialnum> } ]
```

### Syntax Description

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

Syntax Description		
show		Show running system information
module		Show module information
<i>module</i>		Enter module number
bandwidth-fairness		Show bandwidth fairness status
<i>__readonly__</i>		(Optional)
<i>TABLE_fairness</i>		(Optional)
<i>statement</i>		(Optional)

## Command Mode

- /exec

# show module internal activity

```
show module internal activity { module1 <module> | <s0> <santa-cruz-range> }
```

## Syntax Description

Syntax Description		
show		Show running system information
module		Show module information
internal		Show line card manager related info
activity		Show internal module activity log
module1		Show per-module activity log
<i>module</i>		Enter module number
<i>s0</i>		Show xbar activity log
<i>santa-cruz-range</i>		please enter the xbar number

## Command Mode

- /exec

# show module internal all

```
show module internal all [ { module1 <module> | <s0> <santa-cruz-range> } ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	module	Show module information
	internal	Show line card manager related info
	all	Show all internal module information
	module1	(Optional) Show internal module information
	<i>module</i>	(Optional) Enter module number
	<i>s0</i>	(Optional) Show internal xbar information
	<i>santa-cruz-range</i>	(Optional) please enter the xbar number

## Command Mode

- /exec

# show module internal errors

show module internal [ event-history ] errors

## Syntax Description

---

### Syntax Description

---

show	Show running system information
module	Show module information
internal	Show line card manager related info
event-history	(Optional) Show various event logs of module
errors	Show error logs of module

---

## Command Mode

- /exec

# show module internal event-history

show module internal event-history <s0> <santa-cruz-range>

## Syntax Description

Syntax Description		
	show	Show running system information
	module	Show module information
	internal	Show line card manager related info
	event-history	Show various event logs of module
	s0	Show event log of a xbar
	santa-cruz-range	please enter the xbar number

## Command Mode

- /exec

# show module internal event-history module1

show module internal event-history module1 <module>

## Syntax Description

Syntax Description		
show		Show running system information
module		Show module information
internal		Show line card manager related info
event-history		Show various event logs of module
module1		Show event log of a module
<i>module</i>		Enter module number

## Command Mode

- /exec

# show module internal event-history stats

show module internal event-history stats

## Syntax Description

Syntax Description		
	show	Show running system information
	module	Show module information
	internal	Show line card manager related info
	event-history	Show various event logs of module
	stats	Show MODULE state transition stats

## Command Mode

- /exec

# show module internal exceptionlog

show module internal exceptionlog

## Syntax Description

Syntax Description		
	show	Show running system information
	module	Show module information
	internal	Show line card manager related info
	exceptionlog	exception log information

## Command Mode

- /exec



# show module internal exceptionlog internal1 event-history all

show module internal exceptionlog internal1 event-history all

## Syntax Description

Syntax Description		
show		Show running system information
module		Show module information
internal		Show line card manager related info
exceptionlog		exception log information
internal1		shows expl internal info
event-history		Show expl internal event history
all		Show all expl internal information

## Command Mode

- /exec

# show module internal exceptionlog internal1 event-history errors

show module internal exceptionlog internal1 event-history errors

## Syntax Description

Syntax Description		
show	Show running system information	
module	Show module information	
internal	Show line card manager related info	
exceptionlog	exception log information	
internal1	shows expl internal info	
event-history	Show expl internal event history	
errors	Show expl internal error history	

## Command Mode

- /exec

# show module internal exceptionlog internal1 event-history msgs

show module internal exceptionlog internal1 event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
module		Show module information
internal		Show line card manager related info
exceptionlog	exception log	information
internal1		shows expl internal info
event-history		Show expl internal event history
msgs		Show expl internal message history

## Command Mode

- /exec

# show module internal exceptionlog module1

show module internal exceptionlog module1 <module>

## Syntax Description

Syntax Description		
show	Show running system information	
module	Show module information	
internal	Show line card manager related info	
exceptionlog	exception log information	
module1	per module exception log information	
<i>module</i>	please enter module number	

## Command Mode

- /exec

# show module internal info

show module internal info [ module1 <module> ]

## Syntax Description

Syntax Description	
show	Show running system information
module	Show module information
internal	Show line card manager related info
info	Show internal module information
module1	(Optional) Show per-module internal information
<i>module</i>	(Optional) Enter module number

## Command Mode

- /exec

# show module internal lock

show module internal lock

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

module Show module information

---

internal Show line card manager related info

---

lock Show lock logs of lcm

---

## Command Mode

- /exec

# show module internal mem-stats

show module internal mem-stats [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
module	Show module information
internal	Show line card manager related info
mem-stats	Show memory allocation statistics of module
detail	(Optional) Show detail memstats for module

## Command Mode

- /exec

# show module internal msgs

show module internal [ event-history ] msgs

## Syntax Description

### Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
event-history	(Optional) Show various event logs of module
msgs	Show message logs of module

## Command Mode

- /exec



# show module internal sequence lc

show module internal sequence lc

## Syntax Description

Syntax Description	
show	Show running system information
module	Show module information
internal	Show line card manager related info
sequence	Show sequence of interaction by module
lc	Show sequence of interaction for linecard module

## Command Mode

- /exec

# show module internal sequence sup

show module internal sequence sup

## Syntax Description

Syntax Description	
show	Show running system information
module	Show module information
internal	Show line card manager related info
sequence	Show sequence of interaction by module
sup	Show sequence of interaction for supervisor

## Command Mode

- /exec

# show module internal sw info

show module internal sw info [ module1 <module> ]

## Syntax Description

Syntax Description	
show	Show running system information
module	Show module information
internal	Show line card manager related info
sw	Show software state
info	Show internal module information
module1	(Optional) Show per-module internal information
<i>module</i>	(Optional) Enter module number

## Command Mode

- /exec

# show module supported

show module supported

## Syntax Description

Syntax Description	
show	Show running system information
module	Show module information
supported	Show supported sw-card-types for this chassis

## Command Mode

- /exec

# show module uptime

```
show module uptime [ __readonly__ { TABLE_uptimeinf <slot> <starttime> <daysup> <hoursup> <minutesup>
<secondsup> } ]
```

## Syntax Description

### Syntax Description

<code>show</code>	Show running system information
<code>module</code>	Show module information
<code>uptime</code>	Show how long the module has been up and running
<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 monitor internal errors

show monitor internal [ event-history ] errors

## Syntax Description

Syntax	Description
show	Show running system information
monitor	Show Ethernet SPAN information
internal	Commands for internal use
event-history	(Optional) Show event history
errors	Show error logs of ethernet span

## Command Mode

- /exec

# show monitor internal event-history debug

show monitor internal event-history debug

## Syntax Description

Syntax	Description
show	Show running system information
monitor	Show Ethernet SPAN information
internal	Commands for internal use
event-history	Show event history
debug	Debug level

## Command Mode

- /exec

# show monitor internal event-history global

show monitor internal event-history global

## Syntax Description

Syntax Description		
show		Show running system information
monitor		Show Ethernet SPAN information
internal		Commands for internal use
event-history		Show event history
global		Global info

## Command Mode

- /exec



# show monitor internal event-history msgs

show monitor internal event-history msgs

## Syntax Description

Syntax Description		
show	Show running system information	
monitor	Show Ethernet SPAN information	
internal	Commands for internal use	
event-history	Show event history	
msgs	Message level	

## Command Mode

- /exec

# show monitor internal info

show monitor internal info { global-info | stats | clear-stats }

## Syntax Description

Syntax Description		
show	Show running system information	
monitor	Show Ethernet SPAN information	
internal	Commands for internal use	
info	Display debug information	
global-info	Global component information	
stats	Monitor stats	
clear-stats	Clear monitor stats	

## Command Mode

- /exec

# show monitor internal lock

show monitor internal [ event-history ] lock

## Syntax Description

Syntax Description		
show		Show running system information
monitor		Show Ethernet SPAN information
internal		Commands for internal use
event-history	(Optional)	Show event history
lock		Show lock logs of ethernet span

## Command Mode

- /exec

# show monitor internal logs

show monitor internal [ event-history ] logs

## Syntax Description

Syntax	Description
show	Show running system information
monitor	Show Ethernet SPAN information
internal	Commands for internal use
event-history	(Optional) Show event history
logs	Show logs event history

## Command Mode

- /exec

# show monitor internal mem-stats

show monitor internal mem-stats [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
monitor	Show Ethernet SPAN information
internal	Commands for internal use
mem-stats	Show memory allocation statistics
detail	(Optional) Display detailed information

## 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

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

---

*mpls\_packets\_output\_dropped* (Optional) mpls packet output dropped

---

*mpls\_bytes\_output\_dropped* (Optional) mpls bytes output dropped

---

**Command Mode**

- /exec

# show mpls interfaces

show mpls interfaces [ *\_\_readonly\_\_* *TABLE\_mpls\_interface* <intf> <oper> ]

## Syntax Description

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

Syntax Description	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 internal

```
show mpls interfaces internal [ __readonly__ TABLE_mpls_interface_int <intf> <client_name> <oper_str>
<ls_id> <mpls_sublayer_name> <mpls_sublayer_id> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
mpls		Display MPLS status and configuration
interfaces		Interfaces
internal		Internal
<i>__readonly__</i>		(Optional)
<i>TABLE_mpls_interface_int</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

Syntax Description	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 | summary ] [ __readonly__ { TABLE_bnd <ldp_ctx> <laf> <total_prefixes>
<total_rt_info> <current_prev_lbl> <current_prev_lblQ> <total_alloc_prev_lbl> <total_alloc_prev_lblQ>
<local_bindings> <rem_bindings> { 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>
<remote_lsr> <remote_label> <rem_lbl_in_use> <stale_gr> <advert_acl_pending> <peer_acl> <prefix_acl>
{ TABLE_bnd_peer_list <peer_ident> } } } ]
```

### Syntax Description

#### 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
<i>remote-label</i>	(Optional) Match remotely assigned label values
<i>remote-label</i>	(Optional) Remotely assigned label value
<i>remote-to</i>	(Optional) Label range
<i>remote-label-max</i>	(Optional) Remotely assigned label value
<i>advertisement-prefix-list</i>	(Optional) Show advertisement prefix lists
<i>detail</i>	(Optional) Show detailed information
<i>summary</i>	(Optional) LDP summary information
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_bnd</i>	(Optional) Show bindings or tib summary for a vrf
<i>ldp_ctx</i>	(Optional) LDP context
<i>llaf</i>	(Optional) Local label filtering spec
<i>total_prefixes</i>	(Optional) Total number of prefixes
<i>total_rt_info</i>	(Optional) Total tib route info allocated
<i>current_prev_lbl</i>	(Optional) Current tib previous label info allocated
<i>current_prev_lblQ</i>	(Optional) Current tib previous label queues allocated
<i>total_alloc_prev_lbl</i>	(Optional) Total tib previous label info allocated
<i>total_alloc_prev_lblQ</i>	(Optional) Total tib previous label queues allocated
<i>local_bindings</i>	(Optional) Total number of locally assigned bindings
<i>rem_bindings</i>	(Optional) Total number of remote bindings
<i>TABLE_bnd_acl_list</i>	(Optional) Show advertisement access lists for default vrf
<i>oldstyle</i>	(Optional) Oldstyle assignment of prefix acls to entries
<i>prefix_acl</i>	(Optional) Prefix acl
<i>peer_acl</i>	(Optional) Peer acl
<i>TABLE_bnd_rec</i>	(Optional) Show bindings in a vrf
<i>lib_addr</i>	(Optional) LIB entry IP address
<i>lib_mask</i>	(Optional) LIB entry mask
<i>lcl_bnd_rev</i>	(Optional) Local binding revision for lib entry
<i>no_route</i>	(Optional) Displays if no route present for lib entry

<i>chkpt</i>	(Optional) Checkpoint state for lib entry
<i>local_label</i>	(Optional) Local label
<i>withdraw</i>	(Optional) Displays if label withdrawn or label withdraw sent
<i>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 ttl

```
show mpls ip ttl [ __readonly__ TABLE_mpls_ip_ttl <prop_or_exp> [ <forwarded> ] [ <local> ] [ <exp_count> ] ]
```

## Syntax Description

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

Syntax Description	Description
show	Show running system information
mpls	MPLS configuration commands
label	Label properties
range	Label range
<i>__readonly__</i>	(Optional)
<i>dynamic-min</i>	(Optional)
<i>dynamic-max</i>	(Optional)
<i>static-min</i>	(Optional)
<i>static-max</i>	(Optional)
<i>srgb-min</i>	(Optional)
<i>srgb-max</i>	(Optional)

## Command Mode

- /exec



# show mpls label statistics

show mpls label statistics <label>

## Syntax Description

Syntax Description	
show	Show running system information
mpls	Display MPLS status and configuration
label	Show a specific label statistics
statistics	Statistics for the label
<i>label</i>	Label

## Command Mode

- /exec

## show mpls ldp backoff

```
show mpls ldp backoff [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <initial_time>
<maximum_time> { TABLE_backoff [ <vrf-name> ] <total_entry> { TABLE_backoff_rec <peer_id>
<threshold> <elapsed_time> } } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
backoff	LDP session setup backoff table
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display backoff information in all VRFs
<i>__readonly__</i>	(Optional) Read Only
<i>initial_time</i>	(Optional) Initial backoff value in seconds
<i>maximum_time</i>	(Optional) Maximum backoff value in seconds
TABLE_backoff	(Optional) Show backoff for a vrf
<i>vrf-name</i>	(Optional) VRF name
<i>total_entry</i>	(Optional) Total number of entries in Backoff table
TABLE_backoff_rec	(Optional) Show backoff record in a vrf
<i>peer_id</i>	(Optional) Peer router ID
<i>threshold</i>	(Optional) Backoff threshold in seconds
<i>elapsed_time</i>	(Optional) Backoff elapsed time in seconds

### Command Mode

- /exec

## show mpls ldp bindings

```
show mpls ldp bindings [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ { <prefix> { <mask> | <mask-length>
} | <prefix-mask> } [ longer-prefix ] ] [ neighbor <addr> | local ] [ local-label <local-label> [ local-to
<local-label-max> ] ] [ remote-label <remote-label> [ remote-to <remote-label-max> ] ] [
advertisement-prefix-list | detail ] [ __readonly__ { TABLE_bnd <ldp_ctx> <llaf> { TABLE_bnd_acl_list
<oldstyle> <prefix_acl> <peer_acl> } { TABLE_bnd_rec <lib_addr> <lib_mask> <lcl_bnd_rev> <no_route>
<chkpt> <local_label> <withdraw> <remote_lsr> <remote_label> <rem_lbl_in_use> <stale_gr>
<advert_acl_pending> <peer_acl> <prefix_acl> { TABLE_bnd_peer_list <peer_ident> } } } ]
```

### Syntax Description

Syntax Description	
show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
bindings	Show the LDP Label Information Base (LIB)
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display LIB information in all VRFs
<i>prefix</i>	(Optional) Destination prefix
<i>mask</i>	(Optional) Destination prefix mask
<i>mask-length</i>	(Optional) Mask length
<i>prefix-mask</i>	(Optional) Destination prefix/mask
longer-prefix	(Optional) Include longer matches
neighbor	(Optional) Display labels from LDP neighbor
<i>addr</i>	(Optional) IP adjacency address
local	(Optional) Display only locally assigned labels
local-label	(Optional) Match locally assigned label values
<i>local-label</i>	(Optional) Locally assigned label value
local-to	(Optional) Label range
<i>local-label-max</i>	(Optional) Locally assigned label value
remote-label	(Optional) Match remotely assigned label values

<i>remote-label</i>	(Optional) Remotely assigned label value
<i>remote-to</i>	(Optional) Label range
<i>remote-label-max</i>	(Optional) Remotely assigned label value
<i>advertisement-prefix-list</i>	(Optional) Show advertisement prefix lists
<i>detail</i>	(Optional) Show detailed information
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_bnd</i>	(Optional) Show bindings for a vrf
<i>ldp_ctx</i>	(Optional) LDP context
<i>llaf</i>	(Optional) Local label filtering spec
<i>TABLE_bnd_acl_list</i>	(Optional) Show advertisement access lists for default vrf
<i>oldstyle</i>	(Optional) Oldstyle assignment of prefix acls to entries
<i>prefix_acl</i>	(Optional) Prefix acl
<i>peer_acl</i>	(Optional) Peer acl
<i>TABLE_bnd_rec</i>	(Optional) Show bindings in a vrf
<i>lib_addr</i>	(Optional) LIB entry IP address
<i>lib_mask</i>	(Optional) LIB entry mask
<i>lcl_bnd_rev</i>	(Optional) Local binding revision for lib entry
<i>no_route</i>	(Optional) Displays if no route present for lib entry
<i>chkpt</i>	(Optional) Checkpoint state for lib entry
<i>local_label</i>	(Optional) Local label
<i>withdraw</i>	(Optional) Displays if label withdrawn or label withdraw sent
<i>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
<i>TABLE_bnd_peer_list</i>	(Optional) Show list of peers to which local label has been advertised

---

*peer\_ident* (Optional) Peer to which local label has been advertised

---

**Command Mode**

- /exec

# show mpls ldp bindings summary

```
show mpls ldp bindings summary [ __readonly__ { TABLE_bnd <total_prefixes> <total_rt_info>
<local_bindings> <rem_bindings> } ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
mpls	Display MPLS status and configuration	
ldp	Label Distribution Protocol	
bindings	Show the LDP Label Information Base (LIB)	
summary	Show summary information	
<i>__readonly__</i>	(Optional) Read Only	
<i>TABLE_bnd</i>	(Optional) Show bindings or tib summary for a vrf	
<i>total_prefixes</i>	(Optional) Total number of prefixes	
<i>total_rt_info</i>	(Optional) Total tib route info allocated	
<i>local_bindings</i>	(Optional) Total number of localally assigned bindings	
<i>rem_bindings</i>	(Optional) Total number of remote bindings	

## Command Mode

- /exec

# show mpls ldp capabilities

```
show mpls ldp capabilities [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_cap [ <vrf-name> ] { TABLE_cap_rec <description> [ <state> } } ] ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
mpls	Display MPLS status and configuration	
ldp	Label Distribution Protocol	
capabilities	Display LDP Capabilities information	
vrf	(Optional) VRF Routing/Forwarding instance information	
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
all	(Optional) Display Capabilities database in all VRFs	
__readonly__	(Optional) Read Only	
<i>vrf-name</i>	(Optional) VRF name	
TABLE_cap	(Optional) Show capabilities for a vrf	
TABLE_cap_rec	(Optional) Show capabilities record in a vrf	
<i>description</i>	(Optional) Capability description	
<i>state</i>	(Optional) Capability state information	

## Command Mode

- /exec

# show mpls ldp checkpoint

show mpls ldp checkpoint [ \_\_readonly\_\_ ]

## Syntax Description

Syntax Description		
show	Show running system information	
mpls	Display MPLS status and configuration	
ldp	Label Distribution Protocol	
checkpoint	Display LDP checkpoint information	
__readonly__	(Optional) Read Only	

## Command Mode

- /exec



# show mpls ldp discovery

```
show mpls ldp discovery [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ detail ] [ __readonly__ {
TABLE_dsc_ctx [ <ldp_ctx> ] [ <ldp_status> ] <local_ldp_ident> [ { TABLE_dsc_if <if> <ptcl> [ <if_status>
] <xmit_rcv> [ <if_cfg> ] [ <igp_cfg> ] [ <hello_int> ] [ <local_xport_addr> ] { TABLE_dsc_adj
<remote_ldp_ident> [ <nhop_info> ] [ <remote_src_ip> ] [ <remote_xport_ip> ] [ <hold_time> ] [
<local_hold_time> ] [ <nbr_hold_time> ] [ <nhop_addr> ] [ <nhop_mask> ] [ <pwdinfo> } ] [ <clients> } ]
] [ { TABLE_dsc_tgt [ <tgt_remote_ip> ] [ <tgt_local_ip> ] [ <tgt_ptcl> ] [ <tgt_type> ] [
<tgt_xmit_rcv> ] [ <tgt_hello_int> ] [ <tgt_local_xport_addr> ] [ <tgt_remote_ldp_ident> ] [
<tgt_nhop_info> ] [ <tgt_remote_src_ip> <tgt_remote_xport_ip> ] [ <tgt_hold_time>
<tgt_local_hold_time> <tgt_nbr_hold_time> ] [ <tgt_nhop_addr> <tgt_nhop_mask> ] [ <tgt_pwdinfo>
} ] } ] }
```

## Syntax Description

### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
discovery	Display sources for locally generated LDP Discovery Hello PDUs
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display discovery information in all VRFs
detail	(Optional) Display detailed LDP discovery information
__readonly__	(Optional) Read Only
TABLE_dsc_ctx	(Optional) Show discovery info across contexts
<i>ldp_ctx</i>	(Optional) LDP context
<i>ldp_status</i>	(Optional) LDP operational status
<i>local_ldp_ident</i>	(Optional) Local router ID:Local label space
TABLE_dsc_if	(Optional) Show discovery info across interfaces
<i>if</i>	(Optional) Discovery source interface
<i>ptcl</i>	(Optional) LDP or TDP protocol
<i>if_status</i>	(Optional) LDP interface status
<i>xmit_rcv</i>	(Optional) Transmitting and/or receiving
<i>if_cfg</i>	(Optional) Shown if mpls ip is enabled on the interface

<i>igp_cfg</i>	(Optional) Shown if autoconfig is enabled on the interface
<i>hello_int</i>	(Optional) Hello interval in ms
<i>local_xport_addr</i>	(Optional) Local transport ip address
TABLE_dsc_adj	(Optional) Show link adjacencies
<i>remote_ldp_ident</i>	(Optional) Remote router ID:Remote label space
<i>nhop_info</i>	(Optional) Shown if no next-hop info for peer
<i>remote_src_ip</i>	(Optional) Remote source ip address
<i>remote_xport_ip</i>	(Optional) Remote transport ip address
<i>hold_time</i>	(Optional) Hold time in seconds
<i>local_hold_time</i>	(Optional) Proposed local hold time in seconds
<i>nbr_hold_time</i>	(Optional) Peer hold time in seconds
<i>nhop_addr</i>	(Optional) Peer reachable via this next-hop IP address
<i>nhop_mask</i>	(Optional) Next-hop mask
<i>pwdinfo</i>	(Optional) Password information
<i>clients</i>	(Optional) LDP clients (IPv4, mLDP, i.e.)
TABLE_dsc_tgtd	(Optional) Show targeted hellos
<i>tgtd_remote_ip</i>	(Optional) Remote ip address for targeted hellos
<i>tgtd_local_ip</i>	(Optional) Local ip address for targeted hellos
<i>tgtd_ptcl</i>	(Optional) LDP or TDP protocol for targeted hellos
<i>tgtd_type</i>	(Optional) Active/passive type for targeted hellos
<i>tgtd_xmit_rcv</i>	(Optional) Transmitting and/or receiving targeted hellos
<i>tgtd_hello_int</i>	(Optional) Targeted hello interval in ms
<i>tgtd_local_xport_addr</i>	(Optional) Local transport address for targeted hellos
<i>tgtd_remote_ldp_ident</i>	(Optional) Remote router ID:Remote label space
<i>tgtd_nhop_info</i>	(Optional) Shown if no next-hop info for peer
<i>tgtd_remote_src_ip</i>	(Optional) Remote source ip address
<i>tgtd_remote_xport_ip</i>	(Optional) Remote transport ip address
<i>tgtd_hold_time</i>	(Optional) Targeted hold time in seconds
<i>tgtd_local_hold_time</i>	(Optional) Proposed local targeted hold time in seconds

---

<i>tgt_d_nbr_hold_time</i>	(Optional) Peer targeted hold time in seconds
<i>tgt_d_nhop_addr</i>	(Optional) Peer reachable via this next-hop IP address
<i>tgt_d_nhop_mask</i>	(Optional) Next-hop mask
<i>tgt_d_pwdinfo</i>	(Optional) Password information

---

**Command Mode**

- /exec

## show mpls ldp graceful-restart

```
show mpls ldp graceful-restart [ __readonly__ <gr-st-enabled> [ <gr-st-restarted> <gr-st-fwd-holding-left-sec>
] <gr-st-nbr-liveness-sec> <gr-st-max-recovery-sec> [ <gr-st-fwd-holding-sec> ] { TABLE_dnbr <dnbr-rec_cnt>
{ TABLE_dnbr_rec [ <dnbr-rec-vrf-name> ] <dnbr-peer-id> <dnbr-peer-inst> <dnbr-lcl-id> [
<dnbr-reconn-left-sec> <dnbr-recovery-left-sec> ] <dnbr-addr-list-cnt> [ { TABLE_dnbr_addr_list_rec
<dnbr_addr_list_rec_addr> } ] } } { TABLE_gr_sess [ <gr-sess-vrf-name> ] <gr-sess-peer-id> <gr-sess-state>
} ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
graceful-restart	Show Graceful Restart summary
<i>__readonly__</i>	(Optional) Read Only
<i>gr-st-enabled</i>	(Optional) LDP Graceful Restart Enabled
<i>gr-st-restarted</i>	(Optional) LDP is restarting gracefully
<i>gr-st-fwd-holding-left-sec</i>	(Optional) LDP forwarding state holdtime left
<i>gr-st-nbr-liveness-sec</i>	(Optional) LDP GR neighbor liveness time
<i>gr-st-max-recovery-sec</i>	(Optional) LDP GR max recovery time
<i>gr-st-fwd-holding-sec</i>	(Optional) LDP GR forwarding state holdtime
TABLE_dnbr	(Optional) LDP GR down neighbor information
<i>dnbr-rec_cnt</i>	(Optional) LDP GR down neighbor count
TABLE_dnbr_rec	(Optional) LDP GR down neighbor record
<i>dnbr-rec-vrf-name</i>	(Optional) LDP GR down neighbor vrf
<i>dnbr-peer-id</i>	(Optional) LDP GR down neighbor peer ID
<i>dnbr-peer-inst</i>	(Optional) LDP GR down neighbor instance
<i>dnbr-lcl-id</i>	(Optional) LDP GR down neighbor local ID
<i>dnbr-reconn-left-sec</i>	(Optional) LDP GR down neighbor reconnection left
<i>dnbr-recovery-left-sec</i>	(Optional) LDP GR down neighbor recovery left
<i>dnbr-addr-list-cnt</i>	(Optional) LDP GR down neighbor address list count
TABLE_dnbr_addr_list_rec	(Optional) LDP GR down neighbor address list

<i>dnbr_addr_list_rec_addr</i>	(Optional) LDP GR down neighbor address
TABLE_gr_sess	(Optional) LDP GR session information
<i>gr-sess-vrf-name</i>	(Optional) LDP GR session vrf
<i>gr-sess-peer-id</i>	(Optional) LDP GR session peer ID
<i>gr-sess-state</i>	(Optional) LDP GR session state

**Command Mode**

- /exec

# show mpls ldp igp sync

```
show mpls ldp igp sync [ vrf { <vrf-name> | <vrf-known-name> | all } | interface <intfc> ] [ __readonly__ {
TABLE_isync <ldp_ctx> { TABLE_isync_if_list <if_name> <ldp_status> <isync_status> <sync_achieved>
<peer_reachable> <delay_time> <secs_left> <holddown_time> { TABLE_isync_peer_list <peer_ident>
<gr_enabled> } { TABLE_isync_nsi_rec <nsi_ident> <chkpt_created> } { TABLE_isync_igp_rec
<igp_enabled> <igp_instance> } } } ]
```

## Syntax Description

### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
igp	IGP-related information
sync	LDP-IGP Synchronization
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display IGP SYNC information in all VRFs
interface	(Optional) Interface of interest
<i>intfc</i>	(Optional)
<i>__readonly__</i>	(Optional) Read Only
TABLE_isync	(Optional) Show igp sync info for a vrf
<i>ldp_ctx</i>	(Optional) LDP context
TABLE_isync_if_list	(Optional) Show igp sync info for a single interface
<i>if_name</i>	(Optional) Interface namestring
<i>ldp_status</i>	(Optional) LDP configured/not configured
<i>isync_status</i>	(Optional) LDP-IGP Synchronization enabled/disabled
<i>sync_achieved</i>	(Optional) Sync status: sync achieved/not achieved
<i>peer_reachable</i>	(Optional) Sync status: peer reachable/not reachable
<i>delay_time</i>	(Optional) Sync delay time (seconds)
<i>secs_left</i>	(Optional) Sync timer remaining time (seconds left)

<i>holddown_time</i>	(Optional) IGP holddown time
TABLE_ismync_peer_list	(Optional) Show all peers for interface
<i>peer_ident</i>	(Optional) Peer LDP Ident
<i>gr_enabled</i>	(Optional) Displays if GR is enabled for session
TABLE_ismync_nsi_rec	(Optional) Show all interface-level neighbor id records
<i>nsi_ident</i>	(Optional) GR-enabled peer ID
<i>chkpt_created</i>	(Optional) Displays if NSI checkpoint created
TABLE_ismync_igp_rec	(Optional) Show sync-enabled IGP instances enabled on interface
<i>igp_enabled</i>	(Optional) Displays if IGP sync is enabled on intf
<i>igp_instance</i>	(Optional) IGP instance protocol and handle

**Command Mode**

- /exec

## show mpls ldp internal

```
show mpls ldp internal { client | counters { cntr-all | system | forwarding } | debug | memory | pss { all | client
| core | sdb } | tunnel-clients | transport [ detail ] } [ __readonly__ ]
```

### Syntax Description

Syntax	Description
show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
internal	internal information
client	Show LDP internal client information
counters	Show LDP internal counters
cntr-all	all LDP counters
debug	Show LDP internal debug information
system	LDP system related counters
forwarding	LDP forwarding related counters
memory	Show LDP chunk memory information
pss	pss databases
all	all pss databases
client	client pss database
core	core dynamic pss database
sdb	client sdb database
tunnel-clients	tunnel client information
transport	Show transport information
detail	(Optional) Show transport information
__readonly__	(Optional) Read Only

### Command Mode

- /exec



# show mpls ldp internal event-history dev

show mpls ldp internal event-history dev

## Syntax Description

Syntax Description		
show	Show running system information	
mpls	Display MPLS status and configuration	
ldp	Label Distribution Protocol	
internal	internal information	
event-history	Show various event logs of ldp	
dev	Show LDP development-only events	

## Command Mode

- /exec

# show mpls ldp internal event-history errors

show mpls ldp internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
mpls		Display MPLS status and configuration
ldp		Label Distribution Protocol
internal		internal information
event-history		Show various event logs of ldp
errors		Show error logs of LDP

## Command Mode

- /exec

# show mpls ldp internal event-history msgs

show mpls ldp internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
mpls		Display MPLS status and configuration
ldp		Label Distribution Protocol
internal		internal information
event-history		Show various event logs of ldp
msgs		Show various message logs of LDP

## Command Mode

- /exec

# show mpls ldp internal event-history transport connection

show mpls ldp internal event-history transport connection

## Syntax Description

Syntax Description		
show	Show running system information	
mpls	Display MPLS status and configuration	
ldp	Label Distribution Protocol	
internal	internal information	
event-history	Show various event logs of ldp	
transport	Show ldp transport event logs	
connection	Show transport connection event logs	

## Command Mode

- /exec

# show mpls ldp internal mem-stats

show mpls ldp internal mem-stats [ no-libs ] [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
internal	internal information
mem-stats	Show memory allocation statistics
no-libs	(Optional) Exclude library memory statistics
detail	(Optional) Display detailed information

## Command Mode

- /exec

## show mpls ldp internal route

```
show mpls ldp internal route [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ { <prefix> { <mask> |
<mask-length> } | <prefix-mask> } [ longer-prefix ] ] [ neighbor <addr> | local ] [ local-label <local-label>
[ local-to <local-label-max> ] ] [ remote-label <remote-label> [ remote-to <remote-label-max> ] ] [
advertisement-prefix-list | detail ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
mpls	Display MPLS status and configuration	
ldp	Label Distribution Protocol	
internal	internal information	
route	Show the LDP Label Information Base (LIB)	
vrf	(Optional) VRF Routing/Forwarding instance information	
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name	
<i>vrf-known-name</i>	(Optional) Known VRF name	
all	(Optional) Display LIB information in all VRFs	
<i>prefix</i>	(Optional) Destination prefix	
<i>mask</i>	(Optional) Destination prefix mask	
<i>mask-length</i>	(Optional) Mask length	
<i>prefix-mask</i>	(Optional) Destination prefix/mask	
longer-prefix	(Optional) Include longer matches	
neighbor	(Optional) Display labels from LDP neighbor	
<i>addr</i>	(Optional) IP adjacency address	
local	(Optional) Display only locally assigned labels	
local-label	(Optional) Match locally assigned label values	
<i>local-label</i>	(Optional) Locally assigned label value	
local-to	(Optional) Label range	
<i>local-label-max</i>	(Optional) Locally assigned label value	
remote-label	(Optional) Match remotely assigned label values	
<i>remote-label</i>	(Optional) Remotely assigned label value	

---

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

---

**Command Mode**

- /exec

## show mpls ldp neighbor

```
show mpls ldp neighbor [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ <address> | <interface> ] [ capabilities
| detail | graceful-restart | password | internal ] [ __readonly__ { TABLE_ctx <ldp_ctx> <tdp_status> {
TABLE_rec <peer_router_id> <local_router_id> <remote_addr> <remote_tcp_port> <local_addr>
<local_tcp_port> [ <md5_status> <sha1_status> ] [ <pwd_info> <adj_pwd_rx> <adj_pwd_tx> <tcp_pwd_rx>
<tcp_pwd_tx> ] <state> <msgs_sent> <msgs_rcvd> <advert> <last_rev_sent> <up_time> <uid> <peer_id>
[ <gr_status> <gr_reconnect_time> ] <peer_holdtime> <ka_interval> <peer_state> [ <inbound_filter> ] [
<sp_state> <sp_info> <sp_timer_left> ] [ <loop_det_peer> <loop_det_local> <pvl_peer> <pvl_local> ] {
TABLE_adj <intf> <src_ip> <hello_holdtime> <hello_intvl> <dhcb_local> <dhcb_target> <dhcb_mode>
<dhcb_holdtime> <dhcb_intvl> } { TABLE_addr <peer_addr> } { TABLE_dup_addr <dup_addr> } {
TABLE_client <client_name> } { TABLE_cap_sent <cap_sent_name> } { TABLE_cap_rcvd
<cap_rcvd_name> } } }
```

### Syntax Description

#### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
neighbor	LDP neighbor
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display neighbor information in all VRFs
<i>address</i>	(Optional) Neighbor address
<i>interface</i>	(Optional) Local interface
capabilities	(Optional) Display neighbor capability information
detail	(Optional) Display detailed neighbor information
graceful-restart	(Optional) Display graceful restart neighbor information
password	(Optional) Display neighbor password information
internal	(Optional) Display internal neighbor information
__readonly__	(Optional) Read Only
TABLE_ctx	(Optional) Show session info across all contexts
<i>ldp_ctx</i>	(Optional) LDP context
<i>tdp_status</i>	(Optional) LDP status



<i>TABLE_rec</i>	(Optional) Show session info for a vrf
<i>peer_router_id</i>	(Optional) Peer router LDP ID
<i>local_router_id</i>	(Optional) Local router LDP ID
<i>remote_addr</i>	(Optional) TCP connection remote IP address
<i>remote_tcp_port</i>	(Optional) TCP connection remote port number
<i>local_addr</i>	(Optional) TCP connection local IP address
<i>local_tcp_port</i>	(Optional) TCP connection local port number
<i>md5_status</i>	(Optional) MD5 on for this LDP session
<i>sha1_status</i>	(Optional) SHA1 on for this LDP session
<i>pwd_info</i>	(Optional) Password status
<i>adj_pwd_rx</i>	(Optional) Adj pwd Rx
<i>adj_pwd_tx</i>	(Optional) Adj pwd Tx
<i>tcp_pwd_rx</i>	(Optional) TCP pwd Rx
<i>tcp_pwd_tx</i>	(Optional) TCP pwd Tx
<i>state</i>	(Optional) LDP session state
<i>msgs_sent</i>	(Optional) Number of msgs/PIEs sent
<i>msgs_rcvd</i>	(Optional) Number of msgs/PIEs received
<i>advert</i>	(Optional) Neighbor label advertisement type
<i>last_rev_sent</i>	(Optional) Last TIB revision sent
<i>up_time</i>	(Optional) LDP session up time
<i>uid</i>	(Optional) Unique ID for adjacency
<i>peer_id</i>	(Optional) Peer index for adjacency
<i>gr_status</i>	(Optional) Graceful restart status
<i>gr_reconnect_time</i>	(Optional) Graceful restart peer reconnect time (msecs)
<i>peer_holdtime</i>	(Optional) Holdtime of peer (ms)
<i>ka_interval</i>	(Optional) Keepalive interval
<i>peer_state</i>	(Optional) State of session with peer
<i>inbound_filter</i>	(Optional) LDP inbound filtering accept acl
<i>sp_state</i>	(Optional) LDP Session Protection state

<i>sp_info</i>	(Optional) LDP Session Protection filter and duration (secs)
<i>sp_timer_left</i>	(Optional) LDP Session Protection holdup time remaining (secs)
<i>loop_det_peer</i>	(Optional) Loop Detection peer status
<i>loop_det_local</i>	(Optional) Loop Detection local status
<i>pvl_peer</i>	(Optional) Path Vector Limit of peer
<i>pvl_local</i>	(Optional) Path Vector Limit of local
TABLE_adj	(Optional) LDP discovery sources
<i>intf</i>	(Optional) Local interface to peer
<i>src_ip</i>	(Optional) Source IP address of hello packet
<i>hello_holdtime</i>	(Optional) Hello holdtime (ms)
<i>hello_intvl</i>	(Optional) Hello interval (ms)
<i>dhcb_local</i>	(Optional) DHCB local IP address
<i>dhcb_target</i>	(Optional) DHCB target IP address
<i>dhcb_mode</i>	(Optional) DHCB active or passive mode
<i>dhcb_holdtime</i>	(Optional) Targeted hello holdtime
<i>dhcb_intvl</i>	(Optional) Targeted hello interval
TABLE_addr	(Optional) Addresses bound to peer LDP ID
<i>peer_addr</i>	(Optional) Address bound to peer LDP Ident
TABLE_dup_addr	(Optional) Duplicate addresses advertised by peer
<i>dup_addr</i>	(Optional) Duplicate address advertised by peer
TABLE_client	(Optional) Client names associated with session
<i>client_name</i>	(Optional) Client name
TABLE_cap_sent	(Optional) Capabilities sent
<i>cap_sent_name</i>	(Optional) Capability sent
TABLE_cap_rcvd	(Optional) Capabilities received
<i>cap_rcvd_name</i>	(Optional) Capability received

**Command Mode**

- /exec

## show mpls ldp parameters

```
show mpls ldp parameters [ __readonly__ <ptcl-version> [ <sess-hold-infinite> <sess-hold-sec> ]
<kpalive-intvl-sec> <hello-hold-sec> <hello-intvl-sec> <tgthello-hold-sec> <tgthello-intvl-sec>
<tgthello-acpt-fltr> <omit-xport-addr> <ignore-xport-addr> <hello-spoofing> <max-hop-count>
<loop-detection-st> { TABLE_fctrl <fctrl_state> [ <fctrl_compat_fset> ] [ { TABLE_features <feature_name>
} ] [ <feature_none> ] } ]
```

### Syntax Description

Syntax Description	show	Show running system information
	mpls	Display MPLS status and configuration
	ldp	Label Distribution Protocol
	parameters	Display LDP configuration parameters
	<i>__readonly__</i>	(Optional) Read Only
	<i>ptcl-version</i>	(Optional) LDP protocol version
	<i>sess-hold-infinite</i>	(Optional) LDP session holdtime infinite
	<i>sess-hold-sec</i>	(Optional) LDP session holdtime in seconds
	<i>kpalive-intvl-sec</i>	(Optional) LDP session keepalive interval in seconds
	<i>hello-hold-sec</i>	(Optional) LDP discovery adjacency holdtime in seconds
	<i>hello-intvl-sec</i>	(Optional) LDP discovery hello interval in seconds
	<i>tgthello-hold-sec</i>	(Optional) LDP targeted adjacency holdtime in seconds
	<i>tgthello-intvl-sec</i>	(Optional) LDP targeted hello interval in seconds
	<i>tgthello-acpt-fltr</i>	(Optional) LDP targeted hello acceptance filter
	<i>omit-xport-addr</i>	(Optional) Omitting transport addr in transmitted hello
	<i>ignore-xport-addr</i>	(Optional) Ignoring transport addr in received hello
	<i>hello-spoofing</i>	(Optional) Accepting undirected hellos to non-broadcast addresses
	<i>max-hop-count</i>	(Optional) Downstream on Demand max hop count
	<i>loop-detection-st</i>	(Optional) LDP loop detection
	TABLE_fctrl	(Optional) LDP feature set manager
	<i>fctrl_state</i>	(Optional) LDP feature set manager state
	<i>fctrl_compat_fset</i>	(Optional) LDP feature set compatible

---

*TABLE\_features* (Optional) LDP feature list

---

*feature\_name* (Optional) LDP feature name

---

*feature\_none* (Optional) LDP not enabled

---

**Command Mode**

- /exec

## show mpls static binding

```
show mpls static binding [ vrf { <vrf-name> | <vrf-known-name> } ] { { ipv4 [ <prefix> { <mask> |
<mask-length> } | <prefix-mask> ] [ local | remote ] [ nexthop <addr> ] [ inconsistency ] [ lsp <slb_name> ]
} | { ipv6 [ <ipv6-prefix> ] [ local | remote ] [ ipv6-nexthop <ipv6-addr> ] [ inconsistency ] } | all [ inconsistency
] } [ __readonly__ [ TABLE_slb [ <slb_name> ] [ <slb_prefix> ] [ <slb_mask> ] <slb_vrf> <slb_inlabel> [
<slb_type> ] [ TABLE_slb_outlbl_list [ <slb_nh_path_num> ] <slb_nhops> <slb_outlabel> ] [
<inconsistency_reason> ] ] ]
```

### Syntax Description

#### 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

<i>TABLE_slb</i>	(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
<i>TABLE_slb_outlbl_list</i>	(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

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

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 internal rnh

```
show mpls static internal rnh [ __readonly__ [ TABLE_rnh <table_id> <prefix> <refcount> ] ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
mpls	Display MPLS status and configuration
static	Show MPLS static information
internal	Show MPLS static internal information
rnh	Show mpls static internal RNH database
<i>__readonly__</i>	(Optional)
<i>TABLE_rnh</i>	(Optional)
<i>table_id</i>	(Optional)
<i>prefix</i>	(Optional)
<i>refcount</i>	(Optional)

## Command Mode

- /exec

# show mpls static trace

```
show mpls static trace { error | warning | event } [ size ]
```

## Syntax Description

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 internal

```
show mpls strip internal [ info ] [ { global | labels | ports } [ <val> ] ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
internal	Show stripcl internal information
info	(Optional) Show internal data structure information
global	(Optional) Display internal global info
labels	(Optional) Display detailed label info
ports	(Optional) Display port info
val	(Optional) Option Value for the param

## 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

Syntax Description	show	Show running system information
	mpls	Configure MPLS settings
	strip	Stripping of MPLS headers
	labels	labels added in the system
	all	(Optional) all labels [default]
	static	(Optional) labels programmed using cli
	dynamic	(Optional) dynamically learned
	<i>label_val</i>	(Optional) Label to show
	<i>__readonly__</i>	(Optional) Read Only
	TABLE_labels	(Optional) MPLS Strip Labels Tables
	<i>disp_label</i>	(Optional) Label
	<i>disp_age</i>	(Optional) Age
	<i>disp_interface</i>	(Optional) Interface
	<i>disp_pkt_cnt</i>	(Optional) Packet Count
	<i>disp_stats</i>	(Optional) Statistics
	<i>disp_static</i>	(Optional) Static
	<i>disp_summary</i>	(Optional) Summary

## Command Mode

- /exec

## show mpls switching

```
show mpls switching [ labels <label> [ <max-label> ] | interface <intf> | { <ip-addr> | <ipv4-prefix> } [ vrf
<vrf-name> ] | <ipv6-prefix> [ vrf <vrf-name> ] | traffic-eng tunnels [ cbts ] [ <tunnel-id> ] | traffic-eng lsp
ipv4 [ <ingress-addr> <tunnel-id> ] | aggregate [ ipv4 | ipv6 ] [ vrf <vrf-name> ] | { fec { te_if | ipv4_te_lsp
| ipv6_te_lsp | ipv4_prefix [ vrf <vrf-name> ] | ipv6_prefix [ vrf <vrf-name> ] | deagg [ vrf <vrf-name> ] } }
| { summary } ] [ detail ] [ private ] [ vrf <vrf-name> ] [ __readonly__ [ TABLE_vrf <vrf_name> [
TABLE_inlabel <in_label> <out_label_stack> + { <ipv4_prefix> | <ipv6_prefix> } [ { <tunnel_v4_mid_source>
| <tunnel_v6_mid_source> } <tunnel_id> { <ext_v4_tunnel_id> | <ext_v6_tunnel_id> } <tunnel_instance>
<deagg_vrf> <deagg_af> <tunnel_head> ] <out_interface> { <ipv4_next_hop> | <ipv6_next_hop> } [
<nhlfe_p2p_flag> ] [ <nhlfe_frr_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> ] [ <fec_none_label> ] [ <table_name> ] ] ] ]
```

### Syntax Description

#### 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
<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
tunnels	(Optional) Show TE head-end information
cbts	(Optional) Show TE head-end CBTS information
lsp	(Optional) Show TE mid-point information
aggregate	(Optional) Show aggregate-related information
<i>intf</i>	(Optional) Specify outgoing interface
<i>ingress-addr</i>	(Optional) Match TE ingress address
summary	(Optional) Summarized information

<i>detail</i>	(Optional) Detailed information
<i>te_if</i>	(Optional) TE tunnel head-end
<i>ipv4_te_lsp</i>	(Optional) TE IPv4 LSP midpoint
<i>ipv6_te_lsp</i>	(Optional) TE IPv6 LSP midpoint
<i>ipv4_prefix</i>	(Optional) IPv4 prefix
<i>ipv6_prefix</i>	(Optional) IPv6 prefix
<i>ipv4</i>	(Optional) Display IPv4 information
<i>ipv6</i>	(Optional) Display IPv6 information
<i>deagg</i>	(Optional) De-aggregation
<i>tunnel-id</i>	(Optional) LSP Tunnel ID
<i>vrf</i>	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name (Max Size 32)
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf_name</i>	(Optional)
<i>TABLE_inlabel</i>	(Optional)
<i>in_label</i>	(Optional)
<i>out_label_stack</i>	(Optional)
<i>ipv4_prefix</i>	(Optional)
<i>tunnel_v4_mid_source</i>	(Optional)
<i>tunnel_v4_mid_dest</i>	(Optional)
<i>tunnel_id</i>	(Optional)
<i>ext_v4_tunnel_id</i>	(Optional)
<i>tunnel_instance</i>	(Optional)
<i>tunnel_head</i>	(Optional)
<i>deagg_vrf</i>	(Optional)
<i>deagg_af</i>	(Optional)
<i>out_interface</i>	(Optional)
<i>ipv4_next_hop</i>	(Optional)

<i>ipv6_next_hop</i>	(Optional)
<i>nhlfe_frr_status</i>	(Optional)
<i>nhlfe_stale_flag</i>	(Optional)
<i>nhlfe_p2p_flag</i>	(Optional)
<i>table_name</i>	(Optional)
<i>in_packets</i>	(Optional)
<i>in_bytes</i>	(Optional)
<i>out_label</i>	(Optional)
<i>out_packets</i>	(Optional)
<i>out_bytes</i>	(Optional)
<i>per_ce_table</i>	(Optional)
<i>per_ce_nh_set_id</i>	(Optional)
<i>fec_none_label</i>	(Optional)

**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

Syntax Description	Description
show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
clients	Display ULIB client components
<i>__readonly__</i>	(Optional)
<i>TABLE_client</i>	(Optional)
<i>pib-name</i>	(Optional) Name of the client(pib)
<i>pib-index</i>	(Optional) PIB Index
<i>pib-uuid</i>	(Optional) PIB UUID
<i>pib-sap</i>	(Optional) MTS SAP for the pib
<i>stale-time</i>	(Optional) Stale time
<i>pib-flag</i>	(Optional) Flags set by the pib
<i>stale-due</i>	(Optional) Stale timer due in
<i>reg-msg</i>	(Optional) Number of Registration Message
<i>conv-msg</i>	(Optional) Number of Converge Message
<i>inv-conv</i>	(Optional) Number of Invalid Convergence message
<i>fec-msg</i>	(Optional) Number of FEC messages
<i>fec-add</i>	(Optional) Number of FEC Add messages
<i>ile-add</i>	(Optional) Number of ILE Add messages
<i>fec-del</i>	(Optional) Number of FEC delete messages
<i>ile-del</i>	(Optional) Number of ILE delete messages
<i>last-xid</i>	(Optional) Last XID
<i>fec-ack</i>	(Optional) Number of FEC Ack messages sent

**Command Mode**

- /exec

# show mpls switching internal client

show mpls switching internal client

## Syntax Description

Syntax Description	
show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
client	Client pib entries from SDB

## Command Mode

- /exec

# show mpls switching internal distribution

show mpls switching internal distribution

## Syntax Description

Syntax Description		
show	Show running system information	
mpls	Display MPLS status and configuration	
switching	Display the MPLS label switching database	
internal	Debug implementation internals	
distribution	UFDM Distribution	

## Command Mode

- /exec

# show mpls switching internal dynamicbf

show mpls switching internal dynamicbf

## Syntax Description

Syntax Description	
show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
dynamicbf	dynamic bitfield entries

## Command Mode

- /exec

# show mpls switching internal event-history

```
show mpls switching internal event-history { errors | msgs | events | fecdb | ha | snmp | stats | ufdm | fr | lbr |
dme }
```

## Syntax Description

Syntax Description	show	Show running system information
	mpls	Display MPLS status and configuration
	switching	Display the MPLS label switching database
	internal	Debug implementation internals
	event-history	Show various event logs of ULIB
	errors	Show error logs
	msgs	Show IPC event logs
	events	Show ULIB event logs
	fecdb	Show FEC database event logs
	ha	Show HA event logs
	snmp	Show SNMP eventlogs
	stats	Show statistics event logs
	ufdm	Show UFDM event logs
	fr	Show FRR event logs
	lbr	Show LBR event logs
	dme	Show DME event logs

## Command Mode

- /exec

# show mpls switching internal fec

show mpls switching internal fec <fec\_type>

## Syntax Description

Syntax Description	
show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
fec	FEC entries from SDB
<i>fec_type</i>	FEC type

## Command Mode

- /exec

# show mpls switching internal fec label

show mpls switching internal fec { label | interface }

## Syntax Description

Syntax Description		
show	Show running system information	
mpls	Display MPLS status and configuration	
switching	Display the MPLS label switching database	
internal	Debug implementation internals	
fec	FEC entries from SDB	
label	By input label	
interface	By input interfaces	

## Command Mode

- /exec



# show mpls switching internal frr

show mpls switching internal frr

## Syntax Description

Syntax Description	
show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
frr	FRR protected interfaces

## Command Mode

- /exec

# show mpls switching internal holddownbf

show mpls switching internal holddownbf

## Syntax Description

Syntax Description		
show	Show running system information	
mpls	Display MPLS status and configuration	
switching	Display the MPLS label switching database	
internal	Debug implementation internals	
holddownbf	Holddown bitfield entries from PSS	

## Command Mode

- /exec

# show mpls switching internal lbr

show mpls switching internal lbr

## Syntax Description

Syntax Description	
show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
lbr	Label Block Requests

## Command Mode

- /exec

# show mpls switching internal mem-stats

show mpls switching internal mem-stats [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
mem-stats	Show memory allocation statistics
detail	(Optional) Display detailed information

## Command Mode

- /exec

# show mpls switching internal staticbf

show mpls switching internal staticbf

## Syntax Description

Syntax Description	
show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
staticbf	static bitfield entries

## Command Mode

- /exec

## show mpls traffic-eng tunnels statistics internal

```
show mpls traffic-eng tunnels { <tun-intf> | { [ destination <address> ] [ source-id { <ipaddress> | <tunnel-id> | <ipaddress> <tunnel-id> } ] [ role { all | head | middle | tail | remote } ] [ { up | down } ] [ suboptimal constraints { none | current | max } ] [ property { backup-tunnel | fast-reroute } ] [ firstate { ready | active } ] [ name <string> | name-regexp <regexp-string> ] [ interface { in <in-intf> | out <out-intf> | <phys-intf> | backup <bkup-intf> } ] [ attributes <attr-string> ] } + } } statistics internal
```

### Syntax Description

#### Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
tunnels	MPLS traffic-eng tunnel status
<i>tun-intf</i>	Tunnel interface
destination	(Optional) Restrict display to tunnels with this destination
<i>address</i>	(Optional) tunnel destination address
source-id	(Optional) Tunnel identifier address/id
<i>ipaddress</i>	(Optional) Source address part of tunnel identifier
<i>tunnel-id</i>	(Optional) Number part of tunnel identifier
role	(Optional) Restrict display to tunnels with specified role
all	(Optional) head, middle, or tail LSP tunnels
head	(Optional) tunnels that originate locally
middle	(Optional) tunnels that transit locally
tail	(Optional) tunnels that terminate locally
remote	(Optional) middle or tail tunnels
up	(Optional) Restrict display to tunnels in up state
down	(Optional) Restrict display to tunnels in down state
suboptimal	(Optional) Restrict display to tunnels using a suboptimal path
constraints	(Optional) Specify constraints for finding best comparison path
none	(Optional) path lookup without any constraints
current	(Optional) path lookup constrained by available resources

max	(Optional) path lookup constrained by network's maximum potential resources
property	(Optional) Restrict display to tunnels with specified property
backup-tunnel	(Optional) Tunnels used as fast reroute
fast-reroute	(Optional) Tunnels protected by fast reroute
frrstate	(Optional) Restrict display to tunnels with specific frr state
ready	(Optional) Tunnels in FRR ready state
active	(Optional) Tunnels in FRR active state
name	(Optional) Restrict display to tunnels with this name
<i>string</i>	(Optional) LSP Tunnel name
name-regexp	(Optional) Restrict display to tunnels matching this name
<i>regexp-string</i>	(Optional) LSP Tunnel name (regular expression)
interface	(Optional) Restrict display to tunnels using a specified interface
in	(Optional) input interface
<i>in-intf</i>	(Optional)
out	(Optional) output interface
<i>out-intf</i>	(Optional)
<i>phys-intf</i>	(Optional)
backup	(Optional) Fast reroute backup protection provided by tunnels
<i>bkup-intf</i>	(Optional)
attributes	(Optional) Restrict display to tunnels using a matching attribute list
<i>attr-string</i>	(Optional) LSP attribute list name (regular expression)
statistics	Tunnel counters and statistics
internal	Commands for internal use

### Command Mode

- /exec

## show mvpn bgp mdt

```
show mvpn bgp { mdt-safi | auto-discovery } [ mdt-source <src-addr> ] [ __readonly__ { TABLE_entry
<bgp_rd> <mdt_src> <mdt_grp> <local> } ]
```

### Syntax Description

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 internal ha

```
show mvpn internal ha [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
mvpn		Display Multicast VPN information
internal		Commands for internal use
ha		PSS states
vrf		(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 mvpn internal mrib

```
show mvpn internal { mrib-txlist | mrib-buffers }
```

## Syntax Description

Syntax Description		
show	Show running system information	
mvpn	Display Multicast VPN information	
internal	Commands for internal use	
mrib-txlist	Show MRIB transmission-list information	
mrib-buffers	Show MRIB route buffer information	

## Command Mode

- /exec

# show mvpn internal state

show mvpn internal state

## Syntax Description

Syntax Description	
show	Show running system information
mvpn	Display Multicast VPN information
internal	Commands for internal use
state	Local state

## 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

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> <ref_count> } ]
```

### Syntax Description

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
__readonly__		(Optional)
TABLE_vrf		(Optional)
out_context		(Optional)
TABLE_mroute		(Optional)
src_addr		(Optional)
grp_addr		(Optional)
ref_count		(Optional)

### Command Mode

- /exec

## show mvpn snmp mib genericTable

```
show mvpn snmp mib genericTable [ <mplsVpnVrfName-in> ] [ __readonly__
TABLE_ciscoMvpnGenericTable <mplsVpnVrfName-out> <ciscoMvpnGenOperStatusChange>
<ciscoMvpnGenOperChangeTime> <ciscoMvpnGenAssociatedInterfaces> <ciscoMvpnGenRowStatus> ]
```

### Syntax Description

Syntax Description		
show		Show running system information
mvpn		Display Multicast VPN information
snmp		show snmp
mib		show mib tables
genericTable		Show MVPN Generic Table
<i>mplsVpnVrfName-in</i>		(Optional) mplsVpnVrfName
<i>__readonly__</i>		(Optional)
<i>TABLE_ciscoMvpnGenericTable</i>		(Optional)
<i>mplsVpnVrfName-out</i>		(Optional) mib table index mplsVpnVrfName
<i>ciscoMvpnGenOperStatusChange</i>		(Optional) mib object ciscoMvpnGenOperStatusChange
<i>ciscoMvpnGenOperChangeTime</i>		(Optional) mib object ciscoMvpnGenOperChangeTime
<i>ciscoMvpnGenAssociatedInterfaces</i>		(Optional) mib object ciscoMvpnGenAssociatedInterfaces
<i>ciscoMvpnGenRowStatus</i>		(Optional) mib object ciscoMvpnGenRowStatus

### Command Mode

- /exec

# show mvpn snmp mib mvpnBgpMdtUpdateTable

```
show mvpn snmp mib mvpnBgpMdtUpdateTable [ <ciscoMvpnBgpMdtUpdGrpAddrType-in>
<ciscoMvpnBgpMdtUpdateGroup-in> <ciscoMvpnBgpMdtUpdSrcAddrType-in>
<ciscoMvpnBgpMdtUpdateSource-in> ] [ __readonly__ TABLE_ciscoMvpnBgpMdtUpdateTable
<ciscoMvpnBgpMdtUpdGrpAddrType-out> <ciscoMvpnBgpMdtUpdateGroup-out>
<ciscoMvpnBgpMdtUpdateRd> <ciscoMvpnBgpMdtUpdSrcAddrType-out>
<ciscoMvpnBgpMdtUpdateSource-out> <ciscoMvpnBgpMdtUpdOrigAddrType>
<ciscoMvpnBgpMdtUpdateOriginator> <ciscoMvpnBgpMdtUpdNhAddrType>
<ciscoMvpnBgpMdtUpdateNextHop> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnBgpMdtUpdateTable	show mib table mvpnBgpMdtUpdateTable
<i>ciscoMvpnBgpMdtUpdGrpAddrType-in</i>	(Optional) Data MDT Group Address Type
<i>ciscoMvpnBgpMdtUpdateGroup-in</i>	(Optional) Data MDT group address in the MDT join TLV
<i>ciscoMvpnBgpMdtUpdSrcAddrType-in</i>	(Optional) MDT mulitcast routing enty source address type
<i>ciscoMvpnBgpMdtUpdateSource-in</i>	(Optional) Souce adres for the MDT mulitcast routing enty created following the receipt of MDT join TLV
<i>__readonly__</i>	(Optional)
<i>TABLE_ciscoMvpnBgpMdtUpdateTable</i>	(Optional)
<i>ciscoMvpnBgpMdtUpdGrpAddrType-out</i>	(Optional) mib table index ciscoMvpnBgpMdtUpdGrpAddrType
<i>ciscoMvpnBgpMdtUpdateGroup-out</i>	(Optional) mib table index ciscoMvpnBgpMdtUpdateGroup
<i>ciscoMvpnBgpMdtUpdateRd</i>	(Optional) mib object ciscoMvpnBgpMdtUpdateRd
<i>ciscoMvpnBgpMdtUpdSrcAddrType-out</i>	(Optional) mib table index ciscoMvpnBgpMdtUpdSrcAddrType
<i>ciscoMvpnBgpMdtUpdateSource-out</i>	(Optional) mib table index ciscoMvpnBgpMdtUpdateSource
<i>ciscoMvpnBgpMdtUpdOrigAddrType</i>	(Optional) mib object ciscoMvpnBgpMdtUpdOrigAddrType
<i>ciscoMvpnBgpMdtUpdateOriginator</i>	(Optional) mib object ciscoMvpnBgpMdtUpdateOriginator
<i>ciscoMvpnBgpMdtUpdNhAddrType</i>	(Optional) mib object ciscoMvpnBgpMdtUpdNhAddrType
<i>ciscoMvpnBgpMdtUpdateNextHop</i>	(Optional) mib object ciscoMvpnBgpMdtUpdateNextHop

**Command Mode**

- /exec



# show mvpn snmp mib mvpnMdtDataTable

```
show mvpn snmp mib mvpnMdtDataTable [ <mplsVpnVrfName-in> ] [ __readonly__
TABLE_ciscoMvpnMdtDataTable <mplsVpnVrfName-out> <ciscoMvpnMdtDataRangeAddrType>
<ciscoMvpnMdtDataRangeAddress> <ciscoMvpnMdtDataWildcardType> <ciscoMvpnMdtDataWildcardBits>
<ciscoMvpnMdtDataThreshold> <ciscoMvpnMdtDataRowStatus> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtDataTable	show mib table mvpnMdtDataTable
<i>mplsVpnVrfName-in</i>	(Optional) VRF name
<i>__readonly__</i>	(Optional)
<i>TABLE_ciscoMvpnMdtDataTable</i>	(Optional)
<i>mplsVpnVrfName-out</i>	(Optional) mib table index mplsVpnVrfName
<i>ciscoMvpnMdtDataRangeAddrType</i>	(Optional) mib object ciscoMvpnMdtDefaultAddrType
<i>ciscoMvpnMdtDataRangeAddress</i>	(Optional) mib object ciscoMvpnMdtDataRangeAddress
<i>ciscoMvpnMdtDataWildcardType</i>	(Optional) mib object ciscoMvpnMdtDataWildcardType
<i>ciscoMvpnMdtDataWildcardBits</i>	(Optional) mib object ciscoMvpnMdtDataWildcardBits
<i>ciscoMvpnMdtDataThreshold</i>	(Optional) mib object ciscoMvpnMdtDataThreshold
<i>ciscoMvpnMdtDataRowStatus</i>	(Optional) mib object ciscoMvpnMdtDataRowStatus

## Command Mode

- /exec

## show mvpn snmp mib mvpnMdtDefaultTable

```
show mvpn snmp mib mvpnMdtDefaultTable [ <mplsVpnVrfName-in> ] [ __readonly__
TABLE_ciscoMvpnMdtDefaultTable <mplsVpnVrfName-out> <ciscoMvpnMdtDefaultAddrType>
<ciscoMvpnMdtDefaultAddress> <ciscoMvpnMdtEncapsType> <ciscoMvpnMdtDefaultRowStatus> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtDefaultTable	show mib table ciscoMvpnMdtDefaultTable
<i>mplsVpnVrfName-in</i>	(Optional) mplsVpnVrfName
<i>__readonly__</i>	(Optional)
<i>TABLE_ciscoMvpnMdtDefaultTable</i>	(Optional)
<i>mplsVpnVrfName-out</i>	(Optional) mib table index mplsVpnVrfName
<i>ciscoMvpnMdtDefaultAddrType</i>	(Optional) mib object ciscoMvpnMdtDefaultAddrType
<i>ciscoMvpnMdtDefaultAddress</i>	(Optional) mib object ciscoMvpnMdtDefaultAddress
<i>ciscoMvpnMdtEncapsType</i>	(Optional) mib object ciscoMvpnMdtEncapsType
<i>ciscoMvpnMdtDefaultRowStatus</i>	(Optional) mib object ciscoMvpnMdtDefaultRowStatus

### Command Mode

- /exec

# show mvpn snmp mib mvpnMdtJnRcvTable

```
show mvpn snmp mib mvpnMdtJnRcvTable [ <mplsVpnVrfName-in> <ciscoMvpnMdtJnRcvGrpAddrType-in>
<ciscoMvpnMdtJnRcvGroup-in> <ciscoMvpnMdtJnRcvSrcAddrType-in> <ciscoMvpnMdtJnRcvSource-in>
] [ __readonly__ TABLE_ciscoMvpnMdtJnRcvTable <mplsVpnVrfName-out>
<ciscoMvpnMdtJnRcvGrpAddrType-out> <ciscoMvpnMdtJnRcvGroup-out>
<ciscoMvpnMdtJnRcvSrcAddrType-out> <ciscoMvpnMdtJnRcvSource-out> <ciscoMvpnMdtJnRcvUpTime>
<ciscoMvpnMdtJnRcvExpTime> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtJnRcvTable	show mib table ciscoMvpnMdtJnRcvTable
<i>mplsVpnVrfName-in</i>	(Optional) VRF name
<i>ciscoMvpnMdtJnRcvGrpAddrType-in</i>	(Optional) Data MDT group address type
<i>ciscoMvpnMdtJnRcvGroup-in</i>	(Optional) Data MDT group address in the MDT join TLV
<i>ciscoMvpnMdtJnRcvSrcAddrType-in</i>	(Optional) Source address type
<i>ciscoMvpnMdtJnRcvSource-in</i>	(Optional) Source address for the MDT multicast routing entry created following the receipt of MDT join TLV
<i>__readonly__</i>	(Optional)
<i>TABLE_ciscoMvpnMdtJnRcvTable</i>	(Optional)
<i>mplsVpnVrfName-out</i>	(Optional) mib table index mplsVpnVrfName
<i>ciscoMvpnMdtJnRcvGrpAddrType-out</i>	(Optional) mib table index ciscoMvpnMdtJnRcvGrpAddrType
<i>ciscoMvpnMdtJnRcvGroup-out</i>	(Optional) mib table index ciscoMvpnMdtJnRcvGroup
<i>ciscoMvpnMdtJnRcvSrcAddrType-out</i>	(Optional) mib table index ciscoMvpnMdtJnRcvSrcAddrType
<i>ciscoMvpnMdtJnRcvSource-out</i>	(Optional) mib table index ciscoMvpnMdtJnRcvSource
<i>ciscoMvpnMdtJnRcvUpTime</i>	(Optional) mib object ciscoMvpnMdtJnRcvUpTime
<i>ciscoMvpnMdtJnRcvExpTime</i>	(Optional) mib object ciscoMvpnMdtJnRcvExpTime

## Command Mode

- /exec

## show mvpn snmp mib mvpnMdtJnSendTable

```
show mvpn snmp mib mvpnMdtJnSendTable [ <mplsVpnVrfName-in>
<ciscoMvpnMdtJnSendGrpAddrType-in> <ciscoMvpnMdtJnSendGroup-in>
<ciscoMvpnMdtJnSendSrcAddrType-in> <ciscoMvpnMdtJnSendSource-in> ] [ __readonly__
TABLE_ciscoMvpnMdtJnSendTable <mplsVpnVrfName-out> <ciscoMvpnMdtJnSendGrpAddrType-out>
<ciscoMvpnMdtJnSendGroup-out> <ciscoMvpnMdtJnSendSrcAddrType-out>
<ciscoMvpnMdtJnSendSource-out> <ciscoMvpnMdtJnSendMdtGroup> <ciscoMvpnMdtJnSendMdtRefCt>
]
```

### Syntax Description

#### Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtJnSendTable	show mib table ciscoMvpnMdtJnSendTable
<i>mplsVpnVrfName-in</i>	(Optional) VRF name
<i>ciscoMvpnMdtJnSendGrpAddrType-in</i>	(Optional) Data MDT group address type
<i>ciscoMvpnMdtJnSendGroup-in</i>	(Optional) Data MDT group address in the MDT join TLV
<i>ciscoMvpnMdtJnSendSrcAddrType-in</i>	(Optional) Source address type
<i>ciscoMvpnMdtJnSendSource-in</i>	(Optional) Source address for the MDT multicast routing entry created following the receipt of MDT join TLV
<i>__readonly__</i>	(Optional)
TABLE_ciscoMvpnMdtJnSendTable	(Optional)
<i>mplsVpnVrfName-out</i>	(Optional) mib table index mplsVpnVrfName
<i>ciscoMvpnMdtJnSendGrpAddrType-out</i>	(Optional) mib table index ciscoMvpnMdtJnSendGrpAddrType
<i>ciscoMvpnMdtJnSendGroup-out</i>	(Optional) mib table index ciscoMvpnMdtJnSendGroup
<i>ciscoMvpnMdtJnSendSrcAddrType-out</i>	(Optional) mib table index ciscoMvpnMdtJnSendSrcAddrType
<i>ciscoMvpnMdtJnSendSource-out</i>	(Optional) mib table index ciscoMvpnMdtJnSendSource
<i>ciscoMvpnMdtJnSendMdtGroup</i>	(Optional) mib object ciscoMvpnMdtJnSendMdtGroup
<i>ciscoMvpnMdtJnSendMdtRefCt</i>	(Optional) mib object ciscoMvpnMdtJnSendMdtRefCt

### Command Mode

- /exec

# show mvpn snmp mib mvpnMrouteMdtTable

```
show mvpn snmp mib mvpnMrouteMdtTable [ <mplsVpnVrfName-in>
<ciscoMvpnMrouteMvrfGrpAddrType-in> <ciscoMvpnMrouteMvrfGroup-in>
<ciscoMvpnMrouteMvrfSrcAddrType-in> <ciscoMvpnMrouteMvrfSource-in>
<ciscoMvpnMrouteUpDownStreamInfo-in> ] [ __readonly__ TABLE_ciscoMvpnMrouteMdtTable
<mplsVpnVrfName-out> <ciscoMvpnMrouteMvrfGrpAddrType-out> <ciscoMvpnMrouteMvrfGroup-out>
<ciscoMvpnMrouteMvrfSrcAddrType-out> <ciscoMvpnMrouteMvrfSource-out>
<ciscoMvpnMrouteUpDownStreamInfo-out> <ciscoMvpnMrouteMdtGrpAddrType>
<ciscoMvpnMrouteMdtGroup> <ciscoMvpnMrouteMdtType> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMrouteMdtTable	show mib table mvpnMrouteMdtTable
<i>mplsVpnVrfName-in</i>	(Optional) VRF name
<i>ciscoMvpnMrouteMvrfGrpAddrType-in</i>	(Optional) Group address type of multicast routing entry
<i>ciscoMvpnMrouteMvrfGroup-in</i>	(Optional) Group address of multicast routing entry
<i>ciscoMvpnMrouteMvrfSrcAddrType-in</i>	(Optional) Source address type
<i>ciscoMvpnMrouteMvrfSource-in</i>	(Optional) Source address of multicast routing entry
<i>ciscoMvpnMrouteUpDownStreamInfo-in</i>	(Optional) if PE is Upstream or downstream router for the multicast routing entry
<i>__readonly__</i>	(Optional)
<i>TABLE_ciscoMvpnMrouteMdtTable</i>	(Optional)
<i>mplsVpnVrfName-out</i>	(Optional) mib table index mplsVpnVrfName
<i>ciscoMvpnMrouteMvrfGrpAddrType-out</i>	(Optional) mib table index ciscoMvpnMrouteMvrfGrpAddrType
<i>ciscoMvpnMrouteMvrfGroup-out</i>	(Optional) mib table index ciscoMvpnMrouteMvrfGroup
<i>ciscoMvpnMrouteMvrfSrcAddrType-out</i>	(Optional) mib table index ciscoMvpnMrouteMvrfSrcAddrType
<i>ciscoMvpnMrouteMvrfSource-out</i>	(Optional) mib table index ciscoMvpnMrouteMvrfSource
<i>ciscoMvpnMrouteUpDownStreamInfo-out</i>	(Optional) mib table index ciscoMvpnMrouteUpDownStreamInfo
<i>ciscoMvpnMrouteMdtGrpAddrType</i>	(Optional) mib object ciscoMvpnMrouteMdtGrpAddrType

---

<i>ciscoMvpnMrouteMdtGroup</i>	(Optional) mib object ciscoMvpnMrouteMdtGroup
<i>ciscoMvpnMrouteMdtType</i>	(Optional) mib object ciscoMvpnMrouteMdtType

---

**Command Mode**

- /exec

# show mvpn snmp mib mvpnMvrfNumber

```
show mvpn snmp mib mvpnMvrfNumber [ __readonly__ <ciscoMvpnMvrfNumber> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
mvpn		Display Multicast VPN information
snmp		show snmp
mib		show mib tables/scalars
mvpnMvrfNumber		Show number of MVRFs
__readonly__		(Optional) Read Only
<i>ciscoMvpnMvrfNumber</i>		(Optional) mib object ciscoMvpnMvrfNumber

## Command Mode

- /exec

# show mvpn snmp mib mvpnNotificationEnable

show mvpn snmp mib mvpnNotificationEnable [ \_\_readonly\_\_ <ciscoMvpnNotificationEnable> ]

## Syntax Description

Syntax Description		
show		Show running system information
mvpn		Display Multicast VPN information
snmp	show snmp	
mib	show mib tables/scalars	
mvpnNotificationEnable		Show value of ciscoMvpnNotificationEnable
__readonly__		(Optional) Read Only
<i>ciscoMvpnNotificationEnable</i>		(Optional) mib object ciscoMvpnNotificationEnable

## Command Mode

- /exec



# show mvpn snmp mib mvpnTunnelTable

```
show mvpn snmp mib mvpnTunnelTable [ <ifIndex-in> ] [ __readonly__ TABLE_ciscoMvpnTunnelTable
<ifIndex-out> <ciscoMvpnTunnelName> <ciscoMvpnTunnelMvrf> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnTunnelTable	show mib table mvpnTunnelTable
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
<i>TABLE_ciscoMvpnTunnelTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>ciscoMvpnTunnelName</i>	(Optional) mib object ciscoMvpnTunnelName
<i>ciscoMvpnTunnelMvrf</i>	(Optional) mib object ciscoMvpnTunnelMvrf

## Command Mode

- /exec

```
show mvpn snmp mib mvpnTunnelTable
```



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# show nbm flows

show nbm flows [ active | all | group-based | m-group <group-ip-id> ] [ interface <if-name> ]

## Syntax Description

Syntax Description	show	Show running system information
	nbm	Non Blocking Multicast
	flows	NBM flows
	active	(Optional) Active flows
	all	(Optional) Both active and deleted flows
	group-based	(Optional) Multicast group based (*,G) flows to IGMP receivers
	m-group	(Optional) Multicast group
	<i>group-ip-id</i>	(Optional) Multicast group address
	interface	(Optional) Ingress port
	<i>if-name</i>	(Optional) Interface name

## Command Mode

- /exec

# show nbm flows bandwidth

show nbm flows bandwidth

## Syntax Description

Syntax	Description
show	Show running system information
nbm	Non Blocking Multicast
flows	NBM flows
bandwidth	Per Flow Bandwidth in Mbps

## Command Mode

- /exec

# show nbm flows statistics

show nbm flows statistics [ group-based | m-group <group-ip-id> ] [ interface <if-name> ]

## Syntax Description

### Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM flows
statistics	Flow statistics
group-based	(Optional) Multicast group based (*,G) flows to IGMP receivers
m-group	(Optional) Multicast group
<i>group-ip-id</i>	(Optional) Multicast group address
interface	(Optional) Ingress port
<i>if-name</i>	(Optional) Interface name

## Command Mode

- /exec



# show nbproxy internal event-history cli

show nbproxy internal event-history cli

## Syntax Description

Syntax	Description
show	Show running system information
nbproxy	Display NBPROXY information
internal	NBPROXY Internal State
event-history	Show various event logs of NBPROXY
cli	CLI event debugging

## Command Mode

- /exec

# show nbproxy internal event-history errors

show nbproxy internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
nbproxy		Display NBPROXY information
internal		NBPROXY Internal State
event-history		Show various event logs of NBPROXY
errors		Error messages

## Command Mode

- /exec

# show nbproxy internal event-history events

show nbproxy internal event-history events

## Syntax Description

Syntax Description		
show		Show running system information
nbproxy		Display NBPROXY information
internal		NBPROXY Internal State
event-history		Show various event logs of NBPROXY
events		Trace Event debugs

## Command Mode

- /exec

# show nbproxy internal event-history intf

show nbproxy internal event-history intf

## Syntax Description

Syntax Description		
show		Show running system information
nbproxy		Display NBPROXY information
internal		NBPROXY Internal State
event-history		Show various event logs of NBPROXY
intf		Interface debugs

## Command Mode

- /exec

# show nbproxy internal event-history msgs

show nbproxy internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
nbproxy		Display NBPROXY information
internal		NBPROXY Internal State
event-history		Show various event logs of NBPROXY
msgs		Messages debugging

## Command Mode

- /exec

# show nbproxy internal event-history mts

show nbproxy internal event-history mts

## Syntax Description

Syntax Description		
show		Show running system information
nbproxy		Display NBPROXY information
internal		NBPROXY Internal State
event-history		Show various event logs of NBPROXY
mts		MTS debugs

## Command Mode

- /exec

# show nbproxy internal event-history packets

show nbproxy internal event-history packets

## Syntax Description

Syntax	Description
show	Show running system information
nbproxy	Display NBPROXY information
internal	NBPROXY Internal State
event-history	Show various event logs of NBPROXY
packets	Packets

## Command Mode

- /exec

# show nbproxy internal event-history pss

show nbproxy internal event-history pss

## Syntax Description

Syntax Description		
show		Show running system information
nbproxy		Display NBPROXY information
internal		NBPROXY Internal State
event-history		Show various event logs of NBPROXY
pss		PSS debugs

## Command Mode

- /exec



# show nbproxy internal event-history vrf

show nbproxy internal event-history vrf

## Syntax Description

Syntax Description		
show	Show running system information	
nbproxy	Display NBPROXY information	
internal	NBPROXY Internal State	
event-history	Show various event logs of NBPROXY	
vrf	VRF debugs	

## Command Mode

- /exec

# show nbproxy internal info

show nbproxy internal info

## Syntax Description

Syntax	Description
show	Show running system information
nbproxy	Display NBPROXY information
internal	NBPROXY Internal State
info	NBPROXY info

## Command Mode

- /exec

# show ngoam acl status

```
show ngoam acl status [ __readonly__ [ LIST_bds { <bd-id> } ] <end-row> <top-line> ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
ngoam	ngoam	
acl	Show acl info	
status	Show acl install status	
<i>__readonly__</i>	(Optional) Read Only	
<i>LIST_bds</i>	(Optional) List of all bds acls is installed on	
<i>bd-id</i>	(Optional) Bridge-Domain identifier	
<i>end-row</i>	(Optional) Carriage return	
<i>top-line</i>	(Optional) Placeholder for printing the headline	

## Command Mode

- /exec

# show ngoam actsessions

show ngoam actsessions

## Syntax Description

Syntax	Description
show	Show running system information
ngoam	ngoam information
actsessions	show

## Command Mode

- /exec

## show ngoam interface statistics

```
show ngoam interface statistics [ __readonly__ [ TABLE_stats { <interface-name> <tx> <rx> } <statistics-end> ] ]
```

### Syntax Description

#### 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> <last-clear-stats> { <stat-attr> <stat-value>
} + } + ] [ TABLE_status { <st-sender-handle> <type> <state> } + ] [ TABLE_statistics_summary {
<last-clear-summary-stats> <tx> <rx> <timeout> <unsent> <resp-tx> <resp-rx> <resp-unsent> <resp-dup>
} ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ngoam	ngoam
loopback	ngoam loopback
statistics	ngoam loopback statistics
summary	ngoam loopback statistics summary
status	ngoam loopback status
session	ngoam loopback session
session	ngoam loopback session
<i>handle</i>	ngoam loopback session handle
<i>handle</i>	ngoam loopback session handle
all	Display results for all ping/loopback sessions
all	Display results for all ping/loopback sessions
TABLE_statistics	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>last-clear-stats</i>	(Optional) last clear time for statistics
<i>stat-attr</i>	(Optional) stats type
<i>stat-value</i>	(Optional) stats value
TABLE_statistics_summary	(Optional) statistics summary table
<i>last-clear-summary-stats</i>	(Optional) last clear time for summary statistics
<i>tx</i>	(Optional) summary request sent
<i>rx</i>	(Optional) summary reply received
<i>timeout</i>	(Optional) summary timeout

<i>unsent</i>	(Optional) summary unsent
<i>resp-tx</i>	(Optional) summary resp tx
<i>resp-rx</i>	(Optional) summary resp rx
<i>resp-unsent</i>	(Optional) summary resp unsent
<i>resp-dup</i>	(Optional) Duplicate responses received
TABLE_status	(Optional) database status table
<i>st-sender-handle</i>	(Optional) sender handle
<i>type</i>	(Optional) ngoam ping type
<i>state</i>	(Optional) ngoam ping state
<i>__readonly__</i>	(Optional) Read Only

**Command Mode**

- /exec

## show ngoam pathtrace

```
show ngoam pathtrace { { statistics { summary | { session { <handle> | all } } } | { database session {
<handle> | all } [ detail ] } } [ __readonly__ [ TABLE_stats { <sender-handle> <last-clear-stats> { <stat-attr>
<stat-value> } + } + ] [ TABLE_summary { <last-clear-summary-stats> <tx> <rx> <timeout> <unsent>
<resp-tx> <resp-rx> <resp-unsent> <resp-dup> } ] [ TABLE_database { <db-sender-handle> <db-start-time>
<db-end-time> <db-last-clear-stats> <db-tx> <db-rx> <db-timeout> <db-unsent> <db-resp-tx> <db-resp-rx>
<db-resp-unsent> <db-resp-dup> { <seq-number> <cli-status> [ <reply-ip> ] [ <reply-ipv6> ] [ <ingress-if>
] [ <ingress-if-state> ] [ <egress-if> ] [ <egress-if-state> ] [ <end-row> ] + } + } + ] [ TABLE_ifstats {
<if-name> <rx-len> <rx-bytes> <rx-pkt-rate> <rx-byte-rate> <rx-load> <rx-ucast> <rx-mcast> <rx-bcast>
<rx-errors> <rx-discards> <rx-unknown> <rx-bandwidth> <tx-len> <tx-bytes> <tx-pkt-rate> <tx-byte-rate>
<tx-load> <tx-ucast> <tx-mcast> <tx-bcast> <tx-discards> <tx-errors> <tx-bandwidth> } ] ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
ngoam	ngoam
pathtrace	ngoam pathtrace
statistics	ngoam pathtrace statistics
<i>end-row</i>	(Optional) Row end
summary	ngoam pathtrace statistics summary
session	ngoam pathtrace session
<i>handle</i>	ngoam pathtrace session handle
all	Display results for all pathtrace sessions
database	ngoam pathtrace results from the database
session	ngoam pathtrace session
all	Display results for all pathtrace sessions
<i>handle</i>	ngoam pathtrace session handle
detail	(Optional) Show detailed stats if present
TABLE_stats	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>last-clear-stats</i>	(Optional) last clear time for statistics
<i>stat-attr</i>	(Optional) stats type
<i>stat-value</i>	(Optional) stats value
TABLE_summary	(Optional) statistics summary table



<i>last-clear-summary-stats</i>	(Optional) last clear time for summary statistics
<i>tx</i>	(Optional) summary request sent
<i>rx</i>	(Optional) summary reply received
<i>timeout</i>	(Optional) summary timeout
<i>unsent</i>	(Optional) summary unsent
<i>resp-tx</i>	(Optional) summary resp tx
<i>resp-rx</i>	(Optional) summary resp rx
<i>resp-unsent</i>	(Optional) summary resp unsent
<i>resp-dup</i>	(Optional) Duplicate responses received
TABLE_database	(Optional) pathtrace database
<i>seq-number</i>	(Optional) Sequence number
<i>cli-status</i>	(Optional) ngoam pathtrace status
<i>ingress-if</i>	(Optional) Ingress interface
<i>egress-if</i>	(Optional) Egress interface
<i>ingress-if-state</i>	(Optional) Ingress interface state
<i>egress-if-state</i>	(Optional) Egress interface state
<i>reply-ip</i>	(Optional) ngoam pathtrace reply ip
<i>db-sender-handle</i>	(Optional) Sender handle
<i>db-start-time</i>	(Optional) Start time
<i>db-end-time</i>	(Optional) End time
<i>db-last-clear-stats</i>	(Optional) Last clear stats
<i>db-tx</i>	(Optional) Tx packets
<i>db-rx</i>	(Optional) Rx packets
<i>db-timeout</i>	(Optional) Timeout
<i>db-unsent</i>	(Optional) Unsent
<i>db-resp-tx</i>	(Optional) Response tx
<i>db-resp-rx</i>	(Optional) Response Rx
<i>db-resp-unsent</i>	(Optional) Response unsent
<i>db-resp-dup</i>	(Optional) Duplicate response recvd

<i>TABLE_ifstats</i>	(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
<i>__readonly__</i>	(Optional) Read Only

### 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

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 role

show ngoam role

## Syntax Description

Syntax	Description
show	Show running system information
ngoam	ngoam information
role	show draft pang derived role info

## Command Mode

- /exec

## show ngoam traceroute statistics

```
show ngoam traceroute statistics { summary | { session { <handle> | all } } } [ __readonly__ [ TABLE_stats
{ <sender-handle> <last-clear-stats> { <stat-attr> <stat-value> } + } + ] [ TABLE_summary {
<last-clear-summary-stats> <tx> <rx> <timeout> <unsent> <resp-tx> <resp-rx> <resp-unsent> <resp-dup>
} ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ngoam	ngoam
traceroute	ngoam traceroute
statistics	ngoam traceroute statistics
summary	ngoam traceroute statistics summary
session	ngoam traceroute session
<i>handle</i>	ngoam traceroute session handle
all	Display results for all traceroute sessions
TABLE_stats	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>last-clear-stats</i>	(Optional) last clear time for statistics
<i>stat-attr</i>	(Optional) stats type
<i>stat-value</i>	(Optional) stats value
TABLE_summary	(Optional) statistics summary table
<i>last-clear-summary-stats</i>	(Optional) last clear time for summary statistics
<i>tx</i>	(Optional) summary request sent
<i>rx</i>	(Optional) summary reply received
<i>timeout</i>	(Optional) summary timeout
<i>unsent</i>	(Optional) summary unsent
<i>resp-tx</i>	(Optional) summary resp tx
<i>resp-rx</i>	(Optional) summary resp rx
<i>resp-unsent</i>	(Optional) summary resp unsent
<i>resp-dup</i>	(Optional) Duplicate responses received

---

`__readonly__` (Optional) Read Only

---

**Command Mode**

- /exec

# show ntp access-groups

```
show ntp access-groups [ __readonly__ [ { TABLE_accessgroups <accesslist> [ <type> } ] ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ntp		Show NTP information
access-groups		Display NTP access groups
__readonly__		(Optional)
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

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

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

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 internal event-history config

show ntp internal event-history config

## Syntax Description

Syntax Description		
show		Show running system information
ntp		Show NTP information
internal		NTP internal info
event-history		Show event history
config		Show configuration history

## Command Mode

- /exec

# show ntp internal event-history fsm

show ntp internal event-history fsm

## Syntax Description

Syntax Description		
show		Show running system information
ntp		Show NTP information
internal		NTP internal info
event-history		Show event history
fsm		Show fsm state transition

## Command Mode

- /exec

# show ntp internal event-history msgs

show ntp internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
ntp		Show NTP information
internal		NTP internal info
event-history		Show event history
msgs		Show mts msg history

## Command Mode

- /exec

# show ntp internal event-history rts

show ntp internal event-history rts

## Syntax Description

Syntax Description		
show	Show running system information	
ntp	Show NTP information	
internal	NTP internal info	
event-history	Show event history	
rts	Show rts history	

## Command Mode

- /exec

# show ntp internal event-history tstamp

show ntp internal event-history tstamp

## Syntax Description

Syntax Description		
show		Show running system information
ntp		Show NTP information
internal		NTP internal info
event-history		Show event history
tstamp		Show timestamp update history

## Command Mode

- /exec



# show ntp internal log-buffer

show ntp internal log-buffer

## Syntax Description

Syntax Description		
show	Show running system information	
ntp	Show NTP information	
internal	NTP internal info	
log-buffer	Show contents of ntp internal log buffer	

## Command Mode

- /exec

# show ntp internal mem-stats

show ntp internal mem-stats

## Syntax Description

Syntax Description		
show	Show running system information	
ntp	Show NTP information	
internal	NTP internal info	
mem-stats	Show memory allocation statistics of NTP	

## Command Mode

- /exec

# show ntp internal mem-stats detail

show ntp internal mem-stats detail

## Syntax Description

Syntax Description		
show	Show running system information	
ntp	Show NTP information	
internal	NTP internal info	
mem-stats	Show memory allocation statistics of NTP	
detail	Show memory allocation statistics of NTP in detail	

## Command Mode

- /exec

# show ntp internal module-info

show ntp internal module-info

## Syntax Description

Syntax	Description
show	Show running system information
ntp	Show NTP information
internal	NTP internal info
module-info	Show all Linecards related information

## Command Mode

- /exec

# show ntp logging-status

```
show ntp logging-status [ __readonly__ [ <loggingstatus> ] ]
```

## Syntax Description

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

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

Syntax Description	show	Show running system information
	ntp	Show NTP information
	peers	Show all the peers.
	<i>__readonly__</i>	(Optional)
	<i>TABLE_peers</i>	(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

Syntax Description		
show	Show running system information	
ntp	Show NTP information	
rts-update	Show if the RTS update is enabled	
<i>__readonly__</i>	(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

Syntax Description		
	show	Show running system information
	ntp	Show NTP information
	session	Show the session information
	status	Show the session status
	__readonly__	(Optional)
	session_status	(Optional) last session status

## Command Mode

- /exec

# show ntp source-interface

```
show ntp source-interface [ __readonly__ [ <sourceinterface> ] ]
```

## Syntax Description

Syntax Description	show	Show running system information
	ntp	Show NTP information
	source-interface	Source interface configured
	__readonly__	(Optional)
	<i>sourceinterface</i>	(Optional) source interface

## Command Mode

- /exec

# show ntp source

```
show ntp source [ __readonly__ [ <sourceip> ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ntp		Show NTP information
source		Source IP address configured
__readonly__		(Optional)
<i>sourceip</i>		(Optional) source ip addr

## Command Mode

- /exec

## show ntp statistics

```
show ntp statistics { [ io ] | [ local ] | [ memory ] | peer { ipaddr { <ipv4_0> | <ipv6_1> } | name <s0> } } [
__readonly__ [ { <iotimesincereset> <ioreceivebuffers> <iofreereceivebuffers> <iousedreceivebuffers>
<iolowwaterrefills> <iodroppedpackets> <ioignoredpackets> <ioreceivedpackets> <iopacketsent>
<iopacketsnotsent> <iointerruptshandled> <ioreceivedbyint> } ] [ { <localsystemuptime> <localtimesincereset>
<localoldversionpackets> <localnewversionpackets> <localunknownversionnumber> <localbadpacketformat>
<localpacketsprocessed> <localbadauthentication> [ <localpacketsrejected> ] } ] [ { <memtimesincereset>
<memtotalpeermemory> <memfreepeermemory> <memcallstofindpeer> <memnewpeerallocations>
<mempeerdemobilizations> <memhashtablecounts> } ] [ { <peeripremotehost> <peeriplocalinterface>
<peeriptimelastreceived> <peeriptimeuntilnextsend> <peeripreachabilitychange> <peerippacketsent>
<peerippacketsreceived> <peeripbadauthentication> <peeripbogusorigin> <peeripduplicate>
<peeripbaddispersion> <peeripbadreferencetime> <peeripcandidateorder> } ] [ { <peernameremotehost>
<peernamelocalinterface> <peernametimelastreceived> <peernametimeuntilnextsend>
<peernamereachabilitychange> <peernamepacketsent> <peernamepacketsreceived>
<peernamebadauthentication> <peernamebogusorigin> <peernameduplicate> <peernameduplicate>
<peernamebaddispersion> <peernamebadreferencetime> <peernamecandidateorder> } ] ]
```

### Syntax Description

#### 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
ipv4_0	
name	Peer's Name
s0	
__readonly__	(Optional)
iotimesincereset	(Optional) time since reset
ioreceivebuffers	(Optional) receive buffers
iofreereceivebuffers	(Optional) free receive buffers
iousedreceivebuffers	(Optional) used receive buffers
iolowwaterrefills	(Optional) low water refills

<i>iодroppedpackets</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

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

Syntax Description		
show		Show running system information
ntp		Show NTP information
trusted-keys		Display trusted keys
__readonly__		(Optional)
TABLE_trustkeys		(Optional) trusted keys
key		(Optional) trusted key

## Command Mode

- /exec



# show nve bfd neighbors

```
show nve bfd neighbors [ __readonly__ [ TABLE_nve_bfd_neighbors <if-name> [ { <neighbor-vtep-ip>
<neighbor-inner-ip> <neighbor-inner-mac> <neighbor-cc-state> } ] ] ]
```

## Syntax Description

Syntax Description		
show		Display NVE information
nve		Configure NVE information
bfd		BFD
neighbors		neighbors
__readonly__		(Optional)
TABLE_nve_bfd_neighbors		(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 internal bfd neighbors interface

show nve internal bfd neighbors interface <nve-if>

## Syntax Description

Syntax Description		
show	Show running system information	
nve	Display NVE information	
internal	NVE Internal State	
bfd	BFD	
neighbors	BFD neighbors	
interface	NVE interface	
<i>nve-if</i>	NVE interface	

## Command Mode

- /exec

# show nve internal bgp rnh database

show nve internal bgp rnh database [ vni <vni-id> ]

## Syntax Description

Syntax Description	
show	Display NVE information
nve	Configure NVE information
internal	internal
bgp	BGP
rnh	RNH
database	database
vni	(Optional) Virtual Network Identifier
<i>vni-id</i>	(Optional) Virtual Network Identifier

## Command Mode

- /exec

# show nve internal event-history cli

show nve internal event-history cli

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
event-history	Show various event logs of NVE
cli	CLI event debugging

## Command Mode

- /exec

# show nve internal event-history errors

show nve internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
nve		Display NVE information
internal		NVE Internal State
event-history		Show various event logs of NVE
errors		Error messages

## Command Mode

- /exec

# show nve internal event-history events

show nve internal event-history events

## Syntax Description

Syntax Description		
show		Show running system information
nve		Display NVE information
internal		NVE Internal State
event-history		Show various event logs of NVE
events		Trace Event debugs

## Command Mode

- /exec

# show nve internal event-history msgs

show nve internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
nve		Display NVE information
internal		NVE Internal State
event-history		Show various event logs of NVE
msgs		Messages debugging

## Command Mode

- /exec



# show nve internal event-history mts

show nve internal event-history mts

## Syntax Description

Syntax Description		
show		Show running system information
nve		Display NVE information
internal		NVE Internal State
event-history		Show various event logs of NVE
mts		MTS debugs

## Command Mode

- /exec

# show nve internal event-history packets

show nve internal event-history packets

## Syntax Description

Syntax Description		
show		Show running system information
nve		Display NVE information
internal		NVE Internal State
event-history		Show various event logs of NVE
packets		Packets

## Command Mode

- /exec

# show nve internal event-history platform errors

show nve internal event-history platform errors

## Syntax Description

Syntax Description		
show		Show running system information
nve		Display NVE information
internal		NVE Internal State
event-history		Show various event logs of NVE
platform		platform library
errors		Error messages

## Command Mode

- /exec

# show nve internal event-history platform traces

show nve internal event-history platform traces

## Syntax Description

Syntax Description		
show		Show running system information
nve		Display NVE information
internal		NVE Internal State
event-history		Show various event logs of NVE
platform		platform library
traces		traces

## Command Mode

- /exec

# show nve internal event-history platform triggers

show nve internal event-history platform triggers

## Syntax Description

Syntax Description		
	show	Show running system information
	nve	Display NVE information
	internal	NVE Internal State
	event-history	Show various event logs of NVE
	platform	platform library
	triggers	Trigger messages

## Command Mode

- /exec

# show nve internal event-history pss

show nve internal event-history pss

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
event-history	Show various event logs of NVE
pss	PSS debugs

## Command Mode

- /exec

# show nve internal event-history triggers

show nve internal event-history triggers

## Syntax Description

Syntax Description		
show		Show running system information
nve		Display NVE information
internal		NVE Internal State
event-history		Show various event logs of NVE
triggers		Trigger messages

## Command Mode

- /exec

# show nve internal event-history xos-events

show nve internal event-history xos-events

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
event-history	Show various event logs of NVE
xos-events	XOS Event debugs

## Command Mode

- /exec



# show nve internal export bgp rnh

show nve internal export bgp rnh

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
export	export data
bgp	bgp info
rnh	rnh info

## Command Mode

- /exec

# show nve internal export controller peers

show nve internal export controller peers

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
export	export data
controller	Controller mode
peers	Peers

## Command Mode

- /exec

# show nve internal export global

show nve internal export global

## Syntax Description

Syntax Description	
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
export	export data
global	global data

## Command Mode

- /exec

# show nve internal export nve

show nve internal export nve

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
export	export data
nve	nve interface

## Command Mode

- /exec

# show nve internal export peer-vni

show nve internal export peer-vni

## Syntax Description

Syntax Description	
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
export	export data
peer-vni	peer vni

## Command Mode

- /exec

# show nve internal export peer

show nve internal export peer

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
export	export data
peer	peer information

## Command Mode

- /exec

# show nve internal export redundancy-group

show nve internal export redundancy-group

## Syntax Description

Syntax Description		
	show	Show running system information
	nve	Display NVE information
	internal	NVE Internal State
	export	export data
	redundancy-group	redundancy-group list

## Command Mode

- /exec

# show nve internal export vni

show nve internal export vni [ <vni-id> ]

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	nve	Display NVE information
	internal	NVE Internal State
	export	export data
	vni	Virtual Network Identifier
	<i>vni-id</i>	(Optional) Virtual Network Identifier

## Command Mode

- /exec



# show nve internal libinfo

show nve internal libinfo

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
libinfo	Show internal libinfo information

## Command Mode

- /exec

# show nve internal mem-stats

show nve internal mem-stats [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
mem-stats	Dynamic memory stats
detail	(Optional) Detailed information

## Command Mode

- /exec

# show nve internal mrib-history

```
show nve internal mrib-history [ group <group-addr> | clear ]
```

## Syntax Description

Syntax Description		
show		Show running system information
nve		Display NVE information
internal		NVE Internal State
mrib-history		Show internal mrib-history
group		(Optional)
<i>group-addr</i>		(Optional)
clear		(Optional)

## Command Mode

- /exec

# show nve internal multicast-group

show nve internal multicast-group

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
multicast-group	Show internal multicast group state

## Command Mode

- /exec

# show nve internal peer-history

```
show nve internal peer-history [ peer <peer-addr> | clear ]
```

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
peer-history	Show internal peer-history
peer	(Optional)
<i>peer-addr</i>	(Optional)
clear	(Optional)

## Command Mode

- /exec

# show nve internal peer-notify-history

show nve internal peer-notify-history [ clear ]

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
peer-notify-history	Show internal peer-notify-history
clear	(Optional)

## Command Mode

- /exec

# show nve internal peers history-log

show nve internal peers [ peer-ip <addr> ] history-log

## Syntax Description

Syntax Description		
show		Display NVE information
nve		Configure NVE information
internal	internal	
peers		NVE Peer
peer-ip		(Optional) Show a specific peer
<i>addr</i>		(Optional) Remote Peer IP Address
history-log		Peer history log

## Command Mode

- /exec

# show nve internal pim-cache

```
show nve internal pim-cache [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
nve	Display NVE information	
internal	NVE Internal State	
pim-cache	Show PIM client cache	
vrf	(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 nve internal platform globals

show nve internal platform globals

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
platform	NVE Platform library commands
globals	Global info

## Command Mode

- /exec

## show nve internal platform interface

```
show nve internal platform interface [ <nve-if> [ { vni [ <vni-id> ] } | { peer [ <peerip> ] } ] ] [ detail ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
nve	Display NVE information
platform	NVE Platform library commands
internal	NVE Internal State
interface	Interface
<i>nve-if</i>	(Optional) Specify NVE interface, else all NVE interfaces will be displayed
vni	(Optional) Virtual Network Identifier
<i>vni-id</i>	(Optional) Specify VNI
peer	(Optional) Display Peer Information
<i>peerip</i>	(Optional) Specify Peer IPv4 Address
detail	(Optional) Detailed information about the interface

### Command Mode

- /exec

# show nve internal platform statistics

show nve internal platform statistics [ clear ]

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
platform	NVE Platform library commands
statistics	statistics
clear	(Optional) Reset functions

## Command Mode

- /exec

# show nve internal platform txn\_buf

```
show nve internal platform txn_buf { sw_bd | peer_id | peer_adj }
```

## Syntax Description

Syntax Description	Description
show	Show running system information
nve	Display NVE information
platform	NVE Platform library commands
internal	NVE Internal State
txn_buf	MTS transaction buffer
sw_bd	UFDM Software BD transaction buffer
peer_id	UFDM Peer ID transaction buffer
peer_adj	UFDM Peer adjacency transaction buffer

## Command Mode

- /exec

# show nve internal port-history

```
show nve internal port-history [ clear ]
```

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
port-history	Show internal port-history
clear	(Optional)

## Command Mode

- /exec

# show nve internal pss redundancy-group

show nve internal pss redundancy-group

## Syntax Description

Syntax Description		
	show	Show running system information
	nve	Display NVE information
	internal	NVE Internal State
	pss	Show pss content
	redundancy-group	redundancy-group list

## Command Mode

- /exec

# show nve internal pss replication-servers

show nve internal pss replication-servers

## Syntax Description

Syntax Description		
	show	Show running system information
	nve	Display NVE information
	internal	NVE Internal State
	pss	Show pss content
	replication-servers	replication-servers

## Command Mode

- /exec

## show nve internal snmp cnvoNvoPerPeerStatsTable nve paddr\_type paddr

```
show nve internal snmp cnvoNvoPerPeerStatsTable nve <nve_in> paddr_type <paddr_type_in> paddr
<paddr_in> [ __readonly__ TABLE_nve_peer_counters <nve_out> <paddr_type_out> <paddr_out> <tx_uni_p>
<tx_uni_b> <tx_multi_p> <tx_multi_b> <rx_uni_p> <rx_uni_b> <rx_multi_p> <rx_multi_b> ]
```

### Syntax Description

Syntax Description		
show		Display NVE information
nve		Configure NVE information
internal		internal
snmp		snmp
cnvoNvoPerPeerStatsTable		
nve		
<i>nve_in</i>		
paddr_type		
<i>paddr_type_in</i>		
paddr		
<i>paddr_in</i>		Remote Peer IP Address
<i>__readonly__</i>		(Optional)
<i>TABLE_nve_peer_counters</i>		(Optional)
<i>nve_out</i>		(Optional)
<i>paddr_type_out</i>		(Optional)
<i>paddr_out</i>		(Optional)
<i>tx_uni_p</i>		(Optional)
<i>tx_uni_b</i>		(Optional)
<i>tx_multi_p</i>		(Optional)
<i>tx_multi_b</i>		(Optional)
<i>rx_uni_p</i>		(Optional)
<i>rx_uni_b</i>		(Optional)



---

*rx\_multi\_p* (Optional)

---

*rx\_multi\_b* (Optional)

---

**Command Mode**

- /exec

# show nve internal snmp cnvoNvoTable nve

```
show nve internal snmp cnvoNvoTable nve <nve_in> [ __readonly__ TABLE_nve_intf <nve_out>
<nve_src_intf> <encap_type> <configured_vni> <storage_type> <row_status> ]
```

## Syntax Description

Syntax Description		
show		Display NVE information
nve		Configure NVE information
internal		internal
snmp		snmp
cnvoNvoTable		
nve		
<i>nve_in</i>		
<i>__readonly__</i>	(Optional)	
<i>TABLE_nve_intf</i>	(Optional)	
<i>nve_out</i>	(Optional)	
<i>nve_src_intf</i>	(Optional)	
<i>encap_type</i>	(Optional)	
<i>configured_vni</i>	(Optional)	
<i>storage_type</i>	(Optional)	
<i>row_status</i>	(Optional)	

## Command Mode

- /exec

# show nve internal snmp cnvoPeerTable nve paddr\_type paddr

```
show nve internal snmp cnvoPeerTable nve <nve_in> paddr_type <paddr_type_in> paddr <paddr_in> [
__readonly__ TABLE_nve_peer <nve_out> <paddr_type_out> <paddr_out> <peer_uptime>
<learning_source_type> ]
```

## Syntax Description

Syntax Description		
show		Display NVE information
nve		Configure NVE information
internal		internal
snmp		snmp
cnvoPeerTable		
nve		
<i>nve_in</i>		
<i>paddr_type</i>		
<i>paddr_type_in</i>		
<i>paddr</i>		
<i>paddr_in</i>		
<i>__readonly__</i>	(Optional)	
<i>TABLE_nve_peer</i>	(Optional)	
<i>nve_out</i>	(Optional)	
<i>paddr_type_out</i>	(Optional)	
<i>paddr_out</i>	(Optional)	
<i>peer_uptime</i>	(Optional)	
<i>learning_source_type</i>	(Optional)	

## Command Mode

- /exec

## show nve internal snmp cnvoVNetStatsTable nve vni

```
show nve internal snmp cnvoVNetStatsTable nve <nve_in> vni <vni_in> [ __readonly__
TABLE_nve_vni_counters <nve_out> <vni_out> <tx_uni_p> <tx_uni_b> <tx_multi_p> <tx_multi_b>
<rx_uni_p> <rx_uni_b> <rx_multi_p> <rx_multi_b> ]
```

### Syntax Description

Syntax Description		
show		Display NVE information
nve		Configure NVE information
internal		internal
snmp		snmp
cnvoVNetStatsTable		
nve		
<i>nve_in</i>		
vni		
<i>vni_in</i>		
<i>__readonly__</i>		(Optional)
TABLE_nve_vni_counters		(Optional)
<i>nve_out</i>		(Optional)
<i>vni_out</i>		(Optional)
<i>tx_uni_p</i>		(Optional)
<i>tx_uni_b</i>		(Optional)
<i>tx_multi_p</i>		(Optional)
<i>tx_multi_b</i>		(Optional)
<i>rx_uni_p</i>		(Optional)
<i>rx_uni_b</i>		(Optional)
<i>rx_multi_p</i>		(Optional)
<i>rx_multi_b</i>		(Optional)

### Command Mode

- /exec

## show nve internal snmp cnvoVNetTable nve vni

```
show nve internal snmp cnvoVNetTable nve <nve_in> vni <vni_in> [ __readonly__ TABLE_nve_vni
<nve_out> <vni_out> <mcast_addr_type> <mcast_addr> <vni_vlan> <arp_suppression> <replication>
<host_reachability> <vni_type> <vrf_or_bridgename> <mac_addr> ]
```

### Syntax Description

Syntax Description		
show		Display NVE information
nve		Configure NVE information
internal		internal
snmp		snmp
cnvoVNetTable		
nve		
<i>nve_in</i>		
vni		
<i>vni_in</i>		
<i>__readonly__</i>	(Optional)	
<i>TABLE_nve_vni</i>	(Optional)	
<i>nve_out</i>	(Optional)	
<i>vni_out</i>	(Optional)	
<i>mcast_addr_type</i>	(Optional)	
<i>mcast_addr</i>	(Optional)	
<i>vni_vlan</i>	(Optional)	
<i>arp_suppression</i>	(Optional)	
<i>replication</i>	(Optional)	
<i>host_reachability</i>	(Optional)	
<i>vni_type</i>	(Optional)	
<i>vrf_or_bridgename</i>	(Optional)	
<i>mac_addr</i>	(Optional)	

### Command Mode

show nve internal snmp cnvoVNetTable nve vni

- /exec

# show nve internal snmp global cnvoUdpDestinationPort

```
show nve internal snmp global cnvoUdpDestinationPort [ __readonly__ <udp_dest_port> ]
```

## Syntax Description

Syntax Description		
show		Display NVE information
nve		Configure NVE information
internal		internal
snmp		snmp
global		
cnvoUdpDestinationPort		
__readonly__		(Optional) Read only
udp_dest_port		(Optional)

## Command Mode

- /exec

# show nve internal source-group

show nve internal source-group

## Syntax Description

Syntax Description		
show		Show running system information
nve		Display NVE information
internal		NVE Internal State
source-group		Show source-group state

## Command Mode

- /exec



# show nve internal state

show nve internal state

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
state	Show NVE state

## Command Mode

- /exec

# show nve internal statistics

```
show nve internal statistics { mts | interface <nve-if> | vni <vni-id> | peer <addr> } [ clear ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
statistics	statistics
mts	MTS
interface	Interface
<i>nve-if</i>	NVE interface
vni	Virtual Network Identifier
<i>vni-id</i>	VNI-ID
peer	NVE Peer
<i>addr</i>	Remote Peer IP Address
clear	(Optional) Reset functions

## Command Mode

- /exec

# show nve internal txlist source

```
show nve internal txlist { source-group }
```

## Syntax Description

Syntax Description		
show		Show running system information
nve		Display NVE information
internal		NVE Internal State
txlist		Show txlist state
source-group		Source Group txlist state

## Command Mode

- /exec

# show nve internal vni-history

show nve internal vni-history [ vni <vni> | clear ]

## Syntax Description

Syntax	Description
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
vni-history	Show internal vni-history
vni	(Optional)
<i>vni</i>	(Optional)
clear	(Optional)

## Command Mode

- /exec

# show nve internal vni

```
show nve internal vni { <vni-id> | all }
```

## Syntax Description

Syntax Description	
show	Show running system information
nve	Display NVE information
internal	NVE Internal State
vni	Virtual Network Identifier
all	Show status of all vnis
<i>vni-id</i>	Virtual Network Identifier

## Command Mode

- /exec

## show nve peers

```
show nve peers [ [ [ interface <nve-if> | peer-ip <user-peer-ip> | control-plane | data-plane ] [ detail ] ] ] [
control-plane-vni [ vni <vni-id> | peer-ip <user-peer-ip> ] ] [ controller ] [ __readonly__ TABLE_nve_peers
[ [ <if-name> ] [ <peer-ip> ] [ <peer-state> ] [ <learn-type> ] [ <uptime> ] [ <router-mac> ] [ { <first-vni>
<create-ts> <config-vnis> <provision-state> <route-update> <peer-flags> <cp-vni> <peer-ifindex-resp> } ]
[ { <vni> <learn-src> <vni-gw-mac> } ] ] ] ]
```

### Syntax Description

#### 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)
TABLE_nve_peers	(Optional) schema peer
<i>if-name</i>	(Optional) if-name
<i>peer-ip</i>	(Optional) peer-ip
<i>peer-state</i>	(Optional) peer-state
<i>learn-type</i>	(Optional) learn-type
<i>uptime</i>	(Optional) uptime
<i>first-vni</i>	(Optional) first-vni

<i>config-vnis</i>	(Optional) config-vnis
<i>provision-state</i>	(Optional) provision-state
<i>route-update</i>	(Optional) route-update
<i>peer-flags</i>	(Optional) peer-flags
<i>cp-vni</i>	(Optional) cp-vni
<i>peer-ifindex-resp</i>	(Optional) peer-ifindex-resp
<i>create-ts</i>	(Optional) create-timestamp
<i>router-mac</i>	(Optional) router-mac
<i>vni</i>	(Optional) vni value
<i>learn-src</i>	(Optional) learn source
<i>vni-gw-mac</i>	(Optional) vni gateway mac

**Command Mode**

- /exec

## show nve peers interface counters

```
show nve peers <addr> interface <nve-if>counters [ __readonly__ <peer-ip> <tx_ucastpkts> <tx_ucastbytes>
<tx_mcastpkts> <tx_mcastbytes> <rx_ucastpkts> <rx_ucastbytes> <rx_mcastpkts> <rx_mcastbytes> ]
```

### Syntax Description

Syntax Description	show	Display NVE information
	nve	Configure NVE information
	peers	NVE Peer
	<i>addr</i>	Remote Peer IP Address
	interface	Interface
	<i>__readonly__</i>	(Optional)
	<i>peer-ip</i>	(Optional)
	<i>tx_ucastpkts</i>	(Optional)
	<i>tx_ucastbytes</i>	(Optional)
	<i>tx_mcastpkts</i>	(Optional)
	<i>tx_mcastbytes</i>	(Optional)
	<i>rx_ucastpkts</i>	(Optional)
	<i>rx_ucastbytes</i>	(Optional)
	<i>rx_mcastpkts</i>	(Optional)
	<i>rx_mcastbytes</i>	(Optional)

### Command Mode

- /exec



## show nve peers vni interface counters

```
show nve peers { <addr> | all } vni { <vni-id> | all } interface <nve-if>counters [ __readonly__
TABLE_nve_peer_vni_counters <peer-ip> <vni> <tx_ucastpkts> <tx_ucastbytes> <tx_mcastpkts>
<tx_mcastbytes> <rx_ucastpkts> <rx_ucastbytes> <rx_mcastpkts> <rx_mcastbytes> ]
```

### Syntax Description

Syntax Description		
show		Display NVE information
nve		Configure NVE information
peers		NVE Peer
<i>addr</i>		Remote Peer IP Address
all		Show counters for all peers/VNIs
vni		Virtual Network Identifier
<i>vni-id</i>		Virtual Network Identifier
interface		Interface
<i>__readonly__</i>		(Optional)
TABLE_nve_peer_vni_counters		(Optional)
<i>peer-ip</i>		(Optional)
<i>vni</i>		(Optional)
<i>tx_ucastpkts</i>		(Optional)
<i>tx_ucastbytes</i>		(Optional)
<i>tx_mcastpkts</i>		(Optional)
<i>tx_mcastbytes</i>		(Optional)
<i>rx_ucastpkts</i>		(Optional)
<i>rx_ucastbytes</i>		(Optional)
<i>rx_mcastpkts</i>		(Optional)
<i>rx_mcastbytes</i>		(Optional)

### Command Mode

- /exec

# show nve replication-servers

```
show nve replication-servers [ __readonly__ [ TABLE_nve_replication_servers <if-name> [ { <server-ip>
<server-state> <server-ready> } ] ] ]
```

## Syntax Description

Syntax Description		
show		Display NVE information
nve		Configure NVE information
replication-servers		replication-servers
<i>__readonly__</i>		(Optional)
<i>TABLE_nve_replication_servers</i>	(Optional)	replication servers schema
<i>if-name</i>	(Optional)	if-name
<i>server-ip</i>	(Optional)	Server IP address
<i>server-state</i>	(Optional)	Server reachability state
<i>server-ready</i>	(Optional)	Server ready state

## Command Mode

- /exec

## show nve vni

```
show nve vni [ { { interface <nve-if> | <vni-id> } [ detail ] } | control-plane | data-plane | summary | controller
] [ __readonly__ [ TABLE_nve_vni [ <if-name> <vni> <mcast> <vni-state> <mode> <type> <flags> [ {
<prvsn-state> <vlan-bd> <svi-state> <cp-submode> } ] ] [ { <cp-vni-count> <cp-vni-up> <cp-vni-down>
<dp-vni-count> <dp-vni-up> <dp-vni-down> } ] ] ]
```

### Syntax Description

#### 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
<i>__readonly__</i>	(Optional)
<i>TABLE_nve_vni</i>	(Optional) vni schema
<i>if-name</i>	(Optional) if-name
<i>vni</i>	(Optional) vni
<i>mcast</i>	(Optional) mcast
<i>vni-state</i>	(Optional) vni-state
<i>mode</i>	(Optional) vni-mode
<i>type</i>	(Optional) vni-type
<i>flags</i>	(Optional) vni-flags
<i>prvsn-state</i>	(Optional) provision-state
<i>vlan-bd</i>	(Optional) vlan-bd
<i>svi-state</i>	(Optional) svi-state

---

<i>cp-submode</i>	(Optional) CP-submode
<i>cp-vni-count</i>	(Optional) CP vni count
<i>cp-vni-up</i>	(Optional) CP vni up count
<i>cp-vni-down</i>	(Optional) CP vni down count
<i>dp-vni-count</i>	(Optional) DP vni count
<i>dp-vni-up</i>	(Optional) DP vni up count
<i>dp-vni-down</i>	(Optional) DP vni down count

---

**Command Mode**

- /exec

## show nve vni counters

```
show nve vni <vni-id> counters [ __readonly__ <vni> <tx_ucastpkts> <tx_ucastbytes> <tx_mcastpkts>
<tx_mcastbytes> <rx_ucastpkts> <rx_ucastbytes> <rx_mcastpkts> <rx_mcastbytes> ]
```

### Syntax Description

Syntax Description		
show	Display NVE information	
nve	Configure NVE information	
vni	Virtual Network Identifier	
<i>vni-id</i>	Virtual Network Identifier	
counters	Counters	
<i>__readonly__</i>	(Optional)	
<i>vni</i>	(Optional)	
<i>tx_ucastpkts</i>	(Optional)	
<i>tx_ucastbytes</i>	(Optional)	
<i>tx_mcastpkts</i>	(Optional)	
<i>tx_mcastbytes</i>	(Optional)	
<i>rx_ucastpkts</i>	(Optional)	
<i>rx_ucastbytes</i>	(Optional)	
<i>rx_mcastpkts</i>	(Optional)	
<i>rx_mcastbytes</i>	(Optional)	

### Command Mode

- /exec

# show nve vni ingress-replication

```
show nve vni ingress-replication [ { interface <nve-if> | <vni-id> } ] [ __readonly__ [
TABLE_nve_vni_ingr_repl <if-name> <vni> [ { <repl-ip> <source> <up-time> } ] ] ]
```

## Syntax Description

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

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

Syntax Description	show	Description
	show	Display NVE information
	nve	Configure NVE information
	vrf	VRF name
	<i>vrf-name</i>	(Optional) vrf name
	<i>__readonly__</i>	(Optional)
	<i>TABLE_nve_vrf</i>	(Optional) vrf schema
	<i>vrf-name</i>	(Optional) vrf-name
	<i>vni</i>	(Optional) vni
	<i>if-name</i>	(Optional) if-name
	<i>gateway-mac</i>	(Optional) gateway-mac
	<i>ipv4-tblid</i>	(Optional) ipv4-table-id
	<i>ipv6-tblid</i>	(Optional) ipv6-table-id
	<i>vni-sw-bd</i>	(Optional) vni-sw-bd
	<i>flags</i>	(Optional) flags

### Command Mode

- /exec



# show nve vxlan-params

```
show nve vxlan-params [ __readonly__ <vxlan-port> ]
```

## Syntax Description

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

```
show nxapi [ __readonly__ { operation_status <o_status> } [ configuration_error <c_error> ] {
TABLE_listen_on_port <l_port> } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
nxapi		Show nxapi status
__readonly__		(Optional)
operation_status		(Optional) run-time information about nxapi
o_status		(Optional) enabled or not
configuration_error		(Optional) config syntax error
c_error		(Optional) config syntax error
TABLE_listen_on_port		(Optional) listen on port table
l_port		(Optional) listen on port

## Command Mode

- /exec

# show nxapi internal buffer

show nxapi internal buffer

## Syntax Description

Syntax	Description
show	Show running system information
internal	Commands for internal use
nxapi	Show information about nxapi
buffer	Show dme buffer

## Command Mode

- /exec

# show nxapi retries

show nxapi retries

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

nxapi Show nxapi status

---

retries Show retry entries from svc\_ifc\_confelem.log

---

## Command Mode

- /exec



## 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

### 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
<i>TABLE_ogroup</i>	(Optional)
<i>TABLE_seqno</i>	(Optional)
<i>_port_op</i>	(Optional) Port operator
<i>_port_range</i>	(Optional) Port range
<i>port0_num</i>	(Optional) Port number
<i>port1_num</i>	(Optional) Port number
<i>port2_num</i>	(Optional) Port number
<i>net_ip</i>	(Optional) A.B.C.D Network address of object-group member
<i>hostaddr</i>	(Optional) A.B.C.D Host address
<i>mask_ip_addr</i>	(Optional) A.B.C.D IP address
<i>mask_ip_mask</i>	(Optional) A.B.C.D IP address mask

## Command Mode

- /exec

## show onep

```
show onep { session { all | <onep-session-id> | rate-limit } [ detail ] } [ __readonly__ [ { TABLE_sessions
<ID> <Username> <State> <ReconnectTimer> <ConnectTime> <Appname> <Error> } ] [ { TABLE_details
<Appname> <Username> <State> <Error> <ConnectingTime> <ConnectTime> <ReconnectTimer> <ID>
<Version> <LastActiveTime> <Keepalive> <TransportName> <HostIP> <HostName> <Pid> [ {
TABLE_client_certificate <SerialNumber> <Issuer> [ { TABLE_validity <notBefore> <notAfter> } ]
<Subject> <KeyUsage> [ { TABLE_fingerprint <HashType> <HashValue> } ] } ] ] [ { TABLE_buckets
<Addr> <Hash> <Rate> <Last> <Current> <Limit> <ExtendedLimit> <MarkCounter> <Reject> <Accept>
} ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
onep	One Platform
session	One Platform session
all	All sessions
<i>onep-session-id</i>	Specific session name
rate-limit	rate limiting feature info
<i>__readonly__</i>	(Optional)
TABLE_sessions	(Optional) all current sessions of onep
<i>ID</i>	(Optional) the session handler
<i>Username</i>	(Optional) the username
<i>State</i>	(Optional) the state
<i>ReconnectTimer</i>	(Optional) the reconnect timer
<i>ConnectTime</i>	(Optional) the connect time
<i>Appname</i>	(Optional) the application name
<i>Error</i>	(Optional) possible error message
TABLE_buckets	(Optional) all rate limit buckets
<i>Addr</i>	(Optional) the remote address
<i>Hash</i>	(Optional) the hash of the remote address
<i>Rate</i>	(Optional) the token fill rate
<i>Last</i>	(Optional) the last rate check time
<i>Current</i>	(Optional) current tokens that are accepted to consume

<i>Limit</i>	(Optional) the standard limit on tokens
<i>ExtendedLimit</i>	(Optional) the burst limit on tokens
<i>MarkCounter</i>	(Optional) the burst tokens to consume
<i>Reject</i>	(Optional) stats: rejected TCP connections
<i>Accept</i>	(Optional) stats: accepted TCP connections
<i>detail</i>	(Optional) Show detailed session info
<i>TABLE_details</i>	(Optional) all current sessions of onep
<i>ID</i>	(Optional) the session handler
<i>Appname</i>	(Optional) the application name
<i>Username</i>	(Optional) the username
<i>State</i>	(Optional) the state
<i>ConnectTime</i>	(Optional) the connected time
<i>ConnectingTime</i>	(Optional) the connecting time
<i>ReconnectTimer</i>	(Optional) the reconnect timer
<i>Version</i>	(Optional) onep version
<i>LastActiveTime</i>	(Optional) last activity time
<i>Keepalive</i>	(Optional) keepalive time
<i>TransportName</i>	(Optional) Transport name
<i>HostIP</i>	(Optional) host address
<i>HostName</i>	(Optional) host name
<i>Pid</i>	(Optional) Pid
<i>TABLE_client_certificate</i>	(Optional) client certificate
<i>SerialNumber</i>	(Optional) Serial Number
<i>Issuer</i>	(Optional) Issuer
<i>TABLE_validity</i>	(Optional) certificate validity
<i>notBefore</i>	(Optional) notBefore
<i>notAfter</i>	(Optional) notAfter
<i>Subject</i>	(Optional) Subject
<i>KeyUsage</i>	(Optional) Key Usage

---

<i>TABLE_fingerprint</i>	(Optional) certificate finger print
<i>HashType</i>	(Optional) Hash Type
<i>HashValue</i>	(Optional) Hash Value

---

**Command Mode**

- /exec

## show onep cli-extensions applications

```
show onep cli-extensions applications [ __readonly__ <num_applications> [ TABLE_applications <app_name>
<app_version> <config_domain> <ver_specific> ] ]
```

### Syntax Description

Syntax Description		
show		Show running system information
onep		One Platform
cli-extensions		CLI Extensions feature
applications		Onep applications using the CLI Extensions feature
<i>__readonly__</i>		(Optional)
<i>num_applications</i>		(Optional) Number of onep applications
<i>TABLE_applications</i>		(Optional) Table of onep applications
<i>app_name</i>		(Optional) Onep application name
<i>app_version</i>		(Optional) Onep application version
<i>config_domain</i>		(Optional) Onep config domain
<i>ver_specific</i>		(Optional) Onep application version specific

### Command Mode

- /exec

# show onep error

```
show onep error [ __readonly__ [ { TABLE_onep_errors <Content> } ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
onep		One Platform
error		Error
<i>__readonly__</i>		(Optional)
<i>TABLE_onep_errors</i>	(Optional)	Errors messages
<i>Content</i>	(Optional)	error content

## Command Mode

- /exec

# show onep history

```
show onep history { { archived } | { all } | { session { all | <onep-session-id> } } } [ __readonly__ [ {
TABLE_history <Record> } ] ]
```

## Syntax Description

Syntax Description	show	Show running system information
	onep	One Platform
	history	One Platform history trails
	archived	One Platform archived session
	session	One Platform session
	<i>onep-session-id</i>	Specific session name
	all	All sessions
	<i>__readonly__</i>	(Optional)
	<i>TABLE_history</i>	(Optional) a set of history records
	<i>Record</i>	(Optional) an individual history record

## Command Mode

- /exec

## show onep internal api statistics

show onep internal api statistics { summary | session { all | <onep-session-id> } } [ include-zero ]

### Syntax Description

Syntax Description		
show	Show running system information	
onep	ONE-P internal show commands	
internal	Internal commands	
api	Thrift API calls	
statistics	Print the ONE-P internal statistics	
summary	Print a summary of statistics for all sessions	
session	session	
all	All current sessions	
<i>onep-session-id</i>	Specific session	
include-zero	(Optional) Display statistics with zero count	

### Command Mode

- /exec



# show onep internal session-manager

show onep internal session-manager

## Syntax Description

Syntax Description		
	show	Show running system information
	onep	One Platform
	internal	Commands for internal use
	session-manager	Display session-manager internals

## Command Mode

- /exec

## show onep statistics

```
show onep statistics [ session { all | <onep-session-id> } ] [ __readonly__ [ { TABLE_stats_global
<SessionTotal> <ActiveSessions> <LocalDisconnect> <RemoteDisconnect> <ErrorDisconnect>
<TotalDisconnects> <TotalErrors> <AuthenticateErr> <DupAppNameErr> <MemErr> <SystemErr>
<TotalConnects> <RejectedConnects> <AcceptedConnects> <UnaffectedConnects> <FailedConnectionIndex>
<SequenceNumber> <FailureReason> <ErrorCode> <FailureTime> <RemoteHost> } ] [ {
TABLE_stats_sessions <ID> <Appname> <APIIn> <APIOut> <BytesIn> <BytesOut> <VtyCount> <Error>
} ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
onep	One Platform
statistics	statistics
session	(Optional) One Platform session
all	(Optional) All sessions
<i>onep-session-id</i>	(Optional) Specific session name
<i>__readonly__</i>	(Optional)
<i>TABLE_stats_global</i>	(Optional) global session statistics for onep
<i>SessionTotal</i>	(Optional) total onep sessions
<i>ActiveSessions</i>	(Optional) currently active onep sessions
<i>LocalDisconnect</i>	(Optional) onep sessions locally disconnected
<i>RemoteDisconnect</i>	(Optional) onep sessions remotely disconnected
<i>ErrorDisconnect</i>	(Optional) onep sessions errored disconnected
<i>TotalDisconnects</i>	(Optional) total onep disconnected sessions
<i>TotalErrors</i>	(Optional) total onep errors
<i>AuthenticateErr</i>	(Optional) onep authentication errors
<i>DupAppNameErr</i>	(Optional) onep duplicate application name errors
<i>MemErr</i>	(Optional) onep memory errors
<i>SystemErr</i>	(Optional) onep system errors
<i>TotalConnects</i>	(Optional) total number of TCP connection attempts
<i>RejectedConnects</i>	(Optional) number of TCP connections rejected by rate limiting

<i>AcceptedConnects</i>	(Optional) number of TCP connections accepted by rate limiting
<i>UnaffectedConnects</i>	(Optional) number of TCP connections unaffected by rate limiting
<i>FailedConnectionIndex</i>	(Optional) Index of the failed connection
<i>SequenceNumber</i>	(Optional) Sequence number of the failed connection
<i>FailureReason</i>	(Optional) Failure reason of the failed connection
<i>ErrorCode</i>	(Optional) Error code of the failed connection
<i>FailureTime</i>	(Optional) Failure time of the failed connection
<i>RemoteHost</i>	(Optional) Remote host address of the failed connection
TABLE_stats_sessions	(Optional) all current sessions of onep
<i>ID</i>	(Optional) the session handler
<i>Appname</i>	(Optional) the application name
<i>APIIn</i>	(Optional) the API in
<i>APIOut</i>	(Optional) the API out
<i>BytesIn</i>	(Optional) the Bytes in
<i>BytesOut</i>	(Optional) the Bytes out
<i>VtyCount</i>	(Optional) the Vty count
<i>Error</i>	(Optional) possible error message

#### Command Mode

- /exec

## show onep status

```
show onep status [ __readonly__ { operational_status <o_status> } { operational_enable_reason
<o_enable_reason> } { operational_version <o_version> } [ { TABLE_transports <transport_name> <status>
[ <port> ] [ <access_class> ] [ { TABLE_trustpoints <trustpoint_type> <trustpoint_name> [ {
TABLE_trustpoint_hashes <tp_hash_type> <tp_hash_value> } ] } ] ] ] { session_max_limit <s_max_limit>
} { session_key <enabled> } { cpu_interval <c_interval> } { cpu_fall_threshold <c_fall_threshold> } {
cpu_rise_threshold <c_rise_threshold> } { history_buffer_on <h_buffer_on> } { history_buffer_purge
<h_buffer_purge> } { history_buffer_size <h_buffer_size> } { history_syslog <h_syslog> } [ {
TABLE_service_sets <service_set> <state> [ <enable_mask> ] <version> <accessible_by> } ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
onep	One Platform
status	status
<i>__readonly__</i>	(Optional)
<i>operational_status</i>	(Optional) run-time info about onep
<i>o_status</i>	(Optional) status of onep
<i>operational_enable_reason</i>	(Optional) enable reason if onep is enabled
<i>o_enable_reason</i>	(Optional) if onep is enabled, the enable reason
<i>operational_version</i>	(Optional) run-time version about onep
<i>o_version</i>	(Optional) version of onep
<i>TABLE_transports</i>	(Optional) all transports of onep
<i>transport_name</i>	(Optional) the transport name
<i>status</i>	(Optional) the transport status
<i>port</i>	(Optional) the transport port
<i>access_class</i>	(Optional) the transport access-class
<i>TABLE_trustpoints</i>	(Optional) all trustpoints of the transport
<i>trustpoint_type</i>	(Optional) either Server-Identity or Client-Verification
<i>trustpoint_name</i>	(Optional) the name of the configured trustpoint
<i>TABLE_trustpoint_hashes</i>	(Optional) hashes of a certificate in each trustpoint
<i>tp_hash_type</i>	(Optional) the algorithm used to perform the hash
<i>tp_hash_value</i>	(Optional) the actual hash

<i>session_max_limit</i>	(Optional) maximum number of sessions allowed
<i>s_max_limit</i>	(Optional) maximum limit
<i>session_key</i>	(Optional) session key-required
<i>enabled</i>	(Optional) session key-required
<i>cpu_interval</i>	(Optional) observation interval in seconds
<i>c_interval</i>	(Optional) observation interval
<i>cpu_fall_threshold</i>	(Optional) falling threshold in percentage
<i>c_fall_threshold</i>	(Optional) falling threshold
<i>cpu_rise_threshold</i>	(Optional) rising threshold in percentage
<i>c_rise_threshold</i>	(Optional) rising threshold
<i>history_buffer_on</i>	(Optional) history buffer on
<i>h_buffer_on</i>	(Optional) history buffer on
<i>history_buffer_purge</i>	(Optional) history buffer purge
<i>h_buffer_purge</i>	(Optional) purge oldest or newest
<i>history_buffer_size</i>	(Optional) history buffer size
<i>h_buffer_size</i>	(Optional) history buffer size
<i>history_syslog</i>	(Optional) history syslog
<i>h_syslog</i>	(Optional) history syslog
<i>TABLE_service_sets</i>	(Optional) all registered service sets of onep
<i>service_set</i>	(Optional) service set name
<i>state</i>	(Optional) service set state
<i>enable_mask</i>	(Optional) service set enable mask
<i>version</i>	(Optional) service set version
<i>accessible_by</i>	(Optional) service set accessibility

### Command Mode

- /exec

# show onep trace

```
show onep trace [ __readonly__ [ { TABLE_onep_traces <Content> } ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
onep		One Platform
trace		Trace
__readonly__		(Optional)
TABLE_onep_traces		(Optional) all internal traces
<i>Content</i>		(Optional) trace content

## Command Mode

- /exec

# show openflow hardware capabilities

show openflow hardware capabilities [ pipeline <pipeline-id> ]

## Syntax Description

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 internal

```
show openflow internal { counters { mts | arp { [ interface <ifname> ] | statsdb } } | topology | plifnxos counters
| pktflowdb | timestamp }
```

## Syntax Description

### Syntax Description

show	Show running system information
openflow	Show OpenFlow information
internal	Commands for internal use
counters	Info about internal counters
mts	MTS send and receive stats
topology	Info about the topologies
plifnxos	Info about the L2RIB flow mods counters
pktflowdb	Dump the flow db from the packets
timestamp	Timestamp for all the controller to switch messages
arp	Info about the ARP packet counters
interface	(Optional) Interface
<i>ifname</i>	(Optional) Interface name
statsdb	Dump the ARP stats database

## Command Mode

- /exec



# show openflow internal event-history errors

show openflow internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
openflow		Show OpenFlow information
internal		Commands for internal use
event-history		Show event history of OpenFlow
errors		Show error history of OpenFlow

## Command Mode

- /exec

# show openflow internal event-history events

show openflow internal event-history events

## Syntax Description

---

**Syntax Description**

---

show	Show running system information
------	---------------------------------

---

openflow	Show OpenFlow information
----------	---------------------------

---

internal	Commands for internal use
----------	---------------------------

---

event-history	Show event history of OpenFlow
---------------	--------------------------------

---

events	Show event history of OpenFlow
--------	--------------------------------

---

## Command Mode

- /exec

# show openflow internal event-history mts

show openflow internal event-history mts

## Syntax Description

Syntax Description		
show		Show running system information
openflow		Show OpenFlow information
internal		Commands for internal use
event-history		Show event history of OpenFlow
mts		Show MTS message history of OpenFlow

## Command Mode

- /exec

# show openflow internal event-history ovs errors

show openflow internal event-history ovs errors

## Syntax Description

Syntax Description		
show	Show running system information	
openflow	Show OpenFlow information	
internal	Commands for internal use	
event-history	Show event history of OpenFlow	
ovs	Openvswitch	
errors	Show error history of OpenFlow	

## Command Mode

- /exec

# show openflow internal event-history ovs events

show openflow internal event-history ovs events

## Syntax Description

Syntax Description		
show		Show running system information
openflow		Show OpenFlow information
internal		Commands for internal use
event-history		Show event history of OpenFlow
ovs		Openvswitch
events		Show event history of OpenFlow

## Command Mode

- /exec

# show openflow internal mem-stats

show openflow internal mem-stats [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
openflow	Show OpenFlow information
internal	Commands for internal use
mem-stats	Show memory allocation statistics
detail	(Optional) Display detailed information

## 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

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 | summary ] ] | stats ]
```

## Syntax Description

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
table-id	(Optional) Table-id for the pipeline
<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_notify_period> ] [ <gr_grace_period> ] [ <gr_state> ] [ <gr_last_status> ] ] [ <gr_helper_mode> ]
<support_tos0_only> <support_opaque_lsa> [ <low_mem_cond> ] <is_abr> <is_asbr> [
<max_lsa_non_self_number> ] [ <max_lsa_state> ] [ <max_lsa_warning_only> ] [
<max_lsa_current_non_self_lsa_number> ] [ <max_lsa_threshold_pct> ] [ <max_lsa_ignore_time> ] [
<max_lsa_reset_time> ] [ <max_lsa_ignore_count> ] [ <max_lsa_current_ignore_count> ] [
<max_lsa_ignore_time_left> ] [ <max_lsa_reset_time_left> ] [ <max_lsa_permanent_ignore> ] [
<ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ { TABLE_redist <proto> [ <max_lsas> ] [
<warning> ] [ <threshold> ] [ <current_count> ] } ] <admin_dist> <ref_bw> <spf_start_time> <spf_hold_time>
<spf_max_time> <lsa_start_time> <lsa_hold_time> <lsa_max_time> <min_lsa_arr_time> <lsa_aging_pace>
<spf_max_paths> <max_metric_adver> [ [ <max_metric_time_left> ] [ <max_metric_wait_bgp> ] [
<max_metric_timeout> ] [ <max_metric_always> ] [ <max_metric_sum_lsa> ] [ <max_metric_ext_lsa> ] ]
<asext_lsa_cnt> <asext_lsa_crc> <area_total> <area_normal> <area_stub> <area_nssa> <act_area_total>
<act_area_normal> <act_area_stub> <act_area_nssa> <no_discard_rt_ext> <no_discard_rt_int> [
<bfd_enabled> ] [ <passive_dflt> ] [ <name_lookup> ] [ { TABLE_area <aname> [ <backbone_active> ] [
<active> ] <age> <total_intf> <act_intf> <passive_intf> <loopback_intf> [ <gr_nbr_cnt> ] <stub> [
<stub_def_cost> ] <nssa> [ <no_redist> ] [ <nssa_trans> ] <no_summary> <spf_runs> <last_spf_run_time>
[ <rtr_lsa_throt> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ TABLE_range <addr>
<masklen> <state> <nets> <advertise> [ <cost> ] ] [ <filter_in> ] [ <filter_out> ] <lsa_cnt> <lsa_crc> } ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>instance_number</i>	(Optional)
<i>cname</i>	(Optional)
<i>rid</i>	(Optional)

<i>stateful_ha</i>	(Optional)
<i>gr_ha</i>	(Optional)
<i>gr_planned_only</i>	(Optional)
<i>gr_notify_period</i>	(Optional)
<i>gr_grace_period</i>	(Optional)
<i>gr_state</i>	(Optional)
<i>gr_last_status</i>	(Optional)
<i>gr_helper_mode</i>	(Optional)
<i>support_tos0_only</i>	(Optional)
<i>support_opaque_lsa</i>	(Optional)
<i>low_mem_cond</i>	(Optional)
<i>is_abr</i>	(Optional)
<i>is_asbr</i>	(Optional)
<i>max_lsa_non_self_number</i>	(Optional)
<i>max_lsa_state</i>	(Optional)
<i>max_lsa_warning_only</i>	(Optional)
<i>max_lsa_current_non_self_lsa_number</i>	(Optional)
<i>max_lsa_threshold_pct</i>	(Optional)
<i>max_lsa_ignore_time</i>	(Optional)
<i>max_lsa_reset_time</i>	(Optional)
<i>max_lsa_ignore_count</i>	(Optional)
<i>max_lsa_current_ignore_count</i>	(Optional)
<i>max_lsa_ignore_time_left</i>	(Optional)
<i>max_lsa_reset_time_left</i>	(Optional)
<i>max_lsa_permanent_ignore</i>	(Optional)
<i>ipsec_sa_type</i>	(Optional) IPsec SA Type
<i>ipsec_sa_algorithm</i>	(Optional) IPsec SA Algorithm name
<i>ipsec_sa_spi</i>	(Optional) IPsec SA SPI Value
TABLE_redist	(Optional)

<i>proto</i>	(Optional)
<i>max_lsas</i>	(Optional)
<i>warning</i>	(Optional)
<i>threshold</i>	(Optional)
<i>current_count</i>	(Optional)
<i>admin_dist</i>	(Optional)
<i>ref_bw</i>	(Optional)
<i>spf_start_time</i>	(Optional)
<i>spf_hold_time</i>	(Optional)
<i>spf_max_time</i>	(Optional)
<i>lsa_start_time</i>	(Optional)
<i>lsa_hold_time</i>	(Optional)
<i>lsa_max_time</i>	(Optional)
<i>min_lsa_arr_time</i>	(Optional)
<i>lsa_aging_pace</i>	(Optional)
<i>spf_max_paths</i>	(Optional)
<i>max_metric_adver</i>	(Optional)
<i>max_metric_time_left</i>	(Optional)
<i>max_metric_wait_bgp</i>	(Optional)
<i>max_metric_timeout</i>	(Optional)
<i>max_metric_always</i>	(Optional)
<i>max_metric_sum_lsa</i>	(Optional)
<i>max_metric_ext_lsa</i>	(Optional)
<i>asext_lsa_cnt</i>	(Optional)
<i>asext_lsa_crc</i>	(Optional)
<i>area_total</i>	(Optional)
<i>area_normal</i>	(Optional)
<i>area_stub</i>	(Optional)
<i>area_nssa</i>	(Optional)

<i>act_area_total</i>	(Optional)
<i>act_area_normal</i>	(Optional)
<i>act_area_stub</i>	(Optional)
<i>act_area_nssa</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>passive_dflt</i>	(Optional)
<i>name_lookup</i>	(Optional)
<i>no_discard_rt_ext</i>	(Optional)
<i>no_discard_rt_int</i>	(Optional)
TABLE_area	(Optional)
<i>aname</i>	(Optional)
<i>backbone_active</i>	(Optional)
<i>active</i>	(Optional)
<i>age</i>	(Optional)
<i>total_intf</i>	(Optional)
<i>act_intf</i>	(Optional)
<i>passive_intf</i>	(Optional)
<i>loopback_intf</i>	(Optional)
<i>gr_nbr_cnt</i>	(Optional)
<i>stub</i>	(Optional)
<i>stub_def_cost</i>	(Optional)
<i>nssa</i>	(Optional)
<i>no_redist</i>	(Optional)
<i>nssa_trans</i>	(Optional)
<i>no_summary</i>	(Optional)
<i>spf_runs</i>	(Optional)
<i>last_spf_run_time</i>	(Optional)
<i>rtr_lsa_throt</i>	(Optional)
<i>ipsec_sa_type</i>	(Optional) IPsec SA Type

<i>ipsec_sa_algorithm</i>	(Optional) IPsec SA Algorithm name
<i>ipsec_sa_spi</i>	(Optional) IPsec SA SPI Value
<i>TABLE_range</i>	(Optional)
<i>masklen</i>	(Optional)
<i>state</i>	(Optional)
<i>nets</i>	(Optional)
<i>advertise</i>	(Optional)
<i>cost</i>	(Optional)
<i>filter_in</i>	(Optional)
<i>filter_out</i>	(Optional)
<i>lsa_cnt</i>	(Optional)
<i>lsa_crc</i>	(Optional)

**Command Mode**

- /exec

## show ospfv3 border-routers

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] border-routers [ all_routes ] [
vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_br
<type> <addr> <cost> <asbr> <abr> <area> <spf_inst> [ <vlink_unresolved> ] [ TABLE_br_ubest_nh [
<ubest_nh_addr> ] [ <ubest_nh_intf> ] ] [ TABLE_br_mbest_nh [ <mbest_nh_addr> ] [ <mbest_nh_intf> ]
] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
border-routers	Border routers
all_routes	(Optional) Display all OSPFv3 routes
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_br	(Optional)
type	(Optional)
addr	(Optional)
cost	(Optional)
asbr	(Optional)
abr	(Optional)
area	(Optional)
spf_inst	(Optional)

---

*vlink\_unresolved* (Optional)

---

TABLE\_br\_ubest\_nh (Optional)

---

*ubest\_nh\_intf* (Optional)

---

TABLE\_br\_mbest\_nh (Optional)

---

*mbest\_nh\_intf* (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

#### 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
<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>adv-id</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)

---

*intra\_ref\_type* (Optional)

---

*intra\_ref\_lsid* (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

#### 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)

---

lsa\_name (Optional)

---

lsa\_count (Optional)

---

non\_self\_lsa\_total (Optional)

---

lsa\_total (Optional)

---

### Command Mode

- /exec



<i>external</i>	(Optional) Display AS-external LSAs
<i>as-unknown</i>	(Optional) Display as-scope unknown LSAs
<i>grace</i>	(Optional) Display Grace LSAs
<i>link</i>	(Optional) Display Link LSAs
<i>link-unknown</i>	(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>detail</i>	Display LSA in detail
<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>TABLE_lsdb</i>	(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)



---

*data* (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

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

Syntax Description		
show	Show running system information	
ospfv3	Display OSPFv3 status and configuration	
<i>tag</i>	(Optional) Process tag	
internal	(Optional) Commands for internal use	
event-history	Show event history of OSPF	
detail	Show detailed event history information	
statistics	(Optional) Show the state and size of the verbose history buffer	

## Command Mode

- /exec

# show ospfv3 ha

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ha [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> <stateful> <pss_restored> <pss_state>
<gr_enabled> <gr_grace_period> <gr_state> <gr_last_status> <gr_helper_mode> ]
```

## Syntax Description

### 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
ha	High Availability status
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
stateful	(Optional)
pss_restored	(Optional)
pss_state	(Optional)
gr_enabled	(Optional)
gr_grace_period	(Optional)
gr_state	(Optional)
gr_last_status	(Optional)
gr_helper_mode	(Optional)

## Command Mode

- /exec

## show ospfv3 interface

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface [ <interface> | vrf {
<vrf-name> | <vrf-known-name> | all } ] [ private ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_intf
<ifname> <admin_status> <proto_status> <addr> [ <masklen> ] [ <inst_id> ] <area> [ <if_cfg> ] <state_str>
<type_str> <cost> [ <bfd_enabled> ] <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority>
] [ <dr_rid> ] [ <dr_addr> ] [ <bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [
<gr_nbr> ] [ <hello_interval> ] [ <dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer>
] [ <wait_timer> ] [ <pacing_timer> ] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer> ] [ <link_lsa_cnt>
] [ <link_lsa_crc> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
interface	(Optional) OSPF enabled interface
private	(Optional) Developer-only statistics
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_intf	(Optional)
ifname	(Optional)
admin_status	(Optional)
proto_status	(Optional)
masklen	(Optional)
inst_id	(Optional)

<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)

---

*ipsec\_sa\_type* (Optional) IPsec SA Type

---

*ipsec\_sa\_algorithm* (Optional) IPsec SA Algorithm name

---

*ipsec\_sa\_spi* (Optional) IPsec SA SPI Value

---

**Command Mode**

- /exec

## show ospfv3 interface brief

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> <intf_count> TABLE_intf <ifname> <index> <area> <cost> <state_str> <nbr_total> <admin_status> ]
```

### Syntax Description

#### 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
brief	Display summary of OSPFv3 interfaces
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
intf_count	(Optional)
TABLE_intf	(Optional)
ifname	(Optional)
index	(Optional)
area	(Optional)
cost	(Optional)
state_str	(Optional)
nbr_total	(Optional)
admin_status	(Optional)



### Command Mode

- /exec

## show ospfv3 internal

```
show ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] internal [ errors ] [ area <area-id-ip> ] [ table-map ] [ asbrs [ all_routes ] ] [ externals ] [ as-external-routes ] [ max-metric ] [ flood-indices ] [ if-number-tree ] [ max-lsa ] [ txlist { u6rib | inter-prefix | inter-router | as-external | throttle } ] [ lsa <area-id2-ip> <lstype> <lsid> <advtr> [ <interface> ] ] [ area-list [ <area-list-num> ] ] [ interface-list [ <if-list-num> ] ] [ nbr-list [ <nbr-list-num> ] ] [ as-definfo-originate ] [ clear-ipv6-rt-queue ] [ flood-queue-drops ] [ forwarding-address ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

#### Syntax Description

show	Show running system 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
internal	Commands for internal use
errors	(Optional) Error counters
area	(Optional) OSPF Area information
area-id-ip	(Optional) Area Id as an integer or ip address
table-map	(Optional) Show table-map policy details and statistics
asbrs	(Optional) OSPF ASBR information
all_routes	(Optional) Display all OSPFv3 routes
externals	(Optional) OSPF External LSAs information
max-metric	(Optional) max metric related flags and values
flood-indices	(Optional) OSPF Flood index usage for neighbors and interfaces
if-number-tree	(Optional) Patricia Tree of OSPF interfaces indexed by iod
txlist	(Optional) Show txlist
u6rib	(Optional) Show txlist of IPv6 routes sent/pending for U6RIB
inter-prefix	(Optional) Routes having contribution from inter-area-prefix LSA
inter-router	(Optional) Routes having contribution from inter-area-router LSA

as-external	(Optional) Routes having contribution from as-external LSA
throttle	(Optional) Show self originated LSA throttle list
lsa	(Optional) OSPF LSA information
max-lsa	(Optional) Show max-lsa feature details and statistics
as-definfo-originate	(Optional) Show type-5 default-information originate state
flood-queue-drops	(Optional) Show statistics related to drops when packets are enqueued on flood queue
forwarding-address	(Optional) Show the forwarding addresses PT in this vrf
<i>area-id2-ip</i>	(Optional) Area Id as an integer or ip address
<i>lstype</i>	(Optional) Link state type of LSA
<i>lsid</i>	(Optional) Link state ID of LSA
<i>advrtr</i>	(Optional) Advertising router of LSA
<i>interface</i>	(Optional) OSPF enabled interface
area-list	(Optional) Show area list
<i>area-list-num</i>	(Optional) Area list number
interface-list	(Optional) Show interface list
<i>if-list-num</i>	(Optional) Interface list number
nbr-list	(Optional) Show neighbor list
<i>nbr-list-num</i>	(Optional) Neighbor list number
as-external-routes	(Optional) Display the external routes in external redist PT
clear-ipv6-rt-queue	(Optional) Show the internal clear IPv6 route queue

**Command Mode**

- /exec

# show ospfv3 internal ha

show ospfv3 [ <tag> ] internal ha [ vrf { <vrf-name> | <vrf-known-name> | all } ]

## Syntax Description

Syntax Description	show	Show running system 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
	internal	Commands for internal use
	ha	HA related information

## Command Mode

- /exec

# show ospfv3 internal library-info

show ospfv3 [ <tag> ] internal library-info

## Syntax Description

Syntax Description		
show	Show running system information	
ospfv3	Display OSPFv3 status and configuration	
<i>tag</i>	(Optional) Process tag	
internal	Commands for internal use	
library-info	Show various event logs of library	

## Command Mode

- /exec

## show ospfv3 internal mem-stats

```
show ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] internal mem-stats [ no-libs ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

Syntax Description	show	Show running system 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
	internal	Commands for internal use
	mem-stats	Show memory allocation statistics
	no-libs	(Optional) Exclude libraries
	detail	(Optional) Display detailed information

### 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

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)

---

*bf\_32\_failed* (Optional)

---

*bf\_32\_free* (Optional)

---

*bf\_32\_byte\_consumed* (Optional)

---

*slab\_current* (Optional)

---

*slab\_created* (Optional)

---

*slab\_failed* (Optional)

---

*slab\_free* (Optional)

---

*slab\_byte\_consumed* (Optional)

---

*if\_index\_alloc\_failed* (Optional)

---

*nbr\_index\_alloc\_failed* (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

#### 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)

---

*ifid* (Optional)

---

*intf* (Optional)

---

*multiarea* (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> ] [
<sendlsreprely> ] ] ]
```

### Syntax Description

#### 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>lsreqrmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>paddingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)

---

*helpermode* (Optional)

---

*helpercand* (Optional)

---

*helperterm* (Optional)

---

*senddbd* (Optional)

---

*sendsreq* (Optional)

---

*sendsu* (Optional)

---

*sendsurxmt* (Optional)

---

*sendsack* (Optional)

---

*sendsreqreply* (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

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
summary		Summary of neighbors
__readonly__		(Optional)
TABLE_ctx		(Optional)
ptag		(Optional)
cname		(Optional)
TABLE_intf		(Optional)
ifname		(Optional)
total		(Optional)
down		(Optional)
attempt		(Optional)
init		(Optional)
twoway		(Optional)
exstart		(Optional)

---

*exchange* (Optional)

---

*loading* (Optional)

---

*full* (Optional)

---

*if\_total* (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

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	
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)	
as	Autonomous system number	
static	Static	
direct	Directly connected	
amt	AMT anycast prefix	
area	Configure area properties	
area-id-ip	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	
tag		

**Command Mode**

- /exec



**Command Mode**

- /exec



**Command Mode**

- /exec

## show ospfv3 route

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] route [ <ipv6-prefix> [
longer-prefixes ] ] [ all_routes ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ <hdr_addr> ] [ <hdr_masklen> ] [ TABLE_route <addr> <masklen> <type> <in_rib>
<direct> [ <area> ] [ <tag> ] [ <vlink_unresolved> ] [ TABLE_route_ubest_nh [ <ubest_nh_addr> ] [
<ubest_nh_intf> ] [ <ubest_cost> ] [ <distance> ] [ <ubest_nh_direct> ] [ <ubest_nh_in_rib> ] ] [
TABLE_route_mbest_nh [ <mbest_nh_addr> ] [ <mbest_nh_intf> ] [ <mbest_cost> ] [ <mbest_nh_direct>
] [ <mbest_nh_in_rib> ] ] ] ] ]
```

### Syntax Description

#### 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_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_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

#### Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
longer-prefixes	(Optional) Show exact match and more specific routes
summary	Show route counts
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_route	(Optional)
total_routes	(Optional)
total_paths	(Optional)
TABLE_route_type	(Optional)
path_type	(Optional)
path_routes	(Optional)
path_paths	(Optional)

---

TABLE\_route\_masklen (Optional)

---

*masklen* (Optional)

---

*masklen\_routes* (Optional)

---

*masklen\_paths* (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

#### 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)

<i>older_lsa_rcv</i>	(Optional)
<i>nbr_state_change</i>	(Optional)
<i>nbr_dead_postpone</i>	(Optional)
<i>nbr_dead_expire</i>	(Optional)
<i>nbr_bad_lsreq</i>	(Optional)
<i>nbr_seqno_mismatch</i>	(Optional)
<i>spf_full</i>	(Optional)
<i>spf_summary</i>	(Optional)
<i>spf_external</i>	(Optional)
<i>spf_extsummary</i>	(Optional)
<i>rtr_generate</i>	(Optional)
<i>rtr_refresh</i>	(Optional)
<i>rtr_flush</i>	(Optional)
<i>rtr_other_flush</i>	(Optional)
<i>net_generate</i>	(Optional)
<i>net_refresh</i>	(Optional)
<i>net_flush</i>	(Optional)
<i>net_other_flush</i>	(Optional)
<i>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)

---

*floodq\_last\_hwm\_time* (Optional)

---

*lsdb\_add\_fail* (Optional)

---

TABLE\_buffer\_detail (Optional)

---

*buf\_size* (Optional)

---

*buf\_size\_huge* (Optional)

---

*buf\_in\_use* (Optional)

---

*buf\_hwm* (Optional)

---

*buf\_perm* (Optional)

---

*buf\_alloc* (Optional)

---

*buf\_free* (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

Syntax Description	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
summary-address	Summary-address redistribution information
private	(Optional) Developer-only statistics
tag	(Optional)
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
rid	(Optional)
TABLE_sum	(Optional)
masklen	(Optional)
metric	(Optional)
pending	(Optional)

## Command Mode

- /exec

## show ospfv3 traffic

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> [ detail ]
| [ detail ] | [ detail ] vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_traf <ptag>
<cname> <last_clear> [ <ifname> ] <pkt_in> <pkt_out> <lsu_first_trans> <lsu_retrans> <lsu_for_lsreq>
<lsu_nbr_trans> <throttle_out> <throttle_out_token> <throttle_out_ip> <lsa_ignored> <lsa_dropped_spf>
<lsa_dropped_gr> <pkt_drops_in> <pkt_drops_out> <pkt_errors_in> <pkt_errors_out> <hello_errors_in>
<dbds_errors_in> <lsreqs_errors_in> <lsus_errors_in> <lsacks_errors_in> <pkt_unknown_in>
<pkt_unknown_out> <pkt_no_ospf_intf> <bad_version> <bad_crc> <dup_rtr_id> <dup_src_addr>
<invalid_src_addr> <invalid_dst_addr> <non_existing_nbr> <pkt_passive_intf> <wrong_area>
<invalid_pkt_len> <nbr_changed_routerid_ipaddr> <nbr_changed_interfaceid> [ <bad_auth> ] [
<bad_reserved> ] [ <pkt_no_vrf> ] <hellos_in> <dbds_in> <lsreqs_in> <lsus_in> <lsacks_in> <hellos_out>
<dbds_out> <lsreqs_out> <lsus_out> <lsacks_out> [ <hellos_in_hq> <dbds_in_hq> <lsreqs_in_flq>
<lsus_in_flq> <lsacks_in_flq> <lsas_in_dbds_in> <lsas_in_lsreqs_in> <lsas_in_lsus_in> <lsas_in_lsacks_in>
<lsas_in_dbds_out> <lsas_in_lsreqs_out> <lsas_in_lsus_out> <lsas_in_lsacks_out> <lsas_in_rxmt_lsus_out>
] ]
```

### Syntax Description

#### 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)



<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)

---

*lsas\_in\_dbds\_out* (Optional)

---

*lsas\_in\_lsreqs\_out* (Optional)

---

*lsas\_in\_lsus\_out* (Optional)

---

*lsas\_in\_lsacks\_out* (Optional)

---

*lsas\_in\_rxmt\_lsus\_out* (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_adjst> ] [ <gr_nbr> ] [ <hello_interval> ] [ <dead_interval> ] [ <wait_interval> ] [
<rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <pacing_timer> ] [ <lsu_timer> ] [ <lsack_timer> ] [
<netlsa_throt_timer> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <state> ] [ <transition> ] [ <lastchange> ] [
<priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [ <dbdallsent> ] [
<dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] [ <helloptions> ] [ <dbdoptions> ] [
<lastnonhello> ] [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [
<rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [
<helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [
<sendlsreqreply> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] ] ]
```

### Syntax Description

#### 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)

<i>transit_area</i>	(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>pacingtmer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)

<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendsreq</i>	(Optional)
<i>sendsu</i>	(Optional)
<i>sendsurxmt</i>	(Optional)
<i>sendsack</i>	(Optional)
<i>sendsreqreply</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

#### 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

Syntax Description	
show	Display OTV information
otv	Configure OTV information
<i>overlay-if</i>	(Optional) Overlay interface
vpn	(Optional) Overlay VPN name
<i>vpn-name</i>	(Optional) OTV VPN Name

## Command Mode

- /exec

# show otv adjacency

```
show otv adjacency [ detail ] [ <overlay-if> | vpn <vpn-name> ]
```

## Syntax Description

Syntax Description		
show	Display OTV information	
otv	Configure OTV information	
<i>overlay-if</i>	(Optional) Overlay interface	
vpn	(Optional) Overlay VPN name	
<i>vpn-name</i>	(Optional) OTV VPN Name	
adjacency	Show adjacencies on overlay	
detail	(Optional) Adjacency details	

## Command Mode

- /exec

# show otv arp-nd-cache

```
show otv arp-nd-cache [ <overlay-if> | vpn <vpn-name> | vlan-id <vlan_id> ] [ __readonly__ {
TABLE_arp-nd-cache <if-name> <vlan-id> <mac-addr> <l3-addr> <uptime> <expiry> } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
otv		Display OTV information
<i>overlay-if</i>	(Optional)	Overlay interface
vpn	(Optional)	Overlay VPN name
<i>vpn-name</i>	(Optional)	OTV VPN Name
vlan-id	(Optional)	Vlan id filter
<i>vlan_id</i>	(Optional)	Vlan id
arp-nd-cache		Display (L3, L2) addresses cached from ARP and ND packet inspection
<i>__readonly__</i>	(Optional)	
TABLE_arp-nd-cache	(Optional)	
<i>if-name</i>	(Optional)	
<i>vlan-id</i>	(Optional)	
<i>mac-addr</i>	(Optional)	
<i>l3-addr</i>	(Optional)	
<i>uptime</i>	(Optional)	
<i>expiry</i>	(Optional)	

## Command Mode

- /exec

## show otv data-group

```
show otv data-group [ local | remote ] [ [ <overlay-if> ] [ vlan <vlan-id> ] [ source <source> ] [ group <group> ] [ delivery-source <dsource> ] [ delivery-group <dgroup> ] [ join-interface <jif> ] ] +
```

### Syntax Description

Syntax Description	show	Show running system information
	otv	Display OTV information
	data-group	Data groups
	local	(Optional) Local sources/groups
	remote	(Optional) Remote sources/groups
	<i>overlay-if</i>	(Optional) Overlay interface
	vlan	(Optional) Vlan
	<i>vlan-id</i>	(Optional) Vlan ID
	source	(Optional) active-source source
	<i>source</i>	(Optional) active-source source address
	group	(Optional) active-source group
	<i>group</i>	(Optional) active-source group address
	delivery-source	(Optional) delivery source
	<i>dsource</i>	(Optional) delivery source address
	delivery-group	(Optional) delivery group
	<i>dgroup</i>	(Optional) delivery group address
	join-interface	(Optional) join interface
	<i>jif</i>	(Optional) interface

### Command Mode

- /exec

# show otv internal

show otv internal [ { overlay | adjacency | cache-site-adj | vlan [ <vlan-range> ] | site } [ detail ] ]

## Syntax Description

Syntax	Description
show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
overlay	(Optional) Show overlay information
adjacency	(Optional) Show adjacencies on overlay
cache-site-adj	(Optional) Show site-adj-cache database
vlan	(Optional) Show internal vlan database
<i>vlan-range</i>	(Optional) VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
site	(Optional) Show Site database
detail	(Optional) Show detailed output

## Command Mode

- /exec

# show otv internal

show otv internal [ partition ]

## Syntax Description

Syntax Description	
show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
partition	(Optional) show remote partition site-id db

## Command Mode

- /exec

# show otv internal

show otv internal [ remote-db ]

## Syntax Description

Syntax Description	
show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
remote-db	(Optional) show remote partition vlan db

## Command Mode

- /exec

# show otv internal

show otv internal [ device-db ]

## Syntax Description

---

**Syntax Description**

---

show	Display OTV information
------	-------------------------

---

otv	Configure OTV information
-----	---------------------------

---

internal	Display OTV internal information
----------	----------------------------------

---

device-db	(Optional) show device db
-----------	---------------------------

---

## Command Mode

- /exec



# show otv internal adjacency-server replication-list

show otv internal adjacency-server replication-list [ <overlay-if> | vpn <vpn-name> ]

## Syntax Description

Syntax Description		
show		Show running system information
otv		Display OTV information
internal		Display OTV internal information
<i>overlay-if</i>	(Optional)	Overlay interface
vpn	(Optional)	Overlay VPN name
<i>vpn-name</i>	(Optional)	OTV VPN Name
adjacency-server		Adjacency Server
replication-list		Display Runtime internal Replication List

## Command Mode

- /exec

## show otv internal aed-server

show otv internal aed-server [ detail | <overlay-if> | vpn <vpn-name> ]

### Syntax Description

Syntax Description	Description
show	Display OTV information
otv	Configure OTV information
internal	internal
aed-server	Show aed server state
detail	(Optional) Show detailed aed_server state
<i>overlay-if</i>	(Optional) Overlay interface
vpn	(Optional) Overlay VPN name
<i>vpn-name</i>	(Optional) OTV VPN Name

### Command Mode

- /exec

# show otv internal blackholing state

```
show otv internal blackholing state [ <overlay-if> | vpn <vpn-name> ]
```

## Syntax Description

Syntax	Description
show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
blackholing	Display OTV blackholing state
state	Display OTV blackholing state
<i>overlay-if</i>	(Optional) Overlay interface
vpn	(Optional) Overlay VPN name
<i>vpn-name</i>	(Optional) OTV VPN Name

## Command Mode

- /exec

# show otv internal cleanup

show otv internal cleanup [ <overlay-if> ]

## Syntax Description

Syntax Description		
show	Display OTV information	
otv	Configure OTV information	
internal	Display OTV internal information	
cleanup	Show overlay cleanup information	
<i>overlay-if</i>	(Optional) Overlay interface	

## Command Mode

- /exec

# show otv internal event-history

```
show otv internal event-history { errors | packet | msgs | cli | learn | debug | event | arp-nd | statistics | fc |
delivery | stp | route }
```

## Syntax Description

Syntax	Description
show	Show running system information
otv	Display OTV information
internal	Display OTV internal information
event-history	Show various event logs of OTV
errors	Error logs of OTV
msgs	Message logs of OTV
cli	CLI logs of OTV
learn	Learn logs of OTV
debug	Internal debug logs of OTV
fc	FC logs of OTV
event	Event logs of OTV
arp-nd	ARP-ND logs of OTV
packet	OTV packet logs
statistics	Statistics for OTV event history
delivery	Delivery groups logs of OTV
stp	STP logs of OTV
route	Route update logs of OTV

## Command Mode

- /exec

# show otv internal mem-stats

show otv internal mem-stats [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
otv	Display OTV information
internal	Display OTV internal information
mem-stats	Dynamic memory stats
detail	(Optional) Detailed information

## Command Mode

- /exec

# show otv internal overlay history

```
show otv internal overlay history [ aed_svr | ed_summ | cleanup ] [ sent | recv | all | clr | active | backup ] [
<overlay-if> ]
```

## Syntax Description

Syntax Description	Description
show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
overlay	overlay
history	history
aed_svr	(Optional) aed_svr
ed_summ	(Optional) edge device summary
cleanup	(Optional) cleanup
sent	(Optional) sent
recv	(Optional) recv
all	(Optional) all
clr	(Optional) clr
active	(Optional) active
backup	(Optional) backup
<i>overlay-if</i>	(Optional) Overlay interface

## Command Mode

- /exec

# show otv internal peer-id allocation

show otv internal peer-id allocation

## Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
internal	Display OTV internal information	
peer-id	Display peer-id allocation requests	
allocation		

## Command Mode

- /exec



# show otv internal pim-cache

```
show otv internal pim-cache [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
otv		Display OTV information
internal		Display OTV internal information
pim-cache		Show PIM client cache
vrf		(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 otv internal replication-list sdb

show otv internal replication-list { sdb | pss }

## Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
internal	Display OTV internal information	
replication-list	Display Runtime internal Replication List	
sdb	Display Shared Replication List used by PM	
pss	Display internal replication list database	

## Command Mode

- /exec

## show otv internal shared-database

show otv internal shared-database [ overlay | peer-global-info | peer-ovly-info | adj | vlan | gen | site | tunnel | delivery-group-db | local-delivery-groups | local-active-sources | local-exit-interface | buffers | hostname | site-index | partition | partition-vlan | vlan-device | device-db | vlan-status | aed-server-req | ed-summary | vlan-mapping | aed-map ]

### Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
internal	Display OTV internal information	
shared-database	Shared-database contents	
overlay	(Optional) Overlay interface database	
adj	(Optional) Adjacency interface database	
vlan	(Optional) Vlan interface database	
gen	(Optional) Geninfo database	
site	(Optional) Site Adjacency database	
tunnel	(Optional) TM GRE Tunnels	
delivery-group-db	(Optional) Delivery group database	
local-delivery-groups	(Optional) Local delivery groups	
local-active-sources	(Optional) Local active sources	
local-exit-interface	(Optional) Local delivery group to exit i/f mapping	
peer-global-info	(Optional) Global peer-id alloc state	
peer-ovly-info	(Optional) Overlay wise peer VPC info	
buffers	(Optional) Batched SDB Update/Del buffer state	
hostname	(Optional) Sysid to Hostname mapping	
site-index	(Optional) Site-index for remote sites	
partition	(Optional) Partition db for remote sites	
partition-vlan	(Optional) VLAN db of partition	
vlan-device	(Optional) Device db for each VLAN	
device-db	(Optional) Device and site database	

vlan-status	(Optional) vlan status
aed-server-req	(Optional) AED Server request
ed-summary	(Optional) Edge device summary DB
vlan-mapping	(Optional) Vlan translation mapping info
aed-map	(Optional) AED Map

**Command Mode**

- /exec

# show otv internal snmp cotvAdjacencyDatabaseTable cotvOverlayNumber cotvAdjacentDevAddrType cotvAdjacentDevAddr

```
show otv internal snmp cotvAdjacencyDatabaseTable cotvOverlayNumber <overlay_number_in>
cotvAdjacentDevAddrType <address_type_in> cotvAdjacentDevAddr <address_in> [ __readonly__
TABLE-cotvAdjacencyDatabaseTable <overlay_number_out> <address_type_out> <address_out>
<cotvAdjacentDevSystemID> <cotvAdjacentDevName> <cotvAdjacentDevState> <cotvAdjacentDevUpTime>
]
```

## Syntax Description

Syntax Description		
show		Display OTV information
otv		Configure OTV information
internal		Display OTV internal information
snmp		otv adjacency for snmp
cotvAdjacencyDatabaseTable		
cotvOverlayNumber		
	<i>overlay_number_in</i>	
cotvAdjacentDevAddrType		
	<i>address_type_in</i>	
cotvAdjacentDevAddr		
	<i>address_in</i>	
	<i>__readonly__</i>	(Optional) Read Only
	TABLE-cotvAdjacencyDatabaseTable	(Optional) otv adjacency xml table
	<i>overlay_number_out</i>	(Optional)
	<i>address_type_out</i>	(Optional)
	<i>address_out</i>	(Optional)
	<i>cotvAdjacentDevSystemID</i>	(Optional)
	<i>cotvAdjacentDevName</i>	(Optional)
	<i>cotvAdjacentDevState</i>	(Optional)
	<i>cotvAdjacentDevUpTime</i>	(Optional)

show otv internal snmp cotvAdjacencyDatabaseTable cotvOverlayNumber cotvAdjacentDevAddrType cotvAdjacentDevAddr

### Command Mode

- /exec

# show otv internal snmp cotvArpNdCacheTable cotvOverlayNumber cotvVlanId cotvArpNdCacheL3AddrType cotvArpNdCacheL3Addr

```
show otv internal snmp cotvArpNdCacheTable cotvOverlayNumber <overlay_num> cotvVlanId <vlan_id>
cotvArpNdCacheL3AddrType <l3_addr_type> cotvArpNdCacheL3Addr <l3_addr> [ __readonly__ {
TABLE-cotvArpNdCacheTable <overlay_num_out> <vlan_id_out> <l3_addr_type_out> <l3_addr_out>
<mac_addr> <arp_nd_age> <arp_nd_expire_time> } ]
```

## Syntax Description

### Syntax Description

show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
snmp	
cotvArpNdCacheTable	
cotvOverlayNumber	
<i>overlay_num</i>	
cotvVlanId	
<i>vlan_id</i>	
cotvArpNdCacheL3AddrType	
<i>l3_addr_type</i>	
cotvArpNdCacheL3Addr	
<i>l3_addr</i>	
<i>__readonly__</i>	(Optional)
TABLE-cotvArpNdCacheTable	(Optional)
<i>overlay_num_out</i>	(Optional)
<i>vlan_id_out</i>	(Optional)
<i>l3_addr_type_out</i>	(Optional)
<i>l3_addr_out</i>	(Optional)
<i>mac_addr</i>	(Optional)
<i>arp_nd_age</i>	(Optional)

show otv internal snmp cotvArpNdCacheTable cotvOverlayNumber cotvVlanId cotvArpNdCacheL3AddrType cotvArpNdCacheL3Addr

---

*arp\_nd\_expire\_time* (Optional)

---

### Command Mode

- /exec



# show otv internal snmp cotvDataGroupConfigTable overlay mcasttype mcastaddr prefixlen

```
show otv internal snmp cotvDataGroupConfigTable overlay <cotvOverlayNumber-in> mcasttype
<cotvDataGroupMcastRangeAddrType-in> mcastaddr <cotvDataGroupMcastRangeAddr-in> prefixlen
<cotvDataGroupMcastRangePrefixLength-in> [ __readonly__ TABLE-cotvDataGroupConfigTable
<cotvOverlayNumber-out> <cotvDataGroupMcastRangeAddrType-out>
<cotvDataGroupMcastRangeAddr-out> <cotvDataGroupMcastRangePrefixLength-out>
<cotvDataGroupStorageType> <cotvDataGroupRowStatus> ]
```

## Syntax Description

### Syntax Description

show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
snmp	
cotvDataGroupConfigTable	
overlay	OverlayNumber
<i>cotvOverlayNumber-in</i>	
mcasttype	
<i>cotvDataGroupMcastRangeAddrType-in</i>	
mcastaddr	
<i>cotvDataGroupMcastRangeAddr-in</i>	
prefixlen	
<i>cotvDataGroupMcastRangePrefixLength-in</i>	
__readonly__	(Optional)
TABLE-cotvDataGroupConfigTable	(Optional)
<i>cotvOverlayNumber-out</i>	(Optional) mib table index cotvOverlayNumber
<i>cotvDataGroupMcastRangeAddrType-out</i>	(Optional) mib table index
<i>cotvDataGroupMcastRangeAddr-out</i>	(Optional) mib table index
<i>cotvDataGroupMcastRangePrefixLength-out</i>	(Optional) mib table index
<i>cotvDataGroupStorageType</i>	(Optional) mib object cotvDataGroupStorageType
<i>cotvDataGroupRowStatus</i>	(Optional) mib object cotvDataGroupRowStatus

### Command Mode

- /exec

# show otv internal snmp cotvDataGroupInfoTable overlay location

show otv internal snmp cotvDataGroupInfoTable overlay <cotvOverlayNumber-in> location <cotvDataGroupActiveSrcLocation-in>

## Syntax Description

Syntax	Description
show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
snmp	
cotvDataGroupInfoTable	
overlay	OverlayNumber
<i>cotvOverlayNumber-in</i>	
location	Location
<i>cotvDataGroupActiveSrcLocation-in</i>	

## Command Mode

- /exec

## show otv internal snmp cotvOverlayTable cotvOverlayNumber

```
show otv internal snmp cotvOverlayTable cotvOverlayNumber <overlay_num> [ __readonly__ {
TABLE-cotvOverlayTable <overlay_num_out> <vpn_name> <vpn_state> <vpn_down_reason>
<extend_vlan_first> <extend_vlan_second> <ctrl_grp_addr_type> <ctrl_grp_addr> <broadcast_grp_addr_type>
<broadcast_grp_addr> <join_intf> <src_intf> <aed_capable> <aed_incapable_reason> <transport_type>
<adj_server_enable> <primary_adj_server_addr_type> <primary_adj_server_addr>
<secondary_adj_server_addr_type> <secondary_adj_server_addr> <suppress_arp_nd> <storage_type>
<row_status> } ]
```

### Syntax Description

#### Syntax Description

show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
snmp	
cotvOverlayTable	
cotvOverlayNumber	
<i>overlay_num</i>	
<i>__readonly__</i>	(Optional)
TABLE-cotvOverlayTable	(Optional)
<i>overlay_num_out</i>	(Optional)
<i>vpn_name</i>	(Optional)
<i>vpn_state</i>	(Optional)
<i>vpn_down_reason</i>	(Optional)
<i>extend_vlan_first</i>	(Optional)
<i>extend_vlan_second</i>	(Optional)
<i>ctrl_grp_addr_type</i>	(Optional)
<i>ctrl_grp_addr</i>	(Optional)
<i>broadcast_grp_addr_type</i>	(Optional)
<i>broadcast_grp_addr</i>	(Optional)
<i>join_intf</i>	(Optional)
<i>src_intf</i>	(Optional)

<i>aed_capable</i>	(Optional)
<i>aed_incapable_reason</i>	(Optional)
<i>transport_type</i>	(Optional)
<i>adj_server_enable</i>	(Optional)
<i>primary_adj_server_addr_type</i>	(Optional)
<i>primary_adj_server_addr</i>	(Optional)
<i>secondary_adj_server_addr_type</i>	(Optional)
<i>secondary_adj_server_addr</i>	(Optional)
<i>suppress_arp_nd</i>	(Optional)
<i>storage_type</i>	(Optional)
<i>row_status</i>	(Optional)

**Command Mode**

- /exec

## show otv internal snmp cotvVlansTable overlay vlan

```
show otv internal snmp cotvVlansTable overlay <cotvOverlayNumber-in> vlan <cotvVlanId-in> [ __readonly__
TABLE-cotvVlansTable <cotvOverlayNumber-out> <cotvVlanId-out> <cotvVlanState>
<cotvVlanInactiveReason> <cotvVlanAedAddrType> <cotvVlanAedAddr> <cotvVlanEdgeDevIsAed> ]
```

### Syntax Description

#### Syntax Description

show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
snmp	
cotvVlansTable	
overlay	OverlayNumber
<i>cotvOverlayNumber-in</i>	
vlan	VlanId
<i>cotvVlanId-in</i>	
__readonly__	(Optional)
TABLE-cotvVlansTable	(Optional)
<i>cotvOverlayNumber-out</i>	(Optional) mib table index cotvOverlayNumber
<i>cotvVlanId-out</i>	(Optional) mib table index cotvVlanId
<i>cotvVlanState</i>	(Optional) mib object cotvVlanState
<i>cotvVlanInactiveReason</i>	(Optional) mib object cotvVlanInactiveReason
<i>cotvVlanAedAddrType</i>	(Optional) mib object cotvVlanAedAddrType
<i>cotvVlanAedAddr</i>	(Optional) mib object cotvVlanAedAddr
<i>cotvVlanEdgeDevIsAed</i>	(Optional) mib object cotvVlanEdgeDevIsAed

### Command Mode

- /exec

# show otv internal snmp global cotvSiteIdAdmin

```
show otv internal snmp global cotvSiteIdAdmin [ __readonly__ <admin_site_id> ]
```

## Syntax Description

Syntax Description		
show		Display OTV information
otv		Configure OTV information
internal		Display OTV internal information
snmp		
global		
cotvSiteIdAdmin		
__readonly__	(Optional)	
admin_site_id	(Optional)	

## Command Mode

- /exec

# show otv internal snmp global cotvSiteIdOper

show otv internal snmp global cotvSiteIdOper [ *\_\_readonly\_\_* <oper\_site\_id> ]

## Syntax Description

Syntax Description		
show	Display OTV information	
otv	Configure OTV information	
internal	Display OTV internal information	
snmp		
global		
cotvSiteIdOper		
<i>__readonly__</i>	(Optional)	
<i>oper_site_id</i>	(Optional)	

## Command Mode

- /exec



# show otv internal snmp global cotvSiteVlan

```
show otv internal snmp global cotvSiteVlan [ __readonly__ <site_vlan> ]
```

## Syntax Description

Syntax Description		
show		Display OTV information
otv		Configure OTV information
internal		Display OTV internal information
snmp		
global		
cotvSiteVlan		
__readonly__	(Optional)	
site_vlan	(Optional)	

## Command Mode

- /exec

# show otv internal snmp global cotvSiteVlanState

show otv internal snmp global cotvSiteVlanState [ *\_\_readonly\_\_* <site\_vlan\_state> ]

## Syntax Description

Syntax Description		
show		Display OTV information
otv		Configure OTV information
internal		Display OTV internal information
snmp		
global		
cotvSiteVlanState		
<i>__readonly__</i>	(Optional)	
<i>site_vlan_state</i>	(Optional)	

## Command Mode

- /exec

# show otv internal state

show otv internal state

## Syntax Description

Syntax	Description
show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
state	Display OTV server state

## Command Mode

- /exec

# show otv internal static-routes unicast

```
show otv internal static-routes { unicast | multicast }
```

## Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
internal	Display OTV internal information	
static-routes	Show OTV Static Routes	
unicast	Show Static Unicast Routes	
multicast	Show Static Multicast Routes	

## Command Mode

- /exec

# show otv internal tunnel

show otv internal tunnel

## Syntax Description

Syntax	Description
show	Show running system information
otv	Display OTV information
internal	Display OTV internal information
tunnel	Display OTV tunnel information

## Command Mode

- /exec

# show otv internal ufdm peers

show otv internal ufdm peers [ avl | array ]

## Syntax Description

### Syntax Description

show	Show running system information
otv	Display OTV information
internal	Display OTV internal information
ufdm	Display UFDM peers
peers	Display OTV peer information
avl	(Optional) Display peer AVL structure
array	(Optional) Display peer array structure

## Command Mode

- /exec

# show otv internal vlan history

```
show otv internal vlan history { vlan-state | aed-svr-req | local | hw } [ sent | recv | clr ] [ <vlan-id> ] [ detail ] [ all ]
```

## Syntax Description

Syntax	Description
show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
vlan	vlan
history	history
vlan-state	vlan-state
aed-svr-req	aed-svr-req
local	local
hw	hw
sent	(Optional) sent
recv	(Optional) recv
all	(Optional) all
clr	(Optional) clr
detail	(Optional) Show detailed output
<i>vlan-id</i>	(Optional) Vlan id

## Command Mode

- /exec

## show otv internal vlan state

```
show otv internal vlan state [ <device-id> ] [ <version> ] [ add | del | ready | helper | aed | bkp ] [ <overlay-if> ] [ all ]
```

### Syntax Description

Syntax	Description
show	Display OTV information
otv	Configure OTV information
internal	Display OTV internal information
vlan	vlan
state	State
<i>device-id</i>	(Optional) Device ID in MAC address format
<i>version</i>	(Optional) Version
add	(Optional) Add
del	(Optional) Delete
ready	(Optional) Forward Ready
helper	(Optional) Packing Helper
aed	(Optional) AED
bkp	(Optional) backup AED
<i>overlay-if</i>	(Optional) Overlay interface
all	(Optional) All local and remote info

### Command Mode

- /exec



## show otv isis

```
show otv isis [ <otv-isis-tag> ] [ vpn { <vrf-name> | all } ] [ process | protocol ] [ vpn { <vrf-name> | all } ]
[ __readonly__ <tag-out> TABLE_vrf <vrf-name-out> <system-id-out> <is-type-out> <sap-out> <mtu-out>
<qh-out> <gr-t3-timer-out> <gr-status-out> <gr-state-out> <last-gr-status-out> <bfd-state-out>
<metric-send-out> <metric-accept-out> <area-addr-out> <proc-state-out> <vrf-id-out> <te-lvl-out> <te-ted-out>
<mpls-te-out> <intf-name-out> <auth-out> <auth-chk-out> <auth-kchain-out> [ { TABLE_redist <max_redist>
<warning> <threshold> <current_count> } ] TABLE_afi_safi <afi-safi-out> <intf-num-out> <adj-check-out>
<redist-pib-out> <redist-rpm-out> <dist-src-lvl-out> <dist-dest-lvl-out> <dist-leak-all-out> <dist-rpm-out>
<admin-dist-out> ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) Display information for all VRFs
process	(Optional) Display IS-IS process information
protocol	(Optional) Display IS-IS process information
__readonly__	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi_safi	(Optional)
<i>afi-safi-out</i>	(Optional)
<i>system-id-out</i>	(Optional)
<i>is-type-out</i>	(Optional)
<i>sap-out</i>	(Optional)
<i>mtu-out</i>	(Optional)
<i>qh-out</i>	(Optional)
<i>gr-t3-timer-out</i>	(Optional)

---

<i>gr-status-out</i>	(Optional)
<i>gr-state-out</i>	(Optional)
<i>last-gr-status-out</i>	(Optional)
<i>bfd-state-out</i>	(Optional)
<i>metric-send-out</i>	(Optional)
<i>metric-accept-out</i>	(Optional)
<i>area-addr-out</i>	(Optional)
<i>proc-state-out</i>	(Optional)
<i>vrf-id-out</i>	(Optional)
<i>te-lvl-out</i>	(Optional)
<i>te-ted-out</i>	(Optional)
<i>mpls-te-out</i>	(Optional)
<i>intf-name-out</i>	(Optional)
<i>auth-out</i>	(Optional)
<i>auth-chk-out</i>	(Optional)
<i>auth-kchain-out</i>	(Optional)
TABLE_redist	(Optional)
<i>max_redist</i>	(Optional)
<i>warning</i>	(Optional)
<i>threshold</i>	(Optional)
<i>current_count</i>	(Optional)
<i>intf-num-out</i>	(Optional)
<i>adj-check-out</i>	(Optional)
<i>redist-pib-out</i>	(Optional)
<i>redist-rpm-out</i>	(Optional)
<i>dist-src-lvl-out</i>	(Optional)
<i>dist-dest-lvl-out</i>	(Optional)
<i>dist-leak-all-out</i>	(Optional)
<i>dist-rpm-out</i>	(Optional)

---

---

*admin-dist-out* (Optional)

---

**Command Mode**

- /exec

## show otv isis active-source

```
show otv isis [ <otv-isis-tag> ] active-source [ vlan <vlan-id> [ group <gip-addr> [ source <sip-addr> ] ] ] [
summary ] [ vpn { <vrf-name> | all } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
active-source	Display IS-IS Active-source information
vlan	(Optional) Display IS-IS VLAN information
<i>vlan-id</i>	(Optional) Display IS-IS VLAN information
group	(Optional) Display IS-IS Group information
source	(Optional) Display IS-IS Source information
<i>gip-addr</i>	(Optional) Display single IP redistribute route
<i>sip-addr</i>	(Optional) Display single IP redistribute route
summary	(Optional) Display route counts

### Command Mode

- /exec

## show otv isis adjacency

```
show otv isis [ <otv-isis-tag> ] adjacency [ <interface> ] { [ system-id <sid> ] | [ detail ] | [ summary ] } [ vpn
{ <vrf-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out>
<adj-summary-out> <adj-interface-out> [ <adj-interface-name-out> ] [ { TABLE_process_adj
<adj-sys-name-out> <adj-sys-id-out> [ <adj-usage-out> ] [ <adj-level-out> ] <adj-state-out>
<adj-hold-time-out> <adj-intf-name-out> <adj-site-out> <adj-detail-set-out> [ { <adj-transitions-out>
<adj-flap-out> [ <adj-flap-time-out> ] <adj-ckt-type-out> <adj-ipv4-addr-out> <adj-ipv6-addr-out>
<adj-bcast-out> [ { <adj-ckt-id-out> <adj-lan-prio-out> } ] <adj-resurrect-out> [ { <adj-resurrect-count-out>
<adj-resurrect-hwm-out> } ] } ] } ] [ { TABLE_lan_adj_sum <adj-summ-lan-level-out>
<adj-summ-lan-state-out> <adj-summ-lan-count-out> } ] } ] }
```

### Syntax Description

#### Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
adjacency	Display IS-IS adjacency information
<i>interface</i>	(Optional) IS-IS interface
system-id	(Optional) Hostname or System ID
<i>sid</i>	(Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX)
detail	(Optional) Display IS-IS adjacency detail information
summary	(Optional) Display IS-IS adjacency summary information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>adj-summary-out</i>	(Optional)
<i>adj-interface-out</i>	(Optional)

---

<i>adj-interface-name-out</i>	(Optional)
TABLE_process_adj	(Optional)
<i>adj-sys-name-out</i>	(Optional)
<i>adj-sys-id-out</i>	(Optional)
<i>adj-usage-out</i>	(Optional)
<i>adj-level-out</i>	(Optional)
<i>adj-state-out</i>	(Optional)
<i>adj-hold-time-out</i>	(Optional)
<i>adj-intf-name-out</i>	(Optional)
<i>adj-site-out</i>	(Optional)
<i>adj-detail-set-out</i>	(Optional)
<i>adj-transitions-out</i>	(Optional)
<i>adj-flap-out</i>	(Optional)
<i>adj-flap-time-out</i>	(Optional)
<i>adj-ckt-type-out</i>	(Optional)
<i>adj-ipv4-addr-out</i>	(Optional)
<i>adj-ipv6-addr-out</i>	(Optional)
<i>adj-bcast-out</i>	(Optional)
<i>adj-ckt-id-out</i>	(Optional)
<i>adj-lan-prio-out</i>	(Optional)
<i>adj-resurrect-out</i>	(Optional)
<i>adj-resurrect-count-out</i>	(Optional)
<i>adj-resurrect-hwm-out</i>	(Optional)
TABLE_lan_adj_sum	(Optional)
<i>adj-summ-lan-level-out</i>	(Optional)
<i>adj-summ-lan-state-out</i>	(Optional)
<i>adj-summ-lan-count-out</i>	(Optional)

---

### Command Mode

- /exec

# show otv isis aed-svr-req local

```
show otv isis [ <otv-isis-tag> ] aed-svr-req { local | remote }
```

## Syntax Description

Syntax Description		
show	Show	Show running system information
otv	Display	OTV information
isis	Display	IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional)	Routing process tag
aed-svr-req	Display	aed svr req Info
local	local	
remote	remote	

## Command Mode

- /exec

# show otv isis csnp

show otv isis [ <otv-isis-tag> ] csnp [ detail ]

## Syntax Description

Syntax Description	show	Show running system information
	otv	Display OTV information
	isis	Display IS-IS status and configuration
	<i>otv-isis-tag</i>	(Optional) Routing process tag
	csnp	Display IS-IS CSNP cache contents
	detail	(Optional) Display detailed IS-IS information

## Command Mode

- /exec



## show otv isis database

```
show otv isis [ <otv-isis-tag> ] [ site ] database [ mgroup ] [ detail | advertise | summary ] [ <lid> ] { [
zero-sequence ] [ adjacency <adj-id> ] } [ vpn { <vrf-name> | all } ] [ __readonly__ { TABLE_process_tag
<process-tag-out> { TABLE_vrf <vrf-name-out> [ <dbase-hname-absent-out> ] [ { TABLE_process_lvl
<dbase-level-out> [ { TABLE_process_lsp <dbase-lsp-name-out> <dbase-lsp-status-out>
<dbase-lsp-absent-out> [ { <dbase-lsp-seqnum-out> <dbase-lsp-cksum-out> [ <dbase-lsp-lifetime-str-out> ]
[ <dbase-lsp-lifetime-out> ] <dbase-att-out> <dbase-partition-out> <dbase-overload-out> <dbase-istype-out>
} ] [ { <dbase-lsp-instance-out> [ { TABLE_process_tlv <dbase-lsp-tlv-name-out> [ <dbase-lsp-area-addr-out>
] [ <dbase-lsp-is-nbr-name-out> ] [ <dbase-lsp-is-nbr-metric-out> ] [ <dbase-lsp-is-nbr-ext-metric-out> ] [
<dbase-lsp-es-nbr-name-out> ] [ <dbase-lsp-es-nbr-metric-out> ] [ <dbase-lsp-es-nbr-ext-metric-out> ] [
<dbase-lsp-auth-type-out> ] [ <dbase-lsp-auth-len-out> ] [ <dbase-lsp-ext-is-name-out> ] [
<dbase-lsp-ext-is-metric-out> ] [ <dbase-lsp-ip-ri-addr-out> ] [ <dbase-lsp-ip-ri-mask-out> ] [
<dbase-lsp-ip-ri-metric-out> ] [ <dbase-lsp-ip-ri-ext-metric-out> ] [ <dbase-lsp-ip-ri-up-down-out> ] [ {
TABLE_process_nlpid <dbase-lsp-prot-support-out> } ] [ <dbase-lsp-ip-addr-out> ] [ <dbase-lsp-ipv6-addr-out>
] [ { TABLE_process_extip <dbase-lsp-extip-addr-out> <dbase-lsp-extip-prefix-len-out>
<dbase-lsp-extip-metric-out> <dbase-lsp-extip-up-down-out> } ] [ <dbase-lsp-hname-out> ] [
<dbase-lsp-hname-len-out> ] [ { TABLE_process_extipv6 <dbase-lsp-extipv6-addr-out>
<dbase-lsp-extipv6-prefix-len-out> <dbase-lsp-extipv6-metric-out> <dbase-lsp-extipv6-up-down-out>
<dbase-lsp-extipv6-ext-origin-out> } ] [ <dbase-lsp-tlv-len-out> ] [ <dbase-lsp-tlv-unknown-out> ] [ {
TABLE_process_subtlv <dbase-lsp-subtlv-name-out> [ <dbase-lsp-extis-admin-group-out> ] [
<dbase-lsp-subtlv-ip-addr-out> ] [ <dbase-lsp-extis-bw-out> ] [ <dbase-lsp-extis-pri1-out> ] [
<dbase-lsp-extis-pri1-val-out> ] [ <dbase-lsp-extis-pri2-out> ] [ <dbase-lsp-extis-pri2-val-out> ] [
<dbase-lsp-extis-te-metric-out> ] [ <dbase-lsp-subtlv-len-out> ] [ <dbase-lsp-subtlv-unknown-out> } ] } ]
<dbase-lsp-digest-out> } } ] [ { <dbase-lsp-total-out> [ { <dbase-lsp-empty-out> <dbase-lsp-zeroseq-out>
} ] } ] } ] }
```

### Syntax Description

#### Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
site	(Optional) Display IS-IS OTV site information
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
database	Display IS-IS database information
mgroup	(Optional) Display IS-IS GM database information
<i>lid</i>	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
detail	(Optional) Display detailed IS-IS information

advertise	(Optional) Display advertise tlv lsp-memory information
summary	(Optional) Display summary IS-IS information
zero-sequence	(Optional) LSP with zero sequence number
adjacency	(Optional) Adjacency filter
<i>adj-id</i>	(Optional) Single exact match adjacency filter
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>dbase-hname-absent-out</i>	(Optional)
TABLE_process_lvl	(Optional)
<i>dbase-level-out</i>	(Optional)
TABLE_process_lsp	(Optional)
<i>dbase-lsp-name-out</i>	(Optional)
<i>dbase-lsp-status-out</i>	(Optional)
<i>dbase-lsp-absent-out</i>	(Optional)
<i>dbase-lsp-seqnum-out</i>	(Optional)
<i>dbase-lsp-cksum-out</i>	(Optional)
<i>dbase-lsp-lifetime-str-out</i>	(Optional)
<i>dbase-lsp-lifetime-out</i>	(Optional)
<i>dbase-att-out</i>	(Optional)
<i>dbase-partition-out</i>	(Optional)
<i>dbase-overload-out</i>	(Optional)
<i>dbase-istype-out</i>	(Optional)
<i>dbase-lsp-instance-out</i>	(Optional)
TABLE_process_tlv	(Optional)
<i>dbase-lsp-tlv-name-out</i>	(Optional)
<i>dbase-lsp-area-addr-out</i>	(Optional)

<i>dbase-lsp-is-nbr-name-out</i>	(Optional)
<i>dbase-lsp-is-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-is-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-name-out</i>	(Optional)
<i>dbase-lsp-es-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-auth-type-out</i>	(Optional)
<i>dbase-lsp-auth-len-out</i>	(Optional)
<i>dbase-lsp-ext-is-name-out</i>	(Optional)
<i>dbase-lsp-ext-is-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-addr-out</i>	(Optional)
<i>dbase-lsp-ip-ri-mask-out</i>	(Optional)
<i>dbase-lsp-ip-ri-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-ext-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-up-down-out</i>	(Optional)
TABLE_process_nlpid	(Optional)
<i>dbase-lsp-prot-support-out</i>	(Optional)
<i>dbase-lsp-ip-addr-out</i>	(Optional)
<i>dbase-lsp-ipv6-addr-out</i>	(Optional)
TABLE_process_extip	(Optional)
<i>dbase-lsp-extip-addr-out</i>	(Optional)
<i>dbase-lsp-extip-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extip-metric-out</i>	(Optional)
<i>dbase-lsp-extip-up-down-out</i>	(Optional)
<i>dbase-lsp-hname-out</i>	(Optional)
<i>dbase-lsp-hname-len-out</i>	(Optional)
TABLE_process_extipv6	(Optional)
<i>dbase-lsp-extipv6-addr-out</i>	(Optional)
<i>dbase-lsp-extipv6-prefix-len-out</i>	(Optional)

<i>dbase-lsp-extipv6-metric-out</i>	(Optional)
<i>dbase-lsp-extipv6-up-down-out</i>	(Optional)
<i>dbase-lsp-extipv6-ext-origin-out</i>	(Optional)
<i>dbase-lsp-tlv-len-out</i>	(Optional)
<i>dbase-lsp-tlv-unknown-out</i>	(Optional)
TABLE_process_subtlv	(Optional)
<i>dbase-lsp-subtlv-name-out</i>	(Optional)
<i>dbase-lsp-extis-admin-group-out</i>	(Optional)
<i>dbase-lsp-subtlv-ip-addr-out</i>	(Optional)
<i>dbase-lsp-extis-bw-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-val-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-val-out</i>	(Optional)
<i>dbase-lsp-extis-te-metric-out</i>	(Optional)
<i>dbase-lsp-subtlv-len-out</i>	(Optional)
<i>dbase-lsp-subtlv-unknown-out</i>	(Optional)
<i>dbase-lsp-digest-out</i>	(Optional)
<i>dbase-lsp-total-out</i>	(Optional)
<i>dbase-lsp-empty-out</i>	(Optional)
<i>dbase-lsp-zeroseq-out</i>	(Optional)

### Command Mode

- /exec

# show otv isis ed-summary local

show otv isis [ <otv-isis-tag> ] ed-summary local

## Syntax Description

Syntax Description		
show		Show running system information
otv		Display OTV information
isis		Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional)	Routing process tag
ed-summary		Display ED Summary Info
local		local

## Command Mode

- /exec

## show otv isis ed-summary remote

```
show otv isis [ <otv-isis-tag> ] ed-summary remote [ site-identifier { <site-id-mac> | <site-id-hex> } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
ed-summary	Display ED Summary Info	
remote	remote	
site-identifier	(Optional) site-identifier	
<i>site-id-mac</i>	(Optional) Site ID in MAC address format	
<i>site-id-hex</i>	(Optional) Site ID in hex	

### Command Mode

- /exec

## show otv isis event-history

```
show otv isis [ <isis-tag> ] [ internal ] event-history { errors | msgs | <isis-event-hist-buf-name> | statistics }
```

### Syntax Description

Syntax Description		
show		Show running system information
otv		Display OTV information
isis		Display IS-IS status and configuration
<i>isis-tag</i>		(Optional) Routing process tag
internal		(Optional) Commands for internal use
event-history		Display IS-IS event history
errors		Error history
msgs		Message history
<i>isis-event-hist-buf-name</i>		Event history buffer
statistics		Show the state and size of the buffer

### Command Mode

- /exec

# show otv isis fast-flood

```
show otv isis [ <otv-isis-tag> ] fast-flood
```

## Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
fast-flood	Fast flood the LSP's	

## Command Mode

- /exec



# show otv isis gm-spf-adjacency

```
show otv isis [ <otv-isis-tag> ] gm-spf-adjacency [ vpn { <vrf-name> | all } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
otv		Display OTV information
isis		Display IS-IS status and configuration
<i>otv-isis-tag</i>		(Optional) Routing process tag
vpn		(Optional) Display VPN information
<i>vrf-name</i>		(Optional) VPN name
all		(Optional) All configured VPNs
gm-spf-adjacency		Display IS-IS GM-SPF adjacency information

## Command Mode

- /exec

## show otv isis hostname

```
show otv isis [ <otv-isis-tag> ] hostname [ detail ] [ vpn { <vrf-name> | all } ] [ __readonly__ <tag-out>
TABLE_vrf <vrf-name-out> <hname-enabled-out> <hname-detail-out> <hname-level-out> <hname-id-out>
<hname-id-mine-out> <hname-name-out> ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
vpn	(Optional) Display VPN information	
<i>vrf-name</i>	(Optional) VPN name	
all	(Optional) All configured VPNs	
hostname	Display IS-IS hostname table information	
detail	(Optional) Display detailed IS-IS information	
<i>__readonly__</i>	(Optional)	
<i>tag-out</i>	(Optional)	
TABLE_vrf	(Optional)	
<i>vrf-name-out</i>	(Optional)	
<i>hname-enabled-out</i>	(Optional)	
<i>hname-detail-out</i>	(Optional)	
<i>hname-level-out</i>	(Optional)	
<i>hname-id-out</i>	(Optional)	
<i>hname-id-mine-out</i>	(Optional)	
<i>hname-name-out</i>	(Optional)	

### Command Mode

- /exec

## show otv isis interface

```
show otv isis [ <otv-isis-tag> ] interface [ brief | <interface> ] [ vpn { <vrf-name> | all } ] [ __readonly__ {
TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [ { TABLE_interface [ {
<intfb-name-out> <intfb-type-out> <intfb-ix-out> <intfb-state-out> <intfb-ready-state-out> <intfb-cid-out>
<intfb-ckt-type-out> <intfb-mtu-out> [ { <intf-p2p-metric-lvl-1-out> <intf-p2p-prio-lvl-1-out>
<intf-p2p-adj-count-lvl-1-out> <intf-p2p-adj-up-count-lvl-1-out> } ] [ { <intf-loopback-metric-lvl-1-out>
<intf-loopback-prio-lvl-1-out> <intf-loopback-adj-count-lvl-1-out> <intf-loopback-adj-up-count-lvl-1-out>
} ] [ { <intf-bcast-metric-lvl-1-out> <intf-bcast-prio-lvl-1-out> <intf-bcast-adj-count-lvl-1-out>
<intf-bcast-adj-up-count-lvl-1-out> } ] } ] [ { <intf-name-out> <intf-status-out> } ] [ { <intf-state-out>
<intf-internal-state-out> [ <intf-cib-disabled-out> ] [ <intf-cid-invalid-out> } ] [ { <intf-ix-out> <intf-cid-out>
<intf-ckt-type-out> } ] [ <intf-passive-mask-out> ] [ <intf-passive-mask-lvl-out> ] [ <intf-mgrp-set-out> ] [
<intf-mgrp-state-out> ] [ <intf-mgrp-id-out> ] [ { TABLE_auth [ { <intf-auth-info-out> [ <intf-auth-kchain-out>
] <intf-auth-chk-info-out> } ] } ] [ <intf-p2p-type-out> ] [ { <intf-p2p-ext-local-cid-out> <intf-p2p-cid-out>
<intf-retx-intv-out> <intf-retx-throttle-out> } ] [ <intf-loopback-type-out> ] [ { <intf-lsp-intv-out>
<intf-mtu-out> [ <intf-hpad-state-out> } ] } ] [ { <intf-p2p-pad-ts-out> ] <intf-p2p-adj-count-out>
<intf-p2p-adj-up-count-out> <intf-p2p-prio-out> <intf-p2p-hello-intv-out> <intf-p2p-hello-multi-out>
<intf-p2p-hello-next-out> [ { TABLE_p2p <intf-p2p-lvl-out> <intf-p2p-adj-lvl-out> <intf-p2p-adj-up-lvl-out>
<intf-p2p-metric-lvl-out> <intf-p2p-csnp-lvl-out> <intf-p2p-csnp-nxt-lvl-out> <intf-p2p-lspid-last-lvl-out>
} ] } ] [ { <intf-bcast-type-out> [ { TABLE_bcast_pad [ { <intf-bcast-lvl-out> <intf-bcast-pad-ts-out> } ] } ]
} ] [ { TABLE_bcast_dis [ { <intf-bcast-lvl-dis-out> <intf-bcast-dis-ts-out> } ] } ] [ { TABLE_bcast_pkt
<intf-bcast-lvl-info-out> <intf-bcast-lvl-metric-out> <intf-bcast-lvl-csnp-intv-out>
<intf-bcast-lvl-csnp-next-out> <intf-bcast-lvl-iih-intv-out> <intf-bcast-lvl-iih-multi-out>
<intf-bcast-lvl-iih-next-out> } ] [ { TABLE_bcast_adj <intf-bcast-lvl-value-out> <intf-bcast-lvl-adj-out>
<intf-bcast-lvl-adj-up-out> <intf-bcast-lvl-prio-out> <intf-bcast-lvl-ctid-out> <intf-bcast-lvl-ctid-ts-out>
} ] } ] [ { TABLE_loopback <intf-loopback-lvl-out> <intf-loopback-lvl-metric-out> } ] [ <intf-unknown-out>
} ] } ] }
```

### Syntax Description

Syntax Description		
show		Show running system information
otv		Display OTV information
isis		Display IS-IS status and configuration
<i>otv-isis-tag</i>		(Optional) Routing process tag
vpn		(Optional) Display VPN information
<i>vrf-name</i>		(Optional) VPN name
all		(Optional) All configured VPNs
brief		(Optional) Brief display of IS-IS interfaces
interface		Display IS-IS interface information
<i>interface</i>		(Optional) IS-IS interface
<u>__readonly__</u>		(Optional)

TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_interface	(Optional)
<i>intf-status-out</i>	(Optional)
<i>intf-name-out</i>	(Optional)
<i>intf-ix-out</i>	(Optional)
<i>intf-state-out</i>	(Optional)
<i>intf-cid-out</i>	(Optional)
<i>intf-ckt-type-out</i>	(Optional)
<i>intfb-name-out</i>	(Optional)
<i>intfb-type-out</i>	(Optional)
<i>intfb-ix-out</i>	(Optional)
<i>intfb-state-out</i>	(Optional)
<i>intfb-ready-state-out</i>	(Optional)
<i>intfb-cid-out</i>	(Optional)
<i>intfb-ckt-type-out</i>	(Optional)
<i>intf-p2p-metric-lvl-1-out</i>	(Optional)
<i>intf-p2p-prio-lvl-1-out</i>	(Optional)
<i>intf-p2p-adj-count-lvl-1-out</i>	(Optional)
<i>intf-p2p-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-loopback-metric-lvl-1-out</i>	(Optional)
<i>intf-loopback-prio-lvl-1-out</i>	(Optional)
<i>intf-loopback-adj-count-lvl-1-out</i>	(Optional)
<i>intf-loopback-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-bcast-metric-lvl-1-out</i>	(Optional)
<i>intf-bcast-prio-lvl-1-out</i>	(Optional)
<i>intf-bcast-adj-count-lvl-1-out</i>	(Optional)

<i>intf-bcast-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-internal-state-out</i>	(Optional)
<i>intf-cib-disabled-out</i>	(Optional)
<i>intf-cid-invalid-out</i>	(Optional)
<i>intf-passive-mask-out</i>	(Optional)
<i>intf-passive-mask-lvl-out</i>	(Optional)
<i>intf-mgrp-set-out</i>	(Optional)
<i>intf-mgrp-state-out</i>	(Optional)
<i>intf-mgrp-id-out</i>	(Optional)
TABLE_auth	(Optional)
<i>intf-auth-info-out</i>	(Optional)
<i>intf-auth-kchain-out</i>	(Optional)
<i>intf-auth-chk-info-out</i>	(Optional)
<i>intf-p2p-type-out</i>	(Optional)
<i>intf-p2p-ext-local-cid-out</i>	(Optional)
<i>intf-p2p-cid-out</i>	(Optional)
<i>intf-retx-intv-out</i>	(Optional)
<i>intf-retx-throttle-out</i>	(Optional)
<i>intf-loopback-type-out</i>	(Optional)
<i>intf-lsp-intv-out</i>	(Optional)
<i>intf-mtu-out</i>	(Optional)
<i>intfb-mtu-out</i>	(Optional)
<i>intf-hpad-state-out</i>	(Optional)
<i>intf-p2p-pad-ts-out</i>	(Optional)
<i>intf-p2p-adj-count-out</i>	(Optional)
<i>intf-p2p-adj-up-count-out</i>	(Optional)
<i>intf-p2p-prio-out</i>	(Optional)
<i>intf-p2p-hello-intv-out</i>	(Optional)
<i>intf-p2p-hello-multi-out</i>	(Optional)

<i>intf-p2p-hello-next-out</i>	(Optional)
TABLE_p2p	(Optional)
<i>intf-p2p-lvl-out</i>	(Optional)
<i>intf-p2p-adj-lvl-out</i>	(Optional)
<i>intf-p2p-adj-up-lvl-out</i>	(Optional)
<i>intf-p2p-metric-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-nxt-lvl-out</i>	(Optional)
<i>intf-p2p-lspid-last-lvl-out</i>	(Optional)
<i>intf-bcast-type-out</i>	(Optional)
TABLE_bcast_pad	(Optional)
<i>intf-bcast-lvl-out</i>	(Optional)
<i>intf-bcast-pad-ts-out</i>	(Optional)
TABLE_bcast_dis	(Optional)
<i>intf-bcast-lvl-dis-out</i>	(Optional)
<i>intf-bcast-dis-ts-out</i>	(Optional)
TABLE_bcast_pkt	(Optional)
<i>intf-bcast-lvl-info-out</i>	(Optional)
<i>intf-bcast-lvl-metric-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-intv-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-next-out</i>	(Optional)
<i>intf-bcast-lvl-iih-intv-out</i>	(Optional)
<i>intf-bcast-lvl-iih-multi-out</i>	(Optional)
<i>intf-bcast-lvl-iih-next-out</i>	(Optional)
TABLE_bcast_adj	(Optional)
<i>intf-bcast-lvl-value-out</i>	(Optional)
<i>intf-bcast-lvl-adj-out</i>	(Optional)
<i>intf-bcast-lvl-adj-up-out</i>	(Optional)
<i>intf-bcast-lvl-prio-out</i>	(Optional)

<i>intf-bcast-lvl-ctid-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-ts-out</i>	(Optional)
TABLE_loopback	(Optional)
<i>intf-loopback-lvl-out</i>	(Optional)
<i>intf-loopback-lvl-metric-out</i>	(Optional)
<i>intf-unknown-out</i>	(Optional)

**Command Mode**

- /exec

# show otv isis internal library-info

show otv isis [ <otv-isis-tag> ] internal library-info

## Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
internal	Commands for internal use	
library-info	Show various event logs of library	

## Command Mode

- /exec



# show otv isis internal mem-stats

```
show otv isis [ <otv-isis-tag> ] internal mem-stats [ no-libs ] [ detail ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
internal	Commands for internal use	
mem-stats	Show memory allocation statistics	
no-libs	(Optional) Exclude libraries	
detail	(Optional) Display detailed information	

## Command Mode

- /exec

# show otv isis internal otv cache

show otv isis [ <otv-isis-tag> ] internal otv cache

## Syntax Description

Syntax	Description
show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
internal	Commands for internal use
otv	Display OTV information
cache	Display otv lib cache

## Command Mode

- /exec

# show otv isis internal packet queue counters

show otv isis [ <otv-isis-tag> ] internal packet queue counters

## Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
internal	Commands for internal use	
packet	Show packet counters	
queue	Show packet queue counters	
counters	Show packet queue statistics	

## Command Mode

- /exec

# show otv isis internal perf timer

show otv isis [ <otv-isis-tag> ] internal perf timer

## Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
internal	Commands for internal use	
perf	Performance	
timer	Timer performance	

## Command Mode

- /exec

# show otv isis internal pss

show otv isis [ <otv-isis-tag> ] internal pss { vrf | site-group | vlan-info | pib |

## Syntax Description

Syntax	Description
	adjacency
show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
internal	Commands for internal use
pss	Display IS-IS persistent-pool storage data
vrf	VRF information
site-group	Site group data
vlan-info	VLAN Info data
pib	PIB data

## Command Mode

- /exec

# show otv isis internal vlan

show otv isis [ <otv-isis-tag> ] internal vlan

## Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
internal	Commands for internal use	
vlan	Currently active vlans	

## Command Mode

- /exec

# show otv isis internal vpn tx-members

```
show otv isis [ <otv-isis-tag> ] internal vpn { <vrf-name> | all } tx-members
```

## Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
internal	Commands for internal use	
vpn	Display VPN information	
<i>vrf-name</i>	VRF name	
all	Display information for all VRFs	
tx-members	LSP Tx-list members per interface level	

## Command Mode

- /exec

## show otv isis internal vpn txlist nodes

```
show otv isis [ <otv-isis-tag> ] internal vpn { <vrf-name> | all } txlist { nodes | members }
```

### Syntax Description

Syntax Description	show	Show running system information
	otv	Display OTV information
	isis	Display IS-IS status and configuration
	<i>otv-isis-tag</i>	(Optional) Routing process tag
	internal	Commands for internal use
	vpn	Display VPN information
	<i>vrf-name</i>	VRF name
	all	Display information for all VRFs
	txlist	LSP Tx-list linkage per level
	nodes	Node linkage per level
	members	Active member linkage per level

### Command Mode

- /exec



# show otv isis ip mroute

```
show otv isis [ <otv-isis-tag> ] ip mroute [ vlan <vlan-id> [ group <gip-addr> [ source <sip-addr> ] ] ] [
summary ] [ vpn { <vrf-name> | all } ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
ip	Display IS-IS IPv4 information
mroute	Display IS-IS multicast group information
vlan	(Optional) Display IS-IS VLAN information
<i>vlan-id</i>	(Optional) Display IS-IS VLAN information
group	(Optional) Display IS-IS Group information
source	(Optional) Display IS-IS Source information
<i>gip-addr</i>	(Optional) Display single IP redistribute route
<i>sip-addr</i>	(Optional) Display single IP redistribute route
summary	(Optional) Display route counts

## Command Mode

- /exec

## show otv isis ip redistribute mroute

```
show otv isis [ <otv-isis-tag> ] ip redistribute mroute [ vlan <vlan-id> [ group <gip-addr> [ source <sip-addr>
] ] ] [ summary ] [ vpn { <vrf-name> | all } ] [ __readonly__ <tag-out> TABLE_process_tag <process-tag-out>
<redist-ipv4-mrouter-vlanid-out> <redist-ipv4-vlanid-out> <redist-ipv4-source-addr-out>
<redist-ipv4-group-addr-out> ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
ip	Display IS-IS IPv4 information
redistribute	Display IS-IS redistribute information
vlan	(Optional) Display IS-IS VLAN information
<i>vlan-id</i>	(Optional) Display IS-IS VLAN information
group	(Optional) Display IS-IS Group information
source	(Optional) Display IS-IS Source information
<i>gip-addr</i>	(Optional) Display single IP redistribute route
<i>sip-addr</i>	(Optional) Display single IP redistribute route
mroute	Display IS-IS multicast group information
summary	(Optional) Display route counts
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>redist-ipv4-mrouter-vlanid-out</i>	(Optional)
<i>redist-ipv4-vlanid-out</i>	(Optional)

---

*redist-ipv4-source-addr-out* (Optional)

---

*redist-ipv4-group-addr-out* (Optional)

---

**Command Mode**

- /exec

## show otv isis lsp free-list

```
show otv isis [ <otv-isis-tag> ] { non-pseudonode | pseudonode { <interface> | orphan } } lsp free-list [
summary ] [ vpn { <vrf-name> | all } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
vpn	(Optional) Display VPN information	
<i>vrf-name</i>	(Optional) VPN name	
all	(Optional) All configured VPNs	
non-pseudonode	Display IS-IS non-pseudo-node information	
pseudonode	Display IS-IS pseudo-node information	
<i>interface</i>	IS-IS interface	
orphan	Display orphan LSP information	
lsp	Display IS-IS LSP information	
free-list	Display free-list information	
summary	(Optional) Display LSP count per free-list	

### Command Mode

- /exec

## show otv isis non tlv overflow-list

```
show otv isis [ <otv-isis-tag> ] { non-pseudonode | pseudonode <interface> } tlv overflow-list [ vpn {
<vrf-name> | all } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
vpn	(Optional) Display VPN information	
<i>vrf-name</i>	(Optional) VPN name	
all	(Optional) All configured VPNs	
non-pseudonode	Display IS-IS non-pseudo-node information	
pseudonode	Display IS-IS pseudo-node information	
<i>interface</i>	IS-IS interface	
tlv	Display IS-IS TLV information	
overflow-list	Display ISIS TLV overflow-list information	

### Command Mode

- /exec

## show otv isis redistribute route

```
show otv isis [ <otv-isis-tag> ] [ mac ] redistribute route [ summary ] [ direct-mask ] [ vpn { <vrf-name> | all } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
mac	(Optional) Display IS-IS MAC information
summary	(Optional) Display route counts
direct-mask	(Optional) Display routes with direct-mask set

### Command Mode

- /exec

## show otv isis route-map statistics

```
show otv isis [ <otv-isis-tag> ] route-map statistics [ vpn { <vrf-name> | all } ]
```

### Syntax Description

Syntax Description	
show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
route-map	Display IS-IS route-map information
statistics	Display IS-IS route-map statistics

### Command Mode

- /exec

## show otv isis route show otv isis route is

```
show otv isis [ <otv-isis-tag> ] route [ summary | detail ] [ vpn { <vrf-name> | all } ] | show otv isis [
<otv-isis-tag> ] route is [ vpn { <vrf-name> | all } ] [ __readonly__ <tag-out> TABLE_vrf <vrf-name-out>
<afi-safi-out> <route-absent-out> <route-lvl-absent-out> <route-prefix-out> <route-mask-len-out>
<route-level-out> <route-summ-discard-addr-out> <route-summ-discard-mask-len-out>
<route-discard-addr-out> <route-discard-mask-len-out> <route-addr-print-out> <route-mask-len-print-out>
<route-direct-print-out> <route-direct-out> <route-direct-via-out> <route-direct-if-name-out>
<route-direct-metric-out> <route-direct-level-out> <route-direct-instance-out> <route-marker-out>
<route-addr-valid-out> <route-iframe-out> <route-metric-out> <route-pref-out> <route-no-def-prefix-out>
<route-instance-out> <route-discard-mask-out> <route-sum-prefix-out> <route-sum-prefix-len-out>
<route-total-out> <route-paths-total-out> <route-paths-best-out> <route-paths-backup-out> <route-sum-lvl-out>
<route-sum-total-out> <route-sum-direct-out> <route-sum-normal-out> <route-sum-missing-out>
<route-best-pend-num-out> <route-bestpaths-out> <route-backuppaths-out> <route-path-sum-lvl-out>
<route-path-sum-total-out> <route-path-sum-direct-out> <route-path-sum-normal-out>
<route-bestroutes-per-mask-out> <route-best-mask-val-out> <route-best-mask-count-out>
<route-pend-q-count-out> ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
is	Display IS route
route	Display IS-IS route information
summary	(Optional) Display route counts
detail	(Optional) Display detail route information
<i>otv-isis-tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)



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

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

**Command Mode**

- /exec

## show otv isis rrm

```
show otv isis [ <otv-isis-tag> ] rrm [ mgroup ] <interface> [ vpn { <vrf-name> | all } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
vpn	(Optional) Display VPN information	
<i>vrf-name</i>	(Optional) VPN name	
all	(Optional) All configured VPNs	
rrm	Display IS-IS Retransmit-Routing-Message information	
mgroup	(Optional) Display IS-IS GM Retransmit-Routing-Message information	
<i>interface</i>	IS-IS interface	

### Command Mode

- /exec

# show otv isis site-index

```
show otv isis [ <otv-isis-tag> ] site-index
```

## Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
site-index	Display site index table	

## Command Mode

- /exec

# show otv isis site

```
show otv isis [ <otv-isis-tag> ] site [ statistics ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
site	Display IS-IS OTV site information	
statistics	(Optional) Display IS-IS protocol statistics	

## Command Mode

- /exec

# show otv isis spf-adjacency

```
show otv isis [ <otv-isis-tag> ] spf-adjacency [ vpn { <vrf-name> | all } ]
```

## Syntax Description

Syntax Description	show	Show running system information
	otv	Display OTV information
	isis	Display IS-IS status and configuration
	<i>otv-isis-tag</i>	(Optional) Routing process tag
	vpn	(Optional) Display VPN information
	<i>vrf-name</i>	(Optional) VPN name
	all	(Optional) All configured VPNs
	spf-adjacency	Display IS-IS SPF adjacency information

## Command Mode

- /exec

## show otv isis spf-log

```
show otv isis [ <otv-isis-tag> ] spf-log [ detail ] [ vpn { <vrf-name> | all } ] [ __readonly__ <tag-out>
TABLE_vrf <vrf-name-out> <spflog-calc-out> <spflog-size-out> <spflog-maxsize-out> <spflog-ago-time-out>
<spflog-lvl-out> <spflog-reason-out> <spflog-count-out> <spflog-elapsed-ts-out> <spflog-log-num-out>
<spflog-ts-detail-out> <spflog-date-detail-out> <spflog-lvl-detail-out> <spflog-instance-detail-out>
<spflog-init-ts-detail-out> <spflog-spf-ts-detail-out> <spflog-detail-ts-is-out> <spflog-detail-ts-urib-out>
<spflog-detail-ts-elapsed-out> <spflog-detail-lvl-out> <spflog-detail-spf-cnt-out> <spflog-detail-sync-cnt-out>
<spflog-detail-spf-reason-out> ]
```

### Syntax Description

Syntax Description		
show		Show running system information
otv		Display OTV information
isis		Display IS-IS status and configuration
<i>otv-isis-tag</i>		(Optional) Routing process tag
vpn		(Optional) Display VPN information
<i>vrf-name</i>		(Optional) VPN name
all		(Optional) All configured VPNs
spf-log		Display IS-IS SPF information
detail		(Optional) Display detail ISIS SPF information
__readonly__		(Optional)
<i>tag-out</i>		(Optional)
TABLE_vrf		(Optional)
<i>vrf-name-out</i>		(Optional)
<i>spflog-calc-out</i>		(Optional)
<i>spflog-size-out</i>		(Optional)
<i>spflog-maxsize-out</i>		(Optional)
<i>spflog-ago-time-out</i>		(Optional)
<i>spflog-lvl-out</i>		(Optional)
<i>spflog-reason-out</i>		(Optional)
<i>spflog-count-out</i>		(Optional)
<i>spflog-elapsed-ts-out</i>		(Optional)

---

*spflog-log-num-out* (Optional)

---

*spflog-ts-detail-out* (Optional)

---

*spflog-date-detail-out* (Optional)

---

*spflog-lvl-detail-out* (Optional)

---

*spflog-instance-detail-out* (Optional)

---

*spflog-init-ts-detail-out* (Optional)

---

*spflog-spf-ts-detail-out* (Optional)

---

*spflog-detail-ts-is-out* (Optional)

---

*spflog-detail-ts-urib-out* (Optional)

---

*spflog-detail-ts-elapsed-out* (Optional)

---

*spflog-detail-lvl-out* (Optional)

---

*spflog-detail-spf-cnt-out* (Optional)

---

*spflog-detail-sync-cnt-out* (Optional)

---

*spflog-detail-spf-reason-out* (Optional)

---

#### Command Mode

- /exec



## show otv isis srm

```
show otv isis [ <otv-isis-tag> ] srm [ mgroup ] <interface> [ vpn { <vrf-name> | all } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
otv	Display OTV information	
isis	Display IS-IS status and configuration	
<i>otv-isis-tag</i>	(Optional) Routing process tag	
vpn	(Optional) Display VPN information	
<i>vrf-name</i>	(Optional) VPN name	
all	(Optional) All configured VPNs	
srm	Display IS-IS Send-Routing-Message information	
mgroup	(Optional) Display IS-IS GM-Send-Routing-Message information	
<i>interface</i>	IS-IS interface	

### Command Mode

- /exec

# show otv isis ssn

```
show otv isis [ <otv-isis-tag> ] ssn [ mgroup ] <interface> [ vpn { <vrf-name> | all } ]
```

## Syntax Description

### Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
ssn	Display IS-IS Send-Sequence-Number information
mgroup	(Optional) Display IS-IS GM-Send-Sequence-Number information
<i>interface</i>	IS-IS interface

## Command Mode

- /exec

## show otv isis statistics

```
show otv isis [ <otv-isis-tag> ] statistics [ <interface> ] [ vpn { <vrf-name> | all } ] [ __readonly__ <tag-out>
TABLE_vrf <vrf-name-out> <stat-if-out> <stat-if-name-out> <stat-spf-calc-out> <stat-lsp-sourced-out>
<stat-lsp-refresh-out> <stat-lsp-purge-out> <stat-dis-elections-out> ]
```

### Syntax Description

Syntax Description		
show		Show running system information
otv		Display OTV information
isis		Display IS-IS status and configuration
<i>otv-isis-tag</i>		(Optional) Routing process tag
vpn		(Optional) Display VPN information
<i>vrf-name</i>		(Optional) VPN name
all		(Optional) All configured VPNs
statistics		Display IS-IS protocol statistics
<i>interface</i>		(Optional) IS-IS interface
<i>__readonly__</i>		(Optional)
<i>tag-out</i>		(Optional)
TABLE_vrf		(Optional)
<i>vrf-name-out</i>		(Optional)
<i>stat-if-out</i>		(Optional)
<i>stat-if-name-out</i>		(Optional)
<i>stat-spf-calc-out</i>		(Optional)
<i>stat-lsp-sourced-out</i>		(Optional)
<i>stat-lsp-refresh-out</i>		(Optional)
<i>stat-lsp-purge-out</i>		(Optional)
<i>stat-dis-elections-out</i>		(Optional)

### Command Mode

- /exec

# show otv isis track-adjacency-nexthop

```
show otv isis [ <otv-isis-tag> ] track-adjacency-nexthop
```

## Syntax Description

Syntax Description		
	show	Show running system information
	otv	Display OTV information
	isis	Display IS-IS status and configuration
	<i>otv-isis-tag</i>	(Optional) Routing process tag
	track-adjacency-nexthop	Display IS-IS OTV adjacency nexthop tracking information

## Command Mode

- /exec

## show otv isis traffic

```
show otv isis [ <otv-isis-tag> ] traffic [ <interface> ] [ mbuf-priority ] [ vpn { <vrf-name> | all } ] [ __readonly__
{ TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <traffic-if-out> [ <traffic-if-name-out>
] <traffic-lan-iih-out> <traffic-lan-iih-rcv-out> <traffic-lan-iih-xmit-out> <traffic-lan-iih-rcv-auth-err-out>
<traffic-lan-iih-rcv-err-out> <traffic-csnp-out> <traffic-csnp-rcv-out> <traffic-csnp-xmit-out>
<traffic-csnp-rcv-auth-err-out> <traffic-csnp-rcv-err-out> <traffic-psnp-out> <traffic-psnp-rcv-out>
<traffic-psnp-xmit-out> <traffic-psnp-rcv-auth-err-out> <traffic-psnp-rcv-err-out> <traffic-lsp-out>
<traffic-lsp-rcv-out> <traffic-lsp-flood-out> <traffic-lsp-rcv-auth-err-out> <traffic-lsp-rcv-err-out>
<traffic-lsp-rexmit-out> <traffic-gmlsp-out> <traffic-gmlsp-rcv-out> <traffic-gmlsp-flood-out>
<traffic-gmlsp-rcv-auth-err-out> <traffic-gmlsp-rcv-err-out> <traffic-gmlsp-rexmit-out> [ <traffic-xmit-err-out>
] [ <traffic-unknown-pdu-rcv-out> ] } } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
traffic	Display IS-IS traffic information
<i>interface</i>	(Optional) IS-IS interface
mbuf-priority	(Optional) Display mbuf priorities for received PDUs
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>traffic-if-out</i>	(Optional)
<i>traffic-if-name-out</i>	(Optional)
<i>traffic-lan-iih-out</i>	(Optional)
<i>traffic-lan-iih-rcv-out</i>	(Optional)
<i>traffic-lan-iih-xmit-out</i>	(Optional)

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

**Command Mode**

- /exec

# show otv isis vlan-status local

```
show otv isis [ <otv-isis-tag> ] vlan-status { local | remote }
```

## Syntax Description

Syntax Description		
show	Show	running system information
otv	Display	OTV information
isis	Display	IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional)	Routing process tag
vlan-status	Display	vlan status Info
local	local	
remote	remote	

## Command Mode

- /exec

# show otv site

```
show otv site [ detail | <overlay-if> | vpn <vpn-name> ]
```

## Syntax Description

Syntax Description	
show	Display OTV information
otv	Configure OTV information
site	Show site-local adjacencies with other edge devices in this site
detail	(Optional) Show all site-local adjacencies incl. overlays not configured on this system
<i>overlay-if</i>	(Optional) Overlay interface
vpn	(Optional) Overlay VPN name
<i>vpn-name</i>	(Optional) OTV VPN Name

## Command Mode

- /exec



# show otv statistics multicast

```
show otv statistics multicast <vlan-id>
```

## Syntax Description

Syntax	Description
show	Show running system information
otv	Display OTV information
statistics	Display OTV Traffic Stats
multicast	Display Multicast Stats
<i>vlan-id</i>	Vlan ID

## Command Mode

- /exec

# show otv vlan-mapping

show otv vlan-mapping [ <overlay-if> ]

## Syntax Description

Syntax Description		
show		Display OTV information
otv		Configure OTV information
vlan-mapping		VLAN mapping information
<i>overlay-if</i>	(Optional)	Overlay interface

## Command Mode

- /exec

# show otv vlan

```
show otv vlan [ { <vlan-range> } ] [ authoritative ] [ detail ] [ <overlay-if> | vpn <vpn-name> ]
```

## Syntax Description

Syntax Description	show	Description
	show	Display OTV information
	otv	Configure OTV information
	<i>overlay-if</i>	(Optional) Overlay interface
	vpn	(Optional) Overlay VPN name
	<i>vpn-name</i>	(Optional) OTV VPN Name
	vlan	Show extended VLANs including edge device AED status
	<i>vlan-range</i>	(Optional) VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19
	detail	(Optional) Display each interface in VLAN
	authoritative	(Optional) Display each interface in VLAN

## Command Mode

- /exec





## P Show Commands

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# show param-list

```
show param-list [ param-list-name <plistname> ] [ show-instance ] [ __readonly__ <param_list_header_flag>
<param_list_name> <param_list_var> <param_list_type> <param_instance_header_flag>
<param_instance_name> <param_instance_var> <param_instance_val> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
param-list	Show param-list
param-list-name	(Optional) param list name
<i>plistname</i>	(Optional) Enter the name of the param-list
show-instance	(Optional) show instances for the param list
<i>__readonly__</i>	(Optional)
<i>param_list_header_flag</i>	(Optional)
<i>param_list_name</i>	(Optional)
<i>param_list_var</i>	(Optional)
<i>param_list_type</i>	(Optional)
<i>param_instance_header_flag</i>	(Optional)
<i>param_instance_name</i>	(Optional)
<i>param_instance_var</i>	(Optional)
<i>param_instance_val</i>	(Optional)

## Command Mode

- /exec

# show password secure-mode

show password secure-mode [ *\_\_readonly\_\_* { *secure\_mode* <*secure\_mode\_status*> } ]

## Syntax Description

Syntax Description		
show		Show running system information
password		Password for the user
secure-mode		secure mode for changing passwords
<i>__readonly__</i>		(Optional)
<i>secure_mode</i>		(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

Syntax Description		
show		Show running system information
password		Password for the user
strength-check		Strength check of password
__readonly__		(Optional)
operation_status		(Optional) run-time information about password strength-check
<i>o_status</i>		(Optional) operational status of password strength check

## Command Mode

- /exec

## show pmap-int-br interface br

```
show pmap-int-br interface br [ __readonly__ { [ TABLE_ifvlanstr <if-vlan-str> <if-status> [ <in-pmap-qos>
] [ <out-pmap-qos> ] [ <in-pmap-que> ] [ <out-pmap-que> ] ] } ]
```

### Syntax Description

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	
if-vlan-str	(Optional) ifindex or vlan id: xml key	
__readonly__	(Optional)	
if-status	(Optional) Interface/vlan status [active/inactive]: xml key	
in-pmap-qos	(Optional) Input QoS Policy-map name: xml key	
out-pmap-qos	(Optional) output QoS Policy-map name: xml key	
in-pmap-que	(Optional) Input Que Policy-map name: xml key	
out-pmap-que	(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> ] |
```

## Syntax Description

Syntax Description	
show	Show running system information
pmap-int	Show policy maps
interface	Show service policy on interface
<i>iface-list</i>	(Optional) List of Interface
input	(Optional) Input Service policy
output	(Optional) Output Service policy
type	(Optional) Type of policy
<i>qos-or-q</i>	(Optional)

## Command Mode

- /exec

# show poap internal errors

show poap internal [ event-history ] errors

## Syntax Description

Syntax Description		
show		Show running system information
poap		Show information about poap
internal		Show internal poap information
event-history	(Optional)	Show various event logs of Poaps
errors		Show error logs of POAP

## Command Mode

- /exec

# show poap internal info

```
show poap internal info [ { global | vsan <i0> } ]
```

## Syntax Description

Syntax Description	
show	Show running system information
poap	Show information about poap
internal	Show internal poap information
info	Show internal data structure information
global	(Optional) Display poap global info
vsan	(Optional) Enter the vsan id
<i>i0</i>	(Optional)

## Command Mode

- /exec

# show poap internal mem-stats

show poap internal mem-stats [ detail ]

## Syntax Description

---

### Syntax Description

---

show	Show running system information
poap	Show information about poap
internal	Show internal poap information
mem-stats	Show memory allocation statistics of POAP
detail	(Optional) Show detail memstats for F_Port Server

---

## Command Mode

- /exec

# show poap internal msgs

show poap internal [ event-history ] msgs

## Syntax Description

Syntax Description		
show		Show running system information
poap		Show information about poap
internal		Show internal poap information
event-history	(Optional)	Show various event logs of Poaps
msgs		Show various message logs of POAP

## Command Mode

- /exec

# show poap internal vsan

```
show poap internal [ event-history ] vsan <i0>
```

## Syntax Description

Syntax Description		
show	Show running system information	
poap	Show information about poap	
internal	Show internal poap information	
event-history	(Optional) Show various event logs of Poaps	
vsan	vsan id:Enter the vsan number.	
<i>i0</i>	Enter vsan id	

## 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> [ <desc> ] [ TABLE_cmap <cmap-key> [ <type-cmap-spec> ] [ <xqos-or-q> ] [
<cmap-name> ] [ TABLE_action <action-key> [ <serv-pol-type> ] [ <serv-pol-name> ] [ <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> ] [ 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> ] [ <rdet-burst-opt> ] [ <rdet-mesh-opt> ] ] [ <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> ] ] ] ] ] ] }
```

## Syntax Description

### 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_afd	(Optional) all AFD sessions
TABLE_police	(Optional) all police actions
<i>police-key</i>	(Optional) police actions count: xml key

<i>TABLE_cmap</i>	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
<i>TABLE_action</i>	(Optional) all actions
<i>action-key</i>	(Optional) Actions count: xml key
<i>yqos-or-q</i>	(Optional)
<i>options</i>	(Optional) match-first option
<i>pmap-name-out</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>cmap-name</i>	(Optional) Class-map name
<i>xqos-or-q</i>	(Optional)
<i>serv-pol-type</i>	(Optional) Type of service policy referred to
<i>serv-pol-name</i>	(Optional) Name of policy-map referred to within this policy-map
<i>type-spec</i>	(Optional) Type of policy-map specified or not
<i>type-cmap-spec</i>	(Optional) Type of class-map specified or not
<i>inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>dlb-disable</i>	(Optional) Disable Dynamic Load Balancing
<i>cos</i>	(Optional) IEEE 802.1Q Class of Service value
<i>exp-val-imposition</i>	(Optional) MPLS EXP value of type imposition
<i>exp-val-topmost</i>	(Optional) MPLS EXP value of type topmost
<i>dscp</i>	(Optional) DSCP in IP(v4) and IPv6 packets
<i>dscp-enum</i>	(Optional)
<i>prec</i>	(Optional) Precedence in IP(v4) and IPv6 packets
<i>prec-enum</i>	(Optional)
<i>disc-class</i>	(Optional) Discard class
<i>qos-group</i>	(Optional) Qos-group
<i>tmap-from</i>	(Optional)
<i>tmap-to</i>	(Optional)
<i>tmap-name</i>	(Optional) Table map name
<i>ptmap-from</i>	(Optional)

<i>ptmap-to</i>	(Optional)
<i>ptmap-name</i>	(Optional) Table map name
<i>avg-rate-type</i>	(Optional) Specifies if average shape rate is specified
<i>rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>min-rate-type</i>	(Optional) Specifies if minimum shape rate is specified
<i>min-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>max-rate-type</i>	(Optional) Specifies if maximum shape rate is specified
<i>max-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>cir-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps
<i>pir-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps
<i>prio-level</i>	(Optional) Priority if specified
<i>qlim-param-type</i>	(Optional) Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
<i>qlim-param-val</i>	(Optional) Parameter value for qlimit
<i>qlim-size</i>	(Optional) Queue size for qlimit
<i>size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>rdet-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>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) Weather qlimit parameter is specified in enum or not
<i>rdet-mode</i>	(Optional) Random-detect 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>afd-mode</i>	(Optional) AFD mode
<i>afd-values</i>	(Optional) List of class-of-service values for AFD
<i>afd-ecn</i>	(Optional) AFD ECN
<i>pause</i>	(Optional) Pause value
<i>priority-group-number</i>	(Optional) Priority group value
<i>bw-units</i>	(Optional) Bandwidth units
<i>rem-bw-units</i>	(Optional) Remaining bandwidth units
<i>agg-policer-name</i>	(Optional) Aggregate policer name
<i>cir-spec</i>	(Optional) Is CIR keyword specified
<i>bc-spec</i>	(Optional) Is Committed Burst keyword specified
<i>be-spec</i>	(Optional) Is Extended Burst keyword specified
<i>cnf-col-cmap</i>	(Optional) Conforming color class-map name
<i>exc-col-cmap</i>	(Optional) Exceeding color class-map name
<i>enum-spec</i>	(Optional) Is DSCP or PREC enum value specified
<i>cnf-act</i>	(Optional) Conform action (Police)
<i>exc-act</i>	(Optional) Exceed action (Police)
<i>vio-act</i>	(Optional) Violate action (Police)
<i>set-type</i>	(Optional) Type of set in police action
<i>set-val</i>	(Optional) Value of set type in police action
<i>ooo</i>	(Optional) Out-of-Order

### Command Mode

- /exec

## show policy-map interface control-plane

```

show policy-map interface control-plane { [ module <slot-no-in> [ class <imap-name> ] ] | [ class <imap-name>
[ module <slot-no-in> ] ] } [ __readonly__ [ <scale-factor-cmd> ] <pmmap-name> [ TABLE_cmap <imap-key>
<imap-name-out> <opt_any_or_all> [ TABLE_match <match-key> { [ access_grp <acc_grp_name> ] [
redirect <opt_match_redirect> ] [ exception <opt_match_except> ] [ protocol <opt_match_protocol> ] } + ] [
<class-off-rate> <class-drop-rate> <class-pkts> <class-bytes> ] [ [ <set_vld_flg> ] { { cos [ inner ] <cos-val>
} | { dscp [ tunnel ] <dscp-val> } | { precedence [ tunnel1 ] <prec-val> } } ] [ <threshold> <level> ] [ [
<policer_show_flags> ] [ <cir> <opt_kbps_mbps_gbps_pps_cir> ] [ { percent <cir-perc> } ] [ <bc>
<opt_kbytes_mbytes_gbytes_bc> ] [ <pir> <opt_kbps_mbps_gbps_pps_pir> ] [ { percent1 <pir-perc> } ] [
<be> <opt_kbytes_mbytes_gbytes_be> ] ] [ TABLE_slot { <slot-no-out> { [ [ <conform-pkts> ]
<conform-bytes> ] [ { <opt_drop_transmit_conform> } | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit
<set-dscp-val> } | { set-prec-transmit <set-prec-val> } ] [ [ [ <exceed-pkts> ] <exceed-bytes> ] { {
<opt_drop_transmit_exceed> } | { set dscp1 dscp2 table cir-markdown-map } } } ] [ [ [ <violate-pkts> ]
<violate-bytes> ] { { <opt_drop_transmit_violate> } | { set1 dscp3 dscp4 table1 pir-markdown-map } } } }
} ] ] ]

```

### Syntax Description

#### 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>imap-name</i>	(Optional) Name of the class-map
<i>pmmap-name</i>	(Optional) Name of the Policy-map
<i>__readonly__</i>	(Optional)
<i>scale-factor-cmd</i>	(Optional) Scale factor command
TABLE_cmap	(Optional) all cmap xml sessions
<i>imap-key</i>	(Optional) Class-map key : XML output
<i>imap-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_excpt</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)
tunnell	(Optional)
<i>prec-val</i>	(Optional) Set prec val
<i>policer_show_flags</i>	(Optional) Policer show flags
<i>level</i>	(Optional) syslog severity level
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional)
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional)
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
TABLE_slot	(Optional) all slot-num : XML output
<i>slot-no-in</i>	(Optional) input slot no
<i>slot-no-out</i>	(Optional) output slot no
<i>opt_drop_transmit_conform</i>	(Optional) Set the action

set-cos-transmit	(Optional)
<i>set-cos-val</i>	(Optional) Conform action cos val
set-dscp-transmit	(Optional)
<i>set-dscp-val</i>	(Optional) Conform action dscp val
set-prec-transmit	(Optional)
<i>set-prec-val</i>	(Optional) Conform action prec val
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional)
dscp1	(Optional)
dscp2	(Optional)
table	(Optional)
cir-markdown-map	(Optional)
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional)
dscp3	(Optional)
dscp4	(Optional)
table1	(Optional)
pir-markdown-map	(Optional)

### Command Mode

- /exec

## show policy-map interface type psp

```
show policy-map interface { [ <ifnum> ] } type psp { [ <pmap-name> [ client <clienttype> <clientID> ] ] [ [
handle <ppf_id> ] ] { [ class-map-list { [ <cmap-name-plc> + ] [ class-map-handle <ppf_id1> + ] } ] } [
__readonly__ { [ <number-of-classes> ] [ <display-all> ] [ TABLE_pmap <pmap-key> <id> <pmap-name-out>
[ <desc> ] [ TABLE_cmap <cmap-key> [ <cmap-name-out> ] [ TABLE_interface <interface> <byte-count>
] ] ] ] }
```

### Syntax Description

#### Syntax Description

show	Show running system information
policy-map	Show policy maps
interface	Show stats for interface
<i>ifnum</i>	(Optional) Interface type and number
type	Type of the policy-map
psp	type psp
<i>pmap-name</i>	(Optional) Policy-map name
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID
handle	(Optional) Handle
<i>ppf_id</i>	(Optional) PPF ID
class-map-list	(Optional) Class-map list
<i>cmap-name-plc</i>	(Optional) Class-map name
class-map-handle	(Optional) Class-map Handle/s
<i>ppf_id1</i>	(Optional) PPF ID
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all kinds of policymaps
<i>number-of-classes</i>	(Optional) Total number of classes for which stats are returned
TABLE_pmap	(Optional) all pmap xml sessions
<i>id</i>	(Optional) Policy-map ID
<i>pmap-key</i>	(Optional) Policy-map name: xml key



<i>pmap-name-out</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>TABLE_cmap</i>	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
<i>cmap-name-out</i>	(Optional) Class-map name
<i>TABLE_interface</i>	(Optional) all interface xml sessions
<i>interface</i>	(Optional) Interface type and number
<i>byte-count</i>	(Optional) Byte Count Statistic

**Command Mode**

- /exec

## show policy-map system

```
show policy-map system [ type { network-qos | qos [ input2 ] | queuing [ input | output ] } ] [ __readonly__
{ [ <display-all> ] [ <desc> ] [ <xpmap-name> ] [ <xcmap-name> ] [ <cos-list> ] [ <qos-group-list> ] [
<protocol> ] [ <timeout> ] [ <pause> <size-in-bytes> <xoff-bytes> <xon-bytes> ] [ <pfc-cos-list> ] [ <cc> ]
[ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp>
] [ <stat-en-dis-enum> ] [ TABLE_pmap <pmap-key> <pmap-inner-outer> <in-or-out> <yqos-or-q> [ <options>
] <pmap-name> [ <stat-status-enum> ] [ TABLE_cmap <cmap-key> [ <xqos-or-q> ] <match-opts>
<cmap-name> [ TABLE_match <match-key> [ <not> ] [ <inner> ] [ <cos-list> ] [ <match-cmap-xqos-or-q>
] [ <match-cmap-opts> ] [ <match-cmap-name> ] ] [ TABLE_action <action-key> [ <set-inner> ] [ <cos> ]
[ <serv-pol-type> ] [ <serv-pol-name> ] [ <serv-pol-return-inout> ] [ <rate-units> ] [ <shape-rate> ] [
<min-rate-type> ] [ <min-rate-units> ] [ <shape-min-rate> ] [ <max-rate-type> ] [ <max-rate-units> ] [
<shape-max-rate> ] [ <prio-level> ] [ <qlim-param-type> ] [ <qlim-param-val> ] [ <size-units> ] [ <qlim-size>
] [ <qlim-enum-spec> ] [ <bw-units> ] [ <bw-rate> ] [ <rem-bw-units> ] [ <rem-bw-rate> ] [
<rise-threshold-units> ] [ <fall-threshold-units> ] [ TABLE_rdet <rdet-key> [ <rdet-values> ] [
<rdet-min-thresh> ] [ <rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob> ] [ <rdet-weight> ] [
<rdet-ecn> ] [ <rdet-cap-average> ] [ <rdet-burst-opt> ] [ <rdet-mesh-opt> ] ] [ TABLE_afd <afd-key> [
<afd-values> ] [ <afd-queue-desired> ] [ <afd-size-units> ] [ <afd-ecn> ] ] [ <pause> <size-in-bytes>
<xoff-bytes> <xon-bytes> ] ] ] ] }
```

### Syntax Description

#### Syntax Description

show	Show running system information
policy-map	Show policy maps
type	(Optional) Type of the policy-map
system	Active policy in the system
network-qos	(Optional) type network-qos
qos	(Optional) type qos
input2	(Optional) input policy
queuing	(Optional) type queuing
input	(Optional) input policy
output	(Optional) output policy
__readonly__	(Optional)
<i>display-all</i>	(Optional) Display all network-qos policy-maps
<i>xpmap-name</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>xcmap-name</i>	(Optional) Class-map name
<i>thresh-units</i>	(Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc

<i>drop-prob</i>	(Optional) Drop Probability at Maximum Threshold value
<i>pause</i>	(Optional) Pause value
<i>pfc-cos-list</i>	(Optional) List of class-of-service values
<i>timeout</i>	(Optional) timeout value
<i>cc</i>	(Optional) congestion control protocol
<i>iod</i>	(Optional) IOD value
<i>mtu</i>	(Optional) MTU value
<i>set-cos</i>	(Optional) Set CoS value
<i>dpp</i>	(Optional) Dynamic Packet Prioritization Class
<i>protocol</i>	(Optional) protocol
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
TABLE_pmap	(Optional) all pmap xml sessions
<i>pmap-key</i>	(Optional) Policy-map name: xml key
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
TABLE_action	(Optional) all actions
<i>action-key</i>	(Optional) Actions count: xml key
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
TABLE_rdet	(Optional) all WRED sessions
TABLE_afd	(Optional) all AFD sessions
<i>stat-en-dis-enum</i>	(Optional)
<i>in-or-out</i>	(Optional)
<i>yqos-or-q</i>	(Optional)
<i>stat-status-enum</i>	(Optional)
<i>options</i>	(Optional) match-first option
<i>pmap-name</i>	(Optional) Policy-map name
<i>pmap-inner-outer</i>	(Optional) Inner or Outer policy-map

<i>serv-pol-return-inout</i>	(Optional) Inner or Outer policy-map
<i>cmap-name</i>	(Optional) Class-map name
<i>xqos-or-q</i>	(Optional)
<i>match-opts</i>	(Optional) Type of match in class-map
<i>match-cmap-xqos-or-q</i>	(Optional)
<i>match-cmap-opts</i>	(Optional) Type of match in class-map
<i>not</i>	(Optional) Negate this match result
<i>inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>cos-list</i>	(Optional) List of class-of-service values
<i>match-cmap-name</i>	(Optional) class-map name
<i>serv-pol-type</i>	(Optional) Type of service policy referred to
<i>serv-pol-name</i>	(Optional) Name of policy-map referred to within this policy-map
<i>set-inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>cos</i>	(Optional) IEEE 802.1Q Class of Service value
<i>rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>min-rate-type</i>	(Optional) Specifies if minimum shape rate is specified
<i>min-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>max-rate-type</i>	(Optional) Specifies if maximum shape rate is specified
<i>max-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>prio-level</i>	(Optional) Priority if specified
<i>qlim-param-type</i>	(Optional) Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
<i>qlim-param-val</i>	(Optional) Parameter value for qlimit
<i>qlim-size</i>	(Optional) Queue size for qlimit
<i>size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>qlim-enum-spec</i>	(Optional) Weather qlimit parameter is specified in enum or not
<i>rdet-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>afd-size-units</i>	(Optional) Units of queue size - bytes/kbytes/mbytes
<i>bw-units</i>	(Optional) Bandwidth units
<i>rem-bw-units</i>	(Optional) Remaining bandwidth units

<i>rem-bw-rate</i>	(Optional) Remaining bandwidth rate
<i>rdet-values</i>	(Optional) List of class-of-service values for random-detect
<i>rdet-drop-prob</i>	(Optional) Random-detect drop probability
<i>rdet-weight</i>	(Optional) Random-detect queue length weight
<i>rdet-cap-average</i>	(Optional) Random-detect cap-average
<i>rdet-ecn</i>	(Optional) Random-detect ECN
<i>rdet-burst-opt</i>	(Optional) Random-detect burst optimized
<i>rdet-mesh-opt</i>	(Optional) Random-detect mesh optimized
<i>afd-values</i>	(Optional) List of class-of-service values for afd
<i>afd-ecn</i>	(Optional) AFD ECN
<i>pause</i>	(Optional) Pause value

**Command Mode**

- /exec



<i>exception</i>	(Optional)
<i>opt_match_except</i>	(Optional) Match criteria for exception packets
<i>protocol</i>	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets
<i>TABLE_set_action</i>	(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
<i>percent</i>	(Optional)
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
<i>percent1</i>	(Optional)
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
<i>set-cos-transmit</i>	(Optional)
<i>set-cos-val</i>	(Optional) Conform action cos val
<i>set-dscp-transmit</i>	(Optional)
<i>set-dscp-val</i>	(Optional) Conform action dscp val
<i>set-prec-transmit</i>	(Optional)
<i>set-prec-val</i>	(Optional) Conform action prec val
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
<i>set</i>	(Optional)
<i>dscp1</i>	(Optional)
<i>dscp2</i>	(Optional)
<i>table</i>	(Optional)
<i>cir-markdown-map</i>	(Optional)
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
<i>set1</i>	(Optional)
<i>dscp3</i>	(Optional)

dscp4	(Optional)
table1	(Optional)
pir-markdown-map	(Optional)
cos	(Optional)
inner	(Optional)
<i>cos-val</i>	(Optional) Set cos val
dscp	(Optional)
tunnel	(Optional)
<i>dscp-val</i>	(Optional) Set dscp val
precedence	(Optional)
tunnel1	(Optional)
<i>prec-val</i>	(Optional) Set prec val
<i>policer_show_flags</i>	(Optional) Policer show flags

**Command Mode**

- /exec



# show policy-map type network-qos

```
show policy-map type network-qos [ <pmap-name-nq> ] [ __readonly__ { <display-all> <desc> <xpmap-name>
<xcmap-name> <pause> <timeout> <size-in-bytes> <xoff-bytes> <xon-bytes> <pfc-cos-list> <cc>
<thresh-units> <min-thresh> <max-thresh> <drop-prob> <iod> <mtu> <set-cos> <dpp> } ]
```

## Syntax Description

Syntax Description	
show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
<i>pmap-name-nq</i>	(Optional) Policy-map name
network-qos	type network-qos
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all network-qos policy-maps
<i>xpmap-name</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>xcmap-name</i>	(Optional) Class-map name
<i>pause</i>	(Optional) Pause value
<i>timeout</i>	(Optional) timeout value
<i>pfc-cos-list</i>	(Optional) List of class-of-service values
<i>cc</i>	(Optional) congestion control protocol
<i>thresh-units</i>	(Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>drop-prob</i>	(Optional) Drop Probability at Maximum Threshold value
<i>iod</i>	(Optional) IOD value
<i>mtu</i>	(Optional) MTU value
<i>set-cos</i>	(Optional) Set CoS value
<i>dpp</i>	(Optional) Dynamic Packet Prioritization Class

## Command Mode

- /exec

## show policy-map type psp

```
show policy-map type psp { [ <pmap-name> [ client <clienttype> <clientID> ] [ cfg-mode <cfgmode> ] ] [
handle <ppf_id> ] [ __readonly__ { [ <display-all> ] [ TABLE_pmap <pmap-key> <id> <pmap-name-out>
[ <desc> ] [ TABLE_cmap <cmap-key> <if-else-id> <cmap-id> [ class-default ] [ <cmap-name-out> ] [
TABLE_action <action-key> [ <cos-val> ] [ <src-mac-addr> ] [ <dest-mac-addr> ] [ <vlan-number> ] [
<ip-tos-value> ] [ <interface-name> ] [ action-strip-vlan ] [ action-drop-pkt ] [ divert-action ] [ copy-action ]
[ forward-normal ] [ <goto-pmap-handle> ] [ action-decrement-ttl ] ] ] ] }
```

### Syntax Description

#### Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
psp	type psp
<i>pmap-name</i>	(Optional) Policy-map name
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID
cfg-mode	(Optional) cfg-mode
<i>cfgmode</i>	(Optional) persistent/transient
handle	(Optional) Handle
<i>ppf_id</i>	(Optional) PPF ID
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all kinds of policymaps
TABLE_pmap	(Optional) all pmap xml sessions
<i>id</i>	(Optional) Policy-map ID
<i>pmap-key</i>	(Optional) Policy-map name: xml key
<i>pmap-name-out</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
<i>if-else-id</i>	(Optional) If-Else ID

<i>cmap-id</i>	(Optional) Class-map ID
<i>class-default</i>	(Optional)
<i>cmap-name-out</i>	(Optional) Class-map name
TABLE_ <i>action</i>	(Optional) all action xml sessions
<i>action-key</i>	(Optional) action count: xml key
<i>cos-val</i>	(Optional) 802.1Q Class of Service value
<i>src-mac-addr</i>	(Optional) Layer 2 MAC Address
<i>dest-mac-addr</i>	(Optional) Layer 2 MAC Address
<i>vlan-number</i>	(Optional) VLAN NUMBER
<i>ip-tos-value</i>	(Optional) IPv4 TOS Value
<i>interface-name</i>	(Optional) Physical Interface Name and Number
<i>action-strip-vlan</i>	(Optional) Perform the action STRIP-VLAN-ID
<i>action-drop-pkt</i>	(Optional) Perform the action Drop the Packet
<i>divert-action</i>	(Optional) Divert the packets to Controller
<i>copy-action</i>	(Optional) Copy the packets to Controller
<i>forward-normal</i>	(Optional) Forward the packets normally
<i>goto-pmap-handle</i>	(Optional) Pmap handle
<i>action-decrement-ttl</i>	(Optional) Decrement TTL on the Packet

### Command Mode

- /exec

# show port-channel load-balance

```
show port-channel load-balance { [ module <module> ] | { fex { all } } } [ __readonly__ <sys-cfg> {
<module-cfg> } + <non-ip-val> <non-ip-sel> <ipv4-val> <ipv4-sel> <ipv6-val> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
port-channel	Show port-channel information
load-balance	Show port-channel load balance
module	(Optional) slot
<i>module</i>	(Optional) Specify a module number
fex	FEX devices
all	Display all configured FEX port-channel LB
<i>__readonly__</i>	(Optional)
<i>sys-cfg</i>	(Optional) system wide load balance configuraton
<i>module-cfg</i>	(Optional) per module load balance configuraton
<i>non-ip-val</i>	(Optional) load balance setting for non-ip traffic
<i>non-ip-sel</i>	(Optional) non ip select
<i>ipv4-val</i>	(Optional) load balance setting for ipv4 traffic
<i>ipv4-sel</i>	(Optional) ip select
<i>ipv6-val</i>	(Optional) load balance setting for ipv6 traffic

## Command Mode

- /exec

# show port-channel load-balance internal algorithm

show port-channel load-balance internal algorithm

## Syntax Description

Syntax Description		
show		Show running system information
port-channel		Show port-channel information
load-balance		Show port-channel load balance
internal	internal	
algorithm		HG port-channel load balance algo

## Command Mode

- /exec

## show port-profile

```
show port-profile [ name <all_profile_name> ] [ __readonly__ <profile_name> <profile_id> <type> <desc>
<status> <max_ports> <min_ports> <inherit> <profile_cfg> <cmd_depth> <cmd_key> <parent_seqno>
<cmd_seqno> <cmd_attr> <form_type> <cmd_mask> <shadow_cmd> <cmd_flags> <eval_cfg> <intf>
<cap_l3> <cap_iscsi> <ctrl_sgid> <pkt_sgid> <sys_vlans> <portgrp> <pprole> <port_binding> ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
port-profile	Show port-profile
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
<i>profile_name</i>	(Optional)
<i>profile_id</i>	(Optional)
<i>type</i>	(Optional)
<i>desc</i>	(Optional)
<i>status</i>	(Optional)
<i>max_ports</i>	(Optional)
<i>min_ports</i>	(Optional)
<i>inherit</i>	(Optional)
<i>profile_cfg</i>	(Optional)
<i>cmd_depth</i>	(Optional)
<i>cmd_key</i>	(Optional)
<i>parent_seqno</i>	(Optional)
<i>cmd_seqno</i>	(Optional)
<i>cmd_attr</i>	(Optional)
<i>form_type</i>	(Optional)
<i>cmd_mask</i>	(Optional)
<i>shadow_cmd</i>	(Optional)
<i>cmd_flags</i>	(Optional)

<i>eval_cfg</i>	(Optional)
<i>intf</i>	(Optional)
<i>cap_l3</i>	(Optional) L3 Profile
<i>cap_iscsi</i>	(Optional) iSCSI cap
<i>ctrl_sgid</i>	(Optional) Control Vlan Pinned Sgid
<i>pkt_sgid</i>	(Optional) Packet Vlan Pinned Sgid
<i>sys_vlans</i>	(Optional) System Vlans
<i>portgrp</i>	(Optional) VMware Portgroup
<i>pprole</i>	(Optional) Port-profile Role
<i>port_binding</i>	(Optional) Port-binding

**Command Mode**

- /exec

## show port-profile brief

```
show port-profile brief [ __readonly__ { TABLE_port_profile <profile_name> <type> <status>
<profile_cfg_cnt> <eval_cfg_cnt> <intf_cnt> <inherit_cnt> <header_flag> } { TABLE_intf_count <intf_type>
<intf_count> <tot_header_flag> } ]
```

### Syntax Description

Syntax Description	show	Show running system information
	port-profile	Show port-profile
	brief	Brief info about profiles
	<i>__readonly__</i>	(Optional)
	<i>profile_name</i>	(Optional)
	TABLE_port_profile	(Optional)
	<i>type</i>	(Optional)
	<i>status</i>	(Optional)
	<i>profile_cfg_cnt</i>	(Optional)
	<i>eval_cfg_cnt</i>	(Optional)
	<i>intf_cnt</i>	(Optional)
	<i>inherit_cnt</i>	(Optional)
	<i>header_flag</i>	(Optional)
	TABLE_intf_count	(Optional)
	<i>intf_type</i>	(Optional)
	<i>intf_count</i>	(Optional)
	<i>tot_header_flag</i>	(Optional)

### Command Mode

- /exec



## show port-profile expand-interface

```
show port-profile expand-interface [ name <all_profile_name> ] [ __readonly__ <profile_name> <intf>
<intf_cfg> ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
port-profile	Show port-profile	
expand-interface	Active profile config applied in a interface	
name	(Optional) port-profile name	
<i>all_profile_name</i>	(Optional) Enter the name of the profile	
<i>__readonly__</i>	(Optional)	
<i>profile_name</i>	(Optional)	
<i>intf</i>	(Optional)	
<i>intf_cfg</i>	(Optional)	

### Command Mode

- /exec

# show port-profile sync-status

```
show port-profile sync-status [ interface <intfname> ] [ __readonly__ <intf> <status> <inherit> <sync_status>
<cached_cmds> <errors> <recovery> ]
```

## Syntax Description

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

Syntax Description		
show		Show running system information
port-profile		Show port-profile
usage		List of interfaces inherited a profile
name		(Optional) port-profile name
<i>all_profile_name</i>		(Optional) Enter the name of the profile
<i>__readonly__</i>		(Optional)
TABLE_port_profile		(Optional)
TABLE_interface		(Optional)
<i>profile_name</i>		(Optional)
<i>interface</i>		(Optional)

### Command Mode

- /exec

## show port-security

```
show port-security [ __readonly__ { TABLE_eth_port_sec_interfaces <secure_port> <max_secure_addr>
<current_addr> <security_violation> <security_action> <num_val> <num_elems> <cmdid_show_index>
<port_state> } <total_addr> <max_sys_limit> ]
```

### Syntax Description

Syntax Description		
port-security		Show secure port information
__readonly__	(Optional)	
TABLE_eth_port_sec_interfaces	(Optional)	Displays the secured interfaces
secure_port	(Optional)	Interface Index
max_secure_addr	(Optional)	Maximum number of secured MAC addresses
current_addr	(Optional)	Number of secured MAC addresses
security_violation	(Optional)	Number of security violations
security_action	(Optional)	Security Action Shutdown/Restrict/Protect
num_val	(Optional)	Number of Values
num_elems	(Optional)	Number of Elements
cmdid_show_index	(Optional)	Index for the Interfaces
port_state	(Optional)	Port security enabled or disabled
total_addr	(Optional)	Total number of secured MAC addresses
max_sys_limit	(Optional)	Maximum allowed MACs excluding one per port

### Command Mode

- /exec

## show port-security address

```
show port-security address [ __readonly__ { TABLE_eth_port_sec_mac_addrs <vlan_id> <mac_addr> <type>
<if_index> <remain_age> <remote_learnt> <remote_aged> <num_elems> <cmd_addr_index> } <total_addr>
<max_sys_limit> ]
```

### Syntax Description

Syntax Description		
<i>port-security</i>		Show secure port information
<i>address</i>		Show secure address
<i>__readonly__</i>		(Optional)
<i>TABLE_eth_port_sec_mac_addrs</i>	(Optional)	Displays the secured MAC addresses
<i>if_index</i>	(Optional)	Interface index
<i>vlan_id</i>	(Optional)	vlan id
<i>mac_addr</i>	(Optional)	mac address
<i>type</i>	(Optional)	static/sticky/dyanmic MAC address
<i>remain_age</i>	(Optional)	Remaining age
<i>remote_learnt</i>	(Optional)	Remotely learnt
<i>remote_aged</i>	(Optional)	Remotely Aged Out
<i>num_elems</i>	(Optional)	Number of Elements
<i>cmd_addr_index</i>	(Optional)	Index for the interface address
<i>total_addr</i>	(Optional)	Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional)	Maximum allowed MACs excluding one per port

### Command Mode

- /exec

## show port-security address blocked

```
show port-security address blocked [ __readonly__ { TABLE_eth_port_sec_mac_addrs <vlan_id> <mac_addr>
<type> <if_index> <remain_age> <num_elems> <cmd_addr_index> } <total_addr> <max_sys_limit> ]
```

### Syntax Description

Syntax Description	
port-security	Show secure port information
address	Show secure address
blocked	Port Security Blocked macs
<i>__readonly__</i>	(Optional)
<i>TABLE_eth_port_sec_mac_addrs</i>	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>mac_addr</i>	(Optional) mac address
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>remain_age</i>	(Optional) Remaining age
<i>num_elems</i>	(Optional) Number of Elements
<i>cmd_addr_index</i>	(Optional) Index for the interface address
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port

### Command Mode

- /exec

## show port-security address interface

```
show port-security address interface <interface-id> [ __readonly__ { TABLE_eth_port_sec_mac_addrs
<vlan_id> <mac_addr> <type> <if_index> <remain_age> <remote_learnt> <remote_aged> <num_elems>
} <total_addr> <max_sys_limit> <first> ]
```

### Syntax Description

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)
<i>TABLE_eth_port_sec_mac_addrs</i>	(Optional)	Displays the secured MAC addresses
<i>if_index</i>	(Optional)	Interface index
<i>vlan_id</i>	(Optional)	vlan id
<i>mac_addr</i>	(Optional)	mac address
<i>type</i>	(Optional)	static/sticky/dyanmic MAC address
<i>remain_age</i>	(Optional)	Remaining age
<i>remote_learnt</i>	(Optional)	Remotely learnt
<i>remote_aged</i>	(Optional)	Remotely Aged Out
<i>num_elems</i>	(Optional)	Number of Elements
<i>total_addr</i>	(Optional)	Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional)	Maximum allowed MACs excluding one per port
<i>first</i>	(Optional)	To identify the first entry

### Command Mode

- /exec

## show port-security address nvramp

```
show port-security address nvramp [ __readonly__ { TABLE_eth_port_sec_mac_addrs <vlan_id> <mac_addr>
<type> <if_index> <remain_age> <remote_learnt> <remote_aged> <num_elems> <cmd_addr_index> }
<total_addr> <max_sys_limit> ]
```

### Syntax Description

Syntax Description	
<i>port-security</i>	Show secure port information
<i>address</i>	Show secure address
<i>nvramp</i>	Port Security NVRAM
<i>__readonly__</i>	(Optional)
<i>TABLE_eth_port_sec_mac_addrs</i>	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>mac_addr</i>	(Optional) mac address
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>remain_age</i>	(Optional) Remaining age
<i>remote_learnt</i>	(Optional) Remotely learnt
<i>remote_aged</i>	(Optional) Remotely Aged Out
<i>num_elems</i>	(Optional) Number of Elements
<i>cmd_addr_index</i>	(Optional) Index for the interface address
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port

### Command Mode

- /exec



## show port-security detail interface

```
show port-security detail interface [ __readonly__ { TABLE_eth_port_sec_intf_detail <if_index>
<port_security> <port_status> <violation_mode> <aging_time> <aging_type> <max_mac_addr>
<total_sec_addrs> <trap_count> <addr_aging_enable> <secure_last_mac_addr> <sticky_enable>
<secure_last_mac_addr_vlan_id> } ]
```

### Syntax Description

Syntax Description	
port-security	Show secure port information
detail	Show detailed information about secure interface
interface	Show secure interface
TABLE_eth_port_sec_intf_detail	(Optional) Displays the secured interface details
__readonly__	(Optional)
if_index	(Optional) Interface index
port_security	(Optional) Port Security is Enabled/Disabled
port_status	(Optional) Secure Up/Down
violation_mode	(Optional) Shutdown/Restrict/Protect
aging_time	(Optional) Aging time in minutes
aging_type	(Optional) Absolute/Inactivity
max_mac_addr	(Optional) Maximum number of MAC addresses that can be secured
total_sec_addrs	(Optional) Total number of secured MAC addresses
trap_count	(Optional) Trap Count
addr_aging_enable	(Optional) Specifies whether address aging is enabled
secure_last_mac_addr	(Optional) Secured last mac address
sticky_enable	(Optional) Specifies sticky feature is enabled on the port
secure_last_mac_addr_vlan_id	(Optional) Indicates the VLAN where the last MAC address seen on this interface

### Command Mode

- /exec

## show port-security interface

```
show port-security interface <interface-id> [ __readonly__ <config_port_security> <oper_port_security>
<port_status> <violation_mode> <aging_time> <aging_type> <max_mac_addr> <total_sec_addrs>
<conf_num_addrs> <num_sticky_addrs> <trap_count> ]
```

### Syntax Description

Syntax Description		
	port-security	Show secure port information
	interface	Show secure interface
	<i>interface-id</i>	ethernet
	<i>__readonly__</i>	(Optional)
	<i>config_port_security</i>	(Optional) Port Security configuration is Enabled/Disabled
	<i>oper_port_security</i>	(Optional) Port Security is Operationally Enabled/Disabled
	<i>port_status</i>	(Optional) Secure Up/Down
	<i>violation_mode</i>	(Optional) Shutdown/Restrict/Protect
	<i>aging_time</i>	(Optional) Aging time in minutes
	<i>aging_type</i>	(Optional) Absolute/Inactivity
	<i>max_mac_addr</i>	(Optional) Configured Maximum
	<i>total_sec_addrs</i>	(Optional) Total number of secured MAC addresses
	<i>conf_num_addrs</i>	(Optional) Number of configured MAC addresses
	<i>num_sticky_addrs</i>	(Optional) Number of sticky MAC addresses
	<i>trap_count</i>	(Optional) Trap Count

### Command Mode

- /exec

## show port-security multivlan address

```
show port-security multivlan address [ __readonly__ { TABLE_eth_port_sec_multi_vlan <if_index> <vlan_id>
<max_sec_mac_addr_count> <cur_sec_mac_addr_count> } ]
```

### Syntax Description

Syntax Description		
port-security		Show secure port information
address		Show secure address
multivlan		Show port security information for a particular vlan in a multivlan port
__readonly__		(Optional)
TABLE_eth_port_sec_multi_vlan	(Optional)	Displays the secured MAC addresses
if_index	(Optional)	Interface index
vlan_id	(Optional)	vlan id
max_sec_mac_addr_count	(Optional)	The maximum number of MAC addresses to be secured in the vlan
cur_sec_mac_addr_count	(Optional)	Current number of MAC addresses secured in the VLAN

### Command Mode

- /exec

## show port-security secure address

```
show port-security secure address [ __readonly__ { TABLE_eth_port_sec_if_vlan_secure_mac_addr <if_index>
<mac_addr> <vlan_id> <mac_addr_type> <remain_age> } ]
```

### Syntax Description

Syntax Description		
port-security		Show secure port information
secure		Show detail information about secure address
address		Show secure address
<i>__readonly__</i>		(Optional)
<i>TABLE_eth_port_sec_if_vlan_secure_mac_addr</i>	(Optional)	Displays the secured MAC addresses
<i>if_index</i>	(Optional)	Interface index
<i>mac_addr</i>	(Optional)	mac address
<i>vlan_id</i>	(Optional)	vlan id
<i>mac_addr_type</i>	(Optional)	static/sticky/ MAC address
<i>remain_age</i>	(Optional)	Remaining age

### Command Mode

- /exec

# show port-security state

show port-security state [ *\_\_readonly\_\_* <status> ]

## Syntax Description

Syntax	Description
<i>port-security</i>	Port security related command
<i>state</i>	port security state
<i>__readonly__</i>	(Optional)
<i>status</i>	(Optional) show port-security

## Command Mode

- /exec

# show port-security traps enable

show port-security traps enable [ \_\_readonly\_\_ { <snmp\_traps\_enable> } ]

## Syntax Description

Syntax Description		
port-security	Show secure port information	
traps	Enable SNMP traps	
enable	enable	
__readonly__	(Optional)	
<i>snmp_traps_enable</i>	(Optional) SNMP traps enable/disable	

## Command Mode

- /exec

# show private-vlan internal event-history errors

show private-vlan internal event-history errors

## Syntax Description

Syntax Description		
show	Show running system information	
private-vlan	Show information about private VLAN	
internal	Show internal information about private VLAN	
event-history	Show various event logs of private VLAN	
errors	Show internal error logs of private VLAN	

## Command Mode

- /exec

# show private-vlan internal event-history events

show private-vlan internal event-history events

## Syntax Description

---

### Syntax Description

---

show	Show running system information
private-vlan	Show information about private VLAN
internal	Show internal information about private VLAN
event-history	Show various event logs of private VLAN
events	Show internal events of private VLAN

---

## Command Mode

- /exec



# show private-vlan internal event-history traces

show private-vlan internal event-history traces

## Syntax Description

Syntax Description		
show		Show running system information
private-vlan		Show information about private VLAN
internal		Show internal information about private VLAN
event-history		Show various event logs of private VLAN
traces		Show internal traces of private VLAN

## Command Mode

- /exec

# show private-vlan internal info

show private-vlan internal info [ global | all ]

## Syntax Description

### Syntax Description

show	Show running system information
private-vlan	Show information about private VLAN
internal	Show internal information about private VLAN
info	Show internal information of private VLAN
global	(Optional) Show global internal information of private VLAN
all	(Optional) Show all internal information of private VLAN

## Command Mode

- /exec

# show private-vlan internal mem-stats

show private-vlan internal mem-stats [ detail ]

## Syntax Description

Syntax Description		
show	Show	running system information
private-vlan	Show	information about private VLAN
internal	Show	internal information about private VLAN
mem-stats	Show	internal memory statistics of private VLAN
detail	(Optional)	Show detailed internal memory statistics of private VLAN

## Command Mode

- /exec

# show privilege

show privilege

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

privilege Display privilege information

---

## Command Mode

- /exec

# show processes

```
show processes [ __readonly__ { [ TABLE_processes <pid> <state> <pc> <start_cnt> <tty> <p_type>
<process> ] } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
processes		Show processes
__readonly__	(Optional)	
TABLE_processes	(Optional)	all process information
pid	(Optional)	process id
state	(Optional)	process state
pc	(Optional)	pc register
start_cnt	(Optional)	TBD
tty	(Optional)	TBD
p_type	(Optional)	process type
process	(Optional)	process name

## Command Mode

- /exec

# show processes cpu

```
show processes cpu [ sort ] [ __readonly__ { [ TABLE_process_cpu <pid> <runtime> <invoked> <usecs>
<onesecond> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] } ]
```

## Syntax Description

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
pid		(Optional) process id
runtime		(Optional) Runtime
invoked		(Optional) Invoked
usecs		(Optional) usecs
onesecond		(Optional) fivesec
process		(Optional) name of the process
user_percent		(Optional) user
kernel_percent		(Optional) kernel
idle_percent		(Optional) idle

## Command Mode

- /exec

# show processes cpu history

show processes cpu history

## Syntax Description

Syntax	Description
show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
history	Show processes CPU Util History

## Command Mode

- /exec

# show processes cpu module

```
show processes cpu module <i0> [ __readonly__ { [ TABLE_process_cpu <pid> <runtime> <invoked>
<usecs> <onesecond> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] } ]
```

## Syntax Description

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>onesecond</i>	(Optional)	onesecond
<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

Syntax Description		
show		Show running system information
processes		Show processes
log		Show information about process logs
__readonly__		(Optional)
TABLE_processes_log	(Optional)	all processes log
vdc	(Optional)	vdc
process	(Optional)	vdc process name
pid	(Optional)	pid
normal_exit	(Optional)	process exit
stack	(Optional)	stack
core	(Optional)	core
create_time	(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

Syntax Description		
show		Show running system information
processes		Show processes
log		Show information about process logs
details		Show detail of all logs with stack
<i>__readonly__</i>		(Optional)
<i>line_in_log_detail</i>		(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

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

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

Syntax Description		
show		Show running system information
processes		Show processes
memory		Show processes Memory Info
<i>__readonly__</i>		(Optional)
<i>TABLE_process_memory</i>		(Optional) all process memory
<i>mem_pid</i>		(Optional) process id
<i>mem_alloc</i>		(Optional) allocated memory
<i>mem_limit</i>		(Optional) memory limit
<i>mem_used</i>		(Optional) memory used
<i>stack_base_ptr</i>		(Optional) stack and base pointer
<i>process</i>		(Optional) name of the process

## Command Mode

- /exec

# show processes memory clis

show processes memory clis [ shared | private ]

## Syntax Description

Syntax Description	
show	Show running system information
processes	Display process information
memory	Display memory information
clis	
shared	(Optional) Display CLIS shared memory information
private	(Optional) Display CLIS private memory information

## Command Mode

- /exec



<i>process-memory-share-dynamic-current-size-str</i>	(Optional)
<i>process-memory-share-dynamic-max-size-str</i>	(Optional)
<i>process-memory-share-dynamic-used-str</i>	(Optional)
<i>process-memory-share-component-str</i>	(Optional)
<i>process-memory-share-shared-memory-str</i>	(Optional)
<i>process-memory-share-size-str</i>	(Optional)
<i>process-memory-share-used-str</i>	(Optional)
<i>process-memory-share-available-str</i>	(Optional)
<i>process-memory-share-ref-str</i>	(Optional)
<i>process-memory-share-byte-set-address-str</i>	(Optional)
<i>process-memory-share-byte-set-count-str</i>	(Optional)
<i>process-memory-share-address-str</i>	(Optional)
<i>process-memory-share-kbytes-1-str</i>	(Optional)
<i>process-memory-share-kbytes-2-str</i>	(Optional)
<i>process-memory-share-kbytes-3-str</i>	(Optional)
<i>process-memory-share-count-str</i>	(Optional)
TABLE_SMMITEM	(Optional)
<i>process-memory-share-smr-name</i>	(Optional)
TABLE_SHOWPROC	(Optional)
<i>process-memory-share-table-showproc-key</i>	(Optional)
TABLE_SHOWONEDYNAMIC	(Optional)
<i>process-memory-share-component</i>	(Optional)
<i>process-memory-share-shared-memory</i>	(Optional)
<i>process-memory-share-current-size</i>	(Optional)
<i>process-memory-share-max-size</i>	(Optional)
<i>process-memory-share-used</i>	(Optional)
TABLE_ONEITEM	(Optional)
<i>process-memory-share-proc-smr-name</i>	(Optional)
<i>process-memory-share-smr-addr</i>	(Optional)



<i>process-memory-share-smr-size</i>	(Optional)
<i>process-memory-share-smr-star-char</i>	(Optional)
<i>process-memory-share-smr-empty-char</i>	(Optional)
<i>process-memory-share-smr-used</i>	(Optional)
<i>process-memory-share-smr-avail</i>	(Optional)
<i>process-memory-share-smr-ref-count</i>	(Optional)
TABLE_ONEITEMDYNAMIC	(Optional)
<i>process-memory-share-dynamic-smr-name</i>	(Optional)
<i>process-memory-share-dynamic-smr-addr</i>	(Optional)
<i>process-memory-share-dynamic-smr-size</i>	(Optional)
<i>process-memory-share-dynamic-plus-char</i>	(Optional)
<i>process-memory-share-max-mem-size-str</i>	(Optional)
<i>process-memory-share-dynamic-smr-used</i>	(Optional)
<i>process-memory-share-dynamic-smr-avail</i>	(Optional)
<i>process-memory-share-dynamic-smr-ref-count</i>	(Optional)
<i>process-memory-share-region-smr-name</i>	(Optional)
<i>process-memory-share-total-shm-size</i>	(Optional)
<i>process-memory-share-total-shm-used</i>	(Optional)
<i>process-memory-share-total-shm-avail</i>	(Optional)

### Command Mode

- /exec

# show processes vdc

show processes vdc <e-vdc2>

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	processes	Show processes
	vdc	Show processes in vdc
	<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>

## Command Mode

- /exec

# show processes vdc cpu

show processes vdc <e-vdc2> cpu

## Syntax Description

Syntax Description	
show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
cpu	Show processes CPU Info

## Command Mode

- /exec

# show processes vdc log

show processes vdc <e-vdc2> log

## Syntax Description

Syntax Description		
show	Show running system information	
processes	Show processes	
vdc	Show processes in vdc	
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>	
log	Show information about process logs	

## Command Mode

- /exec

# show processes vdc log details

show processes vdc <e-vdc2> log details

## Syntax Description

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

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>il</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_mallocated> ] } ]
```

### Syntax Description

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)
<i>TABLE_process_memory</i>	(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

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

Syntax	Description
show	Show running system information
pss	display pss information
debug	display pss debug configuration

## Command Mode

- /exec

# show ptp brief

```
show ptp brief [ __readonly__ { TABLE_ptp <ptp-ifindex> <state> } <ptp-end> ]
```

## Syntax Description

Syntax Description		
ptp		Precision Time Protocol (IEEE 1588) Subsystem
brief		port states in brief
__readonly__	(Optional)	Read Only
TABLE_ptp	(Optional)	ptp table
<i>ptp-ifindex</i>	(Optional)	ptp ifindex
<i>ptp-end</i>	(Optional)	End of table
<i>state</i>	(Optional)	BMC state

## Command Mode

- /exec

# show ptp clock

```
show ptp clock [ __readonly__ <clock-id> <domain-id> <num-ports> <priority1> <priority2> <class>
<accuracy> <scaled-log-variance> <offset-from-master> <mean-path-delay-to-master> <steps-removed> ]
```

## Syntax Description

Syntax Description		
<code>ptp</code>		Precision Time Protocol (IEEE 1588) Subsystem
<code>clock</code>		Set local clock attributes
<code>__readonly__</code>		(Optional) Read only
<code>domain-id</code>		(Optional) Domain Id
<code>clock-id</code>		(Optional) Clock Id
<code>priority1</code>		(Optional) Priority 1
<code>priority2</code>		(Optional) Priority 2
<code>num-ports</code>		(Optional) Number of PTP ports
<code>class</code>		(Optional) Class
<code>accuracy</code>		(Optional) Clock accuracy
<code>scaled-log-variance</code>		(Optional) scaled log variance
<code>offset-from-master</code>		(Optional) Offset from master
<code>mean-path-delay-to-master</code>		(Optional) mean path delay to master
<code>steps-removed</code>		(Optional) Steps removed

## Command Mode

- /exec

## show ptp clock foreign-masters record

```
show ptp clock foreign-masters record [ interface <if0> ] [ __readonly__ { TABLE_ptp <interface-name>
<clock-id> <priority1> <priority2> <class> <accuracy> <scaled-log-variance> <steps-removed> <is-gm> }
<ptp-end> ]
```

### Syntax Description

#### Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>clock</code>	Set local clock attributes
<code>foreign-masters</code>	foreign-masters
<code>record</code>	record
<code>if0</code>	(Optional)
<code>__readonly__</code>	(Optional) Read only
<code>TABLE_ptp</code>	(Optional) ptp table
<code>interface-name</code>	(Optional) interface name
<code>clock-id</code>	(Optional) Clock Id
<code>priority1</code>	(Optional) Priority 1
<code>priority2</code>	(Optional) Priority 2
<code>class</code>	(Optional) Class
<code>accuracy</code>	(Optional) Clock accuracy
<code>scaled-log-variance</code>	(Optional) scaled log variance
<code>steps-removed</code>	(Optional) Steps removed
<code>is-gm</code>	(Optional) Is Grandmaster
<code>ptp-end</code>	(Optional) End of table

### Command Mode

- /exec

# show ptp corrections

```
show ptp corrections [ __readonly__ { TABLE_ptp <intf-name> <sup-time> <correction-val>
<mean-path-delay> } <ptp-end> ]
```

## Syntax Description

Syntax Description	
ptp	Precision Time Protocol (IEEE 1588) Subsystem
__readonly__	(Optional) Read Only
corrections	Display last few corrections
TABLE_ptp	(Optional) ptp table
intf-name	(Optional) interface name
sup-time	(Optional) sup time
ptp-end	(Optional) End of table

## Command Mode

- /exec

## show ptp counters interface

```
show ptp counters { interface <if0> | all } [ __readonly__ [ TABLE_ptp <interface_name> <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

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>		
TABLE_ptp	(Optional)	ptp table
<i>interface_name</i>	(Optional)	interface name
<i>ptp-end</i>	(Optional)	End of table

### Command Mode

- /exec

# show ptp packet-trace

```
show ptp packet-trace [ __readonly__ { TABLE_ptp <intf-name> <sup-time> <pkt_dir> <pkt_type> <pkt_info>
} <ptp-header> <ptp-end> ]
```

## Syntax Description

Syntax Description	
<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>__readonly__</code>	(Optional) Read Only
<code>packet-trace</code>	Display last few pkt traces
<code>TABLE_ptp</code>	(Optional) ptp table
<code>intf-name</code>	(Optional) interface name
<code>sup-time</code>	(Optional) sup time
<code>pkt_dir</code>	(Optional) pkt_dir
<code>pkt_type</code>	(Optional) pkt_type
<code>pkt_info</code>	(Optional) pkt_info
<code>ptp-header</code>	(Optional) Start of table
<code>ptp-end</code>	(Optional) End of table

## Command Mode

- /exec

# show ptp parent

```
show ptp parent [ __readonly__ <clock-id> <port-num> <obs-parent-offset> <obs-parent-clk-phase-chg>
<gm-id> <gm-class> <gm-accuracy> <gm-scaled-log-variance> <gm-priority1> <gm-priority2> ]
```

## Syntax Description

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>gm-id</i>		(Optional) Grandmaster Id
<i>gm-class</i>		(Optional) Class
<i>gm-accuracy</i>		(Optional) Clock accuracy
<i>gm-scaled-log-variance</i>		(Optional) scaled log variance
<i>gm-priority1</i>		(Optional) GM Priority 1
<i>gm-priority2</i>		(Optional) GM Priority 2

## Command Mode

- /exec



## show ptp port interface

```
show ptp port interface <if0> [ __readonly__ <intf-name> <clock-id> <port-num> <version> <state> <vlan>
<delay-req-intv> <ann-rx-tout> <peer-mean-path-delay> <ann-intv> <sync-intv> <delay-mechanism>
<peer-delay-req-intv> ]
```

### Syntax Description

Syntax Description		
ptp		Precision Time Protocol (IEEE 1588) Subsystem
port		port
interface		Enter the port interface
<i>if0</i>		
<i>__readonly__</i>	(Optional)	Read only
<i>intf-name</i>	(Optional)	interface name
<i>clock-id</i>	(Optional)	Port ID: Clock Id
<i>port-num</i>	(Optional)	Port ID: port number
<i>version</i>	(Optional)	version
<i>state</i>	(Optional)	BMC state
<i>vlan</i>	(Optional)	Vlan
<i>delay-req-intv</i>	(Optional)	log mean delay req interval
<i>ann-rx-tout</i>	(Optional)	announce receipt timeout
<i>peer-mean-path-delay</i>	(Optional)	peer mean path delay
<i>ann-intv</i>	(Optional)	announce interval
<i>sync-intv</i>	(Optional)	sync interval
<i>delay-mechanism</i>	(Optional)	delay mechanism
<i>peer-delay-req-intv</i>	(Optional)	peer delay req interval

### Command Mode

- /exec

# show ptp time-property

```
show ptp time-property [ __readonly__ <current-utc-offset-valid> <current-utc-offset> <leap-59> <leap-61>
<time-traceable> <freq-traceable> <ptp-timescale> <time-source> ]
```

## Syntax Description

Syntax Description		
ptp		Precision Time Protocol (IEEE 1588) Subsystem
time-property		time property
__readonly__	(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



## Q Show Commands

---

- [show qos dcbxp incompatibility interface](#), on page 2664
- [show qos dcbxp info](#), on page 2665
- [show qos shared-policer](#), on page 2666
- [show queuing](#), on page 2668
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- [show queuing burst-detect](#), on page 2672
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- [show queuing pfc-queue](#), on page 2675
- [show queuing pfc-queue interface snmp watchdogIfQueueTable ifIndex](#), on page 2677
- [show queuing pfc-queue snmp ifIndex](#), on page 2678
- [show queuing tah-pfc-queue](#), on page 2679

## show qos dcbxp incompatibility interface

```
show qos dcbxp incompatibility interface <iface-num> [ __readonly__ { <pfc> <mtu> <lpg> <rpg> <bw>
<lfc> <rfc> <liscsi> <riscsi> } ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
dcbxp	DCBXP	
incompatibility	incompatibility information	
interface	incompatibility info for interface	
<i>iface-num</i>	Interface	
<i>__readonly__</i>	(Optional)	
<i>pfc</i>	(Optional) pfc	
<i>mtu</i>	(Optional) MTU Value	
<i>lpg</i>	(Optional) Local Priority Grouping	
<i>rpg</i>	(Optional) Remote Priority Grouping	
<i>bw</i>	(Optional) CIN: bandwidth/priority	
<i>lfc</i>	(Optional) local fcoe	
<i>rfc</i>	(Optional) remote fcoe	
<i>liscsi</i>	(Optional) local iscsi	
<i>riscsi</i>	(Optional) remote iscsi	

### Command Mode

- /exec

# show qos dcbxp info

```
show qos dcbxp info [ __readonly__ { <intf> <pfc> <pfc> <pgr> <pgc> <mtur> <mtuc> <fcoer> <fcoec>
<iscsir> <iscsic> } ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
dcbxp	DCBXP	
info	information	
__readonly__	(Optional)	
<i>intf</i>	(Optional) Interface	
<i>pfc</i>	(Optional) pfc recvd	
<i>pfc</i>	(Optional) pfc compatible	
<i>pgr</i>	(Optional) pg received	
<i>pgc</i>	(Optional) pg compatible	
<i>mtur</i>	(Optional) mtu received	
<i>mtuc</i>	(Optional) mtu compatible	
<i>fcoer</i>	(Optional) fcoe received	
<i>fcoec</i>	(Optional) fcoe compatible	
<i>iscsir</i>	(Optional) iscsi received	
<i>iscsic</i>	(Optional) iscsi compatible	

## Command Mode

- /exec

## show qos shared-policer

```
show qos shared-policer [ type qos1 ][ <policer-name> ][ __readonly__ { [ TABLE_policer <policer-name2>
[ <cir-spec> ][ <bc-spec> ][ <be-spec> ][ <cir-rate-units> ][ <cir> ][ <bc-size-units> ][ <bc> ][
<pir-rate-units> ][ <pir> ][ <be-size-units> ][ <be> ][ <cnf-col-cmap> ][ <exc-col-cmap> ][ TABLE_action
<action-key> [ <cnf-act> ][ <exc-act> ][ <vio-act> ][ <set-type> ][ <enum-spec> ][ <set-val> ][
<tmap-from> ][ <tmap-to> ][ <tmap-name> ] ] } ]
```

### Syntax Description

#### 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)
<i>TABLE_policer</i>	(Optional) all police xml sessions
<i>policer-name2</i>	(Optional) Policer Name
<i>TABLE_action</i>	(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_queuing_interface <if_name_str> <dir> [ TABLE_qosgrp_cfg <qosgrp> [ <bandwidth> ] [ <priority>
] [ <shape-min> ] [ <shape-max> ] [ <shape-units> ] [ <buffer-size> ] [ <pause-threshold> ] [
<resume-threshold> ] [ <q-limit> ] [ <q-limit-type> ] ] [ TABLE_qosgrp_egress_stats <eq-qosgrp> [
TABLE_qosgrp_egress_stats_entry <eq-stat-type> <eq-stat-units> <eq-uc-stat-value> <eq-oobfc-uc-stat-value>
<eq-mc-stat-value> ] ] [ TABLE_ingress_stats_entry <ip-stat-type> <ip-stat-units> <ip-stat-value> ] [
TABLE_egress_stats_entry <ep-stat-type> <ep-stat-units> <ep-stat-value> ] [ <tx-ppp> <rx-ppp> [
TABLE_pfc_stats <cos> [ <pfc-qosgrp> ] [ <pfc-pg> ] <tx-pause-state> <tx-pause-count> <rx-pause-state>
<rx-pause-count> ] ] ] ]
```

### Syntax Description

#### 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)
<i>if_name_str</i>	(Optional) interface name
<i>dir</i>	(Optional) Direction
TABLE_queuing_interface	(Optional) Queuing information of an interface
TABLE_qosgrp_cfg	(Optional) Qos-group configuration
<i>qosgrp</i>	(Optional) Qos-group value
<i>bandwidth</i>	(Optional) WRR bandwidth
<i>priority</i>	(Optional) Priority level
<i>shape-units</i>	(Optional) Shape units
<i>q-limit</i>	(Optional) Queue limit
<i>q-limit-type</i>	(Optional) Queue limit type (S-Static, D-Dynamic, U-Unlimited)
TABLE_ingress_stats_entry	(Optional) Ingress port statistics
<i>ip-stat-type</i>	(Optional) Ingress port statistics type



<i>ip-stat-units</i>	(Optional) Ingress port statistics units
TABLE_qosgrp_egress_stats	(Optional) Qos-group egress statistics
<i>eq-qosgrp</i>	(Optional) Qos-group value
TABLE_qosgrp_egress_stats_entry	(Optional) Qos-group egress statistics entry
<i>eq-stat-type</i>	(Optional) Qos-group egress statistics type
<i>eq-stat-units</i>	(Optional) Qos-group egress statistics units
TABLE_egress_stats_entry	(Optional) Egress port statistics
<i>ep-stat-type</i>	(Optional) Egress port statistics type
<i>ep-stat-units</i>	(Optional) Egress port statistics units
TABLE_pfc_stats	(Optional) Per COS PFC statistics
<i>cos</i>	(Optional) PFC COS
<i>pfc-qosgrp</i>	(Optional) Qos-group of the given COS
<i>pfc-pg</i>	(Optional) PG of the given COS/Qos-group
<i>tx-pause-state</i>	(Optional) Tx PFC state of the given COS
<i>rx-pause-state</i>	(Optional) Rx PFC state of the given COS

#### Command Mode

- /exec

# show queuing1

```
show queuing1 [ interface <if_list> ] [ summary ] [ module <module> ] [ __readonly__ [
TABLE_queuing_interface <if_name_str> <dir> [ TABLE_qosgrp_cfg <qosgrp> [ <bandwidth> ] [ <priority>
] [ <shape-min> ] [ <shape-max> ] [ <shape-units> ] [ <buffer-size> ] [ <pause-threshold> ] [
<resume-threshold> ] [ <q-limit> ] [ <q-limit-type> ] ] [ TABLE_qosgrp_egress_stats <eq-qosgrp> [
TABLE_qosgrp_egress_stats_entry <eq-stat-type> <eq-stat-units> <eq-uc-stat-value> <eq-oobfc-uc-stat-value>
<eq-mc-stat-value> ] ] [ TABLE_ingress_stats_entry <ip-stat-type> <ip-stat-units> <ip-stat-value> ] [
TABLE_egress_stats_entry <ep-stat-type> <ep-stat-units> <ep-stat-value> ] [ <tx-ppp> <rx-ppp> [
TABLE_pfc_stats <cos> [ <pfc-qosgrp> ] [ <pfc-pg> ] <tx-pause-state> <tx-pause-count> <rx-pause-state>
<rx-pause-count> ] ] ] ]
```

## Syntax Description

### Syntax Description

show	commands to display
queuing1	Queuing related information
interface	(Optional) Interface for displaying queuing config
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
summary	(Optional) summary
<i>__readonly__</i>	(Optional)
<i>if_name_str</i>	(Optional) interface name
<i>dir</i>	(Optional) Direction
TABLE_queuing_interface	(Optional) Queuing information of an interface
TABLE_qosgrp_cfg	(Optional) Qos-group configuration
<i>qosgrp</i>	(Optional) Qos-group value
<i>bandwidth</i>	(Optional) WRR bandwidth
<i>priority</i>	(Optional) Priority level
<i>shape-units</i>	(Optional) Shape units
<i>q-limit</i>	(Optional) Queue limit
<i>q-limit-type</i>	(Optional) Queue limit type (S-Static, D-Dynamic, U-Unlimited)
TABLE_ingress_stats_entry	(Optional) Ingress port statistics
<i>ip-stat-type</i>	(Optional) Ingress port statistics type

<i>ip-stat-units</i>	(Optional) Ingress port statistics units
TABLE_qosgrp_egress_stats	(Optional) Qos-group egress statistics
<i>eq-qosgrp</i>	(Optional) Qos-group value
TABLE_qosgrp_egress_stats_entry	(Optional) Qos-group egress statistics entry
<i>eq-stat-type</i>	(Optional) Qos-group egress statistics type
<i>eq-stat-units</i>	(Optional) Qos-group egress statistics units
TABLE_egress_stats_entry	(Optional) Egress port statistics
<i>ep-stat-type</i>	(Optional) Egress port statistics type
<i>ep-stat-units</i>	(Optional) Egress port statistics units
TABLE_pfc_stats	(Optional) Per COS PFC statistics
<i>cos</i>	(Optional) PFC COS
<i>pfc-qosgrp</i>	(Optional) Qos-group of the given COS
<i>pfc-pg</i>	(Optional) PG of the given COS/Qos-group
<i>tx-pause-state</i>	(Optional) Tx PFC state of the given COS
<i>rx-pause-state</i>	(Optional) Rx PFC state of the given COS

#### Command Mode

- /exec

# show queuing burst-detect

```
show queuing burst-detect [ interface <if_name> [ queue <queue_num> ] ] [ module <module> ] [ detail ] [
__readonly__ [ TABLE_instance [ <if-str> ] [ <queue> ] [ <pipe> ] [ <threshold> ] [ <start-time> ] [ <peak>
] [ <peak-time> ] [ <end-depth> ] [ <end-time> ] [ <duration> ] ] ] ]
```

## Syntax Description

### Syntax Description

show	commands to display
queuing	Queuing related information
burst-detect	Out of Band micro-burst queue statistics
interface	(Optional) Interface
<i>if_name</i>	(Optional) interface name
queue	(Optional) Queue number for displaying statistics
<i>queue_num</i>	(Optional) Queue number
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
detail	(Optional) detailed statistics
<i>if-str</i>	(Optional) Interface name
<i>__readonly__</i>	(Optional) Read Only
TABLE_instance	(Optional) Instance
<i>queue</i>	(Optional) Queue Number
<i>pipe</i>	(Optional) XPE-A or XPE-B
<i>threshold</i>	(Optional) Threshold value in bytes
<i>start-time</i>	(Optional) Start time of burst
<i>peak</i>	(Optional) Peak depth in bytes
<i>peak-time</i>	(Optional) Peak time of burst
<i>end-depth</i>	(Optional) End depth in bytes
<i>end-time</i>	(Optional) End time of burst
<i>duration</i>	(Optional) Duration of burst

## Command Mode

- /exec

# show queuing internal snmp interface

```
show queuing internal snmp interface <ifx-in> [ __readonly__ [ TABLE_pfc_stats <ifx-out> <rx-ppp>
<tx-ppp> ] ]
```

## Syntax Description

Syntax Description		
show		Commands to display
queuing		Queuing related information
internal		Internal command
interface		Interface for displaying queuing config
snmp		snmp
<i>ifx-in</i>		Interface to display info
<i>__readonly__</i>	(Optional)	
<i>TABLE_pfc_stats</i>	(Optional)	PFC stats
<i>ifx-out</i>	(Optional)	Interface index
<i>rx-ppp</i>	(Optional)	rx-ppp
<i>tx-ppp</i>	(Optional)	tx-ppp

## Command Mode

- /exec

## show queuing internal snmp interface cos

```
show queuing internal snmp interface cos <ifx-in> <grp-in> [ __readonly__ [ TABLE_pfc_cos_stats <ifx-out>
<grp-out> <rx-stats> <tx-stats> ] ]
```

### Syntax Description

Syntax Description		
show		Commands to display
queuing		Queuing related information
internal		Internal command
interface		Interface for displaying queuing config
snmp		snmp
cos		Per port per group stats
<i>ifx-in</i>		Interface to display info
<i>grp-in</i>		priority group
<i>__readonly__</i>		(Optional)
TABLE_pfc_cos_stats		(Optional) PFC cos stats
<i>ifx-out</i>		(Optional) Interface index
<i>grp-out</i>		(Optional) Priority group
<i>rx-stats</i>		(Optional) rx-stats
<i>tx-stats</i>		(Optional) tx-stats

### Command Mode

- /exec

## show queuing pfc-queue

```
show queuing pfc-queue [ interface <if_list> ] [ module <module> ] [ detail ] [ __readonly__ <glb-wd-status>
<glb-wd-timer> <glb-wd-timer-thresh> <glb-auto-restore> <glb-fixed-restore> [ TABLE_queuing_interface
<if_name_str> [ TABLE_qosgrp_stats <eq-qosgrp> [ TABLE_qosgrp_stats_entry <q-stat-type> <q-shutdown>
<q-restored> <q-pkt-dropped> <q-aggr-pkt-dropped> ] ] [ TABLE_qosgrp_stats_summary <qosgrp-summary>
] ] ]
```

### Syntax Description

Syntax Description	
show	commands to display
queuing	Queuing related information
pfc-queue	PFC Queuing related information
interface	(Optional) Interface for displaying queuing config
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
detail	(Optional) Show detailed PFC Queuing WD information
<i>__readonly__</i>	(Optional)
<i>glb-wd-status</i>	(Optional) Global watch-dog timer status
<i>glb-wd-timer</i>	(Optional) Global watch-dog timer value in msec
<i>glb-wd-timer-thresh</i>	(Optional) Global watch-dog timer thresh value in ms
<i>glb-auto-restore</i>	(Optional) Global auto restore multiplier value
<i>glb-fixed-restore</i>	(Optional) Global fixed restore multiplier value
<i>if_name_str</i>	(Optional) interface name
TABLE_queuing_interface	(Optional) Queuing information of an interface
TABLE_qosgrp_stats	(Optional) Qos-group egress statistics
<i>eq-qosgrp</i>	(Optional) Qos-group value
TABLE_qosgrp_stats_entry	(Optional) Qos-group egress statistics entry
<i>q-stat-type</i>	(Optional) Queue stat
TABLE_qosgrp_stats_summary	(Optional) Qos-group egress statistics summary
<i>qosgrp-summary</i>	(Optional) Qos-group summary value

**Command Mode**

- /exec



# show queuing pfc-queue 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> ] ] ]
```

## Syntax Description

### 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

## 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>
]
```

### Syntax Description

#### Syntax Description

show	Show running system information
queuing	Queuing related information
pfc-queue	PFC Queuing related information
snmp	Snmp information
ifIndex	Interface index
<i>ifidx</i>	Index
<i>__readonly__</i>	(Optional) Read Only
TABLE-cpfcWatchdogIfQueueInfoTable	(Optional) SNMP table
<i>ifidx_out</i>	(Optional) Interface index out
<i>queueno_out</i>	(Optional) Queue number out
<i>q-state</i>	(Optional) Queue state
<i>q-shutdown</i>	(Optional) Number of times queue is shutdown
<i>q-restored</i>	(Optional) Number of times queue is restored
<i>q-pkt-dropped</i>	(Optional) Number of packets dropped since last shutdown
<i>q-aggr-pkt-dropped</i>	(Optional) Number of aggregate packets dropped

### 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> ] ] [ TABLE_qosgrp_stats_summary <qosgrp-summary> ] ] ]
```

### Syntax Description

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



## R Show Commands

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# show radius-cfs

```
show radius-cfs [ __readonly__ [ <distr_status> ] [ <session_status> ] [ <session_db> ] [ <merge_status> ] ]
```

## Syntax Description

Syntax Description	
<code>show</code>	Show running system information
<code>radius-cfs</code>	Show radius cfs state
<code>__readonly__</code>	(Optional)
<code>distr_status</code>	(Optional) radius distribution status
<code>session_status</code>	(Optional) current session status
<code>session_db</code>	(Optional) status of session db
<code>merge_status</code>	(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

#### Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>retransmissionCount</i>	(Optional) Retransmission count when there is no server response
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Radius global source interface
<i>global_idle_time</i>	(Optional) Radius global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of radius servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>auth_port</i>	(Optional) Authentication port used for this server
<i>acct_port</i>	(Optional) Accounting Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server
<i>retries</i>	(Optional) Retry count for individual servers
<i>host0</i>	(Optional) DNS name or IP address
<i>auth_port</i>	(Optional) RADIUS server's port for authentication
<i>acct_port</i>	(Optional) RADIUS server's port for accounting

---

*shared\_key* (Optional) RADIUS shared secret

---

*test\_password* (Optional) User password in test packets

---

**Command Mode**

- /exec

## show radius-server

```
show radius-server { <host0> } [ __readonly__ { <host1> } <auth_port> <acct_port> <shared_key>
<idle_time><test_username> <test_password> ]
```

### Syntax Description

Syntax	Description
show	Show running system information
radius-server	Show RADIUS configuration information
<i>host0</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>host1</i>	(Optional) DNS name or IP address
<i>auth_port</i>	(Optional) RADIUS server's port for authentication
<i>acct_port</i>	(Optional) RADIUS server's port for accounting
<i>shared_key</i>	(Optional) RADIUS shared secret
<i>test_password</i>	(Optional) User password in test packets

### Command Mode

- /exec

# show radius-server directed-request

```
show radius-server directed-request [ __readonly__ { <radius_directedRequest_status> } ]
```

## Syntax Description

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

#### 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
<i>TABLE_group</i>	(Optional)
<i>group_name</i>	(Optional) name of the group
<i>TABLE_server</i>	(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

#### Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
sorted	Show RADIUS servers sorted by name
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>retransmissionCount</i>	(Optional) Retransmission count when there is no server response
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Radius global source interface
<i>global_idle_time</i>	(Optional) Radius global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of radius servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>auth_port</i>	(Optional) Authentication port used for this server
<i>acct_port</i>	(Optional) Accounting Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server
<i>retries</i>	(Optional) Retry count for individual servers

### Command Mode

- /exec

## show radius-server statistics

```
show radius-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } } ]
```

### Syntax Description

#### 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_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 radius status

```
show radius status [ __readonly__ [ <distr_status> ] [ <session_status> ] [ <session_owner> ] [ <session_db> ] [ <last_operation> ] [ <last_operation_status> ] [ <fail_code> ] ]
```

### Syntax Description

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

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)

---

*kern\_uptm\_secs* (Optional)

---

*asup\_uptm\_days* (Optional)

---

*asup\_uptm\_hrs* (Optional)

---

*asup\_uptm\_mins* (Optional)

---

*asup\_uptm\_secs* (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

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

## Command Mode

- /exec

# show resource

```
show resource [ <res-mgr-res-known-name> ] [ hidden-too | with-flags ] [ __readonly__ {
TABLE_vdc_resource_local <res_name> <min> <max> <used> <unused> <free> } ]
```

## Syntax Description

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
<i>__readonly__</i>	(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 resource internal event-history errors

show resource internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
resource		Show resource configuration for VDC
internal		Show internal res_mgr information
event-history		Show various event logs of Res_mgrs
errors		Show error logs of RES_MGR

## Command Mode

- /exec

# show resource internal event-history msgs

show resource internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
resource		Show resource configuration for VDC
internal		Show internal res_mgr information
event-history		Show various event logs of Res_mgrs
msgs		Show various message logs of RES_MGR

## Command Mode

- /exec



# show resource internal info

```
show [ vdc ] resource internal info [ { resource [ <res-mgr-res-known-name-all> [ vdc <vdc_id> ] ] } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
vdc		(Optional) Show Virtual Device Contexts
resource		Show resource configuration for VDC
internal		Show internal res_mgr information
info		Show internal data structure information
resource		(Optional) Show resource configuration for VDC
<i>res-mgr-res-known-name-all</i>		(Optional) Resource name
<i>vdc_id</i>		(Optional) Enter Virtual Device Context <vdc-id>

## Command Mode

- /exec

# show resource internal mem-stats

show resource internal mem-stats [ detail ]

## Syntax Description

---

### Syntax Description

---

show	Show running system information
resource	Show resource configuration for VDC
internal	Show internal res_mgr information
mem-stats	Show memory allocation statistics of RES_MGR
detail	(Optional) Show detail memstats for F_Port Server

---

## 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

### 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)
<i>TABLE_rmon_alarm</i>	(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)
<i>TABLE_rmon_event</i>	(Optional)
<i>ev-alarum-str</i>	(Optional)
<i>ev-desc-str</i>	(Optional)
<i>ev-fir-cause</i>	(Optional)
<i>last-fired</i>	(Optional)
<i>TABLE_rmon_hcala</i>	(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_interface> ] [ <permit_vrf> ] TABLE_rule <rule_num> <rule_action> { <rule_permission> | <rule_permission_mds> } [ <rule_featuretype> ] [ <rule_entity> ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
role		Show role configuration
name		(Optional) Enter the role name
<i>arg3</i>		(Optional) Enter the role name
<i>__readonly__</i>		(Optional)
TABLE_role		(Optional)
<i>role_name</i>		(Optional)
<i>role_description</i>		(Optional)
<i>attribute_scope</i>		(Optional)
<i>permit_vsan</i>		(Optional)
<i>permit_vlan</i>		(Optional)
<i>permit_interface</i>		(Optional)
<i>permit_vrf</i>		(Optional)
TABLE_rule		(Optional)
<i>rule_num</i>		(Optional)
<i>rule_action</i>		(Optional)
<i>rule_permission</i>		(Optional)
<i>rule_permission_mds</i>		(Optional)
<i>rule_featuretype</i>		(Optional)
<i>rule_entity</i>		(Optional)

## Command Mode

- /exec

# show role feature-group

```
show role feature-group [ name <arg4> ] [ detail ] [ __readonly__ TABLE_role_feature_group
<feature_group_name> TABLE_role_feature <feature_name> [ TABLE_role_feature_rule <feature_rule> ]
]
```

## Syntax Description

### 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

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

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

Syntax Description		
	show	Show running system information
	rollback	show rollback
	status	show status of last rollback operation
	<i>__readonly__</i>	(Optional) Read only
	<i>last_operation</i>	(Optional) last operation
	<i>rollback_type</i>	(Optional) rollback type
	<i>name</i>	(Optional) name
	<i>start_time</i>	(Optional) start time
	<i>end_time</i>	(Optional) end time
	<i>operation_status</i>	(Optional) operation status

## Command Mode

- /exec

# show route-map

```
show route-map [ <route-map-name> | <route-map-cfg-name> ] [ __readonly__ TABLE_rmap <name> <seq>
<action> [ <descript> ] [ <continue> ] [ { TABLE_rmap_match <match_type> <match_stmt> } ] [ {
TABLE_rmap_set <set_type> <set_stmt> } ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
route-map	Route-map information
<i>route-map-name</i>	(Optional) Route-map name
<i>route-map-cfg-name</i>	(Optional) Known route-map name
<i>__readonly__</i>	(Optional)
TABLE_rmap	(Optional)
TABLE_rmap_match	(Optional)
TABLE_rmap_set	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>descript</i>	(Optional)
<i>continue</i>	(Optional)
<i>match_type</i>	(Optional)
<i>match_stmt</i>	(Optional)
<i>set_type</i>	(Optional)
<i>set_stmt</i>	(Optional)

## Command Mode

- /exec

## show route-map pbr-statistics

```
show route-map { <pbr_rmap_name> | <pbr_rmap_cfg_name> } pbr-statistics [ __readonly__ <tag> <action>
<seq> <pbr_pkt_count> <dflt_rtg_pkt_count> ]
```

### Syntax Description

Syntax Description		
show		Show running system information
route-map		Route-map information
<i>pbr_rmap_name</i>		Route-map name
<i>pbr_rmap_cfg_name</i>		Known route-map name
pbr-statistics		PBR statistics
<i>__readonly__</i>		(Optional)
<i>tag</i>		(Optional)
<i>action</i>		(Optional)
<i>seq</i>		(Optional)
<i>pbr_pkt_count</i>		(Optional)
<i>dflt_rtg_pkt_count</i>		(Optional)

### Command Mode

- /exec

# show routing-context

show routing-context

## Syntax Description

Syntax	Description
show	Show running system information
routing-context	Display the current routing context

## Command Mode

- /exec

# show routing-privilege

show routing-privilege

## Syntax Description

Syntax	Description
show	Show running system information
routing-privilege	Display the current privilege level

## Command Mode

- /exec

## show routing clients

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] clients [ <client> | <protocol> ] [ __readonly__ { TABLE_client <client_name>
<pib_index> <epid> [ <mts_sap> ] [ <mts_sap_str> ] <mru_cache_hits> <mru_cache_misses> <pib_stale_time>
<pss_created> [ <bad_l3vm_table_refcount> ] [ <pib_stale_timer> ] [ { TABLE_nib_node
<uribtibtype_contextname> [ <all_igp> ] [ <self> ] [ <all> ] [ <unib_notify_mask> ] <routes> <rnhs> <labels>
[ <convg_req_mask> ] [ <convg_send_mask> ] [ <utib_state> ] [ <pending_timer> ] [ <urib_state_invalid>
} ] [ { TABLE_msgs_rcvd <urib_mtype_str> <upib_rcvd> } ] [ { TABLE_msgs_sent <urib_mtype_str>
<upib_sent> } ] ] ]
```

### Syntax Description

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>plib_stale_time</i>	(Optional)
<i>pss_created</i>	(Optional)
<i>bad_l3vm_table_refcount</i>	(Optional)
<i>plib_stale_timer</i>	(Optional)
TABLE_nib_node	(Optional)
<i>uribtibtype_contextname</i>	(Optional)
<i>all_igp</i>	(Optional)
<i>self</i>	(Optional)
<i>all</i>	(Optional)
<i>unib_notify_mask</i>	(Optional)
<i>routes</i>	(Optional)
<i>rnhs</i>	(Optional)
<i>labels</i>	(Optional)
<i>convg_req_mask</i>	(Optional)
<i>convg_send_mask</i>	(Optional)
<i>utib_state</i>	(Optional)
<i>pending_timer</i>	(Optional)
<i>urib_state_invalid</i>	(Optional)
TABLE_msgs_rcvd	(Optional)
<i>urib_mtype_str</i>	(Optional)
<i>upib_rcvd</i>	(Optional)
TABLE_msgs_sent	(Optional)
<i>urib_mtype_str</i>	(Optional)
<i>upib_sent</i>	(Optional)

**Command Mode**

- /exec

## show routing event-history

```
show routing [ ip | ipv4 ] [ unicast ] [ internal ] event-history { statistics | msgs | { { add-route | cli | delete-route
| detail | dme | errors | general | ha | loop-detection | modify-route | notifications | recursive-next-hop | summary
| ufdm | ufdm-detail | ufdm-summary } [ filter [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ client
{ <client> | <protocol> } ] [ prefix-list <pxlist-name> ] ] } }
```

### Syntax Description

#### 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



<i>ufdm-detail</i>	UFDM Detail
<i>ufdm-summary</i>	UFDM Summary
<i>filter</i>	(Optional) Filter event log
<i>vrf</i>	(Optional) Filter VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>vrf-all</i>	(Optional) Filter for all VRFs
<i>client</i>	(Optional) Filter by client
<i>client</i>	(Optional) Filter by single urib client
<i>protocol</i>	(Optional) Filter by single urib client
<i>prefix-list</i>	(Optional) Filter by IPv4 prefix-list
<i>pfxlist-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> ] [ <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

#### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hash	Display load-balancing hash information
<i>source</i>	Source IPv4 address of unicast flow or group address for multicast flow
<i>dest</i>	Destination IPv4 address of unicast flow or source address for multicast flow
<i>src-port</i>	(Optional) Source-port
<i>dest-port</i>	(Optional) Destination-port
in-interface	(Optional) Incoming Interface for Packet. Option valid on Tomahawk platform only
<i>in-interface</i>	(Optional) Interface Name
ip-proto	(Optional) IP Protocol information for the packet
<i>ip-proto</i>	(Optional) IP Protocol information for the packet
module	(Optional) Module

<i>module-id</i>	(Optional) Module
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_hashpath	(Optional)
<i>mcast</i>	(Optional)
<i>hashpath</i>	(Optional)
<i>hash-val</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pref</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)
<i>type</i>	(Optional)
<i>tag</i>	(Optional)
<i>stale</i>	(Optional)
<i>unres</i>	(Optional)
<i>hidden</i>	(Optional)

---

*stale-label* (Optional)

---

**Command Mode**

- /exec

## show routing hidden-nh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] hidden-nh [ __readonly__ <uribtibtype_contextname> [ <utibtibtype_topologyname> ]
{ TABLE_hidden_nh <hidden_nh_uhn_prefix> <hidden_nh_uhn_mask_len> <pib> <rnh> <rnh_mask_len>
} ]
```

### Syntax Description

Syntax Description		
show		Show running system information
routing		Display routing information
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
vrf-all		(Optional) Display information for all VRFs
ip		(Optional) Display IP information
ipv4		(Optional) Display IP information
unicast		(Optional) Display unicast information
topology		(Optional) Display per-topology information
<i>topology-name</i>		(Optional) topology name
hidden-nh		Display hidden next-hop information
<i>__readonly__</i>		(Optional)
<i>uribtibtype_contextname</i>		(Optional)
<i>utibtibtype_topologyname</i>		(Optional)
TABLE_hidden_nh		(Optional)
<i>hidden_nh_uhn_prefix</i>		(Optional)
<i>hidden_nh_uhn_mask_len</i>		(Optional)
<i>pib</i>		(Optional)
<i>rnh</i>		(Optional)
<i>rnh_mask_len</i>		(Optional)

### Command Mode

- /exec

# show routing internal

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] internal [ force-update ]
```

## Syntax Description

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
internal		Commands for internal use
force-update		(Optional) Force update of internal state

## Command Mode

- /exec

# show routing internal library-info

show routing [ ip | ipv4 ] [ unicast ] internal library-info

## Syntax Description

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	Commands for internal use
library-info	Show various event logs of library

## Command Mode

- /exec

# show routing internal mem-stats

show routing [ ip | ipv4 ] [ unicast ] internal mem-stats [ all | shared ] [ no-libs ] [ detail ]

## Syntax Description

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	Commands for internal use
mem-stats	Show memory allocation statistics
all	(Optional) Display all memory information
shared	(Optional) Display shared memory information
no-libs	(Optional) Exclude libraries
detail	(Optional) Display detailed information

## Command Mode

- /exec



# show routing internal pending-routes

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] internal pending-routes [ summary ]
```

## Syntax Description

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
	internal	Commands for internal use
	pending-routes	Display details of pending ufdm updates
	summary	(Optional) Summary of ufdm updates

## Command Mode

- /exec

# show routing internal statistics

```
show routing [ ip | ipv4 ] internal statistics [ route-summary [ [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ] ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
routing	Display routing information	
ip	(Optional) Display IP information	
ipv4	(Optional) Display IP information	
internal	Commands for internal use	
statistics	Display IP RIB internal statistics	
route-summary	(Optional) Display IP RIB internal Route Summary stats	
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	

## Command Mode

- /exec



<i>pib_index</i>	(Optional)
<i>pib_state</i>	(Optional)
<i>pib_id</i>	(Optional)
<i>multicast_or_unicast_pib</i>	(Optional)
<i>mru_cache_hits</i>	(Optional)
<i>mru_cache_misses</i>	(Optional)
<i>mts_sap</i>	(Optional)
<i>mts_sap_str</i>	(Optional)
<i>bad_l3vm_table_refcount</i>	(Optional)
<i>pib_stale_time</i>	(Optional)
TABLE_nib_node	(Optional)
<i>u6ribtibtype_contextname</i>	(Optional)
<i>routes</i>	(Optional)
<i>rnhs</i>	(Optional)
TABLE_notifeee_mask	(Optional)
<i>u6pib_name</i>	(Optional)
<i>index</i>	(Optional)
<i>u6tib_state</i>	(Optional)
<i>pending_timer</i>	(Optional)
<i>u6rib_state_invalid</i>	(Optional)
<i>u6nib_notifier_all</i>	(Optional)
TABLE_notify_rcd	(Optional)
<i>notify_rcd_name</i>	(Optional)
<i>notify_rcd_handle</i>	(Optional)
<i>notifier_pib_u6pib_index</i>	(Optional)
TABLE_notiffee_nib	(Optional)
<i>notiffee_pib_u6pib_name</i>	(Optional)
<i>u6nib_notify_handle</i>	(Optional)
TABLE_ready_client_event_queue	(Optional)

<i>queue_name</i>	(Optional)
<i>queue_count</i>	(Optional)
TABLE_client_event	(Optional)
<i>event</i>	(Optional)
<i>use_buf</i>	(Optional)
<i>sched</i>	(Optional)
<i>resend</i>	(Optional)
<i>buf</i>	(Optional)
<i>state</i>	(Optional)
TABLE_buffer_rqst_client_event_queue	(Optional)
<i>queue_name</i>	(Optional)
<i>queue_count</i>	(Optional)
TABLE_client_event	(Optional)
<i>event</i>	(Optional)
<i>use_buf</i>	(Optional)
<i>sched</i>	(Optional)
<i>resend</i>	(Optional)
<i>buf</i>	(Optional)
<i>state</i>	(Optional)
<i>update_ack_queue_count</i>	(Optional)
TABLE_update_ack	(Optional)
<i>update_ack</i>	(Optional)
<i>update_ack_data</i>	(Optional)
<i>update_ack_type</i>	(Optional)
<i>update_ack_xid</i>	(Optional)
TABLE_route_buffer_used_queue	(Optional)
TABLE_clt_buf	(Optional)
TABLE_rnh_buffer_used_queue	(Optional)
TABLE_clt_buf	(Optional)

---

TABLE_msgs_rcvd	(Optional)
-----------------	------------

---

TABLE_msgs_sent	(Optional)
-----------------	------------

---

**Command Mode**

- /exec

# show routing ipv6 event-history

show routing ipv6 [ unicast ] [ internal ] event-history { statistics | msgs | am | cli | detail | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary }

## Syntax Description

Syntax Description		
show	Show running system information	
routing	Display routing information	
ipv6	Display IPv6 information	
unicast	(Optional) Display unicast information	
internal	(Optional) Commands for internal use	
event-history	Show routing event log	
statistics	Show routing event log Statistics	
msgs	Show routing message event log	
am	AM	
cli	CLI	
detail	Detail	
errors	Errors	
general	General	
ha	HA	
lfe	LFE	
recursive-next-hop	Recursive next hop	
summary	Summary	
ufdm	UFDM	
ufdm-detail	UFDM Detail	
ufdm-summary	UFDM Summary	

## Command Mode

- /exec

## show routing ipv6 hash

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] hash [ mpls <ipv6-prefix> [ eos ] ] <source> <dest> [ ip-proto <ip-proto> ] [ <src-port> <dest-port> ] [ in-interface <in-interface> ] [ module <module-id> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> [ <hash-type> ] [ <mcast> ] [ <hashpath> ] TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <ifname> ] <pref> <metric> <uptime> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <hidden> ] ]
```

### Syntax Description

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)



<i>TABLE_vrf</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>hash-type</i>	(Optional)
<i>mcast</i>	(Optional)
<i>hashpath</i>	(Optional)
<i>TABLE_prefix</i>	(Optional)
<i>ipprefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
<i>TABLE_path</i>	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)
<i>type</i>	(Optional)
<i>stale</i>	(Optional)
<i>hidden</i>	(Optional)

**Command Mode**

- /exec

## show routing ipv6 hidden-nh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name>
] hidden-nh [ __readonly__ <uribtibtype_contextname> { TABLE_hidden_nh <nh> <nh-iod>
<hidden_nh_uhn_prefix> <hidden_nh_uhn_mask_len> <pib> <rn timer> <rn timer_mask_len> } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hidden-nh	Display hidden next-hop information
<i>__readonly__</i>	(Optional)
<i>uribtibtype_contextname</i>	(Optional)
TABLE_hidden_nh	(Optional)
<i>nh</i>	(Optional)
<i>nh-iod</i>	(Optional)
<i>hidden_nh_uhn_prefix</i>	(Optional)
<i>hidden_nh_uhn_mask_len</i>	(Optional)
<i>pib</i>	(Optional)
<i>rn timer</i>	(Optional)
<i>rn timer_mask_len</i>	(Optional)

### Command Mode

- /exec

## show routing ipv6 internal

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] internal [ force-update ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ]
```

### Syntax Description

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
internal		Commands for internal use
force-update		(Optional) Force update of internal state

### Command Mode

- /exec

# show routing ipv6 internal buffers

show routing ipv6 [ unicast ] internal buffers

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	routing	Display routing information
	ipv6	Display IPv6 information
	unicast	(Optional) Display unicast information
	internal	Commands for internal use
	buffers	Allocated IPC Buffers

## Command Mode

- /exec

# show routing ipv6 internal distribution

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] internal distribution
```

## Syntax Description

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
internal		Commands for internal use
distribution		Display u6rib distribution information

## Command Mode

- /exec

## show routing ipv6 internal distribution rnh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] internal distribution rnh
```

### Syntax Description

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
internal		Commands for internal use
distribution		Display u6rib distribution information
rnh		Display u6rib RNH notifications information

### Command Mode

- /exec

# show routing ipv6 internal library-info

show routing ipv6 [ unicast ] internal library-info

## Syntax Description

Syntax Description		
show	Show running system information	
routing	Display routing information	
ipv6	Display IPv6 information	
unicast	(Optional) Display unicast information	
internal	Commands for internal use	
library-info	Show various event logs of library	

## Command Mode

- /exec

# show routing ipv6 internal mem-stats

show routing ipv6 [ unicast ] internal mem-stats [ all | shared ] [ no-libs ] [ detail ]

## Syntax Description

Syntax Description	Description
show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
internal	Commands for internal use
mem-stats	Show memory allocation statistics
all	(Optional) Display all memory information
shared	(Optional) Display shared memory information
no-libs	(Optional) Exclude libraries
detail	(Optional) Display detailed information

## Command Mode

- /exec



## show routing ipv6 internal statistics

```
show routing ipv6 internal statistics [ route-summary [ [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }
]]]
```

### Syntax Description

Syntax Description		
show		Show running system information
routing		Display routing information
ipv6		Display IPv6 information
internal		Commands for internal use
statistics		Display IPv6 RIB internal statistics
route-summary	(Optional)	Display IPv6 RIB internal Route Summary stats
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

### Command Mode

- /exec

# show routing ipv6 internal ufdm

show routing ipv6 [ unicast ] internal ufdm

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	routing	Display routing information
	ipv6	Display IPv6 information
	unicast	(Optional) Display unicast information
	internal	Commands for internal use
	ufdm	UFDM Statistics

## 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

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_rhfs <ctx-name>
<user-nodes> <total-nodes> <elem-size> } ]
```

### Syntax Description

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_rhfs</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 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

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 <nhlfe-index> <nh-label> } <nhlfe-is-vpn> <nhlfe-owner-index> ] <total-entries> } ]
```

### Syntax Description

Syntax Description	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>nhlfe-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

#### 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
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(Optional)
<i>uptime</i>	(Optional)
TABLE_clients	(Optional)
<i>client-req</i>	(Optional)
<i>client-pend</i>	(Optional)

### Command Mode

- /exec

## show routing memory estimate

```
show routing [ ip | ipv4 ] [ unicast ] memory estimate [ routes <route-count> [ next-hops <nh-count> ] [
next-hops-v6 <nh6-count> ] ] [ labels ] [ __readonly__ <current_max_mb> <current_max_routes>
<urib_max_nh> <used_mb> <route_stats_alloc_count> <nhs> <configured_max_mb>
<configured_max_routes> <urib_routes_max_nh> [ <estimate_mb> <estimate_routes> <estimate_nhs>
<estimate_with_mvpn_mb> <estimate_with_ospf_mb> <estimate_with_eigrp_mb> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
memory	Display urib memory information
estimate	Display urib memory estimate
routes	(Optional) Display urib memory estimate for # routes
<i>route-count</i>	(Optional) Number of routes
next-hops	(Optional) Display urib memory estimate for # next-hops per route
<i>nh-count</i>	(Optional) Number of next-hops per route
next-hops-v6	(Optional) Display urib memory estimate for # V6 next-hops per route
<i>nh6-count</i>	(Optional) Number of V6 next-hops per route
labels	(Optional) When the routes are associated with next hop labels
<i>__readonly__</i>	(Optional)
<i>current_max_mb</i>	(Optional)
<i>current_max_routes</i>	(Optional)
<i>urib_max_nh</i>	(Optional)
<i>used_mb</i>	(Optional)
<i>route_stats_alloc_count</i>	(Optional)
<i>nhs</i>	(Optional)
<i>configured_max_mb</i>	(Optional)

---

*configured\_max\_routes* (Optional)

---

*urib\_routes\_max\_nh* (Optional)

---

*estimate\_mb* (Optional)

---

*estimate\_routes* (Optional)

---

*estimate\_nhs* (Optional)

---

*estimate\_with\_mvpn\_mb* (Optional)

---

*estimate\_with\_ospf\_mb* (Optional)

---

*estimate\_with\_eigrp\_mb* (Optional)

---

### Command Mode

- /exec

## show routing memory statistics

```
show routing [ ip | ipv4 ] [ unicast ] memory statistics [ __readonly__ { TABLE_shrd_mem <ubuf-alloc>
<ubuf-high-water> <ubuf-max> <ubuf-numalloc> <rbuf-alloc> <rbuf-high-water> <rbuf-max> <rbuf-numalloc>
<slbs-alloc> <slbs-high-water> <slbs-max> <slbs-numalloc> } { TABLE_urib_slabs <slab-name>
<slab-alloc-count> <slab-max-allocs> <slab-size> } { TABLE_urib_blks <block-name> <block-count>
<max-blocks> <blks-count> } { TABLE_urib_routes_rnhs <ctx-name> <user-node> <total-node> <elem-size>
} ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
memory	Display urib memory information
statistics	Display urib memory statistics
<i>__readonly__</i>	(Optional)
<i>TABLE_shrd_mem</i>	(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)
<i>TABLE_urib_slabs</i>	(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 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

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)

---

*total-entries* (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

#### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
recursive-next-hop	Display recursive next-hop table
<i>topology-name</i>	(Optional) topology name
<i>ip-addr</i>	(Optional) Display single recursive virtual next-hop
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>uptime</i>	(Optional)
TABLE_clients	(Optional)
<i>clientname</i>	(Optional)

**Command Mode**

- /exec

# show routing unresolved-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] unresolved-next-hop { [ <ip-addr> [ detail ] ] [ summary ] } [ vrf { <vrf-name> |
<vrf-known-name> | <vrf-all> } ]
```

## Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	unresolved-next-hop	Display unresolved next-hop list
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	vrf-all	(Optional) Display information for all VRFs
	ip	(Optional) Display IP information
	ipv4	(Optional) Display IP information
	unicast	(Optional) Display unicast information
	topology	(Optional) Display per-topology information
	<i>topology-name</i>	(Optional) topology name
	<i>ip-addr</i>	(Optional) Display single unresolved next-hop
	detail	(Optional) Display prefixes for unresolved next-hop
	summary	(Optional) Show summary of resolve buffers

## Command Mode

- /exec

## show routing vxlan-hash peer-ip

```
show routing vxlan-hash peer-ip <peer-ip> <inner-src-mac> <inner-dst-mac> [ <inner-src-ip> <inner-dst-ip>
] [ ip-proto <ip-proto> ] [ <inner-src-port> <inner-dst-port> ] [ module <module-id> ]
```

### Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	vxlan-hash	Display load-balancing information for vxlan
	peer-ip	Peer IP address
	<i>peer-ip</i>	Peer IP
	<i>inner-src-mac</i>	Inner Source MAC Address
	<i>inner-dst-mac</i>	Inner Destination MAC Address
	<i>inner-src-ip</i>	(Optional) Inner Source IP
	<i>inner-dst-ip</i>	(Optional) Inner Destination IP
	ip-proto	(Optional) IP Protocol information for the packet
	<i>ip-proto</i>	(Optional) IP Protocol information for the packet
	<i>inner-src-port</i>	(Optional) Inner Source-port
	<i>inner-dst-port</i>	(Optional) Inner Destination-port
	module	(Optional) Module
	<i>module-id</i>	(Optional) Module

### Command Mode

- /exec

# show running-config

show running-config

## Syntax Description

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

---

### 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 aclmgr

show running-config aclmgr [ all | inactive-if-config ]

## Syntax Description

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

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

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

Syntax Description		
	show	Show running system information
	running-config	Current operating configuration
	all	Current operating configuration with defaults

## Command Mode

- /exec

# show running-config amt

show running-config amt [ all ]

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operationg configuration
amt	Display amt information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config arp

show running-config arp [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
arp		Display arp information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config bfd

show running-config bfd [ all ]

## Syntax Description

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

---

### 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

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

---

### Syntax Description

---

show	show running-cfg
running-config	show running system information
callhome	Display callhome configuration
all	(Optional) show running config with defaults

---

## Command Mode

- /exec



# show running-config cdp

show running-config cdp [ all ]

## Syntax Description

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

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

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

---

### 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

Syntax Description		
show		Show running-cfg
running-config		show running configuration
config-profile		Display port-profile configuration
<i>all_conf_profile_name</i>	(Optional)	Enter the name of the profile

## Command Mode

- /exec

# show running-config controller

show running-config controller

## Syntax Description

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

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 cts

show running-config cts

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operating configuration
cts	Show CTS information

## Command Mode

- /exec



# show running-config dhcp

show running-config dhcp [ all ]

## Syntax Description

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

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

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

---

### Syntax Description

---

show	show running-cfg
running-config	show running system information
dot1x	Display dot1x configuration
all	(Optional) show running config with defaults

---

## Command Mode

- /exec

# show running-config eem

show running-config eem

## Syntax Description

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

Syntax Description		
show		Show running system information
running-config		Current operating 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

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

---

### Syntax Description

show	Show running system information
running-config	Current operating 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

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

Syntax Description		
show		Show running system information
running-config		Current operating configuration
expand-port-profile		Expand port profile

## Command Mode

- /exec

# show running-config explicit

show running-config explicit

## Syntax Description

Syntax Description	
show	Show running system information
running-config	Current operating configuration
explicit	show explicitly configured running configuration for all interfaces

## Command Mode

- /exec

# show running-config fabric forwarding

show running-config fabric forwarding [ all ]

## Syntax Description

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 glbp

show running-config glbp [ all ]

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Show the system running information
glbp	Show GLBP running configuration
all	(Optional) Show GLBP running configuration defaults

## Command Mode

- /exec

# show running-config hsrp

show running-config hsrp [ all ]

## Syntax Description

Syntax Description		
show		Show system information
running-config		System running configuration
hsrp		HSRP running configuration
all		(Optional) Show HSRP running configuration defaults

## Command Mode

- /exec

# show running-config icmpv6

```
show running-config icmpv6 [ all ]
```

## Syntax Description

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

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

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

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

Syntax Description		
show		Show running system information
running-config		Current operating configuration
interface		Interface configuration
<i>if0</i>		interface type and number in module/slot format
membership		(Optional) Show membership information
expand-port-profile		(Optional) Expand port profile

## Command Mode

- /exec

# show running-config interface defaults

show running-config interface <if0> defaults

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
<i>if0</i>	interface type and number in module/slot format
defaults	show default running config

## Command Mode

- /exec

# show running-config interface explicit

show running-config interface <if0> explicit

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
interface		Interface configuration
<i>if0</i>		interface type and number in module/slot format
explicit		show default running config

## Command Mode

- /exec

# show running-config ip

show running-config ip [ all ]

## Syntax Description

---

**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

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

<b>Syntax Description</b>	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

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

---

**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

Syntax Description		
show		Show running system information
running-config		Current operationing 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

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

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

---

**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

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 mmode

show running-config mmode [ all ]

## Syntax Description

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

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

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

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

Syntax Description		
show	Show running system information	
mpls	Configure MPLS settings	
strip	Stripping of MPLS headers	
running-config	System running configuration	
all	(Optional) Show running configuration for STRIPCL with defaults	

## Command Mode

- /exec

# show running-config mpls traffic-eng

show running-config mpls traffic-eng [ all ]

## Syntax Description

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

---

### Syntax Description

show	Show running system information
running-config	Current operating configuration
msdp	Display msdp information
all	(Optional) Display running config with defaults clis

---

## Command Mode

- /exec

# show running-config nat

show running-config nat [ all ]

## Syntax Description

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

---

### Syntax Description

---

show	Show running system information
running-config	Current operating configuration
nbm	show running config for Non Blocking Multicast

---

## Command Mode

- /exec



# show running-config netflow

show running-config { netflow | nfm } [ all ]

## Syntax Description

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

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

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

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 openflow

show running-config openflow [ all ]

## Syntax Description

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

---

### 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

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

---

**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

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

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

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

### Syntax Description

show	Show running system information
running-config	Current operationg configuration
pim6	Display pim6 information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config port-profile

show running-config port-profile [ <all\_profile\_name> ]

## Syntax Description

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

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

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

Syntax Description	
show	show running-cfg
running-config	show running system information
radius	Display radius configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec



# show running-config res\_mgr

show running-config res\_mgr

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operating configuration
res_mgr	Show resource configuration for VDC

## Command Mode

- /exec

# show running-config rip

show running-config rip [ all ]

## Syntax Description

---

**Syntax Description**

show	Show running system information
running-config	Current operating configuration
rip	Display rip information
all	(Optional) Display running config with defaults clis

---

**Command Mode**

- /exec

# show running-config rpm

show running-config rpm [ all ]

## Syntax Description

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

Syntax Description		
show		Show running system information
running-config		Current operating configuration
rsvp		Display RSVP status

## Command Mode

- /exec

# show running-config section

show running-config section <section>

## Syntax Description

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

Syntax Description	
show	show running-cfg
running-config	show running system information
security	Display security configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config services

show running-config services

## Syntax Description

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

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

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

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

Syntax Description		
show		show running-cfg
running-config		show running system information
sla		Service Level Agreement (SLA)
sender		Show information about sla-sender

## Command Mode

- /exec

# show running-config snmp

show running-config snmp [ all ]

## Syntax Description

---

### 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

Syntax Description		
show		Show running system information
running-config		Current operating configuration
spanning-tree		Show spanning tree information
<i>all</i>		(Optional)
interface		(Optional) Specify an interface as a target for the command
<i>interface_range</i>		(Optional)

## Command Mode

- /exec

# show running-config switch

show running-config { switch-profile | include-switch-profile }

## Syntax Description

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

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

---

### Syntax Description

---

show	show running-cfg
running-config	show running system information
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

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

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

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

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

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

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

Syntax	Description
show	Show running system information
running-config	Current operating configuration
vlan	Vlan commands

## Command Mode

- /exec

# show running-config vmtracker

show running-config vmtracker [ all ]

## Syntax Description

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

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

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

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

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

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

Syntax Description		
show		Show running system information
running-config		Current operating configuration
vshd		Show running config for vshd

## Command Mode

- /exec



## S Show Commands

---

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# show sampler

```
show sampler [ name ] [ <samplername> ] [ __readonly__ <sampler> <desc> <use_count> <sample_M>
<sample_N> <sample_P> ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	sampler	Show Sampler Configuration
	name	(Optional) Show a specific Sampler
	<i>samplername</i>	(Optional) Specify a sampler
	<i>__readonly__</i>	(Optional)
	<i>sampler</i>	(Optional)
	<i>desc</i>	(Optional)
	<i>use_count</i>	(Optional)
	<i>sample_M</i>	(Optional)
	<i>sample_N</i>	(Optional)
	<i>sample_P</i>	(Optional)

## Command Mode

- /exec



### Command Mode

- /exec

# show scheduler internal mem-stats

show scheduler internal mem-stats

## Syntax Description

Syntax	Description
show	Show running system information
scheduler	Show scheduler config or data
internal	Display scheduler internal info
mem-stats	Display scheduler memory info

## Command Mode

- /exec



# show scheduler job

```
show scheduler job [ name <s0> ] [ __readonly__ [ { TABLE_schedulerjobs <jobname> [ <jobdata> } ] ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
scheduler		Show scheduler config or data
job		Display job information
name		(Optional) Specify the name of job
s0		(Optional) Specify the job name
__readonly__		(Optional)
TABLE_schedulerjobs		(Optional) schedulerjobs
jobname		(Optional) job name
jobdata		(Optional) job data

## Command Mode

- /exec

# show scheduler logfile

```
show scheduler logfile [ __readonly__ [ { TABLE_joblog <jobname> [ <jobstatus> ] [ <schedulename> ] [
<scheduleusername> ] [ <completiontime> ] [ <joboutput> ] } ] ]
```

## Syntax Description

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 sflow

show sflow

## Syntax Description

---

### Syntax Description

---

`show` Show running system information

---

`sflow` Display sFlow global configuration

---

## Command Mode

- /exec

# show sflow statistics

```
show sflow statistics [ __readonly__ <total-packets> <total-samples> <processed-samples> <dropped-samples>
<dropped-sflow-samples> <sent-datagrams> <dropped-datagrams> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
sflow		Display sFlow global configuration
statistics		Display sFlow statistics
<i>__readonly__</i>	(Optional)	Read only
<i>total-packets</i>	(Optional)	Total Packets
<i>total-samples</i>	(Optional)	Total Samples
<i>processed-samples</i>	(Optional)	Processed Samples
<i>dropped-samples</i>	(Optional)	Dropped Samples
<i>dropped-sflow-samples</i>	(Optional)	Dropped sflow Samples
<i>sent-datagrams</i>	(Optional)	Sent Datagrams
<i>dropped-datagrams</i>	(Optional)	Dropped Datagrams

## Command Mode

- /exec

# show snapshots

show snapshots [ *\_\_readonly\_\_* *TABLE\_snapshot* <snap\_name> <snap\_ctime> <description> ]

## Syntax Description

Syntax	Description
show	Show running system information
snapshots	Snapshots present on the switch
<i>__readonly__</i>	(Optional)
<i>TABLE_snapshot</i>	(Optional)
<i>snap_name</i>	(Optional) snapshot name
<i>snap_ctime</i>	(Optional) snapshot create time
<i>description</i>	(Optional) snapshot description

## Command Mode

- /exec

## show snapshots compare

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> [ __readonly__ TABLE_feature
<feat_name> [ <feat_state1> <feat_state2> ] [ TABLE_element <elemkey1> <elemval1> [ <elemkey2>
<elemval2> ] [ <elemkey3> <elemval3> ] [ <elemkey4> <elemval4> ] [ <elemstate1> <elemstate2> ] [
TABLE_subrow <subrowkey> <subrowval> [ <substate1> <substate2> ] ] [ TABLE_value <tag> <val1>
<val2> ] ] ]
```

### Syntax Description

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)
<i>TABLE_feature</i>		(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
<i>TABLE_element</i>		(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
<i>TABLE_subrow</i>		(Optional)

<i>subrowkey</i>	(Optional) subrow key
<i>subrowval</i>	(Optional) subrow value
<i>substate1</i>	(Optional) subrow state in snapshot 1
<i>substate2</i>	(Optional) subrow state in snapshot 2
TABLE_value	(Optional)
<i>tag</i>	(Optional) element tag
<i>val1</i>	(Optional) element value for tag in snapshot1
<i>val2</i>	(Optional) element value for tag in snapshot2

**Command Mode**

- /exec



## show snapshots compare ipv4routes

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv4routes [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ] [ TABLE_prefix <prefix>
<missing_snapshot> ] ]
```

### Syntax Description

#### 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)
<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
<i>TABLE_prefix</i>	(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

#### 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)
<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
<i>TABLE_prefix</i>	(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

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>

## Syntax Description

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

## Command Mode

- /exec

# show snapshots sections

```
show snapshots sections [ __readonly__ TABLE_snapsection <sectname> <sectcmd> <sectrow> <sectkey1>
<sectkey2> ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	snapshots	Snapshots present on the switch
	sections	User-specified snapshot sections
	__readonly__	(Optional)
	TABLE_snapsection	(Optional)
	<i>sectname</i>	(Optional) snapshot section name
	<i>sectcmd</i>	(Optional) snapshot section show command
	<i>sectrow</i>	(Optional) snapshot section row id
	<i>sectkey1</i>	(Optional) snapshot section key 1
	<i>sectkey2</i>	(Optional) snapshot section key 2

## Command Mode

- /exec

## show snmp-dhcp-relay drop statistics

```
show snmp-dhcp-relay drop statistics [ interface <intf> | ifindex <intf-in> ] [ __readonly__ {
TABLE-cdrDropStatsTable <intf-out> <relay_disable> <invalid_msg_type> <intf_err> <tx_sock_err>
<tx_fail_client_intf> <unknown_op_intf> <l3_unknown_op_intf> <max_hops> <opt82_fail> <malformed>
<untrusted_relay_intf> <mct_drop> } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
snmp-dhcp-relay	DHCP Relay
drop	Statistics related to DHCP drop statistics
statistics	Statistics related to DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) interface index value
<i>__readonly__</i>	(Optional) Read only
TABLE-cdrDropStatsTable	(Optional)
<i>intf-in</i>	(Optional) Interface Index
<i>intf-out</i>	(Optional) Table index
<i>relay_disable</i>	(Optional) relay was disabled
<i>invalid_msg_type</i>	(Optional) invalid message type
<i>intf_err</i>	(Optional) interface error
<i>tx_sock_err</i>	(Optional) failed to send at server
<i>tx_fail_client_intf</i>	(Optional) failed to send to client
<i>unknown_op_intf</i>	(Optional) unknown output interface
<i>l3_unknown_op_intf</i>	(Optional) unknown vrf or interface
<i>max_hops</i>	(Optional) max hops exceeded
<i>opt82_fail</i>	(Optional) Option82 validation failed
<i>malformed</i>	(Optional) malformed pkts
<i>untrusted_relay_intf</i>	(Optional) untrusted interface
<i>mct_drop</i>	(Optional) dropped on MCT

**Command Mode**

- /exec

## show snmp-dhcp-relay statistics pkt

```
show snmp-dhcp-relay statistics { [ interface <intf> | ifindex <intf-in> ] pkt-type <type-in> } [ __readonly__
{ TABLE-cdrStatsTable <intf-out> <type-out> <rx_pkts> <tx_pkts> <drops> } ]
```

### Syntax Description

Syntax Description		
show		Show running system information
snmp-dhcp-relay		DHCP Relay
statistics		Statistics related to DHCP
interface		(Optional) input interface
<i>intf</i>		(Optional) interface
ifindex		(Optional) Interface Index Value
pkt-type		DHCP Packet type
<i>__readonly__</i>		(Optional) Read only
TABLE-cdrStatsTable		(Optional)
<i>intf-in</i>		(Optional) table index - ifindex
<i>intf-out</i>		(Optional) table index
<i>type-in</i>		table index - packet type
<i>type-out</i>		(Optional) table index
<i>rx_pkts</i>		(Optional) received pkt count
<i>tx_pkts</i>		(Optional) transmitted pkt count
<i>drops</i>		(Optional) dropped pkt count

### Command Mode

- /exec



# show snmp

```
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

### 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) contaxt 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

### Syntax Description

show	Show running system information
snmp	show snmp information
community	show snmp community strings
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_snmp_community</i>	(Optional) contains all snmp community names
<i>community_name</i>	(Optional) community name
<i>grouporaccess</i>	(Optional) group or access name
<i>context</i>	(Optional) context name
<i>aclfilter</i>	(Optional) acl filter name

## Command Mode

- /exec

# show snmp context

```
show snmp context [ __readonly__ { TABLE_snmp_contexts <context_name> <proto_instanceid> <vrf>
<topology> [ <vlan> | <MST> ] } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
snmp		show snmp information
context		show snmp context mapping entries
<i>__readonly__</i>		(Optional)
<i>TABLE_snmp_contexts</i>		(Optional) All SNMP Contexts Entries
<i>context_name</i>		(Optional) SNMP context Name
<i>proto_instanceid</i>		(Optional) Name of the protocol instance
<i>vrf</i>		(Optional) VRF name
<i>topology</i>		(Optional) Name of the Topology
<i>vlan</i>		(Optional) VLAN Name
<i>MST</i>		(Optional)

## Command Mode

- /exec

# show snmp engineID

show snmp engineID [ \_\_readonly\_\_ <engineIDHex> <engineIDDec> ]

## Syntax Description

Syntax Description		
show	Show running system information	
snmp	show snmp information	
engineID	show snmp engineID	
__readonly__	(Optional)	
<i>engineIDHex</i>	(Optional) SNMP engineID in HEX	
<i>engineIDDec</i>	(Optional) SNMP engineID in Decimal	

## Command Mode

- /exec

## show snmp group

```
show snmp group [ __readonly__ TABLE_role <role_name> <role_description> [ <attribute_scope> ] [
<permit_vsan> ] [ <permit_vlan> ] [ <permit_interface> ] [ <permit_vrf> ] [ TABLE_rule <rule_num>
<rule_action> { <rule_permission> | <rule_permission_mds> } [ <rule_featuretype> ] [ <rule_entity> ] ] ]
```

### Syntax Description

Syntax Description		
show		Show running system information
snmp		show snmp information
group		show snmp group
<i>__readonly__</i>		(Optional) Read Only
<i>TABLE_role</i>		(Optional) Table displays role
<i>role_name</i>		(Optional) Role Name
<i>role_description</i>		(Optional) Role Description
<i>attribute_scope</i>		(Optional) Role scope
<i>permit_vsan</i>		(Optional) permitted vsan
<i>permit_vlan</i>		(Optional)
<i>permit_interface</i>		(Optional)
<i>permit_vrf</i>		(Optional)
<i>TABLE_rule</i>		(Optional)
<i>rule_num</i>		(Optional)
<i>rule_action</i>		(Optional)
<i>rule_permission</i>		(Optional)
<i>rule_permission_mds</i>		(Optional)
<i>rule_featuretype</i>		(Optional)
<i>rule_entity</i>		(Optional)

### Command Mode

- /exec

# show snmp host

```
show snmp host [ __readonly__ { TABLE_host <host><port><version><level><type><secname> [ [ <vrf>
] [ TABLE_vrf_filters <vrf_filter> ] [ <src_intf> ] ] } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
snmp		show snmp information
host		show snmp hosts
<i>__readonly__</i>	(Optional)	Read Only
<i>TABLE_host</i>	(Optional)	displays the list of hosts configured for snmp requests
<i>TABLE_vrf_filters</i>	(Optional)	displays the host vrf filters
<i>vrf</i>	(Optional)	VRF Name
<i>vrf_filter</i>	(Optional)	vrf filters
<i>src_intf</i>	(Optional)	source interface

## Command Mode

- /exec



# show snmp internal climib loaded

show snmp internal climib loaded [ <climib-name> ]

## Syntax Description

Syntax Description		
show		Show running system information
snmp		show snmp information
internal		show snmp internal information
climib		mibs implemented through cli messages
loaded		list loaded files
<i>climib-name</i>		(Optional) name of the climib (basename of .cli file without extension)

## Command Mode

- /exec

# show snmp internal climib mib cshc cshcInterfaceBufferTable ifindex

```
show snmp internal climib mib cshc cshcInterfaceBufferTable ifindex <ifindex_in> [ __readonly__ {
TABLE-cshcInterfaceBufferTable <ifindex_out> <tx_buffer> <rx_buffer> } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
snmp		show snmp information
internal		show snmp internal information
climib		mibs implemented through cli messages
mib		Show snmp mib information
cshc		CISCO-SWITCH-HARDWARE-CAPACITY-MIB
cshcInterfaceBufferTable		cshcInterfaceBufferTable
ifindex		ifindex
<i>ifindex_in</i>		
<i>__readonly__</i>		(Optional)
TABLE-cshcInterfaceBufferTable		(Optional)
<i>ifindex_out</i>		(Optional)
<i>tx_buffer</i>		(Optional)
<i>rx_buffer</i>		(Optional)

## Command Mode

- /exec

# show snmp internal climib mib cshc cshcModuleInterfaceDropsTable ent\_idx

```
show snmp internal climib mib cshc cshcModuleInterfaceDropsTable ent_idx <ent_idx_in> [ __readonly__
{ TABLE-cshcModuleInterfaceDropsTable <ent_idx_out> <tx_dropped> <rx_dropped> <tx_topdrop_port>
<rx_topdrop_port> <tx_topdrop_portlist> <rx_topdrop_portlist> } ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
mib	Show snmp mib information
cshc	CISCO-SWITCH-HARDWARE-CAPACITY-MIB
cshcModuleInterfaceDropsTable	cshcModuleInterfaceDropsTable
ent_idx	entPhysicalIndex
<i>ent_idx_in</i>	
<i>__readonly__</i>	(Optional)
<i>TABLE-cshcModuleInterfaceDropsTable</i>	(Optional)
<i>ent_idx_out</i>	(Optional)
<i>tx_dropped</i>	(Optional)
<i>rx_dropped</i>	(Optional)
<i>tx_topdrop_port</i>	(Optional)
<i>rx_topdrop_port</i>	(Optional)
<i>tx_topdrop_portlist</i>	(Optional)
<i>rx_topdrop_portlist</i>	(Optional)

## Command Mode

- /exec

# show snmp internal climib mib entity entAliasMappingTable entPhysicalIndex entAliasLogicalIndexOrZero

```
show snmp internal climib mib entity entAliasMappingTable entPhysicalIndex <entPhysicalIndex>
entAliasLogicalIndexOrZero <entAliasLogicalIndexOrZero> [ __readonly__ TABLE-entAliasMappingTable
<entPhysicalIndex-out> <entAliasLogicalIndexOrZero-out> <entAliasMappingIdentifier> ]
```

## Syntax Description

Syntax Description	Description
show	Show information
snmp	Show SNMP information
internal	Show SNMP internal information
climib	Show SNMP internal climib information
mib	Show snmp mib information
entity	ENTITY-MIB
entAliasMappingTable	Show entAliasMappingTable
entPhysicalIndex	entity Physical Index
<i>entPhysicalIndex</i>	entity Physical Index
entAliasLogicalIndexOrZero	entity Alias Logical Index Or Zero
<i>entAliasLogicalIndexOrZero</i>	entity Alias Logical Index Or Zero
__readonly__	(Optional)
TABLE-entAliasMappingTable	(Optional) entAliasMappingTable
<i>entPhysicalIndex-out</i>	(Optional) entPhysicalIndex out
<i>entAliasLogicalIndexOrZero-out</i>	(Optional) entAliasLogicalIndexOrZero
<i>entAliasMappingIdentifier</i>	(Optional) entAliasMappingIdentifier

## Command Mode

- /exec

# show snmp internal climib mib entity entPhysicalContainsTable entPhysicalIndex entPhysicalChildIndex

```
show snmp internal climib mib entity entPhysicalContainsTable entPhysicalIndex <entPhysicalIndex>
entPhysicalChildIndex <entPhysicalChildIndex> [ __readonly__ TABLE-entPhysicalContainsTable
<entPhysicalIndex-out> <entPhysicalChildIndex-out> ]
```

## Syntax Description

Syntax Description	Description
show	Show information
snmp	Show SNMP information
internal	Show SNMP internal information
climib	Show SNMP internal climib information
mib	Show SNMP mib information
entity	ENTITY-MIB
entPhysicalContainsTable	Show entPhysicalContainsTable
entPhysicalIndex	entity Physical Index
<i>entPhysicalIndex</i>	entity Physical Index
entPhysicalChildIndex	entity Physical Child Index
<i>entPhysicalChildIndex</i>	entity Physical Child Index
__readonly__	(Optional)
TABLE-entPhysicalContainsTable	(Optional) entPhysicalContainsTable
<i>entPhysicalIndex-out</i>	(Optional) entPhysicalIndex out
<i>entPhysicalChildIndex-out</i>	(Optional) entPhysicalChildIndex out

## Command Mode

- /exec

## show snmp internal climib mib error-disable cErrDisableIfStatusTable ifIndex vlan

```
show snmp internal climib mib error-disable cErrDisableIfStatusTable ifIndex <ifx-in> vlan <vlan-in> [
__readonly__ [ TABLE-cErrDisableIfStatusTable <ifx-out> <vlan-out> <cause-out> <recoverytime-out> ] ]
```

### Syntax Description

#### Syntax Description

show	Show information
snmp	Show SNMP information
internal	Show SNMP internal information
climib	Show SNMP internal climib information
mib	Show SNMP mib information
error-disable	ERROR-DISABLE
cErrDisableIfStatusTable	Show cErrDisableIfStatusTable
ifIndex	ifIndex
<i>ifx-in</i>	ifIndex value
vlan	vlan id
<i>vlan-in</i>	vlan id value
<i>__readonly__</i>	(Optional)
TABLE-cErrDisableIfStatusTable	(Optional) If Error disabled status
<i>ifx-out</i>	(Optional) Interface index
<i>vlan-out</i>	(Optional) vlan id
<i>cause-out</i>	(Optional) cause
<i>recoverytime-out</i>	(Optional) recoverytime

### Command Mode

- /exec

## show snmp internal climib mib fibCounterTable

```
show snmp internal climib mib fibCounterTable <entPhysicalIndex-in> <counterIndex-in> [ __readonly__ [
TABLE-fibCounterTable <entPhysicalIndex-out> <counterIndex-out> <counterDescription> <counterValue>
]]
```

### Syntax Description

Syntax Description		
show		Show information
snmp		Show SNMP information
internal		Show SNMP internal information
climib		Show SNMP internal climib information
mib		Show SNMP mib information
fibCounterTable		Show fibCounterTable
<i>entPhysicalIndex-in</i>		entPhysicalIndex
<i>counterIndex-in</i>		counter index
<i>__readonly__</i>		(Optional) read only
TABLE-fibCounterTable		(Optional) FIB Table
<i>entPhysicalIndex-out</i>		(Optional) entPhysicalIndex
<i>counterIndex-out</i>		(Optional) counter index
<i>counterDescription</i>		(Optional) counter description
<i>counterValue</i>		(Optional) counter value

### Command Mode

- /exec

# show snmp internal climib mib ifext cieIfDot1dBaseMappingTable ifindex

```
show snmp internal climib mib ifext cieIfDot1dBaseMappingTable ifindex <ifindex> [ __readonly__ {
TABLE-cieIfDot1dBaseMappingTable <ifext-ifindex> <ifext-dot1dBaseport> } ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
mib	Show snmp mib information
ifext	CISCO-IF-EXTENSION-MIB
cieIfDot1dBaseMappingTable	Show cieIfDot1dBaseMappingTable
ifindex	IfIndex
<i>ifindex</i>	IfIndex of an interface or 0
__readonly__	(Optional)
TABLE-cieIfDot1dBaseMappingTable	(Optional)
<i>ifext-ifindex</i>	(Optional) IfIndex of an interface or 0
<i>ifext-dot1dBaseport</i>	(Optional) dot1dBasePort number for the interface

## Command Mode

- /exec



# show snmp internal climib mib pfcext cpfcIfPriorityTable ifIndex priority

```
show snmp internal climib mib pfcext cpfcIfPriorityTable ifIndex <ifx-in> priority <grp-in> [ __readonly__
[ Table-cpfcIfPriorityTable <ifx-out> <grp-out> <req-out> <indications-out> ] ]
```

## Syntax Description

Syntax Description	Description
show	Show information
snmp	Show SNMP information
internal	Show SNMP internal information
climib	Show SNMP internal climib information
mib	Show SNMP mib information
pfcext	PFC-EXTENSION
cpfcIfPriorityTable	Show cpfcIfPriorityTable
ifIndex	ifIndex
<i>ifx-in</i>	ifIndex value
priority	Priority
<i>grp-in</i>	Priority Value
__readonly__	(Optional)
Table-cpfcIfPriorityTable	(Optional) PFC cos stats
<i>ifx-out</i>	(Optional) Interface index
<i>grp-out</i>	(Optional) Priority group
<i>req-out</i>	(Optional) rx-stats
<i>indications-out</i>	(Optional) tx-stats

## Command Mode

- /exec

# show snmp internal climib mib pfcext cpfcIfTable ifIndex

```
show snmp internal climib mib pfcext cpfcIfTable ifIndex <ifx-in> [ __readonly__ [ TABLE-cpfcIfTable
<ifx-out> <req-out> <indications-out> ] ]
```

## Syntax Description

Syntax Description		
show	Show information	
snmp	Show SNMP information	
internal	Show SNMP internal information	
climib	Show SNMP internal climib information	
mib	Show SNMP mib information	
pfcext	PFC-EXTENSION	
cpfcIfTable	Show cpfcIfTable	
ifIndex	ifIndex	
<i>ifx-in</i>	ifIndex value	
<i>__readonly__</i>	(Optional)	
TABLE-cpfcIfTable	(Optional) PFC stats	
<i>ifx-out</i>	(Optional) Interface index	
<i>req-out</i>	(Optional) rx-ppp	
<i>indications-out</i>	(Optional) tx-ppp	

## Command Mode

- /exec

# show snmp internal climib mib pfcext cpfcWatchdogIfQueueInfoTable ifIndex queue-number

```
show snmp internal climib mib pfcext cpfcWatchdogIfQueueInfoTable ifIndex <ifx-in> queue-number
<queue-in> [ __readonly__ [ Table-cpfcWatchdogIfQueueInfoTable <ifx-out> <queue-out> <state-out>
<shuts-out> <restores-out> <totaldrops-out> <queuedrops-out> ] ]
```

## Syntax Description

Syntax Description	Description
show	Show information
snmp	Show SNMP information
internal	Show SNMP internal information
climib	Show SNMP internal climib information
mib	Show SNMP mib information
pfcext	PFC-EXTENSION
cpfcWatchdogIfQueueInfoTable	Show cpfcWatchdogIfQueueInfoTable
ifIndex	ifIndex
<i>ifx-in</i>	ifIndex value
queue-number	Queue Number
<i>queue-in</i>	Queue Value
__readonly__	(Optional)
Table-cpfcWatchdogIfQueueInfoTable	(Optional) PFC queue watchdog stats
<i>ifx-out</i>	(Optional) Interface index
<i>queue-out</i>	(Optional) Queue
<i>state-out</i>	(Optional) Queue State
<i>shuts-out</i>	(Optional) Shutdowns
<i>restores-out</i>	(Optional) Resotres
<i>totaldrops-out</i>	(Optional) Total Pkt Drops
<i>queuedrops-out</i>	(Optional) Queue Dops

## Command Mode

- /exec

## show snmp internal climib mib vlanif cviVlanInterfaceIndexTable vlan-id ifindex

```
show snmp internal climib mib vlanif cviVlanInterfaceIndexTable vlan-id <vlan> ifindex <ifindex> [
__readonly__ { TABLE-cviVlanInterfaceIndexTable <vlanif-vlan> <vlanif-main-ifindex> <vlanif-ifindex>
} ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
mib	Show snmp mib information
vlanif	CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB
cviVlanInterfaceIndexTable	Show cviVlanInterfaceIndexTable
vlan-id	VLAN ID
<i>vlan</i>	VLAN ID
ifindex	Ifindex
<i>ifindex</i>	Ifindex of a subinterface or 0 for SVI
__readonly__	(Optional)
TABLE-cviVlanInterfaceIndexTable	(Optional)
<i>vlanif-vlan</i>	(Optional) Vlan ID
<i>vlanif-main-ifindex</i>	(Optional) Ifindex of a subinterface or 0 for SVI
<i>vlanif-ifindex</i>	(Optional) Ifindex of the routed Vlan interface

### Command Mode

- /exec

## show snmp internal climib switch-qos

```
show snmp internal climib switch-qos [ csqIfQosGroupInfoTable [ ifIndex <ifIndex-in> [
csqIfQosGroupInfoDirection <ifDirection-in> [ csqIfQosGroupInfoGroupNumber <ifGroupNum-in> ] ] ] ]
[ __readonly__ TABLE_csqIfQosGroupInfoTable <ifIndex-out> <csqIfQosGroupInfoDirection-out>
<csqIfQosGroupInfoGroupNumber-out> <csqIfQosGroupInfoQueueSize> <csqIfQosGroupInfoHwMTU>
<csqIfQosGroupInfoMTU> <csqIfQosGroupInfoDropType> <csqIfQosGroupInfoResumeThresh>
<csqIfQosGroupInfoPauseThresh> <csqIfQosGroupInfoScheduling> <csqIfQosGroupInfoBandwidth>
<csqIfQosGroupInfoBandwidthUnits> <csqIfQosGroupInfoShapeMinThresh>
<csqIfQosGroupInfoShapeMaxThresh> <csqIfQosGroupInfoShapeUnits> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
switch-qos	CISCO-SWITCH-QOS-MIB
csqIfQosGroupInfoTable	(Optional) csqIfQosGroupInfoTable
ifIndex	(Optional) Interface index
<i>ifIndex-in</i>	(Optional) Interface index value
csqIfQosGroupInfoDirection	(Optional) csqIfQosGroupInfoDirection
<i>ifDirection-in</i>	(Optional) ifDirection-in
csqIfQosGroupInfoGroupNumber	(Optional) csqIfQosGroupInfoGroupNumber
<i>ifGroupNum-in</i>	(Optional) ifGroupNum-in
<i>__readonly__</i>	(Optional)
TABLE_csqIfQosGroupInfoTable	(Optional) Qos Group Info Table
<i>ifIndex-out</i>	(Optional) If Index Out value
<i>csqIfQosGroupInfoDirection-out</i>	(Optional) Packet Direction
<i>csqIfQosGroupInfoGroupNumber-out</i>	(Optional) Group Number
<i>csqIfQosGroupInfoQueueSize</i>	(Optional) Queue Size
<i>csqIfQosGroupInfoHwMTU</i>	(Optional) Hardware MTU
<i>csqIfQosGroupInfoMTU</i>	(Optional) MTU
<i>csqIfQosGroupInfoDropType</i>	(Optional) Dro Type

<i>csqIfQosGroupInfoResumeThresh</i>	(Optional) Resume Threshold
<i>csqIfQosGroupInfoPauseThresh</i>	(Optional) Pause Threshold
<i>csqIfQosGroupInfoScheduling</i>	(Optional) Scheduling
<i>csqIfQosGroupInfoBandwidth</i>	(Optional) Bandwidth
<i>csqIfQosGroupInfoBandwidthUnits</i>	(Optional) Bandwidth Units
<i>csqIfQosGroupInfoShapeMinThresh</i>	(Optional) Shape Min
<i>csqIfQosGroupInfoShapeMaxThresh</i>	(Optional) Shape Max
<i>csqIfQosGroupInfoShapeUnits</i>	(Optional) Shape Units

**Command Mode**

- /exec

## show snmp internal climib switch-qos

```
show snmp internal climib switch-qos [ csqIfQosGroupStatsTable [ ifIndex <ifIndex-in> [
csqIfQosGroupStatsDirection <ifDirection-in> [ csqIfQosGroupStatsGroupNumber <ifGroupNum-in> [
csqIfQosGroupStatsType <statsType-in> ] ] ] ] [ __readonly__ TABLE_csqIfQosGroupStatsTable
<ifIndex-out> <csqIfQosGroupStatsDirection-out> <csqIfQosGroupStatsGroupNumber-out>
<csqIfQosGroupStatsType-out> <csqIfQosGroupStatsValue> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
switch-qos	CISCO-SWITCH-QOS-MIB
csqIfQosGroupStatsTable	(Optional) csqIfQosGroupStatsTable
ifIndex	(Optional) Interface Index
<i>ifIndex-in</i>	(Optional) Interface index value
csqIfQosGroupStatsDirection	(Optional) csqIfQosGroupInfoDirection
<i>ifDirection-in</i>	(Optional) ifDirection-in
csqIfQosGroupStatsGroupNumber	(Optional) csqIfQosGroupInfoGroupNumber
<i>ifGroupNum-in</i>	(Optional) ifGroupNum-in
csqIfQosGroupStatsType	(Optional) csqIfQosGroupStatsType
<i>statsType-in</i>	(Optional) StatsType
__readonly__	(Optional)
TABLE_csqIfQosGroupStatsTable	(Optional) Qos Group Info Table
<i>ifIndex-out</i>	(Optional) If Index Out value
<i>csqIfQosGroupStatsDirection-out</i>	(Optional) Packet Direction
<i>csqIfQosGroupStatsGroupNumber-out</i>	(Optional) Group Number
<i>csqIfQosGroupStatsType-out</i>	(Optional) Stats Counter type
<i>csqIfQosGroupStatsValue</i>	(Optional) Stats counter value

### Command Mode

- /exec

## show snmp internal climib switch-qos

```
show snmp internal climib switch-qos [ csqIfPriGrpInBufUsageTable [ ifIndex <ifidx> [
csqIfPriGrpInBufUsageGrpNo <pgidx> ] ] ] [ __readonly__ TABLE-csqIfPriGrpInBufUsageTable <ifidx_out>
<pgidx_out> <pg_min_count> <pg_shared_count> <pg_hdrm_count> <pg_glb_hdrm_count>
<pg_shared_hiwm> <pg_hdrm_hiwm> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
switch-qos	CISCO-SWITCH-QOS-MIB
csqIfPriGrpInBufUsageTable	(Optional) Priority Group Input buffer usage table
ifIndex	(Optional) Interface index
<i>ifidx</i>	(Optional) Index val
csqIfPriGrpInBufUsageGrpNo	(Optional) Priority Group index
<i>pgidx</i>	(Optional) Index val
<i>__readonly__</i>	(Optional) Read Only
TABLE-csqIfPriGrpInBufUsageTable	(Optional) SNMP table
<i>ifidx_out</i>	(Optional) Interface index out
<i>pgidx_out</i>	(Optional) PG index out
<i>pg_min_count</i>	(Optional) PG min count
<i>pg_shared_count</i>	(Optional) PG shared count
<i>pg_hdrm_count</i>	(Optional) PG headroom count
<i>pg_glb_hdrm_count</i>	(Optional) PG global headroom count
<i>pg_shared_hiwm</i>	(Optional) PG shared high watermark
<i>pg_hdrm_hiwm</i>	(Optional) PG headroom high watermark

### Command Mode

- /exec



## show snmp internal climib switch-qos

```
show snmp internal climib switch-qos [ csqSharedPoolUsageTable [ entPhysicalIndex <mod_ent> [
csqSharedPoolUsageInstNo <inst_id> [ csqSharedPoolUsagePoolNo <sp_num> ] ] ] [ __readonly__
TABLE-csqSharedPoolUsageTable <mod_ent_out> <inst_id_out> <sp_num_out> <sp_used> <sp_remain>
<sp_peak> <sp_total> <sp_used_tx> <sp_remain_tx> <sp_peak_tx> <sp_total_tx> <sp_name_tx> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
switch-qos	CISCO-SWITCH-QOS-MIB
csqSharedPoolUsageTable	(Optional) SNMP table csqSharedPoolUsageTable
entPhysicalIndex	(Optional) The entity index of module
<i>mod_ent</i>	(Optional)
csqSharedPoolUsageInstNo	(Optional) The instance NO. of the module
<i>inst_id</i>	(Optional)
csqSharedPoolUsagePoolNo	(Optional) Service pool
<i>sp_num</i>	(Optional) Servie pool number
<i>__readonly__</i>	(Optional) Read Only
TABLE-csqSharedPoolUsageTable	(Optional)
<i>mod_ent_out</i>	(Optional) Module entity
<i>inst_id_out</i>	(Optional) Instance ID
<i>sp_num_out</i>	(Optional) Service Pool number
<i>sp_used</i>	(Optional) Used Cells
<i>sp_remain</i>	(Optional) Remain Cells
<i>sp_peak</i>	(Optional) Peak Cells
<i>sp_total</i>	(Optional) Total Cells
<i>sp_used_tx</i>	(Optional) Used Cells
<i>sp_remain_tx</i>	(Optional) Remain Cells

---

<i>sp_peak_tx</i>	(Optional) Peak Cells
<i>sp_total_tx</i>	(Optional) Total Cells
<i>sp_name_tx</i>	(Optional) Tx SP Name

---

**Command Mode**

- /exec

## show snmp internal climib switch-qos

```
show snmp internal climib switch-qos [ csqServicePoolCellSize ] [ __readonly__
SCALAR-csqServicePoolCellSize <cell_size> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
switch-qos	CISCO-SWITCH-QOS-MIB
csqServicePoolCellSize	(Optional) SNMP table csqServicePoolCellSize
__readonly__	(Optional) Read Only
SCALAR-csqServicePoolCellSize	(Optional)
<i>cell_size</i>	(Optional) Cell size

### Command Mode

- /exec

## show snmp internal climib switch-qos

```
show snmp internal climib switch-qos [ csqHwSharedPoolUsageTable [ entPhysicalIndex <mod_ent> [
csqHwSharedPoolDeviceId <device_id> [ csqHwSharedPoolUsageInstNo <inst_id> [
csqHwSharedPoolStatsDirection <stats_dir> [ csqHwSharedPoolStatsType <sp_type> ]]]]]] [ __readonly__
TABLE-csqHwSharedPoolUsageTable <mod_ent_out> <device_id_out> <inst_id_out> <stats_dir_out>
<sp_type_out> <sp_used> <sp_remain> <sp_peak> <sp_total> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
switch-qos	CISCO-SWITCH-QOS-MIB
csqHwSharedPoolUsageTable	(Optional) SNMP table csqHwSharedPoolUsageTable
entPhysicalIndex	(Optional) The entity index of module
<i>mod_ent</i>	(Optional)
csqHwSharedPoolDeviceId	(Optional) The device ID
<i>device_id</i>	(Optional)
csqHwSharedPoolUsageInstNo	(Optional) The instance NO. of the module
<i>inst_id</i>	(Optional)
csqHwSharedPoolStatsDirection	(Optional) The traffic direction
<i>stats_dir</i>	(Optional)
csqHwSharedPoolStatsType	(Optional) Service pool stats Type
<i>sp_type</i>	(Optional) Servie pool type
__readonly__	(Optional) Read Only
TABLE-csqHwSharedPoolUsageTable	(Optional)
<i>mod_ent_out</i>	(Optional) Module entity
<i>device_id_out</i>	(Optional) Device ID
<i>inst_id_out</i>	(Optional) Instance ID
<i>stats_dir_out</i>	(Optional) Service Pool stats direction

<i>sp_type_out</i>	(Optional) Service Pool type
<i>sp_used</i>	(Optional) Used Cells
<i>sp_remain</i>	(Optional) Remain Cells
<i>sp_peak</i>	(Optional) Peak Cells
<i>sp_total</i>	(Optional) Total Cells

**Command Mode**

- /exec

# show snmp internal climib test

show snmp internal climib test <id> [ \_\_readonly\_\_ <snmp-id> ]

## Syntax Description

Syntax Description		
show	Show running system information	
snmp	show snmp information	
internal	show snmp internal information	
climib	mibs implemented through cli messages	
test	test	
<i>id</i>	test id	
<i>__readonly__</i>	(Optional) Read only	
<i>snmp-id</i>	(Optional)	

## Command Mode

- /exec

# show snmp internal climib trace

show snmp internal climib trace [ <buffers> ]

## Syntax Description

Syntax Description	
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
trace	debug trace buffers (always on)
<i>buffers</i>	(Optional) trace buffer

## Command Mode

- /exec

# show snmp internal climib trace core

```
show snmp internal climib trace core <pid>
```

## Syntax Description

Syntax Description	
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
trace	debug trace buffers (always on)
core	display trace info from a core file (all buffers)
<i>pid</i>	PID from 'show cores'

## Command Mode

- /exec



# show snmp internal conditional-loaded-mib-dump

show snmp internal conditional-loaded-mib-dump

## Syntax Description

Syntax Description		
	show	Show commands
	snmp	show snmp information
	internal	show snmp internal information
	conditional-loaded-mib-dump	conditional mib loaded in the agent

## Command Mode

- /exec

# show snmp internal eem-policy

show snmp internal eem-policy

## Syntax Description

Syntax	Description
show	Show commands
snmp	show snmp information
internal	show snmp internal information
eem-policy	EEM policies in the snmp publisher

## Command Mode

- /exec

# show snmp internal feature-mgr-dump

show snmp internal feature-mgr-dump

## Syntax Description

Syntax Description		
	show	Show commands
	snmp	show snmp information
	internal	show snmp internal information
	feature-mgr-dump	conditional features and their mibs

## Command Mode

- /exec

# show snmp internal globals

show snmp internal globals

## Syntax Description

---

### Syntax Description

---

show Show commands

---

snmp show snmp information

---

internal show snmp internal information

---

globals show snmp all global variables

---

## Command Mode

- /exec

# show snmp internal loaded mibs

show snmp internal loaded mibs

## Syntax Description

Syntax	Description
show	Show commands
snmp	show snmp information
internal	show snmp internal information
loaded	show snmp all loaded mib modules
mibs	show snmp all loaded mib modules

## Command Mode

- /exec

# show snmp internal oids notification

show snmp internal oids notification

## Syntax Description

Syntax Description		
show		Show commands
snmp		show snmp information
internal		show snmp internal information
oids		show snmp oids
notification		show snmp supported notifications

## Command Mode

- /exec

# show snmp internal oids registered

show snmp internal oids registered

## Syntax Description

Syntax	Description
show	Show commands
snmp	show snmp information
internal	show snmp internal information
oids	show snmp oids
registered	show snmp all registred mib oids

## Command Mode

- /exec

# show snmp internal oids supported

show snmp internal oids supported [ create ]

## Syntax Description

Syntax Description	
show	Show commands
snmp	show snmp information
internal	show snmp internal information
oids	show snmp oids
supported	show snmp supported oid requests
create	(Optional) create snmp supported oid file

## Command Mode

- /exec



# show snmp internal oids unsupported

show snmp internal oids unsupported

## Syntax Description

Syntax Description		
show		Show commands
snmp		show snmp information
internal		show snmp internal information
oids		show snmp oids
unsupported		show snmp unsupported oid requests

## Command Mode

- /exec

# show snmp internal protocol-instance-table

show snmp internal protocol-instance-table

## Syntax Description

Syntax Description		
show		Show commands
snmp		show snmp information
internal		show snmp internal information
protocol-instance-table		protocol instance-sap table

## Command Mode

- /exec

# show snmp internal registered-notifications

show snmp internal registered-notifications

## Syntax Description

Syntax Description		
	show	Show commands
	snmp	show snmp information
	internal	show snmp internal information
	registered-notifications	show snmp mts registered notifications

## Command Mode

- /exec

# show snmp internal tcp connections

show snmp internal tcp connections

## Syntax Description

Syntax	Description
show	Show commands
snmp	show snmp information
internal	show snmp internal information
tcp	show snmp tcp connections
connections	show snmp tcp connections

## Command Mode

- /exec

# show snmp internal trace log

show snmp internal trace log

## Syntax Description

Syntax Description	
show	Show commands
snmp	show snmp information
internal	show snmp internal information
trace	show snmp trace log
log	show snmp trace log

## Command Mode

- /exec

# show snmp internal translate oidorname

show snmp internal translate oidorname <nameoroid>

## Syntax Description

Syntax Description		
show	Show commands	
snmp	show snmp information	
internal	show snmp internal information	
translate	translate oid to name and name to oid	
oidorname	translate oid to name and name to oid	
<i>nameoroid</i>	OID or name that needs translation	

## 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

Syntax Description	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)
<i>TABLE_igmpCacheTable</i>	(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

Syntax Description	Description
show	Show running system information
snmp	show snmp
mib	show mib tables
igmpInterfaceTable	show mib table igmpInterfaceTable
<i>igmpInterfaceIfIndex-in</i>	(Optional) igmpInterfaceIndex
<i>__readonly__</i>	(Optional)
<i>TABLE_igmpInterfaceTable</i>	(Optional)
<i>igmpInterfaceIfIndex-out</i>	(Optional) mib table index igmpInterfaceIfIndex
<i>igmpInterfaceQueryInterval</i>	(Optional) mib object igmpInterfaceQueryInterval
<i>igmpInterfaceStatus</i>	(Optional) mib object igmpInterfaceStatus
<i>igmpInterfaceVersion</i>	(Optional) mib object igmpInterfaceVersion
<i>igmpInterfaceQuerier</i>	(Optional) mib object igmpInterfaceQuerier
<i>igmpInterfaceQueryMaxResponseTime</i>	(Optional) mib object igmpInterfaceQueryMaxResponseTime
<i>igmpInterfaceQuerierUpTime</i>	(Optional) mib object igmpInterfaceQuerierUpTime
<i>igmpInterfaceQuerierExpiryTime</i>	(Optional) mib object igmpInterfaceQuerierExpiryTime
<i>igmpInterfaceVersion1QuerierTimer</i>	(Optional) mib object igmpInterfaceVersion1QuerierTimer
<i>igmpInterfaceWrongVersionQueries</i>	(Optional) mib object igmpInterfaceWrongVersionQueries
<i>igmpInterfaceJoins</i>	(Optional) mib object igmpInterfaceJoins
<i>igmpInterfaceProxyIfIndex</i>	(Optional) mib object igmpInterfaceProxyIfIndex
<i>igmpInterfaceGroups</i>	(Optional) mib object igmpInterfaceGroups
<i>igmpInterfaceRobustness</i>	(Optional) mib object igmpInterfaceRobustness
<i>igmpInterfaceLastMembQueryIntvl</i>	(Optional) mib object igmpInterfaceLastMembQueryIntvl



**Command Mode**

- /exec

## show snmp mib pimCandidateRPTable

```
show snmp mib pimCandidateRPTable [ <pimCandidateRPGroupAddress-in> ] [
<pimCandidateRPGroupMask-in> ] [ __readonly__ TABLE_pimCandidateRPTable
<pimCandidateRPGroupAddress-out> <pimCandidateRPGroupMask-out> <pimCandidateRPAAddress>
<pimCandidateRPRowStatus> ]
```

### Syntax Description

Syntax Description		
show		Show running system information
snmp		show snmp
mib		show mib tables
pimCandidateRPTable		show mib table pimCandidateRPTable
<i>pimCandidateRPGroupAddress-in</i>	(Optional)	pimCandidateRPGroupAddress
<i>pimCandidateRPGroupMask-in</i>	(Optional)	pimCandidateRPGroupMask
<i>__readonly__</i>	(Optional)	
<i>TABLE_pimCandidateRPTable</i>	(Optional)	
<i>pimCandidateRPGroupAddress-out</i>	(Optional)	mib table index pimCandidateRPGroupAddress
<i>pimCandidateRPGroupMask-out</i>	(Optional)	mib table index pimCandidateRPGroupMask
<i>pimCandidateRPAAddress</i>	(Optional)	mib object pimCandidateRPAAddress
<i>pimCandidateRPRowStatus</i>	(Optional)	mib object pimCandidateRPRowStatus

### Command Mode

- /exec

## show snmp mib pimComponentTable

```
show snmp mib pimComponentTable [ <pimComponentIndex-in> ] [ __readonly__
TABLE_pimComponentTable <pimComponentIndex-out> <pimComponentBSRAddress>
<pimComponentBSRExpiryTime> <pimComponentCRPHoldTime> <pimComponentStatus> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp
mib	show mib tables
pimComponentTable	show mib table pimComponentTable
<i>pimComponentIndex-in</i>	(Optional) pimComponentIndex
<i>__readonly__</i>	(Optional)
<i>TABLE_pimComponentTable</i>	(Optional)
<i>pimComponentIndex-out</i>	(Optional) mib table index pimComponentIndex
<i>pimComponentBSRAddress</i>	(Optional) mib object pimComponentBSRAddress
<i>pimComponentBSRExpiryTime</i>	(Optional) mib object pimComponentBSRExpiryTime
<i>pimComponentCRPHoldTime</i>	(Optional) mib object pimComponentCRPHoldTime
<i>pimComponentStatus</i>	(Optional) mib object pimComponentStatus

### Command Mode

- /exec

## show snmp mib pimInterfaceTable

```
show snmp mib pimInterfaceTable [ <pimInterfaceIfIndex-in> ] [ __readonly__ TABLE_pimInterfaceTable
<pimInterfaceIfIndex-out> <pimInterfaceAddress> <pimInterfaceNetMask> <pimInterfaceMode>
<pimInterfaceDR> <pimInterfaceHelloInterval> <pimInterfaceStatus> <pimInterfaceJoinPruneInterval>
<pimInterfaceCBSRPreference> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp
mib	show mib tables
pimInterfaceTable	show mib table pimInterfaceTable
<i>pimInterfaceIfIndex-in</i>	(Optional) pimInterfaceIndex
<i>__readonly__</i>	(Optional)
<i>TABLE_pimInterfaceTable</i>	(Optional)
<i>pimInterfaceIfIndex-out</i>	(Optional) mib table index pimInterfaceIfIndex
<i>pimInterfaceAddress</i>	(Optional) mib object pimInterfaceAddress
<i>pimInterfaceNetMask</i>	(Optional) mib object pimInterfaceNetMask
<i>pimInterfaceMode</i>	(Optional) mib object pimInterfaceMode
<i>pimInterfaceDR</i>	(Optional) mib object pimInterfaceDR
<i>pimInterfaceHelloInterval</i>	(Optional) mib object pimInterfaceHelloInterval
<i>pimInterfaceStatus</i>	(Optional) mib object pimInterfaceStatus
<i>pimInterfaceJoinPruneInterval</i>	(Optional) mib object pimInterfaceJoinPruneInterval
<i>pimInterfaceCBSRPreference</i>	(Optional) mib object pimInterfaceCBSRPreference

### Command Mode

- /exec

## show snmp mib pimIpMRouteNextHopTable

```
show snmp mib pimIpMRouteNextHopTable [ <ipMRouteNextHopGroup-in> <ipMRouteNextHopSource-in>
<ipMRouteNextHopSourceMask-in> <ipMRouteNextHopIfIndex-in> <ipMRouteNextHopAddress-in> ] [
__readonly__ TABLE_pimIpMRouteNextHopTable <ipMRouteNextHopGroup-out>
<ipMRouteNextHopSource-out> <ipMRouteNextHopSourceMask-out> <ipMRouteNextHopIfIndex-out>
<ipMRouteNextHopAddress-out> <pimIpMRouteNextHopPruneReason> ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp
mib	show mib tables
pimIpMRouteNextHopTable	show mib table pimIpMRouteNextHopTable
<i>ipMRouteNextHopGroup-in</i>	(Optional) ipMRouteNextHopGroup
<i>ipMRouteNextHopSource-in</i>	(Optional) ipMRouteNextHopSource
<i>ipMRouteNextHopSourceMask-in</i>	(Optional) ipMRouteNextHopSourceMask
<i>ipMRouteNextHopIfIndex-in</i>	(Optional) ipMRouteNextHopIfIndex
<i>ipMRouteNextHopAddress-in</i>	(Optional) ipMRouteNextHopAddress
<i>__readonly__</i>	(Optional)
TABLE_pimIpMRouteNextHopTable	(Optional)
<i>ipMRouteNextHopGroup-out</i>	(Optional) mib table index ipMRouteNextHopGroup
<i>ipMRouteNextHopSource-out</i>	(Optional) mib table index pimComponentBSRAddress
<i>ipMRouteNextHopSourceMask-out</i>	(Optional) mib table index pimComponentBSRExpiryTime
<i>ipMRouteNextHopIfIndex-out</i>	(Optional) mib table index pimComponentCRPHoldTime
<i>ipMRouteNextHopAddress-out</i>	(Optional) mib table index pimComponentStatus
<i>pimIpMRouteNextHopPruneReason</i>	(Optional) mib object pimIpMRouteNextHopPruneReason

### Command Mode

- /exec

## show snmp mib pimIpMRouteTable

```
show snmp mib pimIpMRouteTable [ <ipMRouteGroup-in> ] [ <ipMRouteSource-in> ] [
<ipMRouteSourceMask-in> ] [ __readonly__ TABLE_pimIpMRouteTable <ipMRouteGroup-out>
<ipMRouteSource-out> <ipMRouteSourceMask-out> <pimIpMRouteUpstreamAssertTimer>
<pimIpMRouteAssertMetric> <pimIpMRouteAssertMetricPref> <pimIpMRouteAssertRPTBit>
<pimIpMRouteFlags> ]
```

### Syntax Description

Syntax Description		
show		Show running system information
snmp		show snmp
mib		show mib tables
pimIpMRouteTable		show mib table pimIpMRouteTable
<i>ipMRouteGroup-in</i>		(Optional) ipMRouteGroup
<i>ipMRouteSource-in</i>		(Optional) ipMRouteSource
<i>ipMRouteSourceMask-in</i>		(Optional) ipMRouteSourceMask
<i>__readonly__</i>		(Optional)
TABLE_pimIpMRouteTable		(Optional)
<i>ipMRouteGroup-out</i>		(Optional) mib table index ipMRouteGroup-out
<i>ipMRouteSource-out</i>		(Optional) mib table index ipMRouteSource-out
<i>ipMRouteSourceMask-out</i>		(Optional) mib table index ipMRouteSourceMask-out
<i>pimIpMRouteUpstreamAssertTimer</i>		(Optional) mib object pimIpMRouteUpstreamAssertTimer
<i>pimIpMRouteAssertMetric</i>		(Optional) mib object pimIpMRouteAssertMetric
<i>pimIpMRouteAssertMetricPref</i>		(Optional) mib object pimIpMRouteAssertMetricPref
<i>pimIpMRouteAssertRPTBit</i>		(Optional) mib object pimIpMRouteAssertRPTBit
<i>pimIpMRouteFlags</i>		(Optional) mib object pimIpMRouteFlags

### Command Mode

- /exec

# show snmp mib pimJoinPruneInterval

```
show snmp mib pimJoinPruneInterval [ __readonly__ <pimJoinPruneInterval> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
snmp		show snmp
mib		show mib tables
pimJoinPruneInterval		show mib scalar pimJoinPruneInterval
__readonly__		(Optional) Read Only
<i>pimJoinPruneInterval</i>		(Optional) mib object pimJoinPruneInterval

## Command Mode

- /exec

## show snmp mib pimNeighborTable

```
show snmp mib pimNeighborTable [ <pimNeighborAddress-in> ] [ __readonly__ TABLE_pimNeighborTable
<pimNeighborAddress-out> <pimNeighborIfIndex> <pimNeighborUpTime> <pimNeighborExpiryTime> ]
```

### Syntax Description

Syntax Description		
show		Show running system information
snmp		show snmp
mib		show mib tables
pimNeighborTable		show mib table pimNeighborTable
<i>pimNeighborAddress-in</i>	(Optional)	pimNeighborAddress
<i>__readonly__</i>	(Optional)	
<i>TABLE_pimNeighborTable</i>	(Optional)	
<i>pimNeighborAddress-out</i>	(Optional)	mib table index pimNeighborAddress
<i>pimNeighborIfIndex</i>	(Optional)	mib object pimNeighborIfIndex
<i>pimNeighborUpTime</i>	(Optional)	mib object pimNeighborUpTime
<i>pimNeighborExpiryTime</i>	(Optional)	mib object pimNeighborExpiryTime

### Command Mode

- /exec



# show snmp mib pimRPSetTable

```
show snmp mib pimRPSetTable [ <pimRPSetComponent-in> ] [ <pimRPSetGroupAddress-in> ] [
<pimRPSetGroupMask-in> ] [ <pimRPSetAddress-in> ] [ __readonly__ TABLE_pimRPSetTable
<pimRPSetGroupAddress-out> <pimRPSetGroupMask-out> <pimRPSetAddress-out> <pimRPSetHoldTime>
<pimRPSetExpiryTime> <pimRPSetComponent-out> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp
mib	show mib tables
pimRPSetTable	show mib table pimRPSetTable
<i>pimRPSetComponent-in</i>	(Optional) pimRPSetComponent
<i>pimRPSetGroupAddress-in</i>	(Optional) pimRPSetGroupAddress
<i>pimRPSetGroupMask-in</i>	(Optional) pimRPSetGroupMask
<i>pimRPSetAddress-in</i>	(Optional) pimRPSetAddress
__readonly__	(Optional)
TABLE_pimRPSetTable	(Optional)
<i>pimRPSetGroupAddress-out</i>	(Optional) mib table index pimRPSetGroupAddress
<i>pimRPSetGroupMask-out</i>	(Optional) mib table index pimRPSetGroupMask
<i>pimRPSetAddress-out</i>	(Optional) mib table index pimRPSetAddress
<i>pimRPSetHoldTime</i>	(Optional) mib object pimRPSetHoldTime
<i>pimRPSetExpiryTime</i>	(Optional) mib object pimRPSetExpiryTime
<i>pimRPSetComponent-out</i>	(Optional) mib table index pimRPSetComponent

## Command Mode

- /exec

# show snmp pss

show snmp pss

## Syntax Description

---

**Syntax Description**

---

**show** Show running system information

---

**snmp** show snmp information

---

**pss** show SNMP pss

---

## Command Mode

- /exec

# show snmp roleddebug

show snmp roleddebug

## Syntax Description

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

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
dest	(Optional)	destination

## Command Mode

- /exec

# show snmp snmpv3stats

show snmp snmpv3stats

## Syntax Description

Syntax	Description
show	Show running system information
snmp	show snmp information
snmpv3stats	show SNMP snmpdebug

## Command Mode

- /exec

# show snmp source-interface

```
show snmp source-interface [ __readonly__ { <trap_srcintf> <informs_srcintf> } ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
snmp	show snmp information	
source-interface	show source-interface through which notifications are sent	
<i>__readonly__</i>	(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

Syntax Description		
show		Show running system information
snmp		show snmp information
trap		show snmp traps
__readonly__		(Optional) Read Only
TABLE_snmp_trap		(Optional) All snmp traps configured

## Command Mode

- /exec

## show snmp user

```
show snmp user [ <s0> [ engineID <s1> ] ] [ __readonly__ [ { TABLE_snmp_users <user> <auth> <priv> [
{ TABLE_groups <group> } ] ] [ <acl_filter> ] [ <engineID> } } ] ]
```

### Syntax Description

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	
<i>__readonly__</i>	(Optional) Read Only	
TABLE_snmp_users	(Optional) table displays the snmp users	
TABLE_groups	(Optional) table displays the groups for specific user	
<i>user</i>	(Optional) user name	
<i>auth</i>	(Optional) auth type	
<i>priv</i>	(Optional) priv type	
<i>group</i>	(Optional) group belongs to	
<i>acl_filter</i>	(Optional) acl filter	
<i>engineID</i>	(Optional) engineID for specific user	

### Command Mode

- /exec



# show snmpmib internal errors

show snmpmib internal [ event-history ] errors

## Syntax Description

Syntax Description		
show	Show running system information	
snmpmib	Show information about snmpmib	
internal	Show internal snmpmib information	
event-history	(Optional) Show various event logs of Snmpmib_procs	
errors	Show error logs of SNMPMIB_PROC	

## Command Mode

- /exec

# show snmpmib internal info

show snmpmib internal info [ { global } ]

## Syntax Description

Syntax Description	
show	Show running system information
snmpmib	Show information about snmpmib
internal	Show internal snmpmib information
info	Show internal data structure information
global	(Optional) Display snmpmib global info

## Command Mode

- /exec

# show snmpmib internal mem-stats

show snmpmib internal mem-stats [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
snmpmib	Show information about snmpmib
internal	Show internal snmpmib information
mem-stats	Show memory allocation statistics of SNMPMIB_PROC
detail	(Optional) Show detail memstats for F_Port Server

## Command Mode

- /exec

# show snmpmib internal msgs

show snmpmib internal [ event-history ] msgs

## Syntax Description

---

**Syntax Description**

show	Show running system information
snmpmib	Show information about snmpmib
internal	Show internal snmpmib information
event-history	(Optional) Show various event logs of Snmpmib_procs
msgs	Show various message logs of SNMPMIB_PROC

---

## Command Mode

- /exec

# show sockets buffers

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

## Syntax Description

Syntax Description	
show	Show running system information
sockets	Display sockets status and configuration
buffers	Display detailed buffer statistics
all	(Optional) Dump buffers from ALL list
free	(Optional) Dump buffers from FREE list
count	(Optional) Number of buffers to dump

## Command Mode

- /exec



<i>tcp</i>	(Optional) Display TCP clients
<i>udp</i>	(Optional) Display UDP clients
<i>raw</i>	(Optional) Display RAW clients
<i>detail</i>	(Optional) Display socket details
<i>kstack-ns-all</i>	(Optional) Show kernel clients for all namespaces
<i>__readonly__</i>	(Optional)
<i>TABLE_total_clients</i>	(Optional) Total no of client sockets
<i>socket-type</i>	(Optional) Sockets type
<i>total-clients</i>	(Optional)
<i>no-total-clients</i>	(Optional)
<i>TABLE_cl_sk</i>	(Optional) Display Client sockets
<i>prefix</i>	(Optional) Prefix to the sockets
<i>client-name</i>	(Optional) Display socket client info
<i>pid</i>	(Optional) Display client process <pid>
<i>No-of-clients</i>	(Optional) Number of socket clients
<i>fast-tcp-mts-ctrl-q</i>	(Optional)
<i>cancel-requests</i>	(Optional)
<i>cancel-unblocks</i>	(Optional)
<i>cancel-misses</i>	(Optional)
<i>select-drops</i>	(Optional)
<i>select-wakes</i>	(Optional)
<i>TABLE_det</i>	(Optional) Display Socket client Details
<i>fd</i>	(Optional) Client socket fd
<i>client-id</i>	(Optional) Client socket id
<i>mts-sap</i>	(Optional) socket mts addr sap
<i>TABLE_st</i>	(Optional) Sock detail Ctrl statistics
<i>soc-calls</i>	(Optional)
<i>bind-calls</i>	(Optional)
<i>listen-calls</i>	(Optional)

<i>accept-calls</i>	(Optional)
<i>acc-dispat-err</i>	(Optional)
<i>connect-calls</i>	(Optional)
<i>connec-dispatch</i>	(Optional)
<i>recvmsg-dispatch</i>	(Optional)
<i>recv-dis-nblock</i>	(Optional)
<i>recvmsg-call</i>	(Optional)
<i>brecv-dispatch</i>	(Optional)
<i>fsendmsg-calls</i>	(Optional)
<i>sendmsg-dispatch</i>	(Optional)
<i>sendmsg-calls</i>	(Optional)
<i>msendmsg-calls</i>	(Optional)
<i>select-calls</i>	(Optional)
<i>select-dispatch</i>	(Optional)
<i>select-need-work</i>	(Optional)
<i>sh-calls</i>	(Optional)
<i>close-calls</i>	(Optional)
<i>fcntl-calls</i>	(Optional)
<i>ioctl-calls</i>	(Optional)
<i>setsock-calls</i>	(Optional)
<i>getsock-calls</i>	(Optional)
<i>getsockname-calls</i>	(Optional)
<i>getpeer-calls</i>	(Optional)
<i>fork-calls</i>	(Optional)
<i>execve-calls</i>	(Optional)
<i>dup-calls</i>	(Optional)
<i>can-calls</i>	(Optional)
<i>can-miss</i>	(Optional)
<i>can-unblk-sele</i>	(Optional)



<i>soc-ha-calls</i>	(Optional)
<i>pfork-client</i>	(Optional)
<i>read-fd</i>	(Optional)
<i>write-fd</i>	(Optional)
<i>read-fd-set</i>	(Optional)
<i>write-fd-set</i>	(Optional)
<i>fast-tcp-send-req</i>	(Optional)
<i>fast-tcp-send-suc</i>	(Optional)
<i>fast-tcp-ack</i>	(Optional)
TABLE_sterr	(Optional) Client Socket Error Statistics
<i>sock-err</i>	(Optional)
<i>sock-nodev-err</i>	(Optional)
<i>bind-err</i>	(Optional)
<i>lis-err</i>	(Optional)
<i>accept-err</i>	(Optional)
<i>connect-err</i>	(Optional)
<i>recvmsg-err</i>	(Optional)
<i>brcvmsg-err</i>	(Optional)
<i>fsendmsg-err</i>	(Optional)
<i>sendmsg-err</i>	(Optional)
<i>msndmsg-err</i>	(Optional)
<i>select-err</i>	(Optional)
<i>sel-nomem-err</i>	(Optional)
<i>shut-err</i>	(Optional)
<i>close-err</i>	(Optional)
<i>fcntl-err</i>	(Optional)
<i>ioctl-err</i>	(Optional)
<i>setsoc-err</i>	(Optional)
<i>getsoc-err</i>	(Optional)

---

*getsocname-err* (Optional)

---

*getpeername-err* (Optional)

---

*fork-err* (Optional)

---

*execve-err* (Optional)

---

*dup-err* (Optional)

---

*psoc-vrf-err* (Optional)

---

*psoc-nosoc-err* (Optional)

---

*psoc-sock-null-err* (Optional)

---

*psoc-socre-err* (Optional)

---

*pbind-nsock-err* (Optional)

---

*pbd-getsocaddr* (Optional)

---

*pbind-sobind-err* (Optional)

---

*plisten-nsoc-err* (Optional)

---

*plis-solis-err* (Optional)

---

*pacc-nsoc-err* (Optional)

---

*pacc-no-nsoc-err* (Optional)

---

*pacc-soc-null-err* (Optional)

---

*pacc-copy-err* (Optional)

---

*pacc-no-acc-err* (Optional)

---

*pacc-woublo-err* (Optional)

---

*pacc-connabo-err* (Optional)

---

*pacc-cond-wait-err* (Optional)

---

*pacc-so-err-err* (Optional)

---

*pacc-err-err* (Optional)

---

*pcon-no-soc-err* (Optional)

---

*pcon-ealready-err* (Optional)

---

*pconn-getsock* (Optional)

---

*pconn-socon-err* (Optional)

---

*pconn-einpro-err* (Optional)

---

---

*pconn-con-wait-err* (Optional)

---

*psend-no-soc-err* (Optional)

---

*psend-ival-iov* (Optional)

---

*psend-getsoc-err* (Optional)

---

*psend-msg-ctrl-err* (Optional)

---

*psend-sockarg-err* (Optional)

---

*psend-pru-sosend* (Optional)

---

*precv-nosock-err* (Optional)

---

*precv-ival-iovlen* (Optional)

---

*precv-pru-sorecv* (Optional)

---

*precv-cp-msg-err* (Optional)

---

*precv-cp-msg-nlen* (Optional)

---

*precv-cp-data-err* (Optional)

---

*pbrecv-rcvmsg-err* (Optional)

---

*pshut-no-soc-err* (Optional)

---

*psetsoc-val-err* (Optional)

---

*psetsoc-inv-val* (Optional)

---

*psetsoc-no-soc-err* (Optional)

---

*psetsoc-sosetopt* (Optional)

---

*pgetsoc-no-socerr* (Optional)

---

*pgetsoc-cp-err* (Optional)

---

*pgetsoc-val-err* (Optional)

---

*pgetsoc-sogt-err* (Optional)

---

*pgtsoc-no-soc-err* (Optional)

---

*pgtsoc-cp-err* (Optional)

---

*pgtsoc-pru-soc-err* (Optional)

---

*pgtsoc-cpout-err* (Optional)

---

*pgtprne-no-soc-err* (Optional)

---

*pgtprne-enot-err* (Optional)

---

---

*pgtprne-cp-err* (Optional)

---

*pgtprne-pru-pradd* (Optional)

---

*pgtprne-cpout-err* (Optional)

---

*pclose-no-soc-err* (Optional)

---

*pclose-socnull-err* (Optional)

---

*pclose-p-cls2-err* (Optional)

---

*pfcntl-no-soc-err* (Optional)

---

*pfcntl-soc-null* (Optional)

---

*pfcntl-enotsup* (Optional)

---

*pfcntl-einval-err* (Optional)

---

*pioctl-no-soc-err* (Optional)

---

*pioctl-enotsup* (Optional)

---

*pioctl-pru-ctl* (Optional)

---

*pfork-enomem-err* (Optional)

---

*pdup-no-soc-err* (Optional)

---

*pudp-soc-null-err* (Optional)

---

*ha-nomem-err* (Optional)

---

*ha-tlv-err* (Optional)

---

*ha-soc-arg-err* (Optional)

---

*ha-cli-tlv-err* (Optional)

---

*ha-pss-upd-err* (Optional)

---

*ha-no-soc-err* (Optional)

---

*ha-soc-tlv-err* (Optional)

---

*ha-soc-pss-upd* (Optional)

---

*ha-inpcb-tlv* (Optional)

---

*ha-inpcb-pssky* (Optional)

---

*ha-ip-mopt-tlv* (Optional)

---

*ha-ip-mopt-pss* (Optional)

---

*ha-ip6-mopt-tlv* (Optional)

---

<i>ha-ip6-mopt-pss</i>	(Optional)
<i>ha-tcpcb-tlv</i>	(Optional)
<i>ha-tcpcb-pss</i>	(Optional)
<i>ft-tcp-wblock</i>	(Optional)
<i>ft-send-p-sndmsg</i>	(Optional)
<i>ft-ack-rcv-no-soc</i>	(Optional)
<i>lxc-tgid-err</i>	(Optional) Containers tgid err
TABLE_sp_cl	(Optional) Sock specific Ctrl statistics
<i>can-requests</i>	(Optional)
<i>can-unblocks</i>	(Optional)
<i>can-misses</i>	(Optional)
<i>sel-drops</i>	(Optional)
<i>sel-wakes</i>	(Optional)

#### Command Mode

- /exec

## show sockets connection

```
show sockets connection [ pid <pid> | tcp | udp | raw ] [ local { <srcIP> | <srcIP6> } ] [ foreign { <dstIP> | <dstIP6> } ] [ detail ] [ keydetails ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_conn <prot> <tcp-state> <rcv-count> <laddr> <lport> <faddr> <fport> <intf> <rcv-count> <snd-count> <type> <ttl> <tos> <options> <state> <iss> <snd-una> <snd-nxt> <snd_wnd> <irs> <rcv-nxt> <rcv-wnd> <snd-cwnd> <srtt> <rtt> <rttvar> <krtt> <rttmin> <mss> <dur> <flags> <md5-cnt> <md5-host> <md5-err> <rcv-hiwait> <rcv-lowat> <rcv-flags> <snd-hiwait> <snd-lowat> <snd-flags> <tcp-count> <udp-count> <raw-count> ]
```

### Syntax Description

#### 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
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_conn	(Optional)
<i>prot</i>	(Optional)

<i>tcp-state</i>	(Optional)
<i>rcv-count</i>	(Optional)
<i>laddr</i>	(Optional)
<i>lport</i>	(Optional)
<i>faddr</i>	(Optional)
<i>fport</i>	(Optional)
<i>intf</i>	(Optional)
<i>snd-count</i>	(Optional)
<i>type</i>	(Optional)
<i>ttl</i>	(Optional)
<i>tos</i>	(Optional)
<i>options</i>	(Optional)
<i>state</i>	(Optional)
<i>iss</i>	(Optional)
<i>snd-una</i>	(Optional)
<i>snd-nxt</i>	(Optional)
<i>snd_wnd</i>	(Optional)
<i>irs</i>	(Optional)
<i>rcv-nxt</i>	(Optional)
<i>rcv-wnd</i>	(Optional)
<i>snd-cwnd</i>	(Optional)
<i>srtt</i>	(Optional)
<i>rtt</i>	(Optional)
<i>rttvar</i>	(Optional)
<i>krtt</i>	(Optional)
<i>rttmin</i>	(Optional)
<i>mss</i>	(Optional)
<i>dur</i>	(Optional)
<i>flags</i>	(Optional)

---

*md5-cnt* (Optional)

---

*md5-host* (Optional)

---

*md5-err* (Optional)

---

*rcv-hiwat* (Optional)

---

*rcv-lowat* (Optional)

---

*rcv-flags* (Optional)

---

*snd-hiwat* (Optional)

---

*snd-lowat* (Optional)

---

*snd-flags* (Optional)

---

*tcp-count* (Optional)

---

*udp-count* (Optional)

---

*raw-count* (Optional)

---

#### Command Mode

- /exec



# show sockets internal dispatch

```
show sockets internal { dispatch-statistics | { mem-stats [ detail ] } }
```

## Syntax Description

Syntax Description		
show		Show running system information
sockets		Display sockets status and configuration
internal		Display internal sockets information
dispatch-statistics		Display internal dispatch thread details
mem-stats		Show memory allocation statistics
detail		(Optional) Display detailed information

## Command Mode

- /exec

# show sockets internal event-history

show sockets internal event-history { errors | msgs | setup | ha | events | proto | log }

## Syntax Description

Syntax Description		
show	Show running system information	
sockets	Display sockets status and configuration	
internal	Display internal sockets information	
event-history	Show various event logs of sockets	
errors	Show error logs of sockets	
msgs	Show various message logs of sockets	
setup	Show setup debug message of sockets	
ha	Show ha debug message of sockets	
events	Show events/pcb debug message of sockets	
proto	Show tcp/udp/raw ip debug message of sockets	
log	Show syslog message of sockets	

## Command Mode

- /exec

## show sockets internal event-history buffer-size

show sockets internal event-history buffer-size { errors | msgs | setup | ha | events | proto | log | all }

### Syntax Description

#### Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
buffer-size	Show current size of the buffers
internal	Display internal sockets information
event-history	Show various event logs of sockets
errors	Show error logs buffer size of sockets
msgs	Show various message logs buffer size of sockets
setup	Show setup debug message buffer size of sockets
ha	Show ha debug message buffer size of sockets
events	Show events/pcb debug message buffer size of sockets
proto	Show tcp/udp/raw ip debug message buffer size of sockets
log	Show syslog message buffer size of sockets
all	Show sizes of all event history buffers

### Command Mode

- /exec

# show sockets keychain-dump

show sockets keychain-dump

## Syntax Description

Syntax Description		
	show	Show running system information
	sockets	Display sockets status and configuration
	keychain-dump	Dump the pss information for keychains

## Command Mode

- /exec

# show sockets local-port-range

```
show sockets local-port-range [ __readonly__ <kstack_local_port_range_start> <kstack_local_port_range_end>
<netstack_local_port_range_start> <netstack_local_port_range_end> ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
sockets	Display sockets status and configuration
local-port-range	Display local port range
<i>__readonly__</i>	(Optional)
<i>kstack_local_port_range_start</i>	(Optional) Kstack local port range start
<i>kstack_local_port_range_end</i>	(Optional) Kstack local port range end
<i>netstack_local_port_range_start</i>	(Optional) Netstack local port range start
<i>netstack_local_port_range_end</i>	(Optional) Netstack local port range end

## Command Mode

- /exec

# show sockets performance

show sockets performance [ clear ]

## Syntax Description

Syntax Description		
show	Show running system information	
sockets	Display sockets status and configuration	
performance	Display detailed perf statistics	
clear	(Optional) Clear perf statistics	

## Command Mode

- /exec

# show sockets secure-lxc

show sockets secure-lxc

## Syntax Description

Syntax	Description
show	Show running system information
sockets	Display sockets status and configuration
secure-lxc	Display secure-container sockets information

## Command Mode

- /exec

## show sockets statistics

```
show sockets statistics [ all | tcp | tcp6 | tcpsum | udp | udp6 | udpsum | raw | raw6 | rawsum ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_stat <version> <rx-total> <rx-bad-csum>
<rx-bad-offset> <rx-too-short> <rx-bad-md5> <rx-inseq-pack> <rx-inseq-bytes> <rx-dup-pack> <rx-dup-bytes>
<rx-partdup-pack> <rx-partdup-bytes> <rx-oo-pack> <rx-oo-bytes> <rx-afterwin-pack> <rx-afterwin-bytes>
<rx-afterclose-pack> <rx-winprobe-pack> <rx-winupdate-pack> <rx-dupack-pack> <rx-dupack-unsent-pack>
<rx-ack-pack> <rx-ack-bytes> <tx-total> <tx-urg> <tx-ctrl> <tx-data-pack> <tx-data-bytes> <tx-reasm-pack>
<tx-reasm-bytes> <tx-ackonly-pack> <tx-winprobe-pack> <tx-winupdate-bytes> <tx-conn-init>
<tx-conn-accepted> <tx-conn-estd> <tx-rxmt-timeout> <tx-rxmt-timeout-dropped> <tx-ka-timeout>
<tx-ka-probe> <tx-ka-drop> <closed> <dropped> <emb-dropped> <udp-rx-total> <udp-rx-bad-csum>
<udp-rx-no-csum> <udp-rx-too-short> <udp-rx-bad-len> <udp-rx-no-port> <udp-rx-no-port-bcast>
<udp-rx-no-port-mcast> <udp-rx-full-socket-drop> <udp-tx-total> <raw-rx-rcvd> <raw-rx-no-port>
<raw-rx-full-socket-drop> <raw-tx-sent> ]
```

### Syntax Description

Syntax Description	show	Show running system information
	sockets	Display sockets status and configuration
	statistics	Display sockets statistics
	all	(Optional) Display TCP/UDP/RAW v4/v6 protocols statistics
	tcp	(Optional) Display TCP v4 protocol statistics
	tcp6	(Optional) Display TCP v6 protocol statistics
	tcpsum	(Optional) Display sum of TCP v4 and TCP v6 protocols statistics
	udp	(Optional) Display UDP v4 protocol statistics
	udp6	(Optional) Display UDP v6 protocol statistics
	udpsum	(Optional) Display sum of UDP v4 and UDP v6 protocols statistics
	raw	(Optional) Display RAW v4 protocol statistics
	raw6	(Optional) Display RAW v6 protocol statistics
	rawsum	(Optional) Display sum of RAW v4 and RAW v6 protocols statistics
	__readonly__	(Optional)
	TABLE_vrf	(Optional)
	vrf-name-out	(Optional)
	TABLE_afi	(Optional)
	afi	(Optional)
	TABLE_stat	(Optional)



<i>rx-total</i>	(Optional)
<i>rx-bad-csum</i>	(Optional)
<i>rx-bad-offset</i>	(Optional)
<i>rx-too-short</i>	(Optional)
<i>rx-bad-md5</i>	(Optional)
<i>rx-inseq-pack</i>	(Optional)
<i>rx-inseq-bytes</i>	(Optional)
<i>rx-dup-pack</i>	(Optional)
<i>rx-dup-bytes</i>	(Optional)
<i>rx-partdup-pack</i>	(Optional)
<i>rx-partdup-bytes</i>	(Optional)
<i>rx-oo-pack</i>	(Optional)
<i>rx-oo-bytes</i>	(Optional)
<i>rx-afterwin-pack</i>	(Optional)
<i>rx-afterwin-bytes</i>	(Optional)
<i>rx-afterclose-pack</i>	(Optional)
<i>rx-winprobe-pack</i>	(Optional)
<i>rx-winupdate-pack</i>	(Optional)
<i>rx-dupack-pack</i>	(Optional)
<i>rx-dupack-unsent-pack</i>	(Optional)
<i>rx-ack-pack</i>	(Optional)
<i>rx-ack-bytes</i>	(Optional)
<i>tx-total</i>	(Optional)
<i>tx-urg</i>	(Optional)
<i>tx-ctrl</i>	(Optional)
<i>tx-data-pack</i>	(Optional)
<i>tx-data-bytes</i>	(Optional)
<i>tx-reasm-pack</i>	(Optional)
<i>tx-reasm-bytes</i>	(Optional)

<i>tx-ackonly-pack</i>	(Optional)
<i>tx-winprobe-pack</i>	(Optional)
<i>tx-winupdate-bytes</i>	(Optional)
<i>tx-conn-init</i>	(Optional)
<i>tx-conn-accepted</i>	(Optional)
<i>tx-conn-estd</i>	(Optional)
<i>tx-rxmt-timeout</i>	(Optional)
<i>tx-rxmt-timeout-dropped</i>	(Optional)
<i>tx-ka-timeout</i>	(Optional)
<i>tx-ka-probe</i>	(Optional)
<i>tx-ka-drop</i>	(Optional)
<i>closed</i>	(Optional)
<i>dropped</i>	(Optional)
<i>emb-dropped</i>	(Optional)
<i>udp-rx-total</i>	(Optional)
<i>udp-rx-bad-csum</i>	(Optional)
<i>udp-rx-no-csum</i>	(Optional)
<i>udp-rx-too-short</i>	(Optional)
<i>udp-rx-bad-len</i>	(Optional)
<i>udp-rx-no-port</i>	(Optional)
<i>udp-rx-no-port-bcast</i>	(Optional)
<i>udp-rx-no-port-mcast</i>	(Optional)
<i>udp-rx-full-socket-drop</i>	(Optional)
<i>udp-tx-total</i>	(Optional)
<i>raw-rx-rcvd</i>	(Optional)
<i>raw-rx-no-port</i>	(Optional)
<i>raw-rx-full-socket-drop</i>	(Optional)
<i>raw-tx-sent</i>	(Optional)
<i>version</i>	(Optional)

### Command Mode

- /exec

# show sockets tcp keychain binding

```
show sockets tcp keychain binding [ __readonly__ { TABLE_keychain <keychain> <handle> <ref_count> } ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	sockets	Display sockets status and configuration
	tcp	TCP information
	keychain	Keychain information
	binding	Binding information reagarding RPM
	<i>__readonly__</i>	(Optional)
	<i>TABLE_keychain</i>	(Optional) all sockets tcp keychains
	<i>keychain</i>	(Optional) xml keychain information
	<i>handle</i>	(Optional) xml handle information
	<i>ref_count</i>	(Optional) xml refcount information

## Command Mode

- /exec

# show (spanning-tree/mst/configuration)

show [ pending ]

## Syntax Description

---

### 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 spanning-tree

```
show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] [ __readonly__ TABLE_tree <tree_id>
<tree_tree_type> <tree_protocol> <port_count> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> <stp_active> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> TABLE_port <if_index> <vpc> <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestd> ] ]
```

### Syntax Description

#### 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
<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
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>vpc</i>	(Optional) STP Port memebr of MCT/VPC PO

<i>state</i>	(Optional) STP Port State
<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>port_tree_type</i>	(Optional) Tree Type
<i>port_protocol</i>	(Optional) Tree Protocol
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority
<i>designated_cost</i>	(Optional) Designated cost
<i>designated_bridge</i>	(Optional) Designated bridge mac
<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id
<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>bpdu_in</i>	(Optional) BPDUs received on this stp port
<i>bpdu_out</i>	(Optional) BPDUs send on this stp port
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>link_type</i>	(Optional) Link type configured on this port
<i>port_guard</i>	(Optional) Port Guard mode of port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_portfast</i>	(Optional) Is portfast enabled ?
<i>oper_p2p</i>	(Optional) Is port P2P ?
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>oper_bpduguard</i>	(Optional) Is bpduguard enabled ?



<i>oper_bpdufilter</i>	(Optional) Is bpdufilter enabled ?
<i>int_bpdufilter</i>	(Optional) Is internal bpdufilter enabled ?
<i>forward_delay_timer</i>	(Optional) Forward Delay timer
<i>hold_timer</i>	(Optional) Hold Timer
<i>message_age</i>	(Optional) Message age timer
<i>peer</i>	(Optional) STP protocol of the peer
<i>dispute</i>	(Optional) Is port Disputed ?
<i>pvstsim_inc_timer</i>	(Optional) PVST Simulation Inconsistency Hold Timer
<i>boundary</i>	(Optional) Is port boundary ?
<i>prestd</i>	(Optional) Is port Pre STD MST ?
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>oper_networkport</i>	(Optional) Is network port enabled ?
<i>simulate_pvst_cfg</i>	(Optional) PVST Simulation configured on port

**Command Mode**

- /exec

# show spanning-tree

show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] { <verbosity> | active } +

## Syntax Description

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
<i>verbosity</i>	verbosity
active	Report on active interfaces only

## Command Mode

- /exec

# show spanning-tree blockedports

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] blockedports }
```

## Syntax Description

Syntax Description	
show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
blockedports	Show blocked ports

## Command Mode

- /exec

## show spanning-tree bridge

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ priority [ system-id ] ] } | { show
spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ { detail | brief } ] } | { show spanning-tree
[ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ { address | forward-time | hello-time | id | max-age |
protocol } ] }
```

### Syntax Description

Syntax Description	show	Show running system information
	spanning-tree	Show spanning tree information
	vlan	(Optional) VLAN Switch Spanning Trees
	bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
	<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
	<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
	bridge	Status and configuration of this bridge
	address	(Optional) Mac address of this bridge
	forward-time	(Optional) Forward delay interval
	hello-time	(Optional) Hello time
	id	(Optional) Spanning tree bridge identifier
	max-age	(Optional) Max age
	protocol	(Optional) Spanning tree protocol
	brief	(Optional) Brief summary of the status and configuration output
	detail	(Optional) Detailed of the status and configuration
	priority	(Optional) Bridge priority of this bridge
	system-id	(Optional) Spanning tree priority with system id extension

### Command Mode

- /exec

# show spanning-tree inconsistentports

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] inconsistentports }
```

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
vlan	(Optional) VLAN Switch Spanning Trees	
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees	
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11	
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11	
inconsistentports	Show inconsistent ports	

## Command Mode

- /exec

## show spanning-tree interface

```
show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> [ __readonly__
TABLE_port <if_index> <port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol>
<port_tree_type> <path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost>
<designated_bridge> <designated_bridge_priority> <designated_port> <tc_acknowledge>
<forward_transition_count> <self_looped> <inconsistency> <bpdu_in> <bpdu_out> <port_fast> <link_type>
<port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard>
<oper_bpdufilter> <int_bpdufilter> <forward_delay_timer> <hold_timer> <message_age> <peer> <dispute>
<pvstsim_inc_timer> <prestd> <boundary> <simulate_pvst> <oper_networkport> <simulate_pvst_cfg> ]
```

### Syntax Description

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>	
<u>__readonly__</u>	(Optional) Read Only
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>state</i>	(Optional) STP Port State
<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number
<i>port_tree_type</i>	(Optional) Tree Type
<i>port_protocol</i>	(Optional) Tree Protocol
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority

<i>designated_cost</i>	(Optional) Designated cost
<i>designated_bridge</i>	(Optional) Designated bridge mac
<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id
<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>bpdu_in</i>	(Optional) BPDUs received on this stp port
<i>bpdu_out</i>	(Optional) BPDUs send on this stp port
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>link_type</i>	(Optional) Link type configured on this port
<i>port_guard</i>	(Optional) Port Guard mode of port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_portfast</i>	(Optional) Is portfast enabled ?
<i>oper_p2p</i>	(Optional) Is port P2P ?
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>oper_bpduguard</i>	(Optional) Is bpduguard enabled ?
<i>oper_bpdufilter</i>	(Optional) Is bpdufilter enabled ?
<i>int_bpdufilter</i>	(Optional) Is internal bpdufilter enabled ?
<i>forward_delay_timer</i>	(Optional) Forward Delay timer
<i>hold_timer</i>	(Optional) Hold Timer
<i>message_age</i>	(Optional) Message age timer
<i>peer</i>	(Optional) STP protocol of the peer
<i>dispute</i>	(Optional) Is port Disputed ?
<i>pvstsim_inc_timer</i>	(Optional) PVST Simulation Inconsistency Hold Timer
<i>boundary</i>	(Optional) Is port boundary ?
<i>prestd</i>	(Optional) Is port Pre STD MST ?

---

<i>simulate_pvst</i>	(Optional) Is port in pvst simulate mode ?
<i>oper_networkport</i>	(Optional) Is network port enabled ?
<i>simulate_pvst_cfg</i>	(Optional) PVST Simulation configured on port

---

**Command Mode**

- /exec



# show spanning-tree interface

```
show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> { <verbosity> | active } +
```

## Syntax Description

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
interface	Spanning Tree interface status and configuration
<i>interface-id</i>	
<i>verbosity</i>	verbosity
active	Report on active instances only

## Command Mode

- /exec

# show spanning-tree interface

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> { cost | inconsistency
| edge | priority | rootcost | state } }
```

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
vlan	(Optional) VLAN Switch Spanning Trees	
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees	
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11	
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11	
interface	Spanning Tree interface status and configuration	
<i>interface-id</i>		
cost	Port path cost	
inconsistency	Port inconsistency state	
edge	Edge Port configuration	
priority	Port priority	
rootcost	Path cost to root	
state	Port spanning tree state	

## Command Mode

- /exec

# show spanning-tree internal errors

show spanning-tree internal [ event-history ] errors

## Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show information about stp
internal		Show internal STP information
event-history	(Optional)	Show various event logs of stp
errors		Show error logs of STP

## Command Mode

- /exec

# show spanning-tree internal event-history

```
show spanning-tree internal event-history { { tree <tree-id> [ all-ports | interface <interface-id> ] } | deleted
| all } [ brief ]
```

## Syntax Description

### Syntax Description

show	Show running system information
spanning-tree	Show information about stp
internal	Show internal STP information
event-history	Show various event logs of stp
tree	Show spanning tree instance info
<i>tree-id</i>	Enter tree id
all-ports	(Optional) Show information for all ports of the tree
interface	(Optional) Spanning Tree interface status and configuration
<i>interface-id</i>	(Optional)
deleted	Show event history of deleted trees and ports
all	Show all event historys
brief	(Optional) Show brief format

## Command Mode

- /exec

# show spanning-tree internal event-history stp-lite

show spanning-tree internal event-history stp-lite

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show information about stp	
internal	Show internal STP information	
event-history	Show various event logs of stp	
stp-lite	Show STP-lite related event logs	

## Command Mode

- /exec

# show spanning-tree internal event-history vpc pes

show spanning-tree internal event-history vpc pes

## Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show information about stp
internal		Show internal STP information
event-history		Show various event logs of stp
vpc		Show virtual Port-channel event logs
pes		Show virtual Port-channel PES event logs

## Command Mode

- /exec

# show spanning-tree internal event-history vpc sps

show spanning-tree internal event-history vpc sps

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show information about stp	
internal	Show internal STP information	
event-history	Show various event logs of stp	
vpc	Show virtual Port-channel event logs	
sps	Show virtual Port-channel SPS event logs	

## Command Mode

- /exec

# show spanning-tree internal flc-info

show spanning-tree internal flc-info [ vlan <vlan-id> | bridge-domain <bd-id> ]

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
internal	Show internal STP information	
flc-info	Show forwarding LC Info	
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	

## Command Mode

- /exec



# show spanning-tree internal info all

show spanning-tree internal info all

## Syntax Description

Syntax	Description
show	Show running system information
spanning-tree	Show spanning tree information
internal	Show internal STP information
info	Show internal data structure information
all	Show all information

## Command Mode

- /exec

# show spanning-tree internal info flush qstats

show spanning-tree internal info flush qstats

## Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show spanning tree information
internal		Show internal STP information
info		Show internal data structure information
flush		MAC Address Flush
qstats		MAC Address Flush queue stats

## Command Mode

- /exec

# show spanning-tree internal info flush stats

show spanning-tree internal info flush stats

## Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show spanning tree information
internal		Show internal STP information
info		Show internal data structure information
flush		MAC Address Flush
stats		MAC Address Flush stats

## Command Mode

- /exec

# show spanning-tree internal info global

show spanning-tree internal info global

## Syntax Description

Syntax Description		
	show	Show running system information
	spanning-tree	Show spanning tree information
	internal	Show internal STP information
	info	Show internal data structure information
	global	Show global information

## Command Mode

- /exec

# show spanning-tree internal info issu

show spanning-tree internal info issu

## Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show spanning tree information
internal		Show internal STP information
info		Show internal data structure information
issu		Show information related to ISSU

## Command Mode

- /exec

# show spanning-tree internal info l2gstp

show spanning-tree internal info l2gstp [ vlan <vlan-id> ]

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
internal	Show internal STP information	
info	Show internal data structure information	
l2gstp	L2 Gateway STP	
vlan	(Optional) Show spanning tree instance info	
<i>vlan-id</i>	(Optional) Enter tree id	

## Command Mode

- /exec

# show spanning-tree internal info l2gstp peer-info

```
show spanning-tree internal info l2gstp peer-info [ pss ]
```

## Syntax Description

Syntax	Description
show	Show running system information
spanning-tree	Show spanning tree information
internal	Show internal STP information
info	Show internal data structure information
l2gstp	L2 Gateway STP
peer-info	L2 Gateway Peer Information
pss	(Optional) L2 Gateway Peer Information PSS

## Command Mode

- /exec

# show spanning-tree internal info l2gstp sdb

show spanning-tree internal info l2gstp sdb

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
internal	Show internal STP information	
info	Show internal data structure information	
l2gstp	L2 Gateway STP	
sdb	L2 Gateway STP SDB	

## Command Mode

- /exec



# show spanning-tree internal info sps-pending

show spanning-tree internal info sps-pending

## Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show spanning tree information
internal		Show internal STP information
info		Show internal data structure information
sps-pending		Show pending set port states

## Command Mode

- /exec

# show spanning-tree internal info sps-q-stats

show spanning-tree internal info sps-q-stats

## Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show spanning tree information
internal		Show internal STP information
info		Show internal data structure information
sps-q-stats		Set port state queue stats

## Command Mode

- /exec

# show spanning-tree internal info stp-lite stats

show spanning-tree internal info stp-lite [ tree <tree-id> ] stats

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show information about stp	
internal	Show internal STP information	
info	Show internal data structure information	
stp-lite	Show STP-lite related info	
tree	(Optional) Show spanning tree instance info	
<i>tree-id</i>	(Optional) Enter tree id	
stats	Show STP-lite stats counters	

## Command Mode

- /exec

# show spanning-tree internal info tree

show spanning-tree internal info tree <tree-id> [ all-ports | interface <interface-id> ]

## Syntax Description

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
internal	Show internal STP information
info	Show internal data structure information
tree	Show spanning tree instance info
<i>tree-id</i>	Enter tree id
all-ports	(Optional) Show information for all ports of the tree
interface	(Optional) Spanning Tree interface status and configuration
<i>interface-id</i>	(Optional)

## Command Mode

- /exec

# show spanning-tree internal info vpc

show spanning-tree internal info vpc

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
internal	Show internal STP information	
info	Show internal data structure information	
vpc	Show Virtual Port-channel (vPC) information and stats	

## Command Mode

- /exec

# show spanning-tree internal interactions

show spanning-tree internal interactions

## Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show information about stp
internal		Show internal STP information
interactions		Show interactions with other components

## Command Mode

- /exec

# show spanning-tree internal mem-stats

show spanning-tree internal mem-stats [ detail ]

## Syntax Description

Syntax Description		
show	Show	running system information
spanning-tree	Show	information about stp
internal	Show	internal STP information
mem-stats	Show	memory allocation statistics of STP
detail	(Optional)	Show detail memstats for stp

## Command Mode

- /exec

# show spanning-tree internal msgs

show spanning-tree internal [ event-history ] msgs

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show information about stp	
internal	Show internal STP information	
event-history	(Optional) Show various event logs of stp	
msgs	Show various message logs of STP	

## Command Mode

- /exec



# show spanning-tree issu-impact

show spanning-tree issu-impact

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
issu-impact	Show whether STP meets ISSU criteria	

## Command Mode

- /exec

## show spanning-tree mst

```
show spanning-tree mst [ <mst-id> ] [ __readonly__ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol>
<port_count> <bridge_mac> <bridge_priority> <tree_designated_root> <tree_designated_root_priority>
<stp_active> <root_path_cost> <root_port_if_index> <root_port_priority> <root_port_number>
<topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> <ist-master-id-mac> <ist-master-prio> <ist-path-cost> <remaining-hops> <max-hops>
<txholdcount> <tree-vlan-map> TABLE_port <if_index> <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> <boundary>
<simulate_pvst> <prestd> [ <designated_ist_master> ] [ <designated_ist_master_priority> ] [
<designated_ist_cost> ] [ <vlan-map> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
<i>mst-id</i>	(Optional) MST instance range, example: 0-3,5,7-9
<i>__readonly__</i>	(Optional) Read Only
TABLE_tree	(Optional)
<i>tree_id</i>	(Optional) Tree Id
<i>tree_tree_type</i>	(Optional) Tree Type
<i>tree_protocol</i>	(Optional) Tree Protocol
<i>port_count</i>	(Optional) Number of Ports in Tree
<i>bridge_mac</i>	(Optional) Bridge Mac
<i>bridge_priority</i>	(Optional) Bridge Priority
<i>tree_designated_root</i>	(Optional) Designated Root Mac
<i>tree_designated_root_priority</i>	(Optional) Designated Root Priority
<i>stp_active</i>	(Optional) Spanning Tree State
<i>root_path_cost</i>	(Optional) Root Path Cost

<i>root_port_if_index</i>	(Optional) Root Port
<i>root_port_priority</i>	(Optional) Root Port Priority
<i>root_port_number</i>	(Optional) Root Port Number
<i>topology_change</i>	(Optional) Topology Change flag is set ?
<i>topology_change_detected</i>	(Optional) Topology Change detected flag is set ?
<i>topology_change_count</i>	(Optional) Topology Change Count
<i>topology_change_time_since_last</i>	(Optional) Time since last TC
<i>tc_initiator_if_index</i>	(Optional) Topology Change initiator port
<i>max_age</i>	(Optional) Max Age
<i>hello_time</i>	(Optional) Hello Time
<i>forward_delay</i>	(Optional) Forward delay
<i>bridge_max_age</i>	(Optional) Configured Bridge Max Age
<i>bridge_hello_time</i>	(Optional) Configured Hello Time
<i>bridge_forward_delay</i>	(Optional) Configured Forward Delay
<i>hold_time</i>	(Optional) Configured Hold Time
<i>hello_timer</i>	(Optional) Hello Timer Value
<i>topology_change_timer</i>	(Optional) Topology Change Timer Value
<i>tcn_timer</i>	(Optional) TCN Timer Value
<i>aging_timer</i>	(Optional) Ageing Timer Value
<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
<i>ist-master-id-mac</i>	(Optional) IST Master ID MAC address
<i>ist-master-prio</i>	(Optional) IST Master ID priority
<i>ist-path-cost</i>	(Optional) IST path cost
<i>remaining-hops</i>	(Optional) Remaining hops

<i>max-hops</i>	(Optional) Max Hops
<i>txholdcount</i>	(Optional) TX Hold count
<i>tree-vlan-map</i>	(Optional) Bitmap of vlans mapped to tree
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>state</i>	(Optional) STP Port State
<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>port_tree_type</i>	(Optional) Tree Type
<i>port_protocol</i>	(Optional) Tree Protocol
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority
<i>designated_cost</i>	(Optional) Designated cost
<i>designated_bridge</i>	(Optional) Designated bridge mac
<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id
<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>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 ?

#### Command Mode

- /exec

## show spanning-tree mst configuration

```
{ show spanning-tree mst configuration [ __readonly__ <stp-mode> <name> <rev-id> { Instance_to_vlan_map
<mst_id> <vlan_bit_map> } [ <pvlan-sync> ] ] }
```

### Syntax Description

Syntax Description		
	show	Show running system information
	spanning-tree	Show spanning tree information
	mst	Multiple spanning trees
	configuration	MST current region configuration
	<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>Instance_to_vlan_map</i>	(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

Syntax Description	Description
show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
configuration	MST current region configuration
digest	Display MST configuration digest
<i>__readonly__</i>	(Optional) Read Only
<i>stp-mode</i>	(Optional) Spanning Tree operating mode
<i>name</i>	(Optional) Configuration name
<i>rev-id</i>	(Optional) Configuration revision number
<i>digest</i>	(Optional) MST region configuration digest
<i>prestd-digest</i>	(Optional) MST region configuration pre-std digest
<i>pvlan-sync</i>	(Optional) pvlan synchronization

## Command Mode

- /exec

# show spanning-tree mst detail

show spanning-tree mst [ <mst-id> ] detail

## Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show spanning tree information
mst		Multiple spanning trees
<i>mst-id</i>		(Optional) MST instance range, example: 0-3,5,7-9
detail		Detailed information

## Command Mode

- /exec



## show spanning-tree mst interface

```
show spanning-tree mst [ <mst-id> ] interface <interface-id> [ __readonly__ TABLE_port <if_index>
<port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol> <port_tree_type>
<path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost> <designated_bridge>
<designated_bridge_priority> <designated_port> <tc_acknowledge> <forward_transition_count> <self_looped>
<inconsistency> <bpdu_in> <bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter>
<oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter>
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <prestd> <boundary> <simulate_pvst>
[ <designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] [
<oper_networkport> ] [ <pvstsim_inc_timer> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
<i>mst-id</i>	(Optional) MST instance range, example: 0-3,5,7-9
interface	Spanning Tree interface status and configuration
<i>interface-id</i>	Specify an interface as a target for the command
<i>__readonly__</i>	(Optional) Read Only
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>state</i>	(Optional) STP Port State
<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number
<i>port_tree_type</i>	(Optional) Tree Type
<i>port_protocol</i>	(Optional) Tree Protocol
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority
<i>designated_cost</i>	(Optional) Designated cost

<i>designated_bridge</i>	(Optional) Designated bridge mac
<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id
<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>bpdu_in</i>	(Optional) BPDUs received on this stp port
<i>bpdu_out</i>	(Optional) BPDUs send on this stp port
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>link_type</i>	(Optional) Link type configured on this port
<i>port_guard</i>	(Optional) Port Guard mode of port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_portfast</i>	(Optional) Is portfast enabled ?
<i>oper_p2p</i>	(Optional) Is port P2P ?
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>oper_bpduguard</i>	(Optional) Is bpduguard enabled ?
<i>oper_bpdufilter</i>	(Optional) Is bpdufilter enabled ?
<i>int_bpdufilter</i>	(Optional) Is internal bpdufilter enabled ?
<i>forward_delay_timer</i>	(Optional) Forward Delay timer
<i>hold_timer</i>	(Optional) Hold Timer
<i>message_age</i>	(Optional) Message age timer
<i>peer</i>	(Optional) STP protocol of the peer
<i>boundary</i>	(Optional) Is port boundary ?
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>dispute</i>	(Optional) Is port Disputed ?
<i>prestd</i>	(Optional) Is port Pre STD MST ?
<i>designated_ist_master</i>	(Optional) Ist master mac

---

<i>designated_ist_master_priority</i>	(Optional) Ist master priority
<i>designated_ist_cost</i>	(Optional) Ist master path cost
<i>vlan-map</i>	(Optional) Bitmap of vlans mapped to port
<i>oper_networkport</i>	(Optional) Is network port enabled ?
<i>pvstsim_inc_timer</i>	(Optional) PVST Simulation Inconsistency Hold Timer

---

**Command Mode**

- /exec

# show spanning-tree mst interface detail

show spanning-tree mst [ <mst-id> ] interface <interface-id> detail

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
mst	Multiple spanning trees	
<i>mst-id</i>	(Optional) MST instance range, example: 0-3,5,7-9	
detail	Detailed information	
interface	Spanning Tree interface status and configuration	
<i>interface-id</i>	Specify an interface as a target for the command	

## Command Mode

- /exec

# show spanning-tree pathcost method

{ show spanning-tree pathcost method }

## Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
pathcost	Show Spanning pathcost options	
method	Default pathcost calculation method	

## Command Mode

- /exec

## show spanning-tree root

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ priority [ system-id ] ] } | { show
spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ { address | cost | forward-time | hello-time |
id | max-age | port } ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ { detail | brief
} ] }
```

### Syntax Description

#### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
root	Status and configuration of the root bridge
address	(Optional) Mac address of this bridge
cost	(Optional) Path cost from this bridge to the root
forward-time	(Optional) Forward delay interval
hello-time	(Optional) Hello time
id	(Optional) Spanning tree bridge identifier
max-age	(Optional) Max age
port	(Optional) Root port
brief	(Optional) Brief summary of interface information
detail	(Optional) Detailed information
priority	(Optional) Bridge priority of this bridge
system-id	(Optional) Spanning tree priority with system id extension

### Command Mode

- /exec

## show spanning-tree summary

```
show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] summary [ __readonly__ <stp-mode>
<stp_tree_root_info> <tree_type> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> <stp_root_bmp_info> <stp_root_tree_type> <tree_root_bmp>
<stp_l2gstp_bmp_info> <stp_l2gstp_tree_type> <stp_l2gstp_bmp> <stp_global_info> <pcost_method>
<oper_pcost_method> <port_fast> <bpdu_guard> <bpdu_filter> <oper_loopguard> <bridge_assurance>
<networkport_default> <simulate_pvst> <max-hops> <peer_switch_cfg> <oper_peer_switch>
<stp_l2gstp_domain_id> <stp_lite> { TABLE_tree <stp_tree_summary> <summary_tree_type> <disabled>
<blocking> <listening> <learning> <forwarding> <invalid> <port_count> } <stp_summary_totals>
<total_tree_type> <disabled> <blocking> <listening> <learning> <forwarding> <invalid> <port_count> ]
```

### Syntax Description

#### 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

#### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
summary	Summary of port states
totals	Only show totals
<i>__readonly__</i>	(Optional) Read Only
<i>stp-mode</i>	(Optional) Spanning Tree operating mode
<i>stp_tree_root_info</i>	(Optional) STP Tree Root info marker
<i>tree_type</i>	(Optional) Tree Type
<i>bridge_mac</i>	(Optional) Bridge Mac
<i>bridge_priority</i>	(Optional) Bridge Priority
<i>tree_designated_root</i>	(Optional) Designated Root Mac
<i>tree_designated_root_priority</i>	(Optional) Designated Root Priority
<i>stp_root_bmp_info</i>	(Optional) STP root bitmap info marker
<i>stp_root_tree_type</i>	(Optional) Tree Type
<i>tree_root_bmp</i>	(Optional) STP tree root bmp
<i>stp_l2gstp_bmp_info</i>	(Optional) L2 Gateway STP bitmap marker
<i>stp_l2gstp_tree_type</i>	(Optional) Tree Type
<i>stp_l2gstp_bmp</i>	(Optional) L2 Gateway STP bitmap
<i>stp_global_info</i>	(Optional) STP global info marker
<i>pcost_method</i>	(Optional) STP pathcost method
<i>oper_pcost_method</i>	(Optional) STP oper pathcost method

<i>port_fast</i>	(Optional) Port Fast configured on port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>bridge_assurance</i>	(Optional) Bridge Assurance
<i>networkport_default</i>	(Optional) Network Port default
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>max-hops</i>	(Optional) Max Hops
<i>peer_switch_cfg</i>	(Optional) peer switch configuration status
<i>oper_peer_switch</i>	(Optional) peer switch operational status
<i>stp_l2gstp_domain_id</i>	(Optional) L2 Gateway STP Domain ID
<i>stp_lite</i>	(Optional) STP-Lite
<i>stp_summary_totals</i>	(Optional) Total num STP trees
<i>total_tree_type</i>	(Optional) Tree Type
<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
<i>port_count</i>	(Optional) Number of Ports in Tree

#### Command Mode

- /exec

## show sprom

```
show sprom { backplane <i0> | module <module> <i1> | xbar <santa-cruz-range> <i2> | powersupply <i3>
| fan <i4> | sup | stby-sup | all | all2 | backplane2 | module2 <module2> | powersupply2 <i5> | sup2 } [
__readonly__ { cmn_block { <blk_sig_cb> <blk_ver_cb> <blk_length_cb> <blk_checksum_cb>
<eeprom_size> <blk_count> <fru_major_type> <fru_minor_type> <oem_string> <prd_num> <serial_num>
<part_num> <part_rev> <mfg_dev> <hw_rev> <mfg_bits> <eng_use> <snmp_oid> <power_consump>
<rma_code> <clei_code> <vid> } } { sup_specific_block { <blk_sig_ssb> <blk_ver_ssb> <blk_length_ssb>
<blk_checksum_ssb> <feature_bits> <hw_changes_bits> <card_index> <mac_addresses> <no_of_mac>
<no_of_epld> { TABLE_epld <epld_name> <epld_ver> } <port_type_num> <max_connector_power>
<cooling_req> <amb_temp> { TABLE_sensor_ssb <sensor_num_ssb> <maj_thres_ssb> <min_thres_ssb>
} } } { lc_specific_block { <blk_sig_lc> <blk_ver_lc> <blk_length_lc> <blk_checksum_lc> <feature_bits>
<hw_changes_bits> <card_index> <mac_addresses> <no_of_mac> <no_of_epld> { TABLE_epld
<epld_name> <epld_ver> } <port_type_num> <max_connector_power> <cooling_req> <amb_temp> {
TABLE_sensor_lc <sensor_num_lc> <maj_thres_lc> <min_thres_lc> } } } { ps_specific_block {
<blk_sig_psb> <blk_ver_psb> <blk_length_psb> <blk_checksum_psb> <feature_bits> <current_110v>
<current_220v> <stackmib_oid> } } { fan_specific_block { <blk_sig_fsb> <blk_ver_fsb> <blk_length_fsb>
<blk_checksum_fsb> <feature_bits> <hw_change_bits> <stackmib_oid> <cooling_capacity> <amb_temp>
} } { ch_specific_block { <blk_sig_csb> <blk_ver_csb> <blk_length_csb> <blk_checksum_csb> <feature_bits>
<hw_changes_bits> <stackmib_oid> <mac_addresses> <no_of_mac> <oem_enterprise> <oem_mib_offset>
<max_connector_power> } } { temp_sensor_block { <blk_sig_tsb> <blk_ver_tsb> <blk_length_tsb>
<blk_checksum_tsb> <no_of_sensors> { TABLE_sensor_tsb <sensor_num_tsb> <maj_thres_tsb>
<min_thres_tsb> } } } { wwn_specific_block { <blk_sig_wwnb> <blk_ver_wwnb> <blk_length_wwnb>
<blk_checksum_wwnb> <wwn_usage_bits> } } { lic_specific_block { <blk_sig_licb> <blk_ver_licb>
<blk_length_licb> <blk_checksum_licb> <lic_usage_bits> } } { second_serial_block { <blk_sig_sn2b>
<blk_ver_sn2b> <blk_length_sn2b> <blk_checksum_sn2b> <serial_num_sn2b> } } { psu_common_block
{ <format_version> <internal_info_offset> <chassis_info_offset> <board_info_offset> <product_info_offset>
<multirecord_info_offset> <checksum> } } { psu_board_info_block { <format_version> <length>
<language_code> <mfg_date> <mfg_type> <mfg_info> <name_type> <product_name> <snum_type> <snum>
<part_type> <partnum> <fruid_type> <fruid> <bom_hw_pid_info> <partnum_rev> <fab_revision> <vid>
<clei_len> <clei> <eof_marker> <csum> } } { psu_product_info_block { <format_version> <length>
<language_code> <mfg_type> <mfg_info> <name_type> <product_name> <part_type> <partnum>
<product_ver_type> <sw_certification> <snum_type> <snum> <asset_type> <asset_string> <fruid_type>
<fruid> <custom_pinfo> <partnumrev> <vid> <eof_marker> <csum> } } { psu_record_info_block {
<record_type> <record_info> <record_len> <record_csum> <header_csum> <record_identifier> <format_ver>
<standby_pwr_budget> <psu_class> <psu_watts> } } ]
```

### Syntax Description

#### 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)
cmn_block	(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	(Optional)
<i>epld_name</i>	(Optional)
<i>epld_ver</i>	(Optional)
<i>port_type_num</i>	(Optional)
<i>max_connector_power</i>	(Optional)
<i>cooling_reqt</i>	(Optional)
<i>amb_temp</i>	(Optional)
TABLE_sensor_ssb	(Optional)
<i>sensor_num_ssb</i>	(Optional)
<i>maj_thres_ssb</i>	(Optional)
<i>min_thres_ssb</i>	(Optional)
lc_specific_block	(Optional)
<i>blk_sig_lc</i>	(Optional)
<i>blk_ver_lc</i>	(Optional)
<i>blk_length_lc</i>	(Optional)
<i>blk_checksum_lc</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_changes_bits</i>	(Optional)
<i>card_index</i>	(Optional)
<i>mac_addresses</i>	(Optional)
<i>no_of_macs</i>	(Optional)

<i>no_of_epld</i>	(Optional)
TABLE_epld	(Optional)
<i>epld_name</i>	(Optional)
<i>epld_ver</i>	(Optional)
<i>port_type_num</i>	(Optional)
<i>max_connector_power</i>	(Optional)
<i>cooling_reqt</i>	(Optional)
<i>amb_temp</i>	(Optional)
TABLE_sensor_lc	(Optional)
<i>sensor_num_lc</i>	(Optional)
<i>maj_thres_lc</i>	(Optional)
<i>min_thres_lc</i>	(Optional)
ps_specific_block	(Optional)
<i>blk_sig_psb</i>	(Optional)
<i>blk_ver_psb</i>	(Optional)
<i>blk_length_psb</i>	(Optional)
<i>blk_checksum_psb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>current_110v</i>	(Optional)
<i>current_220v</i>	(Optional)
<i>stackmib_oid</i>	(Optional)
fan_specific_block	(Optional)
<i>blk_sig_fsb</i>	(Optional)
<i>blk_ver_fsb</i>	(Optional)
<i>blk_length_fsb</i>	(Optional)
<i>blk_checksum_fsb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_change_bits</i>	(Optional)
<i>stackmib_oid</i>	(Optional)



<i>cooling_capacity</i>	(Optional)
<i>amb_temp</i>	(Optional)
<i>temp_sensor_block</i>	(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)
<i>wwn_specific_block</i>	(Optional)
<i>blk_sig_wwnb</i>	(Optional)
<i>blk_ver_wwnb</i>	(Optional)
<i>blk_length_wwnb</i>	(Optional)
<i>blk_checksum_wwnb</i>	(Optional)
<i>wwn_usage_bits</i>	(Optional)
<i>lic_specific_block</i>	(Optional)
<i>blk_sig_licb</i>	(Optional)
<i>blk_ver_licb</i>	(Optional)
<i>blk_length_licb</i>	(Optional)
<i>blk_checksum_licb</i>	(Optional)
<i>lic_usage_bits</i>	(Optional)
<i>second_serial_block</i>	(Optional)
<i>blk_sig_sn2b</i>	(Optional)
<i>blk_ver_sn2b</i>	(Optional)
<i>blk_length_sn2b</i>	(Optional)
<i>blk_checksum_sn2b</i>	(Optional)

<i>serial_num_sn2b</i>	(Optional)
<i>psu_common_block</i>	(Optional)
<i>format_version</i>	(Optional)
<i>internal_info_offset</i>	(Optional)
<i>chassis_info_offset</i>	(Optional)
<i>board_info_offset</i>	(Optional)
<i>product_info_offset</i>	(Optional)
<i>multirecord_info_offset</i>	(Optional)
<i>checksum</i>	(Optional)
<i>psu_board_info_block</i>	(Optional)
<i>format_version</i>	(Optional)
<i>length</i>	(Optional)
<i>language_code</i>	(Optional)
<i>mfg_date</i>	(Optional)
<i>mfg_type</i>	(Optional)
<i>mfg_info</i>	(Optional)
<i>name_type</i>	(Optional)
<i>product_name</i>	(Optional)
<i>snum_type</i>	(Optional)
<i>snum</i>	(Optional)
<i>part_type</i>	(Optional)
<i>partnum</i>	(Optional)
<i>fruid_type</i>	(Optional)
<i>fruid</i>	(Optional)
<i>bom_hw_pid_info</i>	(Optional)
<i>partnum_rev</i>	(Optional)
<i>fab_revision</i>	(Optional)
<i>vid</i>	(Optional)
<i>clei_len</i>	(Optional)

<i>clei</i>	(Optional)
<i>eof_marker</i>	(Optional)
<i>csum</i>	(Optional)
<i>psu_product_info_block</i>	(Optional)
<i>format_version</i>	(Optional)
<i>length</i>	(Optional)
<i>language_code</i>	(Optional)
<i>mfg_type</i>	(Optional)
<i>mfg_info</i>	(Optional)
<i>name_type</i>	(Optional)
<i>product_name</i>	(Optional)
<i>part_type</i>	(Optional)
<i>partnum</i>	(Optional)
<i>product_ver_type</i>	(Optional)
<i>sw_certification</i>	(Optional)
<i>snum_type</i>	(Optional)
<i>snum</i>	(Optional)
<i>asset_type</i>	(Optional)
<i>asset_string</i>	(Optional)
<i>fruid_type</i>	(Optional)
<i>fruid</i>	(Optional)
<i>custom_pinfo</i>	(Optional)
<i>partnumrev</i>	(Optional)
<i>vid</i>	(Optional)
<i>eof_marker</i>	(Optional)
<i>csum</i>	(Optional)
<i>psu_record_info_block</i>	(Optional)
<i>record_type</i>	(Optional)
<i>record_info</i>	(Optional)

<i>record_len</i>	(Optional)
<i>record_csum</i>	(Optional)
<i>header_csum</i>	(Optional)
<i>record_identifier</i>	(Optional)
<i>format_ver</i>	(Optional)
<i>standby_pwr_budget</i>	(Optional)
<i>psu_class</i>	(Optional)
<i>psu_watts</i>	(Optional)

**Command Mode**

- /exec

# show ssh key

```
show ssh key [ { dsa | rsa } ] [ __readonly__ { TABLE_sessions <key_type> <key_time> <key_data>
<key_bitcount> <key_fingerprint> } ]
```

## Syntax Description

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
__readonly__	(Optional)	
TABLE_sessions	(Optional)	ssh key
key_type	(Optional)	keys type
key_time	(Optional)	timestamp
key_data	(Optional)	ssh key data
key_bitcount	(Optional)	bitcount
key_fingerprint	(Optional)	fingerprint

## Command Mode

- /exec

# show ssh server

```
show ssh server [ __readonly__ { operation_status <o_status> } ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ssh	Show SSH information
server	Show whether ssh server is enabled or not
<i>__readonly__</i>	(Optional)
<i>operation_status</i>	(Optional) run-time information about ssh
<i>o_status</i>	(Optional) operational status of ssh server

## Command Mode

- /exec

# show startup-config

show startup-config

## Syntax Description

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

Syntax Description		
show	show startup-cfg	
startup-config	show startup system information	
aaa	Display aaa configuration	

## Command Mode

- /exec



# show startup-config aclmgr

```
show startup-config aclmgr [ all ]
```

## Syntax Description

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

Syntax Description		
show		Show running system information
startup-config		Current startup configuration
adjmgr		Display adjmgr information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config amt

show startup-config amt [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
startup-config		Current startup configuration
amt		Display amt information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config arp

show startup-config arp [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
startup-config		Current startup configuration
arp		Display arp information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config bfd

```
show startup-config bfd [ all ]
```

## Syntax Description

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

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

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

Syntax Description	
show	show startup-cfg
startup-config	show startup system information
callhome	Display callhome configuration

## Command Mode

- /exec



# show startup-config cdp

show startup-config cdp [ all ]

## Syntax Description

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

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

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

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

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 cts

show startup-config cts

## Syntax Description

Syntax	Description
show	Show running system information
startup-config	show startup system information
cts	Show CTS information

## Command Mode

- /exec

# show startup-config diagnostic

show startup-config diagnostic [ all ]

## Syntax Description

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

Syntax Description		
show	show startup-cfg	
startup-config	show startup system information	
dot1x	Display dot1x configuration	

## Command Mode

- /exec



# show startup-config eem

show startup-config eem

## Syntax Description

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

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

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

---

**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

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

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

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 icmpv6

show startup-config icmpv6 [ all ]

## Syntax Description

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

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

---

### 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> ] [ expand-port-profile ]
```

## Syntax Description

Syntax Description		
show		Show running system information
startup-config		Current startup configuration
interface		Interface configuration
<i>if0</i>		(Optional) interface type and number in module/slot format
expand-port-profile		(Optional) Expand port profile

## Command Mode

- /exec

# show startup-config interface

show startup-config interface <if0> [ membership ] [ expand-port-profile ]

## Syntax Description

Syntax Description		
show		Show running system information
startup-config		Current startup configuration
interface		Interface configuration
<i>if0</i>		interface type and number in module/slot format
membership	(Optional)	Show membership information
expand-port-profile	(Optional)	Expand port profile

## Command Mode

- /exec

# show startup-config ip

show startup-config ip [ all ]

## Syntax Description

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

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

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

Syntax	Description
show	Show running system information
startup-config	Current startup configuration
isis	Display isis information
all	(Optional) Display running config with defaults

## Command Mode

- /exec



# show startup-config l3vm

show startup-config l3vm [ all ]

## Syntax Description

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

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

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

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

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

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 mmode

show startup-config mmode [ all ]

## Syntax Description

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

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

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

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

Syntax Description		
show		Show running system information
mpls		Configure MPLS settings
strip		Stripping of MPLS headers
startup-config		System startup configuration
all		(Optional) Show startup configuration for STRIPCL with defaults

## Command Mode

- /exec

# show startup-config mpls traffic-eng

show startup-config mpls traffic-eng [ all ]

## Syntax Description

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

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 nat

show startup-config nat [ all ]

## Syntax Description

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 ngoam

show startup-config ngoam

## Syntax Description

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

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 openflow

show startup-config openflow [ all ]

## Syntax Description

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

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

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

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

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

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

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

Syntax Description		
show		Show running system information
startup-config		Current startup configuration
pim6		Display pim6 information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec



# show startup-config port-profile

```
show startup-config port-profile [ <all_profile_name> ]
```

## Syntax Description

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

---

### 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

Syntax	Description
startup-config	Current startup configuration
ptp	show startup config for ptp
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show startup-config radius

show startup-config radius

## Syntax Description

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

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 rpm

show startup-config rpm [ all ]

## Syntax Description

---

**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

Syntax Description		
	show	Show running system information
	startup-config	Current startup configuration
	rsvp	Display RSVP status

## Command Mode

- /exec

# show startup-config security

show startup-config security

## Syntax Description

Syntax Description		
show		show startup-cfg
startup-config		show startup system information
security		Display security configuration

## Command Mode

- /exec



# show startup-config services

show startup-config services

## Syntax Description

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

---

### Syntax Description

---

startup-config Current startup configuration

---

sflow show startup config for sflow

---

all (Optional) show running config with defaults

---

## Command Mode

- /exec

# show startup-config snmp

show startup-config snmp [ all ]

## Syntax Description

Syntax Description	
show	show startup-cfg
startup-config	show startup system information
snmp	Display snmp configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show startup-config switch

```
show startup-config { switch-profile | include-switch-profile }
```

## Syntax Description

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

Syntax	Description
show	show startup-cfg
startup-config	show startup system information

## Command Mode

- /exec

# show startup-config track

show startup-config track

## Syntax Description

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

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

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

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

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

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

Syntax	Description
show	Show running system information
startup-config	System startup-config commands
vlan	Vlan commands

## Command Mode

- /exec

# show startup-config vpc

show startup-config vpc [ all ]

## Syntax Description

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

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

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

## Command Mode

- /exec

# show startup-config vshd

show startup-config vshd

## Syntax Description

Syntax	Description
show	Show startup system information
startup-config	Current startup configuration
vshd	Show startup config for vshd

## 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

### 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

Syntax Description		
show		Show running system information
switch-profile		Show switch-profiles
__readonly__	(Optional)	
profile_name	(Optional)	
cfg_rev	(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

#### 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)

---

*merge\_flags* (Optional)

---

*remote\_status* (Optional)

---

*remote\_error* (Optional)

---

**Command Mode**

- /exec

# show switch-profile buffer

```
show switch-profile [ <profile-name> ] buffer [ __readonly__ <prof-name> <seq_no> <cmd> ]
```

## Syntax Description

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)
<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

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

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 l2-vxlan

show switch-scope controller l2-vxlan

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	switch-scope	switch-scope
	controller	Controller command
	l2-vxlan	l2-vxlan

## Command Mode

- /exec

# show switching-mode

show switching-mode [ *\_\_readonly\_\_* *TABLE\_switching\_mode* <switching-mode-desc> ]

## Syntax Description

Syntax Description		
show		Show running system information
switching-mode		Show the operating switching mode
<i>__readonly__</i>		(Optional)
<i>TABLE_switching_mode</i>		(Optional) the xml switching_mode configuration
<i>switching-mode-desc</i>		(Optional) switching mode description

## Command Mode

- /exec

# show switching-mode fabric-speed

```
show switching-mode fabric-speed [ __readonly__ TABLE_switching_mode <switching-mode-desc> ]
```

## Syntax Description

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
switching-mode-desc		(Optional) switching mode description
fabric-speed		Show the fabric speed

## Command Mode

- /exec

# show system auto-collect tech-support

show system auto-collect tech-support

## Syntax Description

---

**Syntax Description**

---

show Show running system information

---

system System management commands

---

auto-collect Auto collection of information

---

tech-support Collect tech-support in case of service causing supervisor reset

---

## Command Mode

- /exec

# show system clis event-history

```
show system [ internal ] clis event-history { nvdb | client | errors | parser | ha | cli | objstr | objstr-errors }
```

## Syntax Description

Syntax Description		
show		Display output
system		System-related show commands
internal		(Optional) Commands for internal use
clis		cli server
event-history		Event history logs for clis
nvdb		Log of NVDB and PSS events
client		Log of client interaction events
errors		Log of errors
parser		Log of parser events
ha		Log of ha events
cli		Log of command events
objstr		Log of Object Store events
objstr-errors		Log of Object Store error events

## Command Mode

- /exec

# show system cores

show system cores [ *\_\_readonly\_\_* { *<content>* } ]

## Syntax Description

Syntax Description		
show		Show running system information
system		System-related show commands
cores		Displays core transfer option
<i>__readonly__</i>	(Optional)	
<i>content</i>	(Optional)	Core transfer option

## Command Mode

- /exec

# show system error-id

```
show system error-id { list | <i0> } [ __readonly__ <errorid> <facility> <desc> ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	system	System-related show commands
	error-id	Show description about errors
	list	Show description about all error IDs
	<i>i0</i>	Show description about specific error
	<i>__readonly__</i>	(Optional)
	<i>errorid</i>	(Optional)
	<i>facility</i>	(Optional)
	<i>desc</i>	(Optional)

## Command Mode

- /exec

# show system exception-info

show system exception-info

## Syntax Description

Syntax Description		
	show	Show running system information
	system	System-related show commands
	exception-info	Show last exception log information

## Command Mode

- /exec



# show system fabric-mode

show system fabric-mode [ *\_\_readonly\_\_* *TABLE\_system\_fabric\_mode* <system-fabric-mode-desc> ]

## Syntax Description

Syntax Description		
show		Show running system information
system		Show system information
fabric-mode		Show the fabric operation mode information
<i>__readonly__</i>		(Optional)
<i>TABLE_system_fabric_mode</i>		(Optional) the xml <i>system_fabric_mode</i> configuration
<i>system-fabric-mode-desc</i>		(Optional) system fabric mode description

## Command Mode

- /exec

## show system inband queuing statistics

```
show system inband queuing statistics [ __readonly__ { TABLE_sys_inband_queue_stats <inbandpktunmap>
<inbandpktbpduqueue> <inbandpktmapq0> <inbandpktmapq1> <klmpktmapbpdu> <klmpktmaparp>
<klmpktmapq0> <klmpktmapq1> <klmpktmapveobc> <queuename> [ TABLE_bpdu_stats { <pmrcvpkts>
<pmdroppkts> <pmcongested> <rcvbuf> <sndbuf> <pmnodrop> } ] [ TABLE_q_stats { <indexstat>
<ipmrcvpkts> <ipmdroppkts> <ipmcongested> <ircvbuf> <isndbuf> <ipmnodrop> } } ]
```

### Syntax Description

#### 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)
<i>TABLE_sys_inband_queue_stats</i>	(Optional) System Inband Statistics
<i>inbandpktunmap</i>	(Optional) Inband packets unmapped
<i>inbandpktbpduqueue</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>queuename</i>	(Optional) Inband queue name
<i>TABLE_bpdu_stats</i>	(Optional) BPDU Statistics
<i>pmrcvpkts</i>	(Optional) BPDU Receive Packets
<i>pmdroppkts</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>pmnodrop</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>ipmnodrop</i>	(Optional) Queue no drop

**Command Mode**

- /exec

# show system inband queuing status

```
show system inband queuing status [ __readonly__ [ { TABLE_sys_inband_queue_status <pminbandweigh0>
<pminbandweigh1> <pminbandweigh2> } ] ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
system	System-related show commands
inband	Inband Commands
queuing	Inband Queuing commands
status	Selective Packet Discard Information
<i>__readonly__</i>	(Optional)
<i>TABLE_sys_inband_queue_status</i>	(Optional) System Inband Status
<i>pminbandweigh0</i>	(Optional) BPDU Weight
<i>pminbandweigh1</i>	(Optional) Q0 Weight
<i>pminbandweigh2</i>	(Optional) Q1 Weight

## Command Mode

- /exec

# show system kgdb

show system kgdb

## Syntax Description

Syntax Description	
show	Show running system information
system	System-related show commands
kgdb	Displays state of kgdb_enable flag

## Command Mode

- /exec

# show system memory-thresholds

```
show system memory-thresholds [ __readonly__ <critical_mem_threshold> <severe_mem_threshold>
<minor_mem_threshold> ]
```

## Syntax Description

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

Syntax Description		
	show	Show running system information
	system	System configuration commands
	mode	Show system mode
	<i>__readonly__</i>	(Optional)
	<i>system_mode</i>	(Optional) system mode
	<i>timer_state</i>	(Optional) timer state

## Command Mode

- /exec

# show system nve infra-vlans

show system nve infra-vlans [ *\_\_readonly\_\_* <output> ]

## Syntax Description

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>output</i>	(Optional)

## Command Mode

- /exec



## show system pss shrink status

```
show system pss shrink status [ details ] [ __readonly__ { [ <summary> ] [ TABLE_per_vdc <vdc_id> [
TABLE_detail_events <service> <vdc> <event> ] ] [ TABLE_events <service> <vdc> <event> ] } ]
```

### Syntax Description

Syntax Description	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
__readonly__	(Optional)
summary	(Optional) PSS shrink summary
TABLE_per_vdc	(Optional)
vdc_id	(Optional) VDC id
TABLE_detail_events	(Optional) PSS shrink events
service	(Optional) Service name
vdc	(Optional) VDC number
event	(Optional) PSS evnets
TABLE_events	(Optional) PSS shrink events
service	(Optional) Service name
vdc	(Optional) VDC number
event	(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

Syntax Description	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

Syntax Description		
show		Show running system information
system		System-related show commands
redundancy		redundancy status
status		Current redundancy status
<i>__readonly__</i>		(Optional) readonly
<i>rdn_mode_admin</i>		(Optional) Redundancy Mode Admin
<i>rdn_mode_oper</i>		(Optional) Redundancy Mode Operational
<i>this_sup</i>		(Optional) This Supervisor
<i>this_sup_rdn_state</i>		(Optional) Redundancy State
<i>this_sup_sup_state</i>		(Optional) Supervisor State
<i>this_sup_internal_state</i>		(Optional) Supervisor State
<i>other_sup</i>		(Optional) Other Supervisor
<i>other_sup_sup_state</i>		(Optional) Supervisor State
<i>other_sup_rdn_state</i>		(Optional) Redundancy tate
<i>other_sup_internal_state</i>		(Optional) Supervisor State

### Command Mode

- /exec

# show system reset-reason

```
show system reset-reason [ __readonly__ { TABLE_reason <slot> { TABLE_rr <time> <reason> <service>
<version> } } ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	system	System-related show commands
	reset-reason	Show last reset reason
	<i>__readonly__</i>	(Optional)
	<i>TABLE_reason</i>	(Optional) Reset reason info
	<i>slot</i>	(Optional) slot
	<i>TABLE_rr</i>	(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 <s0> <santa-cruz-range> [ __readonly__ { TABLE_xbarreason <slot> { TABLE_rr
<time> <reason> <service> <version> } } ]
```

### Syntax Description

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)	
<i>TABLE_xbarreason</i>	(Optional)	Reset reason info
<i>slot</i>	(Optional)	slot
<i>TABLE_rr</i>	(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

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)
	<i>TABLE_reason</i>	(Optional) Reset reason info
	<i>slot</i>	(Optional) slot
	<i>TABLE_rr</i>	(Optional) reset reason
	<i>time</i>	(Optional) time
	<i>reason</i>	(Optional) reset reason
	<i>service</i>	(Optional) service name
	<i>version</i>	(Optional) version

## Command Mode

- /exec

## show system resources

```
show system resources [ __readonly__ { [ <load_avg_1min> ] [ <load_avg_5min> ] [ <load_avg_15min> ]
[ <processes_total> ] [ <processes_running> ] [ <cpu_state_user> ] [ <cpu_state_kernel> ] [ <cpu_state_idle>
] [ TABLE_cpu_usage <cpuid> <user> <kernel> <idle> ] [ <memory_usage_total> ] [ <memory_usage_used>
] [ <memory_usage_free> ] [ <current_memory_status> ] } ]
```

### Syntax Description

Syntax Description		
show		Show running system information
system		System-related show commands
resources		Show system resources
<i>__readonly__</i>		(Optional)
<i>TABLE_cpu_usage</i>		(Optional) All Cpu Usage Information
<i>load_avg_1min</i>		(Optional) Load Average 1 Min
<i>load_avg_5min</i>		(Optional) Load Average 5 Min
<i>load_avg_15min</i>		(Optional) Load Average 15 Min
<i>processes_total</i>		(Optional) Total processes
<i>processes_running</i>		(Optional) Running Processes
<i>cpu_state_user</i>		(Optional) CPU State User
<i>cpu_state_kernel</i>		(Optional) CPU State Kernel
<i>cpu_state_idle</i>		(Optional) CPU State Idle
<i>cpuid</i>		(Optional) CPU id
<i>user</i>		(Optional) user time
<i>kernel</i>		(Optional) kernel time
<i>idle</i>		(Optional) idle time
<i>memory_usage_total</i>		(Optional) Memory Usage Total
<i>memory_usage_used</i>		(Optional) Memory Usage Used
<i>memory_usage_free</i>		(Optional) Memory Usage Free
<i>current_memory_status</i>		(Optional) Current Memory Status

### Command Mode

- /exec

# show system resources

show system resources <i0>

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	system	System-related show commands
	resources	Show system resources
	<i>i0</i>	time interval in seconds

## Command Mode

- /exec



# show system resources module

show system resources [ <i0> ] module <module>

## Syntax Description

Syntax Description	
show	Show running system information
system	System-related show commands
resources	Show system resources
<i>i0</i>	(Optional) time interval in seconds
module	Show system resources for specified module
<i>module</i>	module number

## Command Mode

- /exec

# show system resources module all

show system resources [ <i0> ] module all

## Syntax Description

Syntax Description	
show	Show running system information
system	System-related show commands
resources	Show system resources
<i>i0</i>	(Optional) time interval in seconds
module	Show system resources for specified module
all	Show system resources for all modules

## Command Mode

- /exec

# show system routing mode

show system routing mode [ *\_\_readonly\_\_* *TABLE\_system\_routing\_mode* <system-routing-mode-desc> ]

## Syntax Description

Syntax Description	Description
show	Show running system information
system	Show system information
routing	Show routing related information
mode	Show mode related information
<i>__readonly__</i>	(Optional)
<i>TABLE_system_routing_mode</i>	(Optional) the xml <i>system_routing_mode</i> configuration
<i>system-routing-mode-desc</i>	(Optional) system routing mode description

## Command Mode

- /exec

# show system srg

show system srg

## Syntax Description

Syntax Description	
show	Show running system information
system	System-related show commands
srg	Displays the system SRG

## Command Mode

- /exec

# show system standby manual-boot

```
show system standby manual-boot [ __readonly__ { <content> } ]
```

## Syntax Description

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)	
content	(Optional)	Displays system standby manual boot option

## Command Mode

- /exec

# show system switch-mode

show system switch-mode [ *\_\_readonly\_\_* <*op\_mode*> ]

## Syntax Description

Syntax Description		
show	Show running system information	
system	System-related show commands	
switch-mode	Show current operational mode of the switch	
<i>__readonly__</i>	(Optional)	
<i>op_mode</i>	(Optional) Operational Mode	

## Command Mode

- /exec

# show system switchover impact

```
show system switchover impact [ <uri0> [ <uri1> ] ]
```

## Syntax Description

Syntax Description	
show	Show running system information
system	System-related show commands
switchover	Show the software switchover impact between two images
impact	impact {standby_system_uri} {active_system_uri}
<i>uri0</i>	(Optional) Enter standby URI
<i>uri1</i>	(Optional) Enter active URI

## Command Mode

- /exec

# show system uptime

```
show system uptime [ __readonly__ { <sys_st_time> <sys_up_days> <sys_up_hrs> <sys_up_mins>
<sys_up_secs> <kn_up_days> <kn_up_hrs> <kn_up_mins> <kn_up_secs> [ <as_up_days> ] [ <as_up_hrs>
] [ <as_up_mins> ] [ <as_up_secs> ] } ]
```

## Syntax Description

### Syntax Description

show	Show running system information
system	System-related show commands
uptime	Show how long the system has been up and running
<i>__readonly__</i>	(Optional) readonly
<i>sys_st_time</i>	(Optional) System Start Time
<i>sys_up_days</i>	(Optional) System Uptime Days
<i>sys_up_hrs</i>	(Optional) System Uptime Hours
<i>sys_up_mins</i>	(Optional) System Uptime Minutes
<i>sys_up_secs</i>	(Optional) System Uptime Seconds
<i>kn_up_days</i>	(Optional) Kernel Uptime Days
<i>kn_up_hrs</i>	(Optional) Kernel Uptime Hours
<i>kn_up_mins</i>	(Optional) Kernel Uptime Minutes
<i>kn_up_secs</i>	(Optional) Kernel Uptime Seconds
<i>as_up_days</i>	(Optional) Active Sup Uptime Days
<i>as_up_hrs</i>	(Optional) Active Sup Uptime Hours
<i>as_up_mins</i>	(Optional) Active Sup Uptime Minutes
<i>as_up_secs</i>	(Optional) Active Sup Uptime Seconds

## Command Mode

- /exec



# show system verify bios flash

```
show system verify bios { flash <i0> [ module <module> ] | protection <i1> [ module <module1> ] }
```

## Syntax Description

Syntax Description	
show	Show running system information
system	System-related show commands
verify	Verify commands
bios	Verify bios
flash	verify bios flash or protection status
<i>i0</i>	Select primary or alternate flash
module	(Optional) Module number
<i>module</i>	(Optional) Enter module number
protection	verify bios flash or protection status
<i>i1</i>	Select primary or alternate flash
module	(Optional) Module number
<i>module1</i>	(Optional) Enter module number

## Command Mode

- /exec

# show system vlan reserved

```
show system vlan reserved [ __readonly__ { TABLE_vlan <current_reserved_vlan_start>
<current_reserved_vlan_end> <future_reserved_vlan_start> <future_reserved_vlan_end> } ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
system	system wide configuration
vlan	VLAN status
reserved	Show system VLAN allocation
__readonly__	(Optional) Read Only
TABLE_vlan	(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



## T Show Commands

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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

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

#### Syntax Description

show	Show running system information
tacacs-server	Show TACACS+ configuration information
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Tacacs global source interface
<i>global_idle_time</i>	(Optional) Tacacs global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of tacacs servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>port</i>	(Optional) Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server
<i>host0</i>	(Optional) DNS name or IP address
<i>tacacs_port</i>	(Optional) TACACS+ server port
<i>shared_key</i>	(Optional) TACACS+ shared secret
<i>test_password</i>	(Optional) User password in test packets

### Command Mode

- /exec

# show tacacs-server

```
show tacacs-server { <host0> } [ __readonly__ { <host1> } <tacacs_port> <shared_key>
<idle_time><test_username> <test_password> ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
tacacs-server	Show TACACS+ configuration information	
<i>host0</i>	DNS name or IP address	
<i>__readonly__</i>	(Optional)	
<i>host1</i>	(Optional) DNS name or IP address	
<i>tacacs_port</i>	(Optional) TACACS+ server port	
<i>shared_key</i>	(Optional) TACACS+ shared secret	
<i>test_password</i>	(Optional) User password in test packets	

## Command Mode

- /exec

# show tacacs-server directed-request

```
show tacacs-server directed-request [ __readonly__ { <tacacs_directedRequest_status> } ]
```

## Syntax Description

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

#### Syntax Description

<code>show</code>	Show running system information
<code>tacacs-server</code>	Show TACACS+ configuration information
<code>groups</code>	Show TACACS+ server group configuration information
<code>s0</code>	(Optional) TACACS+ server group name
<code>__readonly__</code>	(Optional)
<code>num_of_groups</code>	(Optional) number of groups
<code>TABLE_group</code>	(Optional)
<code>group_name</code>	(Optional) name of the group
<code>TABLE_server</code>	(Optional)
<code>server_ip</code>	(Optional) DNS name or IP address
<code>port</code>	(Optional) TACACS+ server port
<code>dead_time</code>	(Optional) Time interval for which the server is marked as dead before sending a test command
<code>vrf_name</code>	(Optional) name of the vrf
<code>source_interface</code>	(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

#### 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

#### 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 tamnw internal errors

show tamnw internal [ event-history ] errors

## Syntax Description

Syntax Description		
show		Show running system information
tamnw		Show information about tamnw
internal		Show internal tamnw information
event-history	(Optional)	Show various event logs of Tamnws
errors		Show error logs of TAMNW

## Command Mode

- /exec

# show tamnw internal msgs

show tamnw internal [ event-history ] msgs

## Syntax Description

Syntax Description		
show		Show running system information
tamnw		Show information about tamnw
internal		Show internal tamnw information
event-history	(Optional)	Show various event logs of Tamnws
msgs		Show various message logs of TAMNW

## Command Mode

- /exec

# show tech-support

show tech-support [ time-optimized ] [ forced ]

## Syntax Description

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

---

### 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

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

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

Syntax	Description
show	Show running system information
tech-support	Gather information for troubleshooting
aclqos	Configure aclqos debug

## Command Mode

- /exec

# show tech-support aclqos

show tech-support aclqos

## Syntax Description

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

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

Syntax Description		
show	Show	running system information
tech-support	Gather	information for troubleshooting
adjmgr	Display	Adjmgr information
brief	(Optional)	Brief information

## Command Mode

- /exec

# show tech-support all-binary

show tech-support all-binary

## Syntax Description

Syntax Description	
show	Show running system information
tech-support	Gather information for troubleshooting
all-binary	Dump tech support for all applications in binary

## Command Mode

- /exec

# show tech-support all

show tech-support all

## Syntax Description

---

### Syntax Description

---

show	Show running system information
tech-support	Gather information for troubleshooting
all	Gather detailed information for troubleshooting

---

## Command Mode

- /exec

# show tech-support all binary

show tech-support all binary <uri0>

## Syntax Description

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

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

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

---

### 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 bfd

show tech-support bfd

## Syntax Description

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

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

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

---

### 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

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

---

### 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

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

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

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

---

### 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

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

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

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

---

### 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

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

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

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 cts

show tech-support cts

## Syntax Description

---

### Syntax Description

---

tech-support Gather information for troubleshooting

---

cts Gather information for cts troubleshooting

---

## Command Mode

- /exec

# show tech-support dcbx

show tech-support dcbx

## Syntax Description

Syntax Description	
show	Show running system information
tech-support	Gather information for troubleshooting
dcbx	Gather detailed information for DCBX component

## Command Mode

- /exec

# show tech-support details

show tech-support details [ space-optimized ]

## Syntax Description

---

### Syntax Description

---

show	Show running system information
tech-support	Gather information for troubleshooting
details	Gather detailed information for troubleshooting
space-optimized	(Optional) Gather tech-support info. using less memory and disk space

---

## Command Mode

- /exec

# show tech-support dhclient

show tech-support dhclient

## Syntax Description

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

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

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

Syntax Description	
show	show tech-support
tech-support	Gather information for troubleshooting
dot1x	Display dot1x information

## Command Mode

- /exec



# show tech-support eem

show tech-support eem

## Syntax Description

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

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

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

---

### Syntax Description

---

show	Show running system information
tech-support	Gather information for troubleshooting
ethpm	Gather detailed information for ETHPM troubleshooting

---

## Command Mode

- /exec

# show tech-support evb

show tech-support evb

## Syntax Description

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

---

### 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 fast-reload

show tech-support fast-reload

## Syntax Description

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

---

**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 fips

show tech-support fips

## Syntax Description

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 gold

show tech-support gold

## Syntax Description

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

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

---

**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

Syntax Description		
show		Show running system information
tech-support		Gather information for troubleshooting
ha		Gather detailed information for HA troubleshooting
module		Gather info related to a module
<i>module</i>		Enter module number

## Command Mode

- /exec

# show tech-support ha standby

show tech-support ha standby [ commands ]

## Syntax Description

---

### Syntax Description

---

show	Show running system information
tech-support	Gather information for troubleshooting
ha	Gather detailed information for HA troubleshooting
standby	Gather detailed information for HA troubleshooting from standby supervisor
commands	(Optional) Show commands executed as part of show tech-support ha commands

---

## Command Mode

- /exec

# show tech-support hsrp

show tech-support hsrp

## Syntax Description

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

Syntax Description		
show	Show running system information	
tech-support	Gather information for trouble shooting	
hsrp	Show hsrp tech-support information	
brief	Show tech-support information in brief	

## Command Mode

- /exec



# show tech-support icmpv6

show tech-support icmpv6 [ brief ]

## Syntax Description

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

---

### 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

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

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

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

---

### 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

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 internal link-events

show tech-support internal link-events

## Syntax Description

Syntax Description		
show		Show running system information
tech-support		Gather information for troubleshooting
internal		Gather internal info for troubleshooting
link-events		Gather info related to link-events

## Command Mode

- /exec



# show tech-support internal link-events module

show tech-support internal link-events module <module>

## Syntax Description

Syntax Description		
show	Show running system information	
tech-support	Gather information for troubleshooting	
internal	Gather internal info for troubleshooting	
link-events	Gather info related to link-events	
module	Gather info related to a module	
<i>module</i>	Enter module number	

## Command Mode

- /exec

# show tech-support internal module

show tech-support internal module <module>

## Syntax Description

Syntax Description		
show	Show running system information	
tech-support	Gather information for troubleshooting	
internal	Gather internal info for troubleshooting	
module	Gather info related to a module	
<i>module</i>	Enter module number	

## Command Mode

- /exec

# show tech-support internal vsan

show tech-support internal vsan <vsan\_id>

## Syntax Description

Syntax Description		
show		Show running system information
tech-support		Gather information for troubleshooting
internal		Gather internal info for troubleshooting
vsan		Gather info related to a vsan
<i>vsan_id</i>		Enter VSAN number

## Command Mode

- /exec

# show tech-support ip

show tech-support ip [ brief ]

## Syntax Description

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

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

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

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

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

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

---

### 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

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

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 pim

show tech-support ipv6 pim [ brief ]

## Syntax Description

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

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

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 l2

show tech-support l2

## Syntax Description

---

### 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 clients

show tech-support l2fm clients [ module <module> ]

## Syntax Description

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

Syntax Description	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

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

---

### 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

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

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

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

---

### 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

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

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

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

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

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

---

### 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

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 mmode

show tech-support mmode

## Syntax Description

---

### Syntax Description

---

show	Show running system information
------	---------------------------------

---

tech-support	Gather information for troubleshooting
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---

mmode	Gather information for troubleshooting mmode
-------	--

---

## Command Mode

- /exec



# show tech-support module

show tech-support module <module>

## Syntax Description

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

---

### 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

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

---

### 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

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

---

### 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

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

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

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

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

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

Syntax Description		
show	Show running system information	
tech-support	Gather information for troubleshooting	
mpls fwd	Display MPLS forwarding information	
brief	(Optional) Brief information	

## Command Mode

- /exec

# show tech-support mvpn

show tech-support mvpn [ brief ]

## Syntax Description

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

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

## Syntax Description

Syntax Description	
show	Show running system information
tech-support	Gather information for trouble-shooting
nbm	Non Blocking Multicast

## Command Mode

- /exec

# show tech-support netflow

show tech-support netflow [ brief ]

## Syntax Description

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

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

---

### 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

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

Syntax Description		
show	Show	running system information
tech-support	Gather	information for troubleshooting
npacl	Display	npacl information
brief	(Optional)	Brief npacl information

## Command Mode

- /exec

# show tech-support ns

show tech-support ns

## Syntax Description

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

---

### 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

Syntax	Description
show	Show running system information
tech-support	Gather information for trouble shooting
nve	Display NVE information

## Command Mode

- /exec

# show tech-support object-store user

show tech-support object-store user <username>

## Syntax Description

---

### Syntax Description

---

show      Show Object Store

---

tech-support      Gather information for troubleshooting

---

object-store      Gather information from object store for Controller troubleshooting

---

user          nxapi username

---

*username*      nxapi username

---

## Command Mode

- /exec



# show tech-support onep

show tech-support onep

## Syntax Description

Syntax	Description
show	Show running system information
tech-support	Diagnostic information for technical support
onep	One Platform

## Command Mode

- /exec

# show tech-support openflow

show tech-support openflow [ brief | detailed ]

## Syntax Description

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 ospf

show tech-support ospf [ brief ]

## Syntax Description

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

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

Syntax	Description
show	Show running system information
tech-support	Gather information for trouble shooting
otv	Display OTV information
brief	(Optional) Brief OTV information

## Command Mode

- /exec

# show tech-support otv isis

show tech-support otv isis [ brief ]

## Syntax Description

Syntax Description		
show	Show	running system information
tech-support	Gather	information for trouble shooting
otv	IS-IS	events
isis	IS-IS	events
brief	(Optional)	Brief information

## Command Mode

- /exec

# show tech-support page

show tech-support page [ time-optimized ] [ forced ]

## Syntax Description

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

---

### 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

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

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

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

---

### Syntax Description

---

show	Show running system information
------	---------------------------------

---

tech-support	Gather information for troubleshooting
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---

pixm	Gather detailed information for vdc-local-PIXM troubleshooting
------	--

---

## Command Mode

- /exec

# show tech-support pixmc-all

show tech-support pixmc-all

## Syntax Description

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

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

show tech-support platform

## Syntax Description

Syntax Description	
show	Show running system information
tech-support	Gather information for troubleshooting
platform	Get platform related information

## Command Mode

- /exec

# show tech-support plcmgr

show tech-support plcmgr [ detail ]

## Syntax Description

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### Syntax Description

---

show	Show running system information
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---

tech-support	Gather information for troubleshooting
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plcmgr	Policy Manager
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---

detail	(Optional) Print more details (e.g. messages,etc)
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---

## Command Mode

- /exec



# show tech-support pltfm-config

show tech-support pltfm-config

## Syntax Description

Syntax Description	
show	Show running system information
tech-support	Gather information for troubleshooting
pltfm-config	Gather detailed information for pltfm-config troubleshooting

## Command Mode

- /exec

# show tech-support port-channel

show tech-support port-channel

## Syntax Description

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

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

---

### 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

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

---

### 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

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

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

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

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

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

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 rpm

{ show tech-support rpm }

## Syntax Description

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 satmgr

show tech-support satmgr

## Syntax Description

---

### 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

Syntax	Description
show	Show running system information
tech-support	Gather information for troubleshooting
security	show tech support information for security

## Command Mode

- /exec

# show tech-support services

show tech-support services [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
tech-support	Gather information for trouble shooting
services	Services
detail	(Optional) Show more details

## Command Mode

- /exec



# show tech-support services

show tech-support services [ detail ]

## Syntax Description

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

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### Syntax Description

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show	Show running system information
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---

tech-support	Gather information for troubleshooting
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session-mgr	Gather information for troubleshooting session manager
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## Command Mode

- /exec

# show tech-support sflow

show tech-support sflow

## Syntax Description

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 sksd

show tech-support sksd

## Syntax Description

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

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

Syntax Description		
show	Show running system information	
tech-support	Gather information for trouble shooting	
sla	Service Level Agreement (SLA)	
sender	Configure sla-sender tech support	
brief	(Optional) Show less details	
detail	(Optional) Show more details	

## Command Mode

- /exec

# show tech-support smm

show tech-support smm

## Syntax Description

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

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

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 statsclient

show tech-support statsclient [ module <module> ]

## Syntax Description

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

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

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

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

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**Syntax Description**

---

show      show tech-support

---

tech-support      Gather information for troubleshooting

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## Command Mode

- /exec

# show tech-support telemetry

show tech-support telemetry

## Syntax Description

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

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

Syntax Description	
show	Show running system information
tech-support	Gather information for troubleshooting
tunnel	Gather detailed information for tunnel troubleshooting
commands	(Optional) Lists commands under 'show tunnel tech-support' command
detail	(Optional) Gather detailed information for tunnel troubleshooting
commands1	(Optional) Lists commands under 'Show tech-support tunnel detail' commands

## Command Mode

- /exec

# show tech-support udd

show tech-support udd

## Syntax Description

---

### 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

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

---

### 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

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 vmtracker

show tech-support vmtracker

## Syntax Description

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

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

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

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

Syntax	Description
vrrpv3	VRRPv3 configuration commands
show	Show running system information
tech-support	Gather information for trouble shooting
detail	(Optional) Detailed output

## Command Mode

- /exec

# show tech-support vshd

show tech-support vshd

## Syntax Description

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 vxlan-evpn

show tech-support vxlan-evpn

## Syntax Description

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

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

Syntax Description		
show	Show tech-support for PD VxLAN component	
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

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

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### Syntax Description

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show	show running system information
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tech-support	Gather information for trouble shooting
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xml	Gather information for xml trouble shooting
-----	---

---

## Command Mode

- /exec



# show tech-support xos

show tech-support xos [ brief ]

## Syntax Description

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 }
```

## Syntax Description

Syntax Description		
	show	Show running system information
	telemetry	Show telemetry info
	control	Show telemetry control
	database	Show database
	subscriptions	(Optional) Show subscriptions
	destination-groups	(Optional) Show destination-groups
	destinations	(Optional) Show destinations
	sensor-paths	(Optional) Show sensor-paths
	sensor-groups	(Optional) Show sensor-groups
	stats	Show stats

## Command Mode

- /exec

# show telemetry data collector brief

show telemetry data collector { brief | details }

## Syntax Description

Syntax Description	
show	Show running system information
telemetry	Show telemetry info
data	Show telemetry data info
collector	Show telemetry data collector info
brief	Show component level data collection stats
details	Show path level data collection stats

## Command Mode

- /exec

# show telemetry event collector stats

show telemetry event collector { stats | errors }

## Syntax Description

Syntax	Description
show	Show running system information
telemetry	Show telemetry info
event	Show telemetry event info
collector	Show telemetry event collector info
stats	Show all tm stat info
errors	Show all tm error info

## Command Mode

- /exec

# show telemetry pipeline stats

show telemetry pipeline stats

## Syntax Description

Syntax	Description
show	Show running system information
telemetry	Show telemetry info
pipeline	Show telemetry pipeline info
stats	Show all telemetry pipeline stats

## Command Mode

- /exec

# show telemetry transport

```
show telemetry transport [ <session_id> [ { stats | errors } ] ]
```

## Syntax Description

Syntax Description	
show	Show running system information
telemetry	Show telemetry info
transport	Show telemetry event info
<i>session_id</i>	(Optional) Session id
stats	(Optional) Show all tm stat info
errors	(Optional) Show all tm error info

## Command Mode

- /exec

# show telnet server

```
show telnet server [ __readonly__ { operation_status <o_status> } ]
```

## Syntax Description

Syntax Description		
	show	Show running system information
	telnet	Show telnet server configuration
	server	Show telnet server configuration
	<i>__readonly__</i>	(Optional)
	<i>operation_status</i>	(Optional) run-time information about telnet
	<i>o_status</i>	(Optional) operational status of telnet server

## Command Mode

- /exec

# show terminal

show terminal

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

terminal Display terminal configuration parameters

---

## Command Mode

- /exec



# show terminal internal info

show terminal internal info

## Syntax Description

Syntax Description	
show	Show running system information
terminal	Display terminal configuration parameters
internal	Display terminal internal information
info	Display terminal internal info

## Command Mode

- /exec

# show terminal output xml version

show terminal output xml version

## Syntax Description

Syntax Description	
show	Show running system information
terminal	Display
output	Display
xml	Display
version	Display

## Command Mode

- /exec

## show time-range

```
show time-range [ <name> ] [ __readonly__ TABLE_timerange <timerange_name> <active> [ TABLE_seqno
<seqno> { { absolute [ <start_abs_h> <start_abs_m> <start_abs_s> <start_abs_d> <start_abs_mon>
<start_abs_y> ] [ <end_abs_h> <end_abs_m> <end_abs_s> <end_abs_d> <end_abs_mon> <end_abs_y> ]
} | { periodic { Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday | daily | weekdays |
weekend } + <start_per_h> <start_per_m> <start_per_s> [ <eday> ] <end_per_h> <end_per_m> <end_per_s>
} | { <remark> } } ] ] ]
```

### Syntax Description

Syntax Description		
show		Show running system information
time-range		Define time range entries
<i>name</i>	(Optional)	Time range name
<i>__readonly__</i>	(Optional)	
TABLE_timerange	(Optional)	
<i>timerange_name</i>	(Optional)	
<i>active</i>	(Optional)	active
TABLE_seqno	(Optional)	
<i>seqno</i>	(Optional)	Sequence number
absolute	(Optional)	
periodic	(Optional)	
<i>remark</i>	(Optional)	
<i>start_abs_h</i>	(Optional)	
<i>start_abs_m</i>	(Optional)	
<i>start_abs_s</i>	(Optional)	
<i>start_abs_d</i>	(Optional)	
<i>start_abs_mon</i>	(Optional)	
<i>start_abs_y</i>	(Optional)	
<i>end_abs_h</i>	(Optional)	
<i>end_abs_m</i>	(Optional)	
<i>end_abs_s</i>	(Optional)	
<i>end_abs_d</i>	(Optional)	

<i>end_abs_mon</i>	(Optional)
<i>end_abs_y</i>	(Optional)
Monday	(Optional) Monday
Tuesday	(Optional) Tuesday
Wednesday	(Optional) Wednesday
Thursday	(Optional) Thursday
Friday	(Optional) Friday
Saturday	(Optional) Saturday
Sunday	(Optional) Sunday
daily	(Optional) Every day of the week
weekdays	(Optional) Monday thru Friday
weekend	(Optional) Saturday and Sunday
<i>start_per_h</i>	(Optional)
<i>start_per_m</i>	(Optional)
<i>start_per_s</i>	(Optional)
<i>eday</i>	(Optional) Day of the week
<i>end_per_h</i>	(Optional)
<i>end_per_m</i>	(Optional)
<i>end_per_s</i>	(Optional)

**Command Mode**

- /exec

# show track

```
show track { [ <object-id> | interface | ip { route | sla } | ipv6 routev6 | list boolean and | list boolean or | list
threshold weight | list threshold percentage ] } [ __readonly__ <show_track_start> { TABLE_track_detail
<st_obj_id> <st_obj_type> <st_obj_instance> <st_obj_param> <st_obj_state> <st_obj_chg_cnt>
<st_last_chg_time> <st_threshold_info> <st_track_list_obj> <st_obj_up_delay> <st_obj_down_delay>
<st_obj_timer_value> <st_vrf> <st_ipsla_rcode> <st_ipsla_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> } <show_track_end> ]
```

## Syntax Description

Syntax Description		
show		Negate a command or set its defaults
track		Tracking information
<i>object-id</i>		(Optional) Tracked object
interface		(Optional) Interface objects
ip		(Optional) IPv4 Protocol objects
route		(Optional) route (ipv4) objects
sla		(Optional) Service Level Agreement objects
ipv6		(Optional) IPv6 Protocol objects
routev6		(Optional) route (ipv6) objects
list		(Optional) Tracklist objects
boolean		(Optional) Boolean Traclist
and		(Optional) AND boolean objects
or		(Optional) OR boolean objects
threshold		(Optional) Threshold parameters
weight		(Optional) Threshold weight
percentage		(Optional) Threshold percentage
__readonly__		(Optional) Read only
<i>show_track_start</i>		(Optional) Show track start
TABLE_track_detail		(Optional) Track table detail
<i>st_obj_id</i>		(Optional) Object id
<i>st_obj_type</i>		(Optional) Object Type

<i>st_obj_instance</i>	(Optional) Object instance
<i>st_obj_param</i>	(Optional) Object parameter
<i>st_obj_state</i>	(Optional) Object status
<i>st_obj_chg_cnt</i>	(Optional) Count of Object state changes
<i>st_last_chg_time</i>	(Optional) Timestamp of last change
<i>st_threshold_info</i>	(Optional) Threshold Parameters
<i>st_track_list_obj</i>	(Optional) Objects part of this list
<i>show_track_clnt_hdr</i>	(Optional) Tracked by:
<i>show_track_clnt_start</i>	(Optional) Show track client start
TABLE_track_clnt_info	(Optional) Track client info
<i>st_client_name</i>	(Optional) Tracking client name
<i>st_client_iface</i>	(Optional) Tracking client interface
<i>st_client_group_id</i>	(Optional) Client group id
<i>st_client_detail</i>	(Optional) Tracking client detail
<i>show_track_clnt_end</i>	(Optional) End of track client
<i>st_track_list_info</i>	(Optional) Track list info
<i>st_obj_up_delay</i>	(Optional) Delay up notification
<i>st_obj_down_delay</i>	(Optional) Delay down notification
<i>st_obj_timer_value</i>	(Optional) Current value of timer
<i>st_vrf</i>	(Optional) VRF
<i>st_ipsla_rcode</i>	(Optional) IP SLA Return Code
<i>st_ipsla_rtt</i>	(Optional) IP SLA RTT
<i>show_track_end</i>	(Optional) End of Track

### Command Mode

- /exec

## show track brief

```
show track { [ <object-id> | interface | ip { route | sla } | ipv6 routev6 | list boolean and | list boolean or | list
threshold weight | list threshold percentage ] } brief [ __readonly__ { <show_track_brf_start>
<show_track_brf_all_begin> { TABLE_track_brief <st_brf_obj_id> <st_brf_obj_type> <st_brf_obj_instance>
<st_brf_obj_param> <st_brf_obj_state> <st_brf_last_chg_time> } <show_track_brf_end> } ]
```

### Syntax Description

#### 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
<i>TABLE_track_brief</i>	(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 track internal errors

show track internal [ event-history ] errors

## Syntax Description

Syntax Description		
show		Show running system information
track		Show track information
internal		Show internal track information
event-history	(Optional)	Show various track event logs
errors		Show various track error logs

## Command Mode

- /exec

# show track internal info counters

show track internal info counters

## Syntax Description

Syntax	Description
show	Show running system information
track	Show track information
internal	Show internal track information
info	Show internal data structure information
counters	Show track counters information

## Command Mode

- /exec

# show track internal info global

show track internal info global

## Syntax Description

Syntax	Description
show	Show running system information
track	Show track information
internal	Show internal track information
info	Show internal data structure information
global	Display track global info

## Command Mode

- /exec

# show track internal info object

show track internal info object <object-id> [ up | down ]

## Syntax Description

Syntax Description	Description
show	Show running system information
track	Show track information
internal	Show internal track information
info	Show internal data structure information
object	Show internal information about track object
<i>object-id</i>	Enter object id
up	(Optional) Show up events
down	(Optional) Show down events

## Command Mode

- /exec

# show track internal mem-stats

```
show track internal mem-stats [ uuid <i0> ] [ track-only ] [ detail ]
```

## Syntax Description

Syntax Description	
show	Show running system information
track	Show track information
internal	Show internal track information
mem-stats	Show memory allocation statistics of track
uuid	(Optional) Show stats only for this uuid
<i>i0</i>	(Optional) Enter uuid
track-only	(Optional) Show stats of only track
detail	(Optional) Show detail memstats for track

## Command Mode

- /exec

# show track internal msgs

show track internal [ event-history ] msgs

## Syntax Description

Syntax Description		
show		Show running system information
track		Show track information
internal		Show internal track information
event-history	(Optional)	Show various track event logs
msgs		Show various track message logs

## Command Mode

- /exec

## show tunnel iftable

```
show tunnel iftable [ <ifindex-in> ] [ __readonly__ TABLE-tunnelIfTable <ifindex-out>
<tunnelIfEncapsMethod> <tunnelIfHopLimit> <tunnelIfSecurity> <tunnelIfTOS> <tunnelIfFlowLabel>
<tunnelIfAddressType> <tunnelIfLocalInetAddress> <tunnelIfRemoteInetAddress> <tunnelIfEncapsLimit>
]
```

### Syntax Description

#### Syntax Description

show	Show running system information
tunnel	Show information about Tunnel
iftable	Show tunnel interface table
<i>ifindex-in</i>	(Optional) Tunnel ifindex
<i>__readonly__</i>	(Optional)
TABLE-tunnelIfTable	(Optional) Tunnel interface table
<i>ifindex-out</i>	(Optional) Tunnel ifindex
<i>tunnelIfEncapsMethod</i>	(Optional) Encapsulation Method
<i>tunnelIfHopLimit</i>	(Optional) Hop Limit
<i>tunnelIfSecurity</i>	(Optional) Security
<i>tunnelIfTOS</i>	(Optional) TOS
<i>tunnelIfFlowLabel</i>	(Optional) Flow Label
<i>tunnelIfAddressType</i>	(Optional) Address Type
<i>tunnelIfLocalInetAddress</i>	(Optional) Local IP Address
<i>tunnelIfRemoteInetAddress</i>	(Optional) Remote IP Address
<i>tunnelIfEncapsLimit</i>	(Optional) Encaps Limit

### Command Mode

- /exec

## show tunnel inetconfigtable

```
show tunnel inetconfigtable [ <tunnelInetConfigAddressType-in> [ [ <tunnelInetConfigLocalAddress-in> [
<tunnelInetConfigRemoteAddress-in> [ <tunnelInetConfigEncapsMethod-in> [ <tunnelInetConfigID-in> ]
] ] ] ] [ __readonly__ TABLE-tunnelInetConfigTable <tunnelInetConfigAddressType-out>
<tunnelInetConfigLocalAddress-out> <tunnelInetConfigRemoteAddress-out>
<tunnelInetConfigEncapsMethod-out> <tunnelInetConfigID-out> <tunnelInetConfigIfIndex>
<tunnelInetConfigStatus> <tunnelInetConfigStorageType> ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
tunnel	Show information about Tunnel
inetconfigtable	Show inet config table
<i>tunnelInetConfigAddressType-in</i>	(Optional) Address Type
<i>tunnelInetConfigLocalAddress-in</i>	(Optional) Local IP Address
<i>tunnelInetConfigRemoteAddress-in</i>	(Optional) Remote IP Address
<i>tunnelInetConfigEncapsMethod-in</i>	(Optional) Encapsulation Method
<i>tunnelInetConfigID-in</i>	(Optional) Configuration ID
<i>__readonly__</i>	(Optional)
TABLE-tunnelInetConfigTable	(Optional) Tunnel Inet Config Table
<i>tunnelInetConfigAddressType-out</i>	(Optional) Address Type
<i>tunnelInetConfigLocalAddress-out</i>	(Optional) Local IP Address
<i>tunnelInetConfigRemoteAddress-out</i>	(Optional) Remote IP Address
<i>tunnelInetConfigEncapsMethod-out</i>	(Optional) Encapsulation Method
<i>tunnelInetConfigID-out</i>	(Optional) Configuration ID
<i>tunnelInetConfigIfIndex</i>	(Optional) If Index
<i>tunnelInetConfigStatus</i>	(Optional) Row Status
<i>tunnelInetConfigStorageType</i>	(Optional) Storage Type

### Command Mode

- /exec



# show tunnel internal database

```
show tunnel internal database { policy { subscriptions | sessions | instances | all | { vrf2pinst [ <vrf-name> |
<vrf-known-name> ] } } | primary [ <if0> ] | reachability }
```

## Syntax Description

Syntax Description		
show		Show running system information
tunnel		Show information about Tunnel
internal		Show internal tunnel information
database		database
policy		policy database
subscriptions		show subscription database
sessions		show sessions database
instances		show policy instance database
all		show detail policy database
vrf2pinst		show vrf-name to pinst-node ID mapping
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
primary		show tunnel interface database
<i>if0</i>		(Optional) Enter tunnel number
reachability		Show tunnel reachability_db

## Command Mode

- /exec

# show tunnel internal database shared

show tunnel internal database shared

## Syntax Description

Syntax Description	
show	Show running system information
tunnel	Show information about Tunnel
internal	Show internal tunnel information
database	database
shared	shared database opened by tunnel manager

## Command Mode

- /exec

# show tunnel internal event-history debug

```
show tunnel internal event-history { { debug [ <if> ] } | global }
```

## Syntax Description

Syntax Description		
show		Show running system information
tunnel		Show information about Tunnel
internal		Show internal tunnel information
event-history		Show various event logs of Tunnels
debug		Show tunnel interface logs
<i>if</i>		(Optional) Enter tunnel number
global		Show tunnel global info

## Command Mode

- /exec

# show tunnel internal event-history errors

show tunnel internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
tunnel		Show information about Tunnel
internal		Show internal tunnel information
event-history		Show various event logs of Tunnels
errors		Show error logs of Tunnel

## Command Mode

- /exec

# show tunnel internal event-history fsm-transition

show tunnel internal event-history fsm-transition [ <if0> ]

## Syntax Description

Syntax Description		
show		Show running system information
tunnel		Show information about Tunnel
internal		Show internal tunnel information
event-history		Show various event logs of Tunnels
fsm-transition		Show fsm-transition log
<i>if0</i>		(Optional) Enter tunnel number

## Command Mode

- /exec

# show tunnel internal event-history msgs

show tunnel internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
tunnel		Show information about Tunnel
internal		Show internal tunnel information
event-history		Show various event logs of Tunnels
msgs		Show various message logs of Tunnel

## Command Mode

- /exec

# show tunnel internal event-history ppf-fsm-transition

show tunnel internal event-history ppf-fsm-transition

## Syntax Description

Syntax Description		
	show	Show running system information
	tunnel	Show information about Tunnel
	internal	Show internal tunnel information
	event-history	Show various event logs of Tunnels
	ppf-fsm-transition	Show ppf-fsm-transition log

## Command Mode

- /exec

# show tunnel internal implicit

```
show tunnel internal implicit [ otv | wccp ] { { tunnel_num <num> } | { if_index <index> } | brief | detail }
```

## Syntax Description

Syntax Description		
show	Show running system information	
tunnel	Show information about Tunnel	
internal	Show internal tunnel information	
implicit	Show interface for Implicit Tunnels	
otv	(Optional) Show interface for OTV Tunnels	
wccp	(Optional) Show interface for WCCP Tunnels	
tunnel_num	Tunnel number	
<i>num</i>	Enter tunnel number	
if_index	Tunnel if_index	
<i>index</i>	Enter tunnel if_index	
brief	Tunnel brief	
detail	Tunnel detail	

## Command Mode

- /exec



# show tunnel internal info global

show tunnel internal info global [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
tunnel	Show information about Tunnel
internal	Show internal tunnel information
info	Show internal data structure information
global	Show tunnel global information
detail	(Optional) Show tunnel global information in detail

## Command Mode

- /exec

# show tunnel internal mem-stats

show tunnel internal mem-stats [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
tunnel	Show information about Tunnel
internal	Show internal tunnel information
mem-stats	Show memory allocation statistics of Tunnel
detail	(Optional) Show detail memstats

## Command Mode

- /exec



## U Show Commands

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- [show uddl, on page 3408](#)
- [show uddl global, on page 3410](#)
- [show uddl internal debug, on page 3411](#)
- [show uddl internal event-history errors, on page 3412](#)
- [show uddl internal event-history interface, on page 3413](#)
- [show uddl internal event-history lock, on page 3414](#)
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- [show uddl internal memory, on page 3417](#)
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- [show ulib process, on page 3419](#)
- [show user-account, on page 3420](#)
- [show username keypair, on page 3421](#)
- [show userpassphrase, on page 3422](#)
- [show users, on page 3423](#)

# show uddl

```
show uddl [ <if0> ] [ __readonly__ TABLE_interface <interface> <mib-port-status> <mib-oper-status>
<mib-aggressive-mode> <admin-port-mode> <operational-port-mode> <current-bidirectional-state>
<current-operational-state> <message-interval> <timeout-interval> <no-multiple-neighbor-detected>
TABLE_entry <entry-number> <expiration-time> <device-id> <neighbor-state> <device-name> <port-id>
<neighbor-echo-device-number> <neighbor-echo-device-name> <neighbor-echo-port-number>
<neighbor-echo-port-id> <neighbor-message-interval> <neighbor-timeout-interval> <cdp-device-name>
<pkt-xmt-rec-time> <pc-index> ]
```

## Syntax Description

Syntax Description	
show	Show running system information
uddl	UDLD status and configuration on one or all interfaces
<i>if0</i>	(Optional) Enter an interface name if only one single interface status is desired
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional)
<i>interface</i>	(Optional) Interface ID
<i>mib-port-status</i>	(Optional) Port MIB enable status
<i>mib-oper-status</i>	(Optional) Port MIB Operational status
<i>mib-aggressive-mode</i>	(Optional) Port MIB aggressive mode
<i>admin-port-mode</i>	(Optional) Port enable administration configuration setting
<i>operational-port-mode</i>	(Optional) Port enable operational state
<i>current-bidirectional-state</i>	(Optional) Current bidirectional state
<i>current-operational-state</i>	(Optional) Current operational state
<i>message-interval</i>	(Optional) UDLD probe message interval
<i>timeout-interval</i>	(Optional) UDLD detection timeout interval
<i>no-multiple-neighbor-detected</i>	(Optional) No multiple neighbor detected
TABLE_entry	(Optional) Neighbor entry info
<i>entry-number</i>	(Optional) Neighbor entry number
<i>expiration-time</i>	(Optional) Expiration time
<i>device-id</i>	(Optional) Device ID
<i>neighbor-state</i>	(Optional) Current neighbor state

<i>device-name</i>	(Optional) Device name
<i>port-id</i>	(Optional) Port ID
<i>neighbor-echo-device-number</i>	(Optional) Echo device number
<i>neighbor-echo-device-name</i>	(Optional) Echo device name
<i>neighbor-echo-port-number</i>	(Optional) Echo port number
<i>neighbor-echo-port-id</i>	(Optional) Echo port ID
<i>neighbor-message-interval</i>	(Optional) UDLD probe message interval
<i>neighbor-timeout-interval</i>	(Optional) UDLD detection timeout interval
<i>cdp-device-name</i>	(Optional) CDP Device name
<i>pkt-xmt-rec-time</i>	(Optional) Last UDLD packet send/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

Syntax Description		
show		Show running system information
udd		UDLD protocol
global		UDLD global status and configuration on all interfaces
<i>__readonly__</i>	(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 internal debug

show udd internal debug

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	udd	UDLD protocol
	internal	Commands for internal use
	debug	UDLD internal debug information

## Command Mode

- /exec

# show udd internal event-history errors

show udd internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
udd		Show udd information
internal		Show udd service internal status
event-history		Show event logs of udd
errors		Show error logs of udd

## Command Mode

- /exec



# show udd internal event-history interface

show udd internal event-history interface <if0>

## Syntax Description

Syntax Description		
show		Show running system information
udd		Show udd information
internal		Show udd service internal status
event-history		Show event logs of udd
interface		Show interface event transition
<i>if0</i>		Enter interface name

## Command Mode

- /exec

# show udd internal event-history lock

show udd internal event-history lock

## Syntax Description

Syntax Description		
show		Show running system information
udd		Show udd information
internal		Show udd service internal status
event-history		Show event logs of udd
lock		Show lock logs of udd

## Command Mode

- /exec

# show udd internal event-history msgs

show udd internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
udd		Show udd information
internal		Show udd service internal status
event-history		Show event logs of udd
msgs		Show message logs of udd

## Command Mode

- /exec

# show udd internal event-history pss

show udd internal event-history pss

## Syntax Description

Syntax Description		
	show	Show running system information
	udd	Show udd information
	internal	Show udd service internal status
	event-history	Show event logs of udd
	pss	Show pss2 event history of udd

## Command Mode

- /exec

# show udd internal memory

show udd internal memory [ detail ]

## Syntax Description

Syntax Description	
show	Show running system information
udd	UDLD protocol
internal	Commands for internal use
memory	UDLD internal memory status
detail	(Optional) Show detail memstats for UDLD

## 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

Syntax Description		
show		Show running system information
udd		UDLD protocol
neighbors		UDLD neighbor interfaces
<i>__readonly__</i>		(Optional)
<i>TABLE_entry</i>		(Optional)
<i>local-port-id</i>		(Optional) Local port ID
<i>neighbor-echo-device-name</i>		(Optional) Echo device name
<i>device-id</i>		(Optional) Device ID
<i>neighbor-echo-port-id</i>		(Optional) Echo port ID
<i>neighbor-state</i>		(Optional) Current neighbor state

### Command Mode

- /exec

# show ulib process

show ulib process

## Syntax Description

Syntax Description	
show	Show running system information
ulib	Display ULIB status and configuration
process	ULIB Process information

## Command Mode

- /exec

## show user-account

```
show user-account [ <s0> ] [ __readonly__ TABLE_template <usr_name> <expire_date> { TABLE_role
<role> } [ <remote_login> ] [ <sshkey_info> ] { TABLE_keys <ssh_keys> } ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
TABLE_template	(Optional)
TABLE_role	(Optional)
TABLE_keys	(Optional)
__readonly__	(Optional)
usr_name	(Optional) Name of the user
expire_date	(Optional) Expiry date for this user account(in YYYY-MM-DD format)
role	(Optional) role/s which the user is to be assigned to
remote_login	(Optional) Remote account information for a remote user
sshkey_info	(Optional) SSH key information of user
ssh_keys	(Optional) SSH key pairs of the user
user-account	Show user information
s0	(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

Syntax Description		
show		Show running system information
username		Show user information.
keypair		Show SSH keypairs
<i>s0</i>		user name
<i>__readonly__</i>		(Optional)
<i>TABLE_sessions</i>	(Optional)	username keypair
<i>t_type</i>	(Optional)	keys type
<i>t_time</i>	(Optional)	timestamp
<i>t_keys</i>	(Optional)	ssh key
<i>t_bitcount</i>	(Optional)	bitcount
<i>t_fingerprint</i>	(Optional)	fingerprint

## Command Mode

- /exec

# show userpassphrase

```
show userpassphrase { min-length | max-length | length } [ __readonly__ [ Minimum_length <min_length>
] [ Maximum_length <max_length> ] ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
userpassphrase	user passphrase	
min-length	passphrase minimum length	
max-length	passphrase maximum length	
length	passphrase min and max length	
__readonly__	(Optional)	
Minimum_length	(Optional) minimum length of the passphrase	
<i>min_length</i>	(Optional) Absolute value of the Minimum length	
Maximum_length	(Optional) Maximum length of the passphrase	
<i>max_length</i>	(Optional) Absolute value of max length	

## Command Mode

- /exec

# show users

```
show users [ __readonly__ { TABLE_sessions <u_name> <t_terminal> <t_time> <t_idle> <p_pid>
<c_comment> } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
users		Show the current users logged in the system
__readonly__	(Optional)	
TABLE_sessions	(Optional)	users table
u_name	(Optional)	user name
t_terminal	(Optional)	terminal
t_time	(Optional)	time
t_idle	(Optional)	idle
p_pid	(Optional)	pid
c_comment	(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

#### 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
<i>__readonly__</i>	(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

Syntax Description		
show	Show Virtual Device Contexts	
vdc	Show Virtual Device Contexts	
current-vdc	Show which vdc you are currently in	
<i>__readonly__</i>	(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

Syntax Description		
show	Show Virtual Device Contexts	
vdc	Show Virtual Device Contexts	
fcoe-vlan-range	vlans reserved for FCoE	
__readonly__	(Optional) Read Only	
<i>fcoe-vdc</i>	(Optional)	
<i>sharing-vdcs</i>	(Optional)	
<i>fcoe-vlans</i>	(Optional)	

## Command Mode

- /exec

# show vdc internal bitmaps

show vdc internal bitmaps

## Syntax Description

Syntax Description	
show	Show Virtual Device Contexts
vdc	Show Virtual Device Contexts
internal	Show Internal info for vdc_mgr
bitmaps	Kernel bitmap tables

## Command Mode

- /exec

# show vdc internal create\_possible

show vdc internal create\_possible

## Syntax Description

Syntax	Description
show	Show running system information
vdc	Show Virtual Device Contexts
internal	Show Internal info for vdc_mgr
create_possible	Is creation possible

## Command Mode

- /exec

# show vdc internal errors

show vdc internal [ event-history ] errors

## Syntax Description

Syntax Description		
show		Show running system information
vdc		Show information about vdc_mgr
internal		Show internal vdc_mgr information
event-history	(Optional)	Show various event logs of vdc_mgr
errors		Show error logs of vdc_mgr

## Command Mode

- /exec

# show vdc internal event-history vdc\_id

show vdc internal event-history vdc\_id <new\_id>

## Syntax Description

Syntax Description		
show	Show running system information	
vdc	Show Virtual Device Contexts	
internal	Show internal vdc_mgr information	
event-history	Show various event logs of vdc_mgr	
vdc_id	Enter Virtual Device Context <vdc-id>	
new_id	Enter vdc id	

## Command Mode

- /exec

## show vdc internal mac\_address\_table

show vdc internal mac\_address\_table [ \_\_readonly\_\_ <mac> ]

### Syntax Description

Syntax Description		
show		Show Virtual Device Contexts
vdc		Show Virtual Device Contexts
internal		Show Internal info for vdc_mgr
mac_address_table		Table of mac addresses
__readonly__		(Optional) Read Only
mac		(Optional) mac address for VDC

### Command Mode

- /exec



# show vdc internal mem-stats

show vdc internal mem-stats [ detail ]

## Syntax Description

Syntax Description		
show	Show running system information	
vdc	Show information about vdc_mgr	
internal	Show internal vdc_mgr information	
mem-stats	Show memory allocation statistics of vdc_mgr	
detail	(Optional) Show detail memstats for F_Port Server	

## Command Mode

- /exec

# show vdc internal msgs

show vdc internal [ event-history ] msgs

## Syntax Description

Syntax Description		
show		Show running system information
vdc		Show information about vdc_mgr
internal		Show internal vdc_mgr information
event-history	(Optional)	Show various event logs of vdc_mgr
msgs		Show various message logs of vdc_mgr

## Command Mode

- /exec

## show vdc internal pss

```
show vdc internal { { pss [ { <e-vdc2> | interface [ <interface-name> ] } ] } | port-hash }
```

### Syntax Description

Syntax Description		
show		Show running system information
vdc		Show Virtual Device Contexts
internal		Show Internal info for vdc_mgr
pss		Show Internal info pss for vdc_mgr
<i>e-vdc2</i>	(Optional)	Enter Virtual Device Context <vdc-id>
interface	(Optional)	Show Internal info for vdc_mgr
<i>interface-name</i>	(Optional)	Show Internal info for vdc_mgr
port-hash		vdc_mgr port hash table

### 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

#### 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

Syntax Description	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

Syntax Description	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
<i>TABLE_template</i>	(Optional)
<i>template_name</i>	(Optional) Resource Template Name
<i>TABLE_resource</i>	(Optional)
<i>resource_name</i>	(Optional) Resource Name
<i>min</i>	(Optional) Resource min configuration
<i>max</i>	(Optional) Resource max configuration

## Command Mode

- /exec

## show version

```
show version [ __readonly__ <header_str> <bios_ver_str> [ <loader_ver_str> ] <kickstart_ver_str> [
<sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <kick_cmpl_time> <kick_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> ] <kern_uptm_days>
<kern_uptm_hrs> <kern_uptm_mins> <kern_uptm_secs> [ <rr_usecs> ] [ <rr_ctime> ] <rr_reason>
<rr_sys_ver> <rr_service> [ TABLE_smu_list <install_smu_id> + ] [ TABLE_package_list <package_id> ]
<manufacturer> ]
```

### Syntax Description

#### Syntax Description

show	
version	Show the software version
<i>__readonly__</i>	(Optional)
<i>header_str</i>	(Optional)
<i>bios_ver_str</i>	(Optional)
<i>loader_ver_str</i>	(Optional)
<i>kickstart_ver_str</i>	(Optional)
<i>sys_ver_str</i>	(Optional)
<i>bios_cmpl_time</i>	(Optional)
<i>kick_file_name</i>	(Optional)
<i>kick_cmpl_time</i>	(Optional)
<i>kick_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>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)
TABLE_smu_list	(Optional)
<i>install_smu_id</i>	(Optional)
TABLE_package_list	(Optional)
<i>package_id</i>	(Optional) Package name
<i>manufacturer</i>	(Optional)

### Command Mode

- /exec



# show version compatibility

show version compatibility <uri0>

## Syntax Description

Syntax Description		
show		Show running system information
version		Show the software version
compatibility		Show the software compatibility matrix with given image
<i>uri0</i>		Enter URI

## Command Mode

- /exec

# show version image

show version image <uri0>

## Syntax Description

---

### Syntax Description

---

show Show running system information

---

version Show the software version

---

image Show the software version of a given image

---

*uri0* Enter URI

---

## Command Mode

- /exec

# show version internal build-identifier

show version internal build-identifier

## Syntax Description

Syntax Description		
show		Show running system information
version		Show the software version
internal		internal commands
build-identifier		Show the build id of currently running software versions

## Command Mode

- /exec

# show version module

```
show version module <module> [ __readonly__ { TABLE_version <slot> <type> <sw> <interim> <bios> } ]
```

## Syntax Description

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)	
<i>TABLE_version</i>	(Optional)	Show version info
<i>slot</i>	(Optional)	Slot
<i>type</i>	(Optional)	image type
<i>sw</i>	(Optional)	SW version
<i>interim</i>	(Optional)	SW interim version
<i>bios</i>	(Optional)	BIOS version

## Command Mode

- /exec

# show version module epld

show version module <module> epld

## Syntax Description

<b>Syntax Description</b>	<b>show</b> Show running system information
	<b>version</b> Show the software version
	<b>module</b> Show the software version of a Module
	<i>module</i> Enter module number
	<b>epld</b> Show a module's current EPLD versions

## Command Mode

- /exec

## show virtual-service

```
show virtual-service [ { list } | { global } | { detail [ name <virt_serv_name> ] } | { core [ name
<virt_serv_name_core> ] } ] [ __readonly__ [ <infrastructure_major_version> <infrastructure_minor_version>
<total_virtual_services_installed> <total_virtual_services_activated> <maximum_vcpus_per_virtual_service>
<machine_types_supported> <machine_types_disabled> TABLE_resource_limits <media_name> <quota>
<committed> <available> ] [ TABLE_list <name> <status> <package_name> ] [ TABLE_detail <name>
<package_name> <application_name> <application_version> <application_description> <key_type>
<signing_method> <licensing_name> <licensing_version> <ova_path> <state> <disk_reservation>
<memory_reservation> <cpu_reservation> TABLE_attached_devices <type> <name> <alias> ] [ TABLE_core
<name> <name_core> ] ]
```

### Syntax Description

#### 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

Syntax Description	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

---

### Syntax Description

---

show	Show running system information
------	---------------------------------

---

virtual-service	Gather information for virtualization services trouble shooting
-----------------	---

---

tech-support	Gather information for trouble shooting
--------------	---

---

## Command Mode

- /exec

## show virtual-service utilization name

```
show virtual-service utilization name <virt_serv_name> [ __readonly__ [ TABLE_storage <name> <alias>
<rd_bytes> <wr_bytes> <rd_requests> <wr_requests> <errors> <capacity> <used> <available> <usage> ] [
TABLE_network <name> <alias> <rx_packets> <tx_packets> <rx_bytes> <tx_bytes> <rx_drops> <tx_drops>
<rx_errors> <tx_errors> ] [ TABLE_memory <allocation> <used> ] [ TABLE_cpu <request> <actual> <state>
]]
```

### Syntax Description

#### Syntax Description

show	Show running system information
virtual-service	Display virtualization service utilization information
utilization	Utilization information about virtual service
name	Utilization of a virtual service
<i>virt_serv_name</i>	Name of a virtual service
<i>__readonly__</i>	(Optional) Read Only
TABLE_storage	(Optional) Virtual service storage utilization
<i>name</i>	(Optional) storage device name
<i>alias</i>	(Optional) storage device alias
<i>rd_bytes</i>	(Optional) Read Bytes
<i>wr_bytes</i>	(Optional) Write Bytes
<i>rd_requests</i>	(Optional) Read requests
<i>wr_requests</i>	(Optional) Write requests
<i>errors</i>	(Optional) errors
<i>capacity</i>	(Optional) Capacity 1k blocks
<i>used</i>	(Optional) Used 1k blocks
<i>available</i>	(Optional) Available 1k blocks
<i>usage</i>	(Optional) Usage
TABLE_network	(Optional) Virtual service network utilization
<i>name</i>	(Optional) network device name
<i>alias</i>	(Optional) network device alias
<i>rx_packets</i>	(Optional) Received packets

<i>tx_packets</i>	(Optional) Transmitted packets
<i>rx_bytes</i>	(Optional) Received bytes
<i>tx_bytes</i>	(Optional) Transmitted bytes
<i>rx_drops</i>	(Optional) Received drops
<i>tx_drops</i>	(Optional) Transmitted drops
<i>rx_errors</i>	(Optional) Received errors
<i>tx_errors</i>	(Optional) Trnasmitted errors
TABLE_memory	(Optional) Virtual service memory utilization
<i>allocation</i>	(Optional) Memory allocation
<i>used</i>	(Optional) Memory used
TABLE_cpu	(Optional) Virtual service cpu utilization
<i>request</i>	(Optional) Requested Application Utilization
<i>actual</i>	(Optional) Actual Application Utilization
<i>state</i>	(Optional) CPU state

**Command Mode**

- /exec

## show virtual-service version

```
show virtual-service version { { installed } | { name <virt_serv_name> installed } } [ __readonly__
<virt_service_name> <application_name> <application_version> ]
```

### Syntax Description

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 access-list

```
show vlan access-list <name> [ <inp_seqno> ] [ __readonly__ TABLE_vacl <vacl_name> [ <vacl_seqno> ]
[ TABLE_list <ip_ipv6_mac> <acl_name> [ TABLE_seqno <seqno> { <permitdeny> [ <proto_str> | <proto>
| <ip> | <ipv6> } { <src_any> | <src_ip_prefix> | <src_ip_addr> <src_ip_mask> | <src_ipv6_prefix> |
<src_ipv6_addr> <src_ipv6_mask> | <mac_src> <mac_src_wild> | <src_addrgrp> } [ <src_port_op> [
<src_port1_str> ] { <src_port1_num> } [ <src_port2_str> | <src_port2_num> ] | <src_portgrp> ] { <dest_any>
| <dest_ip_prefix> | <dest_ip_addr> <dest_ip_mask> | <dest_ipv6_prefix> | <dest_ipv6_addr>
<dest_ipv6_mask> | <mac_dest> <mac_dest_wild> | <dest_addrgrp> } [ <dest_port_op> [ <dest_port1_str>
] { <dest_port1_num> } [ <dest_port2_str> | <dest_port2_num> ] | <dest_portgrp> ] [ { <icmp_type> [
<icmp_code> ] | <icmp_str> } | { <icmpv6_type> [ <icmpv6_code> ] | <icmpv6_str> } ] [ <igmp_type> |
<igmp_type_str> ] [ [ <precedence> | <precedence_str> ] [ <tos> | <tos_str> ] ] [ <dscp> | <dscp_str> ] [ [
<ttl> ] ] [ <log> ] [ <udfs> ] [ <capture_session> ] [ <fragments> ] [ <plen_op> <plen1> [ <plen2> ] ] [ <urg>
] [ <ack> ] [ <psh> ] [ <rst> ] [ <syn> ] [ <fin> ] [ <established> ] [ <http-method> | <http_opt_str> ] [
<tcp-option-length> ] [ <tcp-flags-mask> ] [ <flow_label> ] [ <timerange> ] [ <eth_proto> | <eth_proto_str>
] [ <vlan> ] [ <cos> ] [ <match_count> ] [ <nve_vni> ] | <remark> } ] [ <action> <actionid> ] ] ]
```

### Syntax Description

#### 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/iIPv6/MAC
<i>acl_name</i>	(Optional) Access list name
<i>seqno</i>	(Optional) Sequence number
<i>permitdeny</i>	(Optional) Permit/deny
<i>proto</i>	(Optional) A protocol number
TABLE_seqno	(Optional)
<i>proto_str</i>	(Optional) Protocol name

<i>ip</i>	(Optional) IP
<i>ipv6</i>	(Optional) IPV6
<i>src_any</i>	(Optional) SRCAny
<i>dest_any</i>	(Optional) DESTAny
<i>src_ip_prefix</i>	(Optional) Source IP prefix
<i>src_ip_addr</i>	(Optional) Source IP address
<i>src_ip_mask</i>	(Optional) Source IP mask
<i>mac_src</i>	(Optional) Source MAC address
<i>mac_src_wild</i>	(Optional) Source MAC mask
<i>dest_ip_prefix</i>	(Optional) Destination IP prefix
<i>dest_ip_addr</i>	(Optional) Destination IP address
<i>dest_ip_mask</i>	(Optional) Destination IP mask
<i>mac_dest</i>	(Optional) Destination MAC address
<i>mac_dest_wild</i>	(Optional) Destination MAC mask
<i>src_port_op</i>	(Optional) Source Port operator
<i>dest_port_op</i>	(Optional) Destination Port operator
<i>src_port1_str</i>	(Optional) Source port name
<i>src_port1_num</i>	(Optional) Source port number
<i>src_port2_str</i>	(Optional) Source port name
<i>src_port2_num</i>	(Optional) Source port number
<i>dest_port1_str</i>	(Optional) Destination port name
<i>dest_port1_num</i>	(Optional) Destination port number
<i>dest_port2_str</i>	(Optional) Destination port name
<i>dest_port2_num</i>	(Optional) Destination port number
<i>icmp_type</i>	(Optional) ICMP type
<i>icmp_code</i>	(Optional) ICMP code
<i>icmp_str</i>	(Optional) ICMP message
<i>icmpv6_type</i>	(Optional) ICMP type
<i>icmpv6_code</i>	(Optional) ICMP code

<i>icmpv6_str</i>	(Optional) ICMP message
<i>igmp_type</i>	(Optional) IGMP type
<i>igmp_type_str</i>	(Optional) IGMP type String
<i>precedence</i>	(Optional) precedence
<i>precedence_str</i>	(Optional) precedence string
<i>tos</i>	(Optional) tos
<i>tos_str</i>	(Optional) tos string
<i>dscp</i>	(Optional) dscp
<i>dscp_str</i>	(Optional) dscp string
<i>udfs</i>	(Optional) udfs string
<i>ttl</i>	(Optional) ttl
<i>capture_session</i>	(Optional) capture session
<i>log</i>	(Optional) Log
<i>fragments</i>	(Optional) Fragments
<i>urg</i>	(Optional) URG
<i>ack</i>	(Optional) ACK
<i>psh</i>	(Optional) PSH
<i>rst</i>	(Optional) RST
<i>syn</i>	(Optional) SYN
<i>fin</i>	(Optional) FIN
<i>established</i>	(Optional) ESTABLISHED
<i>http-method</i>	(Optional) http-method
<i>http_opt_str</i>	(Optional) http_option string
<i>tcp-option-length</i>	(Optional) TCP Option size
<i>tcp-flags-mask</i>	(Optional) TCP Flags mask
<i>flow_label</i>	(Optional) IPv6 flow label
<i>timerange</i>	(Optional) Time-range
<i>eth_proto</i>	(Optional) MAC protocol number
<i>eth_proto_str</i>	(Optional) MAC protocol name



<i>vlan</i>	(Optional) VLAN number
<i>cos</i>	(Optional) CoS value
<i>match_count</i>	(Optional) Number of packets matching the ACL
<i>nve_vni</i>	(Optional) nve vni
<i>remark</i>	(Optional) Remark String
<i>src_addrgrp</i>	(Optional) Source address group
<i>dest_addrgrp</i>	(Optional) Destination address group
<i>src_portgrp</i>	(Optional) Source port group
<i>dest_portgrp</i>	(Optional) Destination port group
<i>plen_op</i>	(Optional) Source Port operator
<i>plen1</i>	(Optional) Packet length minimum
<i>plen2</i>	(Optional) packet length maximum
<i>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

**Command Mode**

- /exec

## show vlan access-map

```
show vlan access-map [ <name> ] [ __readonly__ [ TABLE_vacl <vacl_name> [ TABLE_seqno [ <seqno>
] [ <ip_ipv6_mac> { <match_name> } + [ <action_drop> ] [ <action_log> ] [ <action_fwd> ] [ <action_capture>
] [ <action_redirect> <intf> ] ] [ <statistics> ] ] ] ]
```

### Syntax Description

Syntax Description	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
<i>TABLE_vacl</i>	(Optional)
<i>TABLE_seqno</i>	(Optional)
<i>ip_ipv6_mac</i>	(Optional) IP/iIPV6/MAC
<i>match_name</i>	(Optional) Access list name
<i>action_drop</i>	(Optional) DROP
<i>action_log</i>	(Optional) LOG
<i>action_fwd</i>	(Optional) FWD
<i>action_capture</i>	(Optional) CAPTURE
<i>action_redirect</i>	(Optional) REDIRECT
<i>intf</i>	(Optional) Interface traffic is redirected to
<i>statistics</i>	(Optional) STATISTICS

### Command Mode

- /exec

## show vlan 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

Syntax Description	show	Show running system information
	vlan	Vlan commands
	counters	display counters
	<i>__readonly__</i>	(Optional) Read Only
	<i>TABLE_vlancounters</i>	(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

Syntax Description		
show		Show running system information
vlan		VTP VLAN status
dot1Q		Display dot1q parameters
tag		Display tag parameters
native		Display native vlan tagging
<i>__readonly__</i>	(Optional)	Read Only
<i>tag_native_mode</i>	(Optional)	Native vlan tagging mode

## Command Mode

- /exec

# show vlan filter

```
show vlan filter [ access-map <name> | vlan <vlan> ] [ __readonly__ TABLE_vlan_filter <name>
<configured_vlans> ]
```

## Syntax Description

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)	
<i>TABLE_vlan_filter</i>	(Optional)	
<i>configured_vlans</i>	(Optional)	VLAN numbers

## Command Mode

- /exec

## show vlan id counters

```
show vlan id <vlan-id> counters [ __readonly__ { TABLE_vlancounters <vlanshowbr-vlanid> [
<l2_ing_ucast_b> ] [ <l2_ing_ucast_p> ] [ <l2_ing_mcast_b> ] [ <l2_ing_mcast_p> ] [ <l2_ing_bcast_b> ]
[ <l2_ing_bcast_p> ] [ <l2_egr_ucast_b> ] [ <l2_egr_ucast_p> ] [ <total_rcv_b> ] [ <total_rcv_p> ] [
<total_sent_b> ] [ <total_sent_p> ] } ]
```

### Syntax Description

#### 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
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_vlancounters</i>	(Optional) vlan counters table format
<i>vlanshowbr-vlanid</i>	(Optional) VLAN brief VLAN ID
<i>l2_ing_ucast_b</i>	(Optional) L2 Ingress unicast octets
<i>l2_ing_ucast_p</i>	(Optional) L2 Ingress unicast packets
<i>l2_ing_mcast_b</i>	(Optional) L2 Ingress multicast octets
<i>l2_ing_mcast_p</i>	(Optional) L2 Ingress multicast packets
<i>l2_ing_bcast_b</i>	(Optional) L2 Ingress broadcast octets
<i>l2_ing_bcast_p</i>	(Optional) L2 Ingress broadcast packets
<i>l2_egr_ucast_b</i>	(Optional) L2 Egress unicast octets
<i>l2_egr_ucast_p</i>	(Optional) L2 Egress unicast packets
<i>total_rcv_b</i>	(Optional) Total octets in
<i>total_rcv_p</i>	(Optional) Total packets in
<i>total_sent_b</i>	(Optional) Total octets out
<i>total_sent_p</i>	(Optional) Total packets out

### Command Mode

- /exec

# show vlan id vn-segment

```
show vlan id <vlan-id> vn-segment [ __readonly__ <vlanshowinfo-segid-hdr> { TABLE_seginfoid
<vlanshowinfo-seg-vlanid> <vlanshowinfo-segment-id> } <show-end> [ <true-end> ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
vlan		VLAN status
id		VLAN status by VLAN id
vn-segment		Show vn-segment mapping
<i>vlan-id</i>		VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>		(Optional) Read Only
<i>TABLE_seginfoid</i>		(Optional) Segment id information table format
<i>vlanshowinfo-segid-hdr</i>		(Optional) Vlan info segment id header
<i>vlanshowinfo-seg-vlanid</i>		(Optional) Vlan info VLAN ID
<i>vlanshowinfo-segment-id</i>		(Optional) Vlan info SEGMENT ID
<i>show-end</i>		(Optional) Show vlan end marker
<i>true-end</i>		(Optional) Show vlan end marker

## Command Mode

- /exec

## show vlan mib private-vlan type

show vlan [ id <vlan-id> ] mib private-vlan type [ \_\_readonly\_\_ <start> <vlan> <pvlan-type> <primary> ]

### Syntax Description

#### Syntax Description

show	Show running system information
vlan	VLAN status
id	(Optional) VLAN status by VLAN id
<i>vlan-id</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
private-vlan	Private VLAN information
type	Private VLAN type information
mib	mib
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>vlan</i>	(Optional) vlan
<i>pvlan-type</i>	(Optional) PVLAN Type
<i>primary</i>	(Optional) associated to primary

### Command Mode

- /exec



# show vlan private-vlan

```
show vlan [ id <vlan-id> ] private-vlan [ __readonly__ [ { TABLE_pvlan_primary <vlan-key> [ <primary>
] [ <secondary> ] <pvlan-type> [ <ports> + ] } ] ]
```

## Syntax Description

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
<i>TABLE_pvlan_primary</i>		(Optional) Pvlan primary vlan table
<i>vlan-key</i>		(Optional) Vlan key
<i>primary</i>		(Optional) Primary VLAN
<i>secondary</i>		(Optional) Secondary VLAN
<i>pvlan-type</i>		(Optional) PVLAN Type
<i>ports</i>		(Optional) Port list

## Command Mode

- /exec

## show vlan private-vlan interface host

```
show vlan private-vlan interface [ <if> ] host [ next <data> ] [ __readonly__ <start> <interface-id>
<secondary-vlan> ]
```

### Syntax Description

Syntax Description		
show	Show running system information	
vlan	VLAN status	
private-vlan	Private VLAN information	
interface	Show interface status and information	
<i>if</i>	(Optional) Interface id	
host	private-vlan host	
next	(Optional) next-entry	
<i>data</i>	(Optional) ignore junk value	
<i>__readonly__</i>	(Optional) Read Only	
<i>start</i>	(Optional) Start	
<i>interface-id</i>	(Optional) Interface	
<i>secondary-vlan</i>	(Optional) Secondary Vlan	

### Command Mode

- /exec

# show vlan private-vlan interface mapping

```
show vlan private-vlan interface [ <if> ] mapping [ __readonly__ <start> <interface-id> <multi-primary>
<secondary-vlan> <two-way> ]
```

## Syntax Description

Syntax	Description
show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
<i>if</i>	(Optional) Interface id
mapping	private-vlan mapping
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>interface-id</i>	(Optional) Interface
<i>multi-primary</i>	(Optional) multiple primary capable
<i>secondary-vlan</i>	(Optional) secondary vlans bitmap
<i>two-way</i>	(Optional) multiple primary capable

## Command Mode

- /exec

# show vlan private-vlan interface mode

```
show vlan private-vlan interface [ <if> ] mode [ next <data> ] [ __readonly__ <start> <interface-id>
<port-mode> ]
```

## Syntax Description

Syntax	Description
show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
<i>if</i>	(Optional) Interface id
mode	private-vlan port mode
next	(Optional) next-entry
<i>data</i>	(Optional) ignore junk value
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>interface-id</i>	(Optional) Interface
<i>port-mode</i>	(Optional) Port mode

## Command Mode

- /exec

# show vlan private-vlan interface trunk

```
show vlan private-vlan interface [ <if> ] trunk [ __readonly__ <start> <interface-id> <dynamic-state>
<encap-type> <native-vlan> <secondary-vlans> <normal-vlans> <dynamic-status> <encap-oper-type> ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
vlan	VLAN status	
private-vlan	Private VLAN information	
interface	Show interface status and information	
<i>if</i>	(Optional) Interface id	
trunk	pvlan trunk	
<i>__readonly__</i>	(Optional) Read Only	
<i>start</i>	(Optional) Start	
<i>interface-id</i>	(Optional) Interface	
<i>dynamic-state</i>	(Optional) dynamic state	
<i>encap-type</i>	(Optional) encapsulation type	
<i>native-vlan</i>	(Optional) native vlan	
<i>secondary-vlans</i>	(Optional) secondary vlans	
<i>normal-vlans</i>	(Optional) normal vlans	
<i>dynamic-status</i>	(Optional) dynamic status	
<i>encap-oper-type</i>	(Optional) encap oper type	

## Command Mode

- /exec

# show vlan private-vlan mapping

```
show vlan [ id <vlan-id> ] private-vlan mapping [ next <data> ] [ __readonly__ <start> <vlan-id> <primary> ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
vlan	VLAN status	
id	(Optional) VLAN status by VLAN id	
<i>vlan-id</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19	
private-vlan	Private VLAN information	
mapping	private-vlan mapping	
next	(Optional) next-entry	
<i>data</i>	(Optional) ignore junk value	
<i>__readonly__</i>	(Optional) Read Only	
<i>start</i>	(Optional) Start	
<i>vlan-id</i>	(Optional) secondary	
<i>primary</i>	(Optional) primary-vlan	

## Command Mode

- /exec

# show vlan private-vlan type

```
show vlan [ id <vlan-id> ] private-vlan type [ __readonly__ [ { TABLE_pvlan-type <vlan-num> <pvlan-type> } ] ]
```

## Syntax Description

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
__readonly__		(Optional) Read Only
TABLE_pvlan-type		(Optional) Pvlan type table
<i>vlan-num</i>		(Optional) vlan
<i>pvlan-type</i>		(Optional) PVLAN Type

## Command Mode

- /exec

# show vmtracker

```
show vmtracker [ connection <conn_name> ] { { info { { [ interface <intf_id> ] { summary | detail | host |
vm | port-group } } | { vxlan-segment | vxlan-vms } } } | event-history }
```

## Syntax Description

### Syntax Description

show	Show running system information
vmtracker	Show vmtracker info
connection	(Optional) Show vmtracker configured connections
<i>conn_name</i>	(Optional) Show vmtracker Connection name
info	Display vmtracker information
interface	(Optional) Display vmtracker interface information
<i>intf_id</i>	(Optional) Interface name to display
summary	Display a summary of vmtracker information
detail	Display vmtracker information details
host	Display vmtracker host information
vm	Display vmtracker related Virtual Machine information
port-group	Display vmtracker related port-group information
vxlan-segment	Print all segment info
vxlan-vms	Print all vm info
event-history	Display vmtracker related event-history

## Command Mode

- /exec



# show vmtracker certificate

show vmtracker certificate

## Syntax Description

Syntax	Description
show	Show running system information
vmtracker	VMTRACKER commands
certificate	Show the default certificate used

## Command Mode

- /exec

## show vmtracker fabric auto-config

```
show vmtracker fabric auto-config [ interface <intf_id> ] [ vlan <vlan_id> ] [ status { success | pending | failure | skipped } ]
```

### Syntax Description

Syntax	Description
show	Show running system information
vmtracker	VMTRACKER commands
fabric	VM Tracker Fabric paramters
auto-config	VM Tracker Fabric AutoConfiguration
interface	(Optional) Display vmtracker interface information
<i>intf_id</i>	(Optional) Interface name to display
vlan	(Optional) vlan to display
<i>vlan_id</i>	(Optional) VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
status	(Optional) Auto-config status
success	(Optional) Success
pending	(Optional) Pending
failure	(Optional) Failure
skipped	(Optional) Skipped

### Command Mode

- /exec

# show vmtracker status

```
show vmtracker [ connection <conn_name> ] status [ __readonly__ { TABLE_connection <name> <host_or_ip>
<conn_status> } ]
```

## Syntax Description

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> ] <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> <vpc-thru-peerlink> <vpc-consistency> { [
<vpc-consistency-reason> ] [ <vpc-consistency-status> ] } <up-vlan-bitset> <es-attr> } ] <vpc-end> ]
```

### Syntax Description

#### 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
vpc-graceful-consistency-check-status	(Optional) vPC graceful consistency check

<i>vpc-consistency</i>	(Optional) vPC global configuration consistency
<i>vpc-consistency-reason</i>	(Optional) vPC consistency reason
<i>vpc-consistency-status</i>	(Optional) vPC consistency reason
<i>vpc-peer-consistency</i>	(Optional) vPC global configuration consistency
<i>vpc-peer-consistency-reason</i>	(Optional) vPC consistency reason
<i>vpc-peer-consistency-status</i>	(Optional) vPC consistency reason
<i>vpc-per-vlan-peer-consistency</i>	(Optional) vPC per-vlan global configuration consistency
<i>vpc-type-2-consistency</i>	(Optional) vPC type-2 configuration consistency status
<i>vpc-type-2-consistency-reason</i>	(Optional) vPC type-2 configuration consistency reason
<i>vpc-type-2-consistency-status</i>	(Optional) vPC type-2 configuration consistency status
<i>operational-l3-peer</i>	(Optional) Operational Layer 3 peer status
<i>vpc-scale-high-status</i>	(Optional) vPC scale high status
<i>vpc-hdr</i>	(Optional) Start of vPC table
<i>vpc-is-es</i>	(Optional) Flag to indicate vPC+ complex
<i>vpc-not-es</i>	(Optional) Flag to indicate vPC complex
<i>vpc-peer-link-hdr</i>	(Optional) Start of vPC peer-link table
<i>vpc-thru-peerlink</i>	(Optional) vPC Routing through peerlink
<i>vpc-port-state</i>	(Optional) vPC port state
<i>vpc-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> <vpc-thru-peerlink> <vpc-consistency> { [ <vpc-consistency-reason> ] [ <vpc-consistency-status> ] } <up-vlan-bitset> <es-attr> ] <vpc-end> ]
```

## Syntax Description

### 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-thru-peerlink</i>	(Optional) vPC Routing through peerlink
<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 | 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

Syntax Description		
vpc		Virtual Port Channel configuration
consistency-parameters		Show vPC Consistency Parameters
global		Global Parameters
<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 [ __readonly__ TABLE_vpc_consistency <vpc-param-name>
<vpc-param-type> [ <reason_code> ] [ <syserr> ] <vpc-pass-vlans> [ <reason_code> ] ]
```

### Syntax Description

Syntax Description		
vpc		Virtual Port Channel configuration
consistency-parameters		Show vPC Consistency Parameters
vlans		vlans
__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 internal peer-keepalive snmp parame-table domain-id

```
show vpc internal peer-keepalive snmp parame-table domain-id <id> [ __readonly__
TABLE-cVpcPeerKeepAliveConfigTable <cVpcPeerKeepAliveConfigDomainID>
<cVpcPeerKeepAliveDestAddrType> <cVpcPeerKeepAliveDestAddr> <cVpcPeerKeepAliveSourceAddrType>
<cVpcPeerKeepAliveSourceAddr> <cVpcPeerKeepAliveUdpPort> <cVpcPeerKeepAliveInterval>
<cVpcPeerKeepAliveTimeout> <cVpcPeerKeepAliveHoldTimeout> <cVpcPeerKeepAliveTos>
<cVpcPeerKeepAlivePrecedence> <cVpcPeerKeepAliveTosByte> <cVpcPeerKeepAliveVrfName> ]
```

### Syntax Description

Syntax Description		
vpc		Virtual Port Channel configuration
internal		Commands for internal use
peer-keepalive		vPC peer keep-alive
snmp		vPC keep-alive snmp information
parame-table		Peer keep-alive parameters table
domain-id		vPC domain ID
<i>id</i>		vPC domain ID value
<i>__readonly__</i>		(Optional) Read Only
<i>TABLE-cVpcPeerKeepAliveConfigTable</i>	(Optional)	Keep-alive xml parameters table
<i>cVpcPeerKeepAliveConfigDomainID</i>	(Optional)	
<i>cVpcPeerKeepAliveDestAddrType</i>	(Optional)	
<i>cVpcPeerKeepAliveDestAddr</i>	(Optional)	
<i>cVpcPeerKeepAliveSourceAddrType</i>	(Optional)	
<i>cVpcPeerKeepAliveSourceAddr</i>	(Optional)	
<i>cVpcPeerKeepAliveUdpPort</i>	(Optional)	
<i>cVpcPeerKeepAliveInterval</i>	(Optional)	
<i>cVpcPeerKeepAliveTimeout</i>	(Optional)	
<i>cVpcPeerKeepAliveHoldTimeout</i>	(Optional)	
<i>cVpcPeerKeepAliveTos</i>	(Optional)	
<i>cVpcPeerKeepAlivePrecedence</i>	(Optional)	
<i>cVpcPeerKeepAliveTosByte</i>	(Optional)	
<i>cVpcPeerKeepAliveVrfName</i>	(Optional)	

**Command Mode**

- /exec

## show vpc internal peer-keepalive snmp status-table domain-id

```
show vpc internal peer-keepalive snmp status-table domain-id <id> [ __readonly__
TABLE-cVpcPeerKeepAliveTable <cVpcPeerKeepAliveDomainID> <cVpcPeerKeepAliveStatus>
<cVpcPeerKeepAliveTime> <cVpcPeerKeepAliveMsgSendStatus> <cVpcPeerKeepAliveMsgLastSendTime>
<cVpcPeerKeepAliveMsgSendInterface> <cVpcPeerKeepAliveMsgRcvrStatus>
<cVpcPeerKeepAliveMsgLastReceiveTime> <cVpcPeerKeepAliveMsgReceiveInterface> ]
```

### Syntax Description

Syntax Description		
vpc		Virtual Port Channel configuration
internal		Commands for internal use
peer-keepalive		vPC peer keep-alive
snmp		vPC keep-alive snmp information
status-table		Peer keep-alive status table
domain-id		vPC domain ID
<i>id</i>		vPC domain ID value
<i>__readonly__</i>		(Optional) Read Only
<i>TABLE-cVpcPeerKeepAliveTable</i>		(Optional) Keep-alive xml status table
<i>cVpcPeerKeepAliveDomainID</i>		(Optional)
<i>cVpcPeerKeepAliveStatus</i>		(Optional)
<i>cVpcPeerKeepAliveTime</i>		(Optional)
<i>cVpcPeerKeepAliveMsgSendStatus</i>		(Optional)
<i>cVpcPeerKeepAliveMsgLastSendTime</i>		(Optional)
<i>cVpcPeerKeepAliveMsgSendInterface</i>		(Optional)
<i>cVpcPeerKeepAliveMsgRcvrStatus</i>		(Optional)
<i>cVpcPeerKeepAliveMsgLastReceiveTime</i>		(Optional)
<i>cVpcPeerKeepAliveMsgReceiveInterface</i>		(Optional)

### Command Mode

- /exec

## show vpc internal role snmp role-table domain-id

```
show vpc internal role snmp role-table domain-id <id> [ __readonly__ TABLE-cVpcRoleTable
<cVpcRoleDomainID> <cVpcRoleStatus> <cVpcDualActiveDetectionStatus>
<cVpcSystemAdminMacAddress> <cVpcSystemOperMacAddress> <cVpcLocalOperMacAddress>
<cVpcSystemAdminPriority> <cVpcSystemOperPriority> <cVpcLocalRoleAdminPriority>
<cVpcLocalRoleOperPriority> ]
```

### Syntax Description

Syntax Description		
vpc		Virtual Port Channel configuration
internal		Commands for internal use
role		vPC peer role
snmp		vPC role snmp information
role-table		vPC role parameters table
domain-id		vPC domain ID
<i>id</i>		vPC domain ID value
<i>__readonly__</i>		(Optional) Read Only
<i>TABLE-cVpcRoleTable</i>		(Optional) vPC role xml table
<i>cVpcRoleDomainID</i>		(Optional)
<i>cVpcRoleStatus</i>		(Optional)
<i>cVpcDualActiveDetectionStatus</i>		(Optional)
<i>cVpcSystemAdminMacAddress</i>		(Optional)
<i>cVpcSystemOperMacAddress</i>		(Optional)
<i>cVpcLocalOperMacAddress</i>		(Optional)
<i>cVpcSystemAdminPriority</i>		(Optional)
<i>cVpcSystemOperPriority</i>		(Optional)
<i>cVpcLocalRoleAdminPriority</i>		(Optional)
<i>cVpcLocalRoleOperPriority</i>		(Optional)

### Command Mode

- /exec

## show vpc internal statistics peer-keepalive snmp stats-table domain-id

```
show vpc internal statistics peer-keepalive snmp stats-table domain-id <id> [ __readonly__
TABLE-cVpcStatsPeerKeepAliveTable <cVpcStatsPeerKeepAliveDomainID>
<cVpcStatsPeerKeepAliveMsgsSent> <cVpcStatsPeerKeepAliveMsgsRcvd>
<cVpcStatsPeerKeepAliveAvgInterval> <cVpcStatsPeerStatusChangeCount> ]
```

### Syntax Description

#### Syntax Description

vpc	Virtual Port Channel configuration
internal	Commands for internal use
statistics	vPC statistics
peer-keepalive	vPC peer keep-alive
snmp	vPC role snmp information
stats-table	vPC statistics peer-keepalive table
domain-id	vPC domain ID
<i>id</i>	vPC domain ID value
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE-cVpcStatsPeerKeepAliveTable</i>	(Optional) vPC statistics xml table
<i>cVpcStatsPeerKeepAliveDomainID</i>	(Optional)
<i>cVpcStatsPeerKeepAliveMsgsSent</i>	(Optional)
<i>cVpcStatsPeerKeepAliveMsgsRcvd</i>	(Optional)
<i>cVpcStatsPeerKeepAliveAvgInterval</i>	(Optional)
<i>cVpcStatsPeerStatusChangeCount</i>	(Optional)

### Command Mode

- /exec

# show vpc internal status snmp host-link-table domain-id vpc-id

```
show vpc internal status snmp host-link-table domain-id <did> vpc-id <vid> [ __readonly__
TABLE-cVpcStatusHostLinkTable <cVpcStatusHostLinkDomainID> <cVpcStatusHostLinkVpcID>
<cVpcStatusHostLinkIfIndex> <cVpcStatusHostLinkStatus> <cVpcStatusHostLinkConsistencyStatus>
<cVpcStatusHostLinkConsistencyDetail> ]
```

## Syntax Description

Syntax Description		
vpc		Virtual Port Channel configuration
internal		Commands for internal use
status		vPC brief status information
snmp		vPC brief host-link information
host-link-table		Host-link summary table
domain-id		vPC domain ID
<i>did</i>		vPC domain ID value
vpc-id		vPC link ID
<i>vid</i>		vPC link ID value
<i>__readonly__</i>		(Optional) Read Only
<i>TABLE-cVpcStatusHostLinkTable</i>		(Optional) Host-link xml status table
<i>cVpcStatusHostLinkDomainID</i>		(Optional)
<i>cVpcStatusHostLinkVpcID</i>		(Optional)
<i>cVpcStatusHostLinkIfIndex</i>		(Optional)
<i>cVpcStatusHostLinkStatus</i>		(Optional)
<i>cVpcStatusHostLinkConsistencyStatus</i>		(Optional)
<i>cVpcStatusHostLinkConsistencyDetail</i>		(Optional)

## Command Mode

- /exec

## show vpc internal status snmp peer-link-table domain-id

```
show vpc internal status snmp peer-link-table domain-id <did> [ __readonly__
TABLE-cVpcStatusPeerLinkTable <cVpcStatusPeerLinkDomainID> <cVpcStatusPeerLinkIfIndex> ]
```

### Syntax Description

Syntax	Description
vpc	Virtual Port Channel configuration
internal	Commands for internal use
status	vPC brief status information
snmp	vPC brief peer-link information
peer-link-table	Peer-link summary table
domain-id	vPC domain ID
<i>did</i>	vPC domain ID value
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE-cVpcStatusPeerLinkTable</i>	(Optional) Peer-link xml status table
<i>cVpcStatusPeerLinkDomainID</i>	(Optional)
<i>cVpcStatusPeerLinkIfIndex</i>	(Optional)

### Command Mode

- /exec



# show vpc orphan-ports

show vpc orphan-ports [ *\_\_readonly\_\_* *TABLE\_orphan\_ports* <*vpc-vlan*> <*vpc-orphan-ports*> ]

## Syntax Description

Syntax Description		
<i>vpc</i>		Virtual Port Channel configuration
<i>orphan-ports</i>		Show ports that are not part of vPC but have common VLANs
<i>__readonly__</i>	(Optional)	Read Only
<i>TABLE_orphan_ports</i>	(Optional)	vPC orphan ports table
<i>vpc-vlan</i>	(Optional)	
<i>vpc-orphan-ports</i>	(Optional)	

## 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

#### 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> ]
```

## Syntax Description

Syntax Description		
vpc		Virtual Port Channel configuration
role		vPC role status
__readonly__	(Optional)	Read Only
vpc-peer-status	(Optional)	vPC peer status
vpc-peer-status-reason	(Optional)	vPC peer status reason
vpc-current-role	(Optional)	vPC role
vpc-es-current-role	(Optional)	vPC role
dual-active-detected	(Optional)	Dual active detection status
vpc-system-mac	(Optional)	vPC system mac
vpc-local-system-mac	(Optional)	vPC local system mac
vpc-system-prio	(Optional)	vPC system priority
vpc-local-system-prio	(Optional)	vPC local system priority

## Command Mode

- /exec

## show vpc statistics peer-keepalive

```
show vpc statistics peer-keepalive [ __readonly__ <vpc-keepalive-counters-tx> <vpc-keepalive-counters-rx>
<vpc-keepalive-avg-rx-interval> <vpc-keepalive-peer-state-changes> ]
```

### Syntax Description

Syntax Description		
vpc		Virtual Port Channel configuration
statistics		Statistics
peer-keepalive		peer keepalive module related statistics
<i>__readonly__</i>		(Optional) Read Only
<i>vpc-keepalive-counters-tx</i>		(Optional) tx counters
<i>vpc-keepalive-counters-rx</i>		(Optional) rx counters
<i>vpc-keepalive-avg-rx-interval</i>		(Optional) avg rx interval in ms
<i>vpc-keepalive-peer-state-changes</i>		(Optional) peer state changes

### Command Mode

- /exec

# show vpc statistics vpc

```
show vpc statistics { vpc <vpc_num> | peer-link }
```

## Syntax Description

<b>Syntax Description</b>	vpc	Virtual Port Channel configuration
	statistics	Statistics
	<i>vpc_num</i>	Virtual Port Channel number
	peer-link	stats for peer-link

## Command Mode

- /exec

# show vrf

```
show vrf [ <vrf-name> | <vrf-known-name> | all ] [ order id ] [ detail ] [ passive ] [ __readonly__ TABLE_vrf
<vrf_name> <vrf_id> <vrf_state> [ <vrf_reason> ] [ <vrf_pend> ] [ <vpnid> <rd> <vni> <max_routes>
<mid_threshold> ] [ { TABLE_tib <tib_id> <tib_af> <tib_nonce> <tib_state> [ <tib_reason> ] [ <tib_pend>
} } ] ]
```

## Syntax Description

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
	<i>__readonly__</i>	(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)

---

*tib\_nonce* (Optional)

---

*tib\_state* (Optional)

---

*tib\_reason* (Optional)

---

*tib\_pend* (Optional)

---

*vni* (Optional)

---

### Command Mode

- /exec

# show vrf

show vrf [ <vrf-name> | <vrf-known-name> | all ]

## Syntax Description

Syntax Description		
show		Show running system information
vrf		Display VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
all	(Optional)	Display VRF information for all VRFs

## Command Mode

- /exec



# show vrf topology

```
show vrf topology [ order id ] [ detail ] [ __readonly__ TABLE_tib <vrf_name> <tib_af> <tib_name> <tib_id>
<tib_state> [ <tib_reason> <tib_pend> ] ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
vrf	Configure VRF parameters	
topology	Display topology information	
order	(Optional) Specify ordering	
id	(Optional) Order by ID	
detail	(Optional) Display topology detail information	
__readonly__	(Optional)	
TABLE_tib	(Optional)	
vrf_name	(Optional)	
tib_af	(Optional)	
tib_name	(Optional)	
tib_id	(Optional)	
tib_state	(Optional)	
tib_reason	(Optional)	
tib_pend	(Optional)	

## Command Mode

- /exec

## show vrrp

```
show vrrp [ [ summary ] | { [ statistics | detail ] [ interface <interface_id> ] [ vr <vr_id> ] [ master | backup |
init ] + } ] [ __readonly__ <show_vrrp_start> { TABLE_vrrp_group <sh_if_index> <sh_group_id>
<sh_group_type> <sh_group_state> <sh_group_preempt> <sh_vip_addr> { [ TABLE_sec_vip_addr
<sh_sec_vip_addr> ] } <sh_priority> [ <sh_cfg_priority> <sh_fwd_thr_lower> <sh_fwd_thr_upper> ]
<sh_adv_interval> [ <sh_auth_text> ] [ <sh_vmac> ] [ <sh_master_router> ] [ <sh_native_track_intf>
<sh_native_track_priotiry> ] { [ TABLE_vrrp_track <sh_track_object_id> <sh_decrement_priority>
<sh_track_object_state> ] } [ <sh_bfd_status> <sh_bfd_session> ] } <sh_vrrp_end> ]
```

### Syntax Description

#### 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
<i>__readonly__</i>	(Optional) Read only
<i>show_vrrp_start</i>	(Optional) Show vrrp start
TABLE_vrrp_group	(Optional) Group detail table
<i>sh_if_index</i>	(Optional) Interface type and number
<i>sh_group_id</i>	(Optional) Group number
<i>sh_group_type</i>	(Optional) Group type
<i>sh_group_state</i>	(Optional) VRRP group state
<i>sh_group_preempt</i>	(Optional) Group preemption statue
<i>sh_vip_addr</i>	(Optional) Virtual IP Address

<i>TABLE_sec_vip_addr</i>	(Optional) Secondary virtual ip address table
<i>sh_sec_vip_addr</i>	(Optional) Secondary virtual ip address
<i>sh_priority</i>	(Optional) Priority of VRRP group
<i>sh_auth_text</i>	(Optional) Authentication text
<i>sh_cfg_priority</i>	(Optional) Configured priority of VRRP group
<i>sh_fwd_thr_lower</i>	(Optional) Lower forwarding threshold
<i>sh_fwd_thr_upper</i>	(Optional) Upper forwarding threshold
<i>sh_adv_interval</i>	(Optional) Advertisement interval
<i>sh_ymac</i>	(Optional) Virtual MAC
<i>sh_master_router</i>	(Optional) Master router
<i>sh_native_track_intf</i>	(Optional) Native tracked interface
<i>sh_native_track_priotiry</i>	(Optional) Decrement priority for Native tracking
<i>TABLE_vrrp_track</i>	(Optional) VRRP tracking table
<i>sh_track_object_id</i>	(Optional) Object id of tracking object
<i>sh_decrement_priority</i>	(Optional) Decrement priority
<i>sh_track_object_state</i>	(Optional) Tracking object state
<i>sh_bfd_status</i>	(Optional) BFD status
<i>sh_bfd_session</i>	(Optional) BFD session status
<i>sh_vrrp_end</i>	(Optional) Show vrrp end

### Command Mode

- /exec

## show vrrp bfd-sessions

```
show vrrp bfd-sessions [ interface <interface-id> [ to <ipaddress> ] ] [ __readonly__ TABLE_bfd_sess
<interface> { <src_addr> | <src_addr_v6> } { <dst_addr> | <dst_addr_v6> } <session_state> <ref_count>
<displayed_interface> { TABLE_groups <group_id> <vrrp_state> <bfd_status> <operation> <time> } ]
```

### Syntax Description

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 vrrp internal configuration event-history errors

show vrrp internal configuration event-history errors

## Syntax Description

Syntax Description		
	show	Show running system information
	vrrp	Show vrrp information
	internal	Show internal vrrp information
	configuration	Show internal vrrp configuration information
	event-history	Show event history
	errors	Show error logs of VRRP Mgr

## Command Mode

- /exec

# show vrrp internal configuration event-history msgs

show vrrp internal configuration event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
vrrp		Show vrrp information
internal		Show internal vrrp information
configuration		Show internal vrrp configuration information
event-history		Show event history
msgs		Show MTS logs of VRRP Mgr

## Command Mode

- /exec

# show vrrp internal debugs

show vrrp internal [ event-history ] debugs

## Syntax Description

Syntax	Description
show	Show running system information
vrrp	Show information about VRRP
internal	Show internal vrrp information
event-history	(Optional) Show various event logs of VRRP
debugs	Show debug logs of VRRP

## Command Mode

- /exec

# show vrrp internal engine event-history errors

show vrrp internal engine event-history errors

## Syntax Description

Syntax Description		
	show	Show running system information
	vrrp	Show vrrp information
	internal	Show internal vrrp information
	engine	Show internal vrrp configuration information
	event-history	Show event history
	errors	Show error logs of VRRP Engine

## Command Mode

- /exec



# show vrrp internal engine event-history msgs

show vrrp internal engine event-history msgs

## Syntax Description

Syntax Description		
	show	Show running system information
	vrrp	Show vrrp information
	internal	Show internal vrrp information
	engine	Show internal vrrp configuration information
	event-history	Show event history
	msgs	Show MTS logs of VRRP Engine

## Command Mode

- /exec

## show vrrp internal info

```
show vrrp internal info { { counters [ <ctr_num> ] } | { { data-structures | state-history } [ vr <vr_id> ] [
interface <intf_num> ] } | bulking-stats }
```

### Syntax Description

Syntax Description	Description
show	Show running system information
vrrp	Show vrrp information
internal	Show internal vrrp information
info	Show internal vrrp info
counters	Show counters for vrrp
data-structures	Show vrrp data structures
<i>ctr_num</i>	(Optional) Enter the counter number to view
vr	(Optional) Show IPv4 virtual router information
<i>vr_id</i>	(Optional) [1-255] enter IPv4 vr group
interface	(Optional) Select interface
<i>intf_num</i>	(Optional)
bulking-stats	Bulk Queue Statistics/Info
state-history	Show vrrp state-history

### Command Mode

- /exec

# show vrrp internal info global

show vrrp internal info global

## Syntax Description

Syntax	Description
show	Show running system information
vrrp	Show vrrp information
internal	Show internal vrrp information
info	Show internal vrrp info
global	Show vrrp global information(FSRV)

## Command Mode

- /exec

# show vrrp internal mem-stats

show vrrp internal mem-stats [ uuid <uuid\_num> ] [ vrrp-only ] [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
vrrp	Show information about vrrp
internal	Show internal vrrp information
mem-stats	Show memory allocation statistics of VRRP
uuid	(Optional) Show stats only for this uuid
<i>uuid_num</i>	(Optional) Enter uuid
vrrp-only	(Optional) Show stats of only VRRP Engine
detail	(Optional) Show detail memstats for vrrp

## Command Mode

- /exec

## show vrrpv3

```
show vrrpv3 [ brief | detail | statistics ] [ <intf> [ <group_num> ] ] [ <opt_v4_or_v6> ] [ all ] [ __readonly__
<global_drops> { TABLE_istats <i_intf> <i_drops> <ttl> <checksum> <version> <type> <length> <badid>
<other> } { TABLE_grp <intf> <id> <af> <desc> <state> <duration> <vip> { TABLE_sec <addr> <prefix>
} <vmac> <adv> <owner> <preempt> <delay> <delay_rem> <priority> <m_addr> <m_priority> <m_adv>
<m_expire> <down> <down_expire> <adv_sent> <adv_err> <adv_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> } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
vrrpv3	VRRPv3 Show commands
all	(Optional) All VRRPV3 information
brief	(Optional) Brief output
detail	(Optional) Detail output
statistics	(Optional) Statistics output
<i>opt_v4_or_v6</i>	(Optional) Enter ipv4 or ipv6
<i>intf</i>	(Optional) Interface
<i>group_num</i>	(Optional) Group Number
<i>__readonly__</i>	(Optional)
TABLE_istats	(Optional) Interface-level VRRPv3 statistics
TABLE_grp	(Optional) VRRP Groups
TABLE_sec	(Optional) Secondary Addresses
<i>global_drops</i>	(Optional) Total dropped packets
<i>i_intf</i>	(Optional) Interface
<i>i_drops</i>	(Optional) Total dropped packets
<i>ttl</i>	(Optional) Invalid TTL/Hop limit
<i>checksum</i>	(Optional) Invalid checksum
<i>version</i>	(Optional) Invalid version
<i>type</i>	(Optional) Invalid message type

<i>length</i>	(Optional) Invalid length
<i>badid</i>	(Optional) Invalid group ID
<i>other</i>	(Optional) Other
<i>intf</i>	(Optional) Interface
<i>id</i>	(Optional) Group ID
<i>af</i>	(Optional) Address family
<i>desc</i>	(Optional) Description
<i>state</i>	(Optional) Group state
<i>duration</i>	(Optional) Time in current state
<i>vip</i>	(Optional) Primary virtual IP address
<i>addr</i>	(Optional) Secondary virtual IP address
<i>prefix</i>	(Optional) Secondary vIP prefix
<i>vmac</i>	(Optional) Virtual MAC address
<i>adv</i>	(Optional) Advertisement interval
<i>preempt</i>	(Optional) Preemption status
<i>owner</i>	(Optional) Owner mode
<i>delay</i>	(Optional) Preemption delay
<i>delay_rem</i>	(Optional) Preemption delay remaining
<i>priority</i>	(Optional) Priority
<i>m_addr</i>	(Optional) Group master router address
<i>m_priority</i>	(Optional) Group master priority
<i>m_adv</i>	(Optional) Master advertisement interval
<i>m_expire</i>	(Optional) Master expiration
<i>down</i>	(Optional) Master down interval
<i>down_expire</i>	(Optional) Master down expiration
<i>adv_sent</i>	(Optional) Advertisements sent
<i>adv_err</i>	(Optional) Advertisement errors
<i>adv_rcvd</i>	(Optional) Advertisements received
<i>v2adv_sent</i>	(Optional) Advertisements sent (v2)

<i>v2adv_err</i>	(Optional) Advertisement errors (v2)
<i>v2adv_recvd</i>	(Optional) Advertisements received (v2)
<i>drops</i>	(Optional) Total dropped packets
<i>incompat</i>	(Optional) v2, Incompatible
<i>conflict</i>	(Optional) Address owner conflicts
<i>bad_count</i>	(Optional) Invalid address count
<i>bad_addr</i>	(Optional) Invalid IP address
<i>bad_config</i>	(Optional) Invalid IP address config
<i>bad_advert</i>	(Optional) Invalid advertisement interval
<i>bad_state</i>	(Optional) Invalid group state
<i>bad_other</i>	(Optional) Other
<i>init_master</i>	(Optional) Init to Master
<i>init_master_time</i>	(Optional) Last Occurrence
<i>init_backup</i>	(Optional) Init to Backup
<i>init_backup_time</i>	(Optional) Last Occurrence
<i>back_master</i>	(Optional) Backup to Master
<i>back_master_time</i>	(Optional) Last Occurrence
<i>master_back</i>	(Optional) Master to Backup
<i>master_back_time</i>	(Optional) Last Occurrence
<i>mast_init</i>	(Optional) Master to Init
<i>mast_init_time</i>	(Optional) Last Occurrence
<i>back_init</i>	(Optional) Backup to Init
<i>back_init_time</i>	(Optional) Last Occurrence

### Command Mode

- /exec

# show vrrpv3 internal debug

show vrrpv3 internal debug

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	vrrpv3	VRRPv3 Show commands
	internal	Internal command
	debug	Core Code Debug flags

## Command Mode

- /exec



# show vrrpv3 internal high-availability database

```
show vrrpv3 internal high-availability { database [ summary ] | status }
```

## Syntax Description

Syntax Description		
show		Show running system information
vrrpv3		VRRPv3 Show commands
internal		Internal command
high-availability		VRRPv3 HA Information
database		HA database
summary		(Optional) Summary counters only
status		HA status and events

## Command Mode

- /exec

# show vrrpv3 internal mem-stats

show vrrpv3 internal mem-stats [ no-libs ] [ detail ]

## Syntax Description

Syntax Description		
show	Show running system information	
vrrpv3	VRRPv3 Show commands	
internal	Internal command	
mem-stats	Memory usage stats	
no-libs	(Optional) Exclude shared library information	
detail	(Optional) Detailed information	

## Command Mode

- /exec

# show vrrs client

```
show vrrs client [ <cname> ] [ __readonly__ { TABLE_client <name> <id> <all> <priority> { TABLE_tags
<tname> } } ]
```

## Syntax Description

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)
<i>TABLE_client</i>		(Optional) VRRS clients
<i>TABLE_tags</i>		(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

#### 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)
<i>TABLE_pws</i>	(Optional) Show VRRS pathways
<i>TABLE_vips</i>	(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

<b>Syntax Description</b>	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

#### Syntax Description

vrrs	VRRS Show commands
show	Show running system information
server	Information about VRRS servers
<i>__readonly__</i>	(Optional)
<i>TABLE_srv</i>	(Optional) VRRS Servers
<i>TABLE_tag</i>	(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

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)	
<i>TABLE_tag</i>	(Optional)	Known VRRS tags
<i>TABLE_client</i>	(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 vxlan

```
show vxlan [ interface [ <int-id> | <ch-id> ] ]
```

## Syntax Description

Syntax	Description
show	Show running system information
vxlan	VxLAN VLANs
interface	(Optional) Interface
<i>int-id</i>	(Optional) Interface
<i>ch-id</i>	(Optional) Port-Channel name

## Command Mode

- /exec





## W Show Commands

---

- [show wred-queue qos-group-map](#), on page 3526
- [show wrt-queue qos-group-map](#), on page 3527
- [show wrt unicast-bandwidth](#), on page 3528

# show wred-queue qos-group-map

show wred-queue qos-group-map

## Syntax Description

Syntax Description		
show		Show running system information
wred-queue		Show WRED qos-group information
qos-group-map		Display mapping of the qos-group information

## Command Mode

- /exec

# show wrr-queue qos-group-map

show wrr-queue qos-group-map

## Syntax Description

Syntax Description		
show		Show running system information
wrr-queue		Display mapping of traffic priority (CoS) values to L3 Multicast
qos-group-map		Show wrr-queue qos-group-map

## Command Mode

- /exec

# show wrr unicast-bandwidth

show wrr unicast-bandwidth

## Syntax Description

Syntax	Description
show	Show running system information
wrr	unicast bandwidth configuration
unicast-bandwidth	rate in percentage of data rate

## Command Mode

- /exec



## X Show Commands

---

- [show xml server internal exec-info](#), on page 3530
- [show xml server internal history](#), on page 3531
- [show xml server logging configuration](#), on page 3532
- [show xml server status](#), on page 3533

## show xml server internal exec-info

```
show xml server internal exec-info { all | <session_id> } [ __readonly__ { <shmem_size> <shmem_slot_size>
<nb_of_slots> <free_slots> } [ { TABLE_session_slots <offset> <session_id> <start_time> <ip_addr> <state>
} ] ]
```

### Syntax Description

Syntax Description		
show		Show running system information
xml		xml agent
server		xml agent server
internal		Commands for internal use
exec-info		Information about xml sessions execution
all		all sessions
__readonly__		(Optional)
shmem_size		(Optional) shared memory size
shmem_slot_size		(Optional) shared memory slot size
nb_of_slots		(Optional) number of slots
free_slots		(Optional) number of free slots
TABLE_session_slots		(Optional) all xml sessions
offset		(Optional) offset on the shared memory segment
session_id		session number
start_time		(Optional) the xml session start time
ip_addr		(Optional) ip address of the session
state		(Optional) slot state

### Command Mode

- /exec

# show xml server internal history

```
show xml server internal history { commands | errors | all_history } [ session <session_id> ] [ __readonly__
{ TABLE_history <session_id> <ip_addr> [ { TABLE_commands <cmdtime> <cmd> } ] [ { TABLE_errors
<errtime> <err> } ] } ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
xml	xml agent	
server	xml agent server	
internal	Commands for internal use	
history	XML History	
commands	XML commands processed	
errors	Errors returned by XML commands	
all_history	All history elements	
session	(Optional) xml agent session	
session_id	(Optional) xml agent session id	
__readonly__	(Optional)	
TABLE_history	(Optional) xml commands history	
ip_addr	(Optional) ip address of the session	
session_id	(Optional) xml agent session id	
TABLE_commands	(Optional) all xml commands	
cmdtime	(Optional) Time when command was issued	
cmd	(Optional) CLI equivalent of an XML instance	
TABLE_errors	(Optional) errors returned by xml commands	
errtime	(Optional) Time when error was encountered	
err	(Optional) CLI equivalent of an XML instance	

## Command Mode

- /exec

# show xml server logging configuration

show xml server logging configuration

## Syntax Description

---

**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

Syntax Description		
show		to display xml agent information
xml		xml agent
server		xml agent server
status		display xml agent information
__readonly__		(Optional)
operational_status		(Optional) run-time info about xml
<i>o_status</i>		(Optional) operational status of the xml
maximum_sessions_configured		(Optional) the max session configured
<i>max_session</i>		(Optional) max sessions number
TABLE_sessions		(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

# XML Support

- [Commands with XML/JSON Support, on page 3537](#)





## Commands with XML/JSON Support

---

- [XML Support for Show Commands, on page 3538](#)

# XML Support for Show Commands

Table 1:

Show Commands	XML Support
show [ <ip_ipv6_mac> ] access-lists [ <name> ] [ capture session <capture_session> ] [ <expanded>   <summary>   <private>   <brief> ]	Yes
show [ ip ] bgp { peer-session [ <session-template-name> ]   peer-policy [ <policy-template-name> ] }	Yes
show [ ip ] bgp paths	Yes
show [ ip ] bgp peer-template [ <peer-template-name> ]	Yes
show [ vdc ] resource internal info [ { resource [ <res-mgr-res-known-name-all> [ vdc <vdc_id> ] ] } ]	No
show { { ipv6 route }   { routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] } } [ l3vm-info ]	Yes
show { consistency-checker l2 module <modnum>   forwarding consistency l2 <modnum> }	Yes
show { hostname   switchname }	Yes
show { ip mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   ip bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_01234567890 } ] }	No
show { ip mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   ip bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_01234567890 } ] }	No
show { ip mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   ip bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_01234567890 } ] }	No
show { ipv6   ip } rip [ instance <inst> ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show { ipv6   ip } rip [ instance <inst> ] interface [ <interface> ] [ detail ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show { ipv6   ip } rip [ instance <inst> ] memory	Yes
show { ipv6   ip } rip [ instance <inst> ] neighbor [ <interface> ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show { ipv6   ip } rip [ instance <inst> ] route [ { <ipv6-prefix>   <ip-prefix> } [ { longer-prefixes   shorter-prefixes } ] ] [ summary ] [ vrf { <vrf-	Yes
show { ipv6   ip } rip [ instance <inst> ] statistics [ *   <interface> ]	Yes
show { ipv6   ip } rip [ instance <tag> ] internal event-history { errors   msgs   database   packet   event   input   output   policy   timer   cli }	No

Show Commands	XML Support
show { ipv6   ip } rip [ instance <tag> ] internal library-info	No
show { ipv6   ip } rip [ instance <tag> ] internal mem-stats [ all   shared ] [ no-libs ] [ detail ]	No
show { l2   fabricpath } mroute { [ vdc-omf ] { [ resolved ] }   [ vlan <vlanid> ] { [ omf ]   [ flood ]   [ source { <srcaddr>   <v6srcaddr>   <macsr	Yes
show { l2   fabricpath } mroute flood vlan <vlan_id>	Yes
show { l2   fabricpath } mroute summary [ detail ]	Yes
show { l2   fabricpath } multicast ftag [ <ftag-id> ]	Yes
show { l2   fabricpath } multicast trees [ topo <topo-id> ] [ ftag <ftag-id> ] [ hex ]	Yes
show { routing   ip route } [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] [ ip   ipv4 ] [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [	Yes
show { system internal   hardware } access-list [ vdc <vdc_id> ] database { interface   vlan   policy   process } [ module <module> ]	Yes
show { system internal   hardware } access-list [ vdc <vdc_id> ] database { interface   vlan   policy   process } [ module <module> ]	Yes
show { system internal   hardware } access-list { summary   [ vdc <vdc_id> ] } { [ interface <if_name>   vlan <vlan_id>   inband table <table> ] [ { inpu	Yes
show { system internal   hardware } access-list { summary   [ vdc <vdc_id> ] } { [ interface <if_name>   vlan <vlan_id>   inband table <table> ] [ { inpu	Yes
show { system internal   hardware } access-list resource { { { entries   l4ops   redirect   ipv6-compression   mac-compression   aqm-d   aqm-q   oq   o	Yes
show { system internal   hardware } access-list resource { { { entries   l4ops   redirect   ipv6-compression   mac-compression   aqm-d   aqm-q   oq   o	Yes
show   topo   peerid   startup-route   server   signal   ksink-ha   all }	No
show aaa accounting	Yes
show aaa authentication	Yes
show aaa authentication login { mschap   mschapv2   chap }	Yes
show aaa authentication login ascii-authentication	Yes
show aaa authentication login error-enable	Yes
show aaa authentication login invalid-username-log	No
show aaa authentication login password-aging	Yes
show aaa authorization [ all ]	Yes

Show Commands	XML Support
show aaa groups	Yes
show aaa local user blocked	No
show aaa user default-role	Yes
show accounting log [ { <i0>   start-time <SYYYY> <SMonth> <SDate> <STime> [ end-time <EYYYY> <EMonth> <EDate> <ETime> ] } ]	Yes
show accounting log all	Yes
show accounting log last-index	Yes
show accounting log nvram [ { <i0>   start-time <SYYYY> <SMonth> <SDate> <STime> [ end-time <EYYYY> <EMonth> <EDate> <ETime> ] } ]	Yes
show accounting log nvram last-index	Yes
show accounting log nvram start-seqnum <SSEQNUM> [ end-seqnum <ESEQNUM> ]	Yes
show accounting log start-seqnum <SSEQNUM> [ end-seqnum <ESEQNUM> ]	Yes
show acl status	Yes
show adbm internal [ event-history ] errors	No
show adbm internal [ event-history ] msgs	No
show adbm internal [ event-history ] vsan <i0>	No
show adbm internal info [ { global   vsan <i0> } ]	No
show adbm internal mem-stats [ detail ]	No
show archive	No
show arp access-lists [ <name> ] [ ] [ capture session <session-id> ]	Yes
show background	No
show banner motd	Yes
show bash-shell	Yes
show bfd { [ vrf { <vrf-name>   <vrf-known-name>   all } ] } { [ <ip_type> ] } neighbors { [ module <module_no> ]   [ interface <intf_id> ]   [ applicatio	Yes
show bfd addrmap [ application <appid> discriminator <discr> address-type <addrtype> address <addr> ]	Yes
show bfd clients	Yes
show bfd discrmap [ <discr> ]	Yes



Show Commands	XML Support
show bfd intfipmap [ interface <intf> address-type <addrtype> address <addr> ]	Yes
show bfd scalar	Yes
show bfd session { [ discriminator <sessionIndex> ]   [ interface <intf_id> ]   [ application <app_name> ]   [ src-ip <src_ip> ]   [ dest-ip <dest_ip> ]	Yes
show bfd-app session status { src-ip { <src_ip> dest-ip <dest_ip>   <src_ipv6> dest-ip <dest_ipv6> } { iod <iod_id>   intf <intf_id> }   <all> }	No
show bgp [ internal ] event-history { <bgp-event-hist>   errors   msgs   detail } [ statistics ]	No
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { { ip   ipv4 } { unicast   multicast }   vpnv4 unicast   ipv4 mdt   lin	Yes
"show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { { ip   ipv4 } { unicast   multicast }   ipv4 mdt [ rd { ""<ext-comm-rd-aa"	Yes
"show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { { ip   ipv4 } { unicast   multicast }   vpnv4 unicast [ rd { ""<ext-comm-	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast } } pre	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   al	No
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   al	No
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   all	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   all	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   all	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   all	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   ipv	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   ipv	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   ipv	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   ipv	Yes

Show Commands	XML Support
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   ipv	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   ipv	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   ipv	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast } flap-statistics [ <ip-prefix>   <ip-	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast } policy statistics { { redistribute [	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] convergence [ detail ] [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_0123	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] convergence private [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345	No
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] process [ detail ] [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_01234567	Yes
show bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] sessions [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 }	Yes
show bgp { { [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }	Yes
show bgp { { [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }	Yes
show bgp { { [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }	Yes
show bgp { { [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }	Yes
show bgp { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   ipv4 mdt   vpnv4 unicast   vpnv6 unicast   ipv6 labeled-unicast   link-s	Yes
show bgp internal { [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { all   debug   io   af   mqstat   bestpath   bfd   inject-map	No
show bgp internal { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicast }   ipv4 mdt   vpnv4 unicast   vpnv6 unicast   ipv6 labeled-unicas	No
show bgp internal epe	No
show bgp internal evi [ <evi-id> ]	Yes
show bgp internal interface [ <interface> ]	No

Show Commands	XML Support
show bgp internal library-info	No
show bgp internal lslib	No
show bgp internal mem-stats [ { shared   all [ no-libs ]   no-libs } ] [ detail ]	No
show bgp internal pss	No
show bgp internal rpc	No
show bgp l3vpn [ detail ] [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]	Yes
show bgp private [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { { ip   ipv4 } { unicast   multicast }   ipv6 { unicast   multicas	No
show bgp private [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { all_private   session   ipc   rnh   lists   rpm-info [ route-map	No
show bgp private attr [ remote-nh ] [ [ [ ipv4 { unicast   multicast } <ip-prefix> ]   [ ipv6 { unicast   multicast } <ipv6-prefix> ] ] [ detail ] ]	No
show bgp statistics	Yes
show boot	Yes
show boot auto-copy	Yes
show boot auto-copy list	Yes
show boot current	Yes
show boot mode	Yes
show boot module [ [ <module> ] [ <s0> ] [ ] ]	Yes
show boot order	Yes
show boot sup-1	Yes
show boot sup-2	Yes
show boot timings	No
show boot variables	Yes
show bootmode [ module <module> ]	Yes
show buffers ip [ { [ all <count> ] [ free <count> ] } ]	No
show callhome	Yes
show callhome destination-profile	Yes

Show Commands	XML Support
show callhome destination-profile profile <s0>	Yes
show callhome destination-profile profile CiscoTAC-1	Yes
show callhome destination-profile profile full-txt-destination	Yes
show callhome destination-profile profile short-txt-destination	Yes
show callhome transport	Yes
show callhome transport-email	Yes
show callhome user-def-cmds	No
show cdp { all   interface <if0> }	Yes
show cdp { entry { all1   name <s0> } }	Yes
show cdp global	Yes
show cdp internal event-history debugs	No
show cdp internal event-history errors	No
show cdp internal event-history msgs	No
show cdp internal global-info	No
show cdp internal mem-stats [ detail ]	No
show cdp internal runtime-contexts [ interface <if> ]	No
show cdp neighbors [ interface <if> ]	Yes
show cdp neighbors [ interface <if> ] detail	Yes
show cdp traffic interface2 <if2>	Yes
show cfs application [ { name <cfs-dyn-app-name>   sap <i0> } ]	Yes
show cfs internal application [ { name <cfs-dyn-app-name>   sap <i1> } ]	No
show cfs internal ethernet-peer { database   statistics   error-statistics   event-log }	No
show cfs internal event-history errors	No
show cfs internal event-history init [ { ip   ethernet-discovery   transmission } ]	No
show cfs internal event-history merge [ { [ name <cfs-dyn-app-name> ]   [ sap <i1> ] } ]	No
show cfs internal event-history msgs	No
show cfs internal event-history notif [ { name <cfs-dyn-app-name>   sap <i0> } ]	No
show cfs internal ip database	No

Show Commands	XML Support
show cfs internal mem-stats [ detail ]	No
show cfs internal merge log { name <cfs-dyn-app-name>   sap <i1> }	No
show cfs internal message-context { name <cfs-dyn-app-name>   sap <i0> }	No
show cfs internal notification log { name <cfs-dyn-app-name>   sap <i1> }	No
show cfs internal remote application	No
show cfs internal session-history { name <cfs-dyn-app-name> [ { detail } ]   sap <i1> [ { detail2 } ] }	No
show cfs internal static-peers { info   log }	No
show cfs internal statistics [ { name <s0>   sap <i1> } ]	No
show cfs internal vsan database	No
show cfs lock [ { name <cfs-dyn-app-name>   sap <i1> } ]	Yes
show cfs merge status [ { name <cfs-dyn-app-name> [ detail ]   sap <i1> [ detail2 ] } ]	Yes
show cfs peers [ { name <cfs-dyn-app-name>   sap <i1> } ]	Yes
show cfs regions [ { brief [ region <i0> ]   name <cfs-dyn-app-name>   region1 <i1> } ]	Yes
show cfs remote-app vsan <i0> domain <i1>	No
show cfs remote-switches vsan <i0>	Yes
show cfs static peers	No
show cfs status	Yes
show checkpoint [ all ] [ user   system ]	Yes
show checkpoint <chkpoint_name> [ all ]	Yes
show checkpoint summary [ user   system ]	Yes
show class-map [ { [ type qos ] [ <cmap-name>   xxx <color-map-enum-name> } ]   { type queuing [ yyy <cmap-enum-name>   zzz <default-cmap-enum-name>	Yes
show class-map type control-plane [ <cmap-name> ]	Yes
show class-map type network-qos [ <cmap-name-nq> ]	Yes
show class-map type psp { [ <cmap-name-plc> [ client <clienttype> <clientID> ] [ cfg-mode <cfgmode> ] ]   [ handle <ppf_id> ] }	Yes
show cli alias [ name <s0> ]	No
show cli dynamic integers [ <name> ]	Yes

Show Commands	XML Support
show cli dynamic strings [ <name> ]	Yes
show cli history [ this-mode-only   exec-mode   config-mode ] [ <count>   unformatted ] +	No
show cli interface table	No
show cli internal last-command status	No
show cli internal mem-stats [ no-libs ] [ detail ]	No
show cli internal sdwrap	No
show cli list [ detail   recurse   <component>   <max-per-cmd> ] +	No
show cli registry [ ctags   tags   modes   session   inherit ]	No
show cli syntax [ long   recurse   has-xml-out   has-no-xml-out   is-data-modeled ] + [ roles [ network-admin   network-operator   <roles-mask> ] ] [ ha	No
show cli variables	No
show clock [ detail ]	Yes
show clock utc	No
show config-profile [ name <all_conf_profile_name> ]	Yes
show config-profile applied manually	Yes
show configuration session	Yes
show configuration session <s3>	Yes
show configuration session <s3> vsh	Yes
show configuration session global-info	Yes
show configuration session status [ <s3> ]	Yes
show configuration session summary	Yes
show consistency-checker copp	No
show consistency-checker fex-interfaces fex <id>	No
show consistency-checker forwarding [ ip   ipv4 ] [ unicast ] [ vrf { <vrf-name>   all_vrfs } ] [ module { <module>   all_modules } ]   show forwarding [	Yes
show consistency-checker forwarding [ ip   ipv4 ] [ unicast ] [ vrf { <vrf-name>   all_vrfs } ] [ module { <module>   all_modules } ]   show forwarding [	Yes
show consistency-checker forwarding ipv6 [ unicast ] [ vrf { <vrf-name>   all_vrfs } ] [ module { <module>   all_modules } ]   show forwarding ipv6 [ uni	Yes

Show Commands	XML Support
show consistency-checker forwarding ipv6 [ unicast ] [ vrf { <vrf-name>   all_vrfs } ] [ module { <module>   all_modules } ]   show forwarding ipv6 [ uni	Yes
show consistency-checker forwarding recover	No
show consistency-checker l2-tahoe module <module> [ unit <unit> ]	No
show consistency-checker l2-tahoe switchport interface <if_name>	No
show consistency-checker l3-interface module <moduleid>	No
show consistency-checker link-state module <module>	No
show consistency-checker membership port-channels [ interface <ch-id> ]	No
show consistency-checker membership vlan <vlanid> [ private-vlan ]	No
show consistency-checker nxapi interface	No
show consistency-checker pacl module <module>	No
show consistency-checker pacl port-channels [ interface <ch-id> ]	No
show consistency-checker qinvni	No
show consistency-checker racl module <module>	No
show consistency-checker racl port-channels [ interface <ch-id> ]	No
show consistency-checker stp-state vlan <vlan>	No
show consistency-checker vacl	No
show consistency-checker vxlan bgp	No
show consistency-checker vxlan interface { <int-id>   <ch-id> }	No
show consistency-checker vxlan peers	No
show consistency-checker vxlan routes	No
show consistency-checker vxlan vlan <vlanid>	No
show copp diff profile <profile_type> [ prior-ver ] profile2 <profile_type2>	No
show copp profile { strict   moderate   lenient   dense }	Yes
show copp status	Yes
show copyright	Yes
show cores [ vdc-all   { vdc [ <e-vdc2>   <vdc-id> ] } ]	Yes
show crypto ca certificates	Yes

Show Commands	XML Support
show crypto ca certificates <s0>	Yes
show crypto ca certstore	Yes
show crypto ca crl <s0>	Yes
show crypto ca internal certificates	No
show crypto ca remote-certstore	Yes
show crypto ca trustpoints	Yes
show crypto certificatemap	Yes
show crypto key mypubkey rsa	Yes
show crypto ssh-auth-map	Yes
show debug	No
"show debug ""tacacs+"" "	No
show debug { bgp   ip bgp }	No
show debug { clis   clis-all }	No
show debug { igmp   ip igmp }	No
show debug { keystore   sksd }	No
show debug { logfile <s0> }	No
show debug { ospf   ip ospf }	No
show debug { pim   ip pim }	No
show debug { port-profile   session-mgr   csm }	Yes
show debug aaa	No
show debug acllog	No
show debug acllog bypass	No
show debug aclmgr	No
show debug aclqos	No
show debug aclqos bypass	No
show debug aclqos debug-level	No
show debug adbm	No
show debug adbm bypass	No



Show Commands	XML Support
show debug arp	No
show debug ascii-cfg	No
show debug bfd	No
show debug bfd-app	No
show debug bootvar	No
show debug callhome	No
show debug capability	No
show debug cdp	No
show debug cert-enroll	No
show debug cfs	No
show debug clk_mgr	No
show debug confcheck	No
show debug copp	No
show debug copp bypass	No
show debug core	No
show debug device_test	No
show debug dhclient	No
show debug diagclient	No
show debug diagmgr	No
show debug eltm	No
show debug eltm bypass	No
show debug ethdstats	No
show debug ethpm	No
show debug ethpm bypass	No
show debug evmc	No
show debug evms	No
show debug exceptionlog	No
show debug fabric forwarding	No

Show Commands	XML Support
show debug fc2	No
show debug fcfwd	No
show debug fcoe_klm	No
show debug fm	No
show debug fs-daemon	No
show debug gpixm	No
show debug gpixm bypass	No
show debug im	No
show debug im bypass	No
show debug ip { ipc   mpacket   packet   icmp }	No
show debug ip igmp snooping	No
show debug ip mfwd packet	No
show debug ip mrouting	No
show debug ip routing	No
show debug ipconf	No
show debug ipconf bypass	No
show debug ipconf ipv6	No
show debug ipfib	No
show debug ipqos	No
show debug ipqos debug-level	Yes
show debug ipv6 { icmp   mld   nd }	No
show debug ipv6 { ipc   mpacket   packet }	No
show debug ipv6 mrouting	No
show debug ipv6 routing	No
show debug kadb	No
show debug klm-rwsem	No
show debug l2fm	No
show debug l2fm bypass	No

Show Commands	XML Support
show debug l2fwder	No
show debug l2pt	No
show debug l2rib	No
show debug license	No
show debug lim	No
show debug lim bypass	No
show debug m2rib	No
show debug mfdm	No
show debug mfdm bypass	No
show debug mmode	No
show debug module	No
show debug monitor	No
show debug mpls forwarding	No
show debug mts	No
show debug mvsh	No
show debug ntp	No
show debug nve	No
show debug obfl	No
show debug pfstat	No
show debug pfstat bypass	No
show debug pixm	No
show debug pixm bypass	No
show debug platform	No
show debug plcmgr	No
show debug plog	No
show debug pltfm_config	No
show debug pltfm_config bypass	No
show debug plugin	No

Show Commands	XML Support
show debug plugin bypass	No
show debug port_lb	No
show debug port-channel	No
show debug port-channel bypass	No
show debug port-client	No
show debug port-client bypass	No
show debug psshelper	No
show debug psshelper_gsvc	No
show debug radius	No
show debug redundancy	No
show debug res_mgr	No
show debug res_mgr bypass	No
show debug rip	No
show debug sal	No
show debug security	No
show debug sensor	No
show debug snmp	No
show debug snmpmib	No
show debug snmpmib bypass	No
show debug spanning-tree	No
show debug spanning-tree bypass	No
show debug spm	No
show debug spm bypass	No
show debug statsclient	No
show debug stripcl	No
show debug system	No
show debug tamnw	No
show debug tamnw bypass	No

Show Commands	XML Support
show debug track	No
show debug track bypass	No
show debug ttyd	No
show debug ufdm	No
show debug ufdm bypass	No
show debug usdk	No
show debug vdc	No
show debug vdc bypass	No
show debug virtual-service	No
show debug vlan	No
show debug vlan bypass	No
show debug vmm	No
show debug vsh	No
show debug vshd	No
show debug vtp	No
show debug xbar	No
show debug xml server	No
show debug xml server session logging level	Yes
show debug-filter { bgp   ip bgp }	No
show debug-filter { igmp   ip igmp }	No
show debug-filter { ospf   ip ospf }	No
show debug-filter { pim   ip pim }	No
show debug-filter all	No
show debug-filter arp	No
show debug-filter fabric forwarding	No
show debug-filter ip mrouting	No
show debug-filter ipv6 icmp	No
show debug-filter ipv6 mrouting	No

Show Commands	XML Support
show debug-filter l2fwder	No
show debug-filter l2pt	No
show debug-filter rip	No
show debug-filter rpm	No
show default-interface log	No
show diagnostic bootup level	Yes
show diagnostic content module { all   <module> }	Yes
show diagnostic description module <module> test { all   <name>   <test-id> }	Yes
show diagnostic events [ error   info ]	No
show diagnostic internal device_test [ event-history ] errors	No
show diagnostic internal device_test [ event-history ] msgs	No
show diagnostic internal device_test mem-stats [ uuid <i0> ] [ device_test-only ] [ detail ]	No
show diagnostic internal device_test module { all   <module> } history	No
show diagnostic internal diagclient [ event-history ] errors	No
show diagnostic internal diagclient [ event-history ] msgs	No
show diagnostic internal diagclient [ event-history ] trace	No
show diagnostic internal diagclient info	No
show diagnostic internal diagclient mem-stats [ detail ]	No
show diagnostic internal diagclient module { all   <module> } history	No
show diagnostic internal diagmgr [ event-history ] errors	No
show diagnostic internal diagmgr [ event-history ] msgs	No
show diagnostic internal diagmgr [ event-history ] trace	No
show diagnostic internal diagmgr mem-stats [ detail ]	No
show diagnostic internal diagmgr module { all   <module> } history	No
show diagnostic internal port_lb [ event-history ] errors	No
show diagnostic internal port_lb [ event-history ] errors module { <module> }	No
show diagnostic internal port_lb [ event-history ] msgs	No
show diagnostic internal port_lb [ event-history ] trace	No

Show Commands	XML Support
show diagnostic internal port_lb [ event-history ] trace module { <module> }	No
show diagnostic internal port_lb info	No
show diagnostic internal port_lb mem-stats [ detail ]	No
show diagnostic internal port_lb module { all   <module> } history	No
show diagnostic internal port_lb PortLoopback module { all   <module> } fsm	No
show diagnostic internal port_lb PortLoopback module { all   <module> } history	No
show diagnostic internal port_lb RewriteEngineLoopback module { all   <module> } fsm	No
show diagnostic internal port_lb RewriteEngineLoopback module { all   <module> } history	No
show diagnostic internal port_lb SnakeLoopback module { all   <module> } fsm	No
show diagnostic internal port_lb SnakeLoopback module { all   <module> } history	No
show diagnostic ondemand setting	Yes
show diagnostic result module <module> [ test { <name>   <test-id> } ] { [ detail ]   [ statistics ] }	Yes
show diagnostic result module all [ detail ]	Yes
show diagnostic simulation module <module>	Yes
show diagnostic status module <module>	Yes
show diff rollback-patch { src-checkpoint <chkpoint_name>   src-running-cfg   src-startup-cfg   src-file <srcfile_uri> } { dst-checkpoint <chkpoi	Yes
show dot1q-tunnel	Yes
show dot1q-tunnel interface <ifid_eth_dot1q_tunnel>	Yes
show eemtest internal eem-state	No
show email	Yes
show encryption service stat	Yes
show environment [ fan [ detail1 ]   power [ detail ] [ ampere ] [ input ]   temperature [ module <module>   <s0> <santa-cruz-range>   psu ] ]	Yes
show eol status	No
show errdisable { detect   recovery }	Yes
show errdisable flap	No
show event manager environment { all   <varname> }	Yes

Show Commands	XML Support
show event manager event-types [ all   <event-type-name> ] [ module <module-id> ]	Yes
show event manager events action-log [ policy <policy-name>   event-type <event-type-name> ]	No
show event manager history events [ detail ] [ maximum <n-events> ] [ severity <sev> ]	Yes
show event manager internal clients [ all ] [ module <module-id> ]	No
show event manager internal evmc debug counters	No
show event manager internal evmc errors	No
show event manager internal evmc mem-stats [ detail ]	No
show event manager internal evmc msgs	No
show event manager internal evms debug counters	No
show event manager internal evms errors	No
show event manager internal evms mem-stats [ detail ]	No
show event manager internal evms msgs	No
show event manager internal mvsh mem-stats [ detail ]	No
show event manager internal publisher sap <sapnum> [ module <module-id> ]	No
show event manager policy internal [ <policy-name>   inactive ]	No
show event manager policy-state <name> [ module <module-id> ]	Yes
show event manager script system { all   <script-name> }	Yes
show event manager system-policy [ all   <policy-name> ]	Yes
show event-history	No
show event-history xbar	No
show fabric database dci [ { vrf { <vrf-name>   <vrf-known-name> } [ peer-id <peer-ip-address> ] [ detail ] } ]	Yes
show fabric database dci [ { vrf <vrf-name> [ peer-id <peer-ip-address> ] [ detail ] } ]	No
show fabric database host [ detail ] [ { vni <vni-id> }   { dot1q <vlan-id> } ]	Yes
show fabric database host [ detail ] [ { vni <vni-id> }   { dot1q <vlan-id> } ] [ internal ]	Yes
show fabric database host [ detail ] [ { vni <vni-id> }   { dot1q <vlan-id> } ] internal	No
show fabric database host statistics	Yes
show fabric database host statistics	Yes



Show Commands	XML Support
show fabric database host summary	Yes
show fabric database host summary	Yes
show fabric database internal profile-data	No
show fabric database profile-map { global   [ <id>   interface <interface-id> ] }	Yes
show fabric database profile-map { global   [ <id>   interface <interface-id> ] }	Yes
show fabric database statistics [ type { network   profile   cabling   partition   bl-dci } ]	Yes
show fabric forwarding host-db [ { vrf { <vrf-name>   <vrf-known-name>   all } } ]	Yes
show fabric forwarding internal { ip   ipv6 } dup-host [ { vrf { <vrf-name>   <vrf-known-name>   all } } ]	No
show fabric forwarding internal af [ { vrf { <vrf-name>   <vrf-known-name>   all } } ]	No
show fabric forwarding internal buffers [ vPC ]	No
show fabric forwarding internal clients	No
show fabric forwarding internal debug	No
show fabric forwarding internal event-history { errors   msgs   trace   events   packets   ha   periodic   auto-config   test }	No
show fabric forwarding internal intf { local-host-db   remote-host-db } [ { vrf { <vrf-name>   <vrf-known-name>   all } } ] [ <interface> ]	No
show fabric forwarding internal ip local-host-db [ { vrf { <vrf-name>   <vrf-known-name>   all } } ] [ <ip-prefix> ]	No
show fabric forwarding internal ipv6 local-host-db [ { vrf { <vrf-name>   <vrf-known-name>   all } } ] [ <ipv6-prefix> ]	No
show fabric forwarding internal mac-bd local-host-db [ { vrf { <vrf-name>   <vrf-known-name>   all } } ] [ <mac-addr> <bd> ]	No
show fabric forwarding internal mem-stats [ all ] [ detail ]	No
show fabric forwarding internal migration-vips [ { vrf { <vrf-name>   <vrf-known-name>   all } } ] [ <svi-intf> ]	No
show fabric forwarding internal sdb	No
show fabric forwarding internal state	No
show fabric forwarding internal state vPC	No
show fabric forwarding internal svi-info [ <svi-intf> ]	No
show fabric forwarding internal topo-info [ <topo-id>   stale ]	No

Show Commands	XML Support
show fabric forwarding internal work-info	No
show fabric forwarding ip { { local-host-db   remote-host-db   aggregate-subnet-prefix } [ { vrf { <vrf-name>   <vrf-known-name>   all } } ] [ <ip-prefix	Yes
show fabric forwarding ipv6 { { local-host-db   remote-host-db   aggregate-subnet-prefix } [ { vrf { <vrf-name>   <vrf-known-name>   all } } ] [ <ipv6-pr	Yes
show fabric forwarding statistics conversational-learning [ ip   ipv6 ] { source-limit [ <ip-prefix>   <ipv6-prefix> ]   max-conversation-limit   port-li	Yes
show fc2 bind	No
show fc2 classf	No
show fc2 exchange	No
show fc2 exchresp	No
show fc2 flogi	No
show fc2 internal cmdcode	No
show fc2 internal cpuhog	No
show fc2 internal cpuperiod	No
show fc2 internal cputimer	No
show fc2 internal debugmon	No
show fc2 internal dest_index	No
show fc2 internal device	No
show fc2 internal event-history errors	No
show fc2 internal event-history filt_msg	No
show fc2 internal event-history log_errors	No
show fc2 internal event-history msgs	No
show fc2 internal fc2_tx_enable	No
show fc2 internal flag	No
show fc2 internal fragsize	No
show fc2 internal maxrxbuffer	No
show fc2 internal memory_usage	No
show fc2 internal pid_tx	No

Show Commands	XML Support
show fc2 internal platform	No
show fc2 internal plogi	No
show fc2 internal reason_code	No
show fc2 internal rxmaxpacket	No
show fc2 internal rxmaxsequence	No
show fc2 internal sockqueue <i0>	No
show fc2 internal tstmpvalid	No
show fc2 internal txmaxsequence	No
show fc2 nport	No
show fc2 plogi	No
show fc2 plogi_pwwn	No
show fc2 port brief	No
show fc2 port drops	No
show fc2 port state	No
show fc2 socket	No
show fc2 sockexch	No
show fc2 socknotify	No
show fc2 socknport	No
show fc2 vsan	No
show fcoe_klm internal event-history errors	No
show fcoe_klm internal event-history msgs	No
show fcoe_klm internal flag	No
show fcoe_klm internal platform	No
show feature	Yes
show feature-set [ <name> ] [ <id> ]	Yes
show feature-set services <s0>	Yes
show file <uri0> [ cksum   md5sum   sha256sum   sha512sum ]	Yes
show fips status	Yes

Show Commands	XML Support
show forwarding [ vrf { <vrf-name>   <vrf-known-name> }   table <table_id> ] [ ip   ipv4 ] pss route [ module <module> ]	No
show forwarding [ vrf { <vrf-name>   <vrf-known-name> }   table <table_id> ] ipv6 pss route [ module <module> ]	No
show forwarding [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] [ ip   ipv4 ] adjacency [ mpls ] [ lisp ] [ nve ] [ <aif> ] [ <anh> ] [ detail   s	Yes
show forwarding [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ipv6 adjacency [ mpls ] [ <aif> ] [ <anh> ] [ detail   stats   platform ] [ module	Yes
show forwarding [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> }   table <table_id> ] [ ip   ipv4 ] { route   nhdb } [ recursive ] [ summary   detai	Yes
show forwarding [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> }   table <table_id> ] [ ip   ipv4 ] security mac [ <addr> ] [ module <module>   vrf {	Yes
show forwarding [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> }   table <table_id> ] ipv6 { route   nhdb } [ recursive ] [ detail   summary   platf	Yes
show forwarding [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> }   table <table_id>   vlan <vlan_id> ] [ ip   ipv4 ] security group-tag [ <addr> ] [	Yes
show forwarding [ vrf { <vrf-name>   <vrf-known-name>   all }   table <tab_id> ] ipv6 multicast route { [ group { <group>   <group_addr> }   source { <s	Yes
show forwarding [ vrf { <vrf-name>   <vrf-known-name>   all }   table <table_id> ] [ ip   ipv4 ] multicast route [ platform ] { [ group { <gaddr> [ <mas	Yes
show forwarding bypass-hardware [ module <module> ]	No
show forwarding capture [ module <module> ]	Yes
show forwarding distribution [ ip ] multicast route [ table <id>   vrf { <vrf_name>   all } ] [ group { <gaddr> [ <mask> ]   <gprefix> } ] [ source { <	Yes
show forwarding distribution { pauz   rezum }	No
show forwarding distribution capture	Yes
show forwarding distribution clients	Yes
show forwarding distribution fib-state	Yes
show forwarding distribution internal counters [ ] [ detail ]	Yes
show forwarding distribution internal counters clear	No
show forwarding distribution internal debugs	No
show forwarding distribution internal error counts	Yes
show forwarding distribution internal errors	No

Show Commands	XML Support
show forwarding distribution internal info	Yes
show forwarding distribution internal ingress-replication-peer	No
show forwarding distribution internal mem-stats [ detail ]	No
show forwarding distribution internal msgs	No
show forwarding distribution internal multicast download	No
show forwarding distribution internal multicast file-log disable	No
show forwarding distribution internal multicast file-log enable	No
show forwarding distribution internal multicast global_state	No
show forwarding distribution internal multicast hold_queue { line_card_upgrade   sys_upgrade   client_xid   svrf_download_req   all }	No
show forwarding distribution internal multicast primary	No
show forwarding distribution internal multicast secondary	No
show forwarding distribution internal trace events-config	No
show forwarding distribution internal trace events-history	No
show forwarding distribution internal trace ipv6-l3-route-config	No
show forwarding distribution internal trace ipv6-l3-route-history	No
show forwarding distribution internal trace l2-mc-route-config	No
show forwarding distribution internal trace l2-mc-route-history	No
show forwarding distribution internal trace l2-oiflist-config	No
show forwarding distribution internal trace l2-oiflist-history	No
show forwarding distribution internal trace l2-route-config	No
show forwarding distribution internal trace l2-route-history	No
show forwarding distribution internal trace l3-route-config	No
show forwarding distribution internal trace l3-route-history	No
show forwarding distribution internal trace oiflist-config	No
show forwarding distribution internal trace oiflist-history	No
show forwarding distribution internal trace otv oiflist-config	No
show forwarding distribution internal trace otv oiflist-history	No

Show Commands	XML Support
show forwarding distribution ip igmp snooping [ vlan <vlan-id> [ group [ <grpaddr>   <mac-grpaddr> ] [ source <srcaddr> ] ] ] [ detail ]	Yes
show forwarding distribution ipv6 multicast route [ table <table_id>   vrf <vrf-name> ] [ <group> [ <source> ]   summary ]	Yes
show forwarding distribution l2 multicast [ ip-based   mac-based ] [ vlan <vlan-id> [ { group <grpaddr> [ source <srcaddr> ] }   destination-mac <dmac> ]	Yes
show forwarding distribution lisp counters	Yes
show forwarding distribution lisp vrf enabled	Yes
show forwarding distribution logging [ enable   disable ]	No
show forwarding distribution multicast [ messages ]	Yes
show forwarding distribution multicast { mfib-txlist [ vrf <vrf-name> ]   mfib-buffers }	No
show forwarding distribution multicast client	Yes
show forwarding distribution multicast client-ack-db	Yes
show forwarding distribution multicast download	No
show forwarding distribution multicast internal mem-stats [ detail ]	No
show forwarding distribution multicast outgoing-interface-list { L2   L3   OTV } [ <index> ]	Yes
show forwarding distribution multicast resp-ack-timer-msgs	No
show forwarding distribution nve overlay-vlan	Yes
show forwarding distribution otv multicast route [ vlan <vlan-id> ]	Yes
show forwarding distribution peer-id [ vpls   otv ]	Yes
show forwarding distribution test { on   off }	No
show forwarding distribution trace	No
show forwarding dvif primary	No
show forwarding dvif secondary	No
show forwarding ecmp [ { [ vrf { <vrf-name>   <vrf-known-name> } ] lisp } ] [ platform ] [ module <module> ] [ partial ]	Yes
show forwarding ecmp recursive [ platform ] [ max-display-count <display_count> ] [ module <module> ] [ partial ]	Yes
show forwarding file-log disable	No

Show Commands	XML Support
show forwarding file-log enable	No
show forwarding interfaces [ module <module> ]	Yes
show forwarding internal debugs	No
show forwarding internal error counts [ module <module> ]	Yes
show forwarding internal errors	No
show forwarding internal info	No
show forwarding internal ipfib debugs	No
show forwarding internal l2mcast debugs	No
show forwarding internal l2vpn counters [ clear ] [ module <module> ]	No
show forwarding internal l2vpn trace member-config [ module <module> ]	No
show forwarding internal l2vpn trace member-history [ module <module> ]	No
show forwarding internal mem-stats [ detail ]	No
show forwarding internal message counts [ module <module> ]	Yes
show forwarding internal mpls counters [ clear ] [ module <module> ]	No
show forwarding internal mpls debugs	No
show forwarding internal mpls trace adj-config [ module <module> ]	No
show forwarding internal mpls trace adj-history [ module <module> ]	No
show forwarding internal mpls trace ecmp-config [ module <module> ]	No
show forwarding internal mpls trace ecmp-history [ module <module> ]	No
show forwarding internal mpls trace label-config [ module <module> ]	No
show forwarding internal mpls trace label-history [ module <module> ]	No
show forwarding internal mpls trace te-config [ module <module> ]	No
show forwarding internal mpls trace te-history [ module <module> ]	No
show forwarding internal msgs	No
show forwarding internal multicast counts [ module <module> vdc <vdc_id> ]	Yes
show forwarding internal multicast counts clear [ module <module> vdc <vdc_id> ]	No
show forwarding internal multicast debugs	No
show forwarding internal multicast pd debugs	No

Show Commands	XML Support
show forwarding internal nve ir-peer	No
show forwarding internal pss disable	No
show forwarding internal pss enable	No
show forwarding internal received nexthops [ module <module> ]	No
show forwarding internal trace bt-queue { v4-pfx   v6-pfx   v4-adj   v6-adj   v4-rnh   v6-rnh   vobj   labels   ecmp   mpls-ecmp   mpls-adj   te   otv-	No
show forwarding internal trace ecmp-config [ module <module> ]	No
show forwarding internal trace ecmp-history [ module <module> ]	No
show forwarding internal trace mfib oif-config [ module <module> ]	No
show forwarding internal trace mfib oif-history [ module <module> ]	No
show forwarding internal trace mfib oiflist-config [ module <module> ]	No
show forwarding internal trace mfib oiflist-history [ module <module> ]	No
show forwarding internal trace mfib otv oif-config [ module <module> ]	No
show forwarding internal trace mfib otv oif-history [ module <module> ]	No
show forwarding internal trace mfib otv oiflist-config [ module <module> ]	No
show forwarding internal trace mfib otv oiflist-history [ module <module> ]	No
show forwarding internal trace mfib otv v4-route-config [ module <module> ]	No
show forwarding internal trace mfib otv v4-route-history [ module <module> ]	No
show forwarding internal trace mfib otv v6-route-config [ module <module> ]	No
show forwarding internal trace mfib otv v6-route-history [ module <module> ]	No
show forwarding internal trace mfib platform oiflist-config [ module <module> ]	No
show forwarding internal trace mfib platform oiflist-history [ module <module> ]	No
show forwarding internal trace mfib v4-route-config [ module <module> ]	No
show forwarding internal trace mfib v4-route-history [ module <module> ]	No
show forwarding internal trace mfib v6-route-config [ module <module> ]	No
show forwarding internal trace mfib v6-route-history [ module <module> ]	No
show forwarding internal trace nve-ir-peer-history [ module <module> ]	No
show forwarding internal trace nve-l3-vni-history [ module <module> ]	No



Show Commands	XML Support
show forwarding internal trace nve-peer-history [ module <module> ]	No
show forwarding internal trace otv-adj-config [ module <module> ]	No
show forwarding internal trace otv-adj-history [ module <module> ]	No
show forwarding internal trace otv-vlan-config [ module <module> ]	No
show forwarding internal trace otv-vlan-history [ module <module> ]	No
show forwarding internal trace v4-adj-config [ module <module> ]	No
show forwarding internal trace v4-adj-history [ module <module> ]	No
show forwarding internal trace v4-pfx-config [ module <module> ]	No
show forwarding internal trace v4-pfx-history [ module <module> ]	No
show forwarding internal trace v4-rnh-config [ module <module> ]	No
show forwarding internal trace v4-rnh-history [ module <module> ]	No
show forwarding internal trace v6-adj-config [ module <module> ]	No
show forwarding internal trace v6-adj-history [ module <module> ]	No
show forwarding internal trace v6-pfx-config [ module <module> ]	No
show forwarding internal trace v6-pfx-history [ module <module> ]	No
show forwarding internal trace v6-rnh-config [ module <module> ]	No
show forwarding internal trace v6-rnh-history [ module <module> ]	No
show forwarding internal trace vobj-config [ module <module> ]	No
show forwarding internal trace vobj-history [ module <module> ]	No
show forwarding internal trace-profile debugs	No
show forwarding internal tracing disable	No
show forwarding internal tracing enable	No
show forwarding internal ufib funcstats disable	No
show forwarding internal ufib funcstats enable	No
show forwarding internal unicast counts [ detail ] [ vdc { <vdc_id>   all } ] [ module <module> ]	Yes
show forwarding internal unicast debugs	No
show forwarding kvfib cache { on   off }	No

Show Commands	XML Support
show forwarding l2 multicast { [ { { vlan <vlan-id> [ { group <grpaddr> source <srcaddr> }   destination-mac <dstmac> ] } ] } [ vdc <vdc-id> ] [ module	Yes
show forwarding l2vpn ipv6 multicast route [ [ vlan <vlan-id> ]   [ softwarebd <software-bd> ] ] [ module <module> ]	No
show forwarding l2vpn label [ <label_id> ] vpls [ module module ]	Yes
show forwarding l2vpn label [ <label_id> ] xconnect [ module module ]	Yes
show forwarding l2vpn multicast outgoing-interface-list [ index <oiflist-index> ]	No
show forwarding l2vpn multicast route [ [ vlan <vlan-id> ]   [ softwarebd <software-bd> ] ] [ module <module> ]	No
show forwarding l2vpn service vpls { { service_id { <service_id>   all } }   { vlan { <vlan_id>   vlan_all } }   { peer { { interface <intf-name>   nex	No
show forwarding l2vpn service xconnect { service_id { <service_id>   all } } [ module <module> ] [ detail ]	No
show forwarding l2vpn vlan [ <vlan_id> ] [ module <module> ]	Yes
show forwarding mpls [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> }   label <label-id>   <prefix>   <v6prefix> ]   table <table_id> [ label <label-	Yes
show forwarding mpls aggregate [ label { <label-id>   all } ] [ detail ] [ module <module> ]	Yes
show forwarding mpls cbts [ module <module> ]	Yes
show forwarding mpls drop-stats [ platform ]	Yes
show forwarding mpls ecmp [ module <module> ] [ platform ]	Yes
show forwarding mpls summary [ module <module> ]	Yes
show forwarding mpls te [ <te_if> ] [ detail ] [ module <module> ]	Yes
show forwarding multicast outgoing-interface-list { L2   L3 } [ platform ] [ module <module> ] [ <index> ]	Yes
show forwarding nve l2 ingress-replication-peers [ <peer_ip> ]	No
show forwarding nve l3 adjacency tunnel <tunnel_id> [ bd <bd_id>   table <table_id>   detail   module <num> ] +	No
show forwarding nve l3 peers [ peers <peer_id>   tunnel <tunnel_id>   detail   module <num> ] +	Yes
show forwarding otv <intf> [ peer <peer-id> ] [ module <module> ]	Yes
show forwarding otv ipv6 multicast route [ vlan <vlan_id> ] [ module <module> ]	Yes
show forwarding otv multicast outgoing-interface-list	Yes

Show Commands	XML Support
show forwarding otv multicast route [ [ vlan <vlan-id> ]   [ softwarebd <software-bd> ] ] [ module <module> ]	Yes
show forwarding otv vlan [ <vlan_id> ] [ module <module> ]	Yes
show forwarding restart [ module <module> ]	No
show forwarding test { on   off } [ module <module> ]	No
show forwarding trace [ clear ] [ module <module> ]	Yes
show forwarding trace profile	No
show forwarding trace profile funcstats [ enable   disable ] [ module <module> ]	Yes
show guestshell [ { detail } ]	Yes
show hardware	Yes
show hardware [ forwarding ] ip verify [ module <module> ]	Yes
show hardware access-list labels <label-type> <hw-label> [ module <module> ]	No
show hardware access-list lou resource threshold	Yes
show hardware access-list resource pooling	Yes
show hardware access-list tcam { { template { nfe   nfe2   l2-l3   l3   <name>   all } }   { region } }	Yes
show hardware capacity	No
show hardware capacity eobc	Yes
show hardware capacity fabric-utilization	No
show hardware capacity forwarding	No
show hardware capacity interface	Yes
show hardware capacity module	Yes
show hardware capacity power	Yes
show hardware fabricpath mac-learning module <module>	Yes
show hardware feature-capability [ detailed ]	Yes
show hardware forwarding interface statistics mode	Yes
show hardware forwarding memory health detail	No
show hardware forwarding memory health summary	No

Show Commands	XML Support
show hardware internal access-list lookup { { { src-ip <sa-ip> dst-ip <da-ip> }   { src-ipv6 <v6sa> dst-ipv6 <v6da> } } protocol <proto> l4-sr	No
show hardware internal bootflash model	No
show hardware internal buffer info pkt-stats [ module <module> ] [ instance <instance> ] [ brief   { [ peak ] [ detail ] }   port-stuck-log [ [ as	Yes
show hardware internal buffer info pkt-stats input [ module <module> ] [ instance <instance> ] [ peak ] [ detail ]	Yes
show hardware internal buffer poll-interval [ module <module> ]	No
show hardware internal cpu interface asic counters module <module> instance <instance>	No
show hardware internal cpu-mac eobc counters	No
show hardware internal cpu-mac eobc registers	No
show hardware internal cpu-mac eobc stats	No
show hardware internal cpu-mac inband active-fm traffic-from-sup	No
show hardware internal cpu-mac inband active-fm traffic-to-sup	No
show hardware internal cpu-mac inband counters	No
show hardware internal cpu-mac inband registers	No
show hardware internal cpu-mac inband stats	No
show hardware internal cpu-mac mgmt counters	No
show hardware internal cpu-mac mgmt registers	No
show hardware internal cpu-mac mgmt stats	No
show hardware internal dev-port-map	No
show hardware internal dev-version	No
show hardware internal dev-version details	No
show hardware internal eobc stats	No
show hardware internal errors { module <module>   all }	Yes
show hardware internal errors2	Yes
show hardware internal fabric interface asic counters module <module>	No
show hardware internal fabric interface asic counters module <module> instance <instance> asic-port <port> [ snmp ]	No

Show Commands	XML Support
show hardware internal forwarding adjacency statistics default-route [ module <module> ]	No
show hardware internal forwarding adjacency utilization [ no-header ] [ module <module> ] [ instance <instance> ]	Yes
show hardware internal forwarding l2 table utilization [ instance { <instance_number>   all } ] [ no-header ] [ module <num> ]	Yes
show hardware internal forwarding l3 counters [ module <module> ]	No
show hardware internal forwarding table utilization [ no-header ] [ module <module> ] [ instance <instance> ]	Yes
show hardware internal forwarding table utilization mib module <module>	Yes
show hardware internal inband-rcpu cpu-queue [ name <queue-name> ] slot <slot-num> [ reset-stats ] [ reset-pps ]	No
show hardware internal interface <ifeth_ctr_hw> asic counters [ snmp ]	No
show hardware internal interface asic counters module <module>	No
show hardware internal logflash model	No
show hardware internal memory-ecc statistics	No
show hardware internal memory-model	No
show hardware internal mgmt0 stats	No
show hardware internal ns buffer info pkt-stats [ input ] [ module <module> ] [ instance <instance> ] [ detail ]	Yes
show hardware internal ns interrupts	Yes
show hardware internal plog errors	No
show hardware internal plog msgs	No
show hardware internal plog print [ file-type <filetype> [ { count <count> }   { uuid <uuid> } ] ]	No
show hardware internal plog print list-file-types	No
show hardware internal plog stat uuid <uuid>	No
show hardware internal proc-info <s0>	No
show hardware internal sensor event-history errors	No
show hardware internal sensor event-history msgs	No
show hardware internal sensor mem-stats [ detail ]	No

Show Commands	XML Support
show hardware internal srom event-log	No
show hardware internal statistics module <module> pktflow all	No
show hardware internal statistics module <module> pktflow rates	No
show hardware internal statistics module <module> rates	No
show hardware internal statistics module-all pktflow all	No
show hardware internal statistics module-all pktflow rates	No
show hardware internal statistics module-all rates	No
show hardware internal statistics pktflow all	No
show hardware internal statistics pktflow rates	No
show hardware internal statistics rates	Yes
show hardware internal tah interface <if_name>	No
show hardware internal tah l3 v4lpm	No
show hardware internal tah l3 v6lpm	No
show hardware internal version	Yes
show hardware mac address-table <module> [ static   dynamic ] [ address <mac-addr>   interface <interface-name>   vlan <id>   vdc <vdc>   fe <feid> ] + [	Yes
show hardware profile status [ module <module> ] [ detail ]	Yes
show hardware profile tcam region	Yes
show hardware qos burst-detect max-records	Yes
show hardware qos eoq stats-class [ module <module> ]	Yes
show hardware qos include ipg [ module <module> ]	Yes
show hardware qos ing-pg-hdrm-reserve [ module <module> ]	Yes
show hardware qos ing-pg-no-min [ module <module> ]	Yes
show hardware qos ing-pg-share [ module <module> ]	Yes
show hardware qos min-buffer [ module <module> ]	Yes
show hardware qos ns-buffer-profile [ module <module> ]	Yes
show hardware qos ns-mcq3-alias [ module <module> ]	Yes
show hardware rate-limiter [ module <module> ] [ layer-3 { <l3-opts>   multicast <mcast-opts> }   layer-2 <l2-opts>   <opts>   fl <fl-opts> ]	Yes

Show Commands	XML Support
show hardware rl snmp class-id <class-id>	Yes
show hardware rl snmp global class-id <class-id>	Yes
show hardware rl snmp local snmp-index <snmp-index> class-id <class-id>	Yes
show hosts	Yes
show ieth-header-decode <ieth>	No
show inactive-if-config log	No
show incompatibility { system <uri0>   nxos <uri1> }	Yes
show incompatibility-all { system <uri0>   nxos <uri1> }	Yes
show install { inactive   active [ brief ]   committed }	Yes
show install all failed-standby	Yes
show install all failure-reason	Yes
show install all impact [ nxos <uri> ] + [ non-disruptive ]	No
show install all impact epld <uri1>	No
show install all status	No
show install epld status	No
show install impact <uri0>	No
show install impact <uri0> <uri1>	No
show install impact <uri0> detail	No
show install log { [ <id>   from <id1> ] [ detail ] [ reverse ] [ last ] }	Yes
show install packages	Yes
show install patches	Yes
show install pkg-info <pname>	Yes
show_interface <single>	No
show interface [ <if_list> ] priority-flow-control [ detail ] [ module <module> ]	Yes
show interface [ <if_list> ] priority-flow-control [ detail ] [ module <module> ]	Yes
show interface [ controller   quick ]	Yes
show interface <ifeth_brf> brief	Yes
show interface <ifeth_ctr_brf> counters brief [ <counter_val> ]	Yes

Show Commands	XML Support
show interface <ifeth_ctr_dtl_all> counters detailed all [ snmp ]	Yes
show interface <ifeth_ctr_dtl> counters detailed [ snmp ]	Yes
show interface <ifeth_ctr_errs> counters errors [ snmp ]	Yes
show interface <ifeth_ctr_stm_ctrl> counters storm-control	Yes
show interface <ifeth_ctr_trnk> counters trunk	Yes
show interface <ifeth_ctr> counters [ snmp ]	Yes
show interface <ifeth_dbnc> debounce	Yes
show interface <ifeth_errdis> status err-disabled	Yes
show interface <ifeth_errvlans> status err-vlans	Yes
show interface <ifeth_fcoe> fcoe	Yes
show interface <ifeth_fl_ctrl> flowcontrol	Yes
show interface <ifeth_status> status	Yes
show interface <ifeth_swthc> switchport	Yes
show interface <ifeth_trans> transceiver fex-fabric [ calibrations   details ]	Yes
show interface <ifeth_trnk> trunk	Yes
show interface <ifeth> [ quick ]	Yes
show interface <ifid_ctr_dtl_all> counters detailed all [ snmp ]	No
show interface <ifid_ctr> counters [ snmp ]	Yes
show interface <ifid_eth_cap> capabilities	Yes
show interface <ifid_eth> description	Yes
show interface <ifid_macaddr> mac-address	Yes
show interface <ifid_mgmt_loop> description	Yes
show interface <ifid_status> status	Yes
show interface <ifid_tdr> cable-diagnostics-tdr	Yes
show interface <ifid_transceiver> transceiver [ calibrations   details   sprom ]	Yes
show interface <ifid> [ brief   quick ]	Yes
show interface <ifindex> vlan mapping	Yes
show interface <ifloop_brfr> brief	Yes



Show Commands	XML Support
show interface <ifloop_ctr_dtl_all> counters detailed all	Yes
show interface <ifloop_ctr_dtl> counters detailed	Yes
show interface <ifloop>	Yes
show interface <ifmgmt_brf> brief	Yes
show interface <ifmgmt_ctr_dtl_all> counters detailed all	Yes
show interface <ifmgmt_ctr_dtl> counters detailed	Yes
show interface <ifmgmt>	Yes
show interface <ifpch_brf> brief	Yes
show interface <ifrange>	Yes
show interface <ifrange>	Yes
show interface <ifrange> brief	Yes
show interface <ifrange> brief	Yes
show interface <ifrange> counters	Yes
show interface <ifrange> counters	Yes
show interface <ifrange> counters detailed all [ snmp ]	Yes
show interface <ifrange> description	Yes
show interface <ifrange> description	Yes
show interface <ifrange> status [ err-disabled ]	Yes
show interface <ifrange> status [ err-disabled ]	Yes
show interface <ifun_desc>	Yes
show interface <ifun_desc> description	Yes
show interface <ifun_status> status [ err-disabled ]	Yes
show interface <iftunnel_brf> brief	Yes
show interface <loop_ctr_errs> counters errors	No
show interface brief [ controller   cli ]	Yes
show interface capabilities	Yes
show interface counters	Yes
show interface counters [ module <module> ]	Yes

Show Commands	XML Support
show interface counters brief [ <counter_val> ]	Yes
show interface counters detailed [ snmp ]	Yes
show interface counters detailed all [ snmp ]	Yes
show interface counters errors [ module <module> ]	Yes
show interface counters snmp [ module <module> ]	Yes
show interface counters storm-control [ module <module> ]	Yes
show interface counters table [ verbose ]	No
show interface debounce	Yes
show interface description	Yes
show interface flowcontrol [ module <module> ]	Yes
show interface hardware-mappings	No
show interface mac-address	Yes
show interface pruning	Yes
show interface snmp-ifindex	Yes
show interface status [ down   inactive   module <module>   up   auto-column ]	Yes
show interface status err-disabled	Yes
show interface status err-vlans	Yes
show interface switchport	Yes
show interface transceiver [ calibrations   details   inventory ]	Yes
show interface transceiver fex-fabric [ calibrations   details ]	Yes
show interface trunk [ module <module>   vlan <vlan_id>   fex <fex_num> ]	Yes
show interface untagged-cos [ module <mod_num> ]	Yes
show inventory [ chassis   fans   power_supply   module [ <module> ]   <s0> [ <santa-cruz-range> ]   all ]	Yes
show ip { mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   { bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901	No
show ip { mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   { bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901	No

Show Commands	XML Support
show ip { mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   { bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901	No
show ip { mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   { bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901	No
show ip { mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   { bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901	No
show ip { mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   { bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901	No
show ip { mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   { bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901	No
show ip { mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   { bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901	No
show ip { mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   { bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901	No
show ip { mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   { bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901	No
show ip { mbgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ]   { bgp [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_01234567890123	No
show ip adjacency [ <interface> [ summary ]   <ip-addr> [ non-best   detail ]   detail   summary   non-best   [ throttle ] statistics ] [ vrf { <vrf-name>	Yes
show ip arp [ [ [ <ip-address>   [ sync-entries   fhpr-non-active-learn ] [ detail ]   static   summary   [ summary ] <interface> ] ] [ vrf { <vrf-name>	Yes
show ip arp anycast topo-info [ <topo-id> ]	No
show ip arp cache { { brief   detail }   { interface [ <intf> ] } } [ operational ]	No
show ip arp client	Yes
show ip arp controller-statistics	No
show ip arp internal { library-info   fastboot-cache }	No
show ip arp internal { mem-stats [ shared   all ] [ no-libs ] [ detail ] }	No
show ip arp internal buffers [ { [ all <count> ] [ free <count> ] } ]	No
show ip arp internal event-history { packet   errors   msgs   event   sync-event   ip-sync-event   control   ha   lcache   lcache-errors   cli   client-e	No
show ip arp internal event-history buffer-size { packet   errors   event   sync-event   ip-sync-event   control   ha   lcache   lcache-errors   cli   cli	No

Show Commands	XML Support
show ip arp internal hmm statistics [ detail ]	No
show ip arp internal info [ interface <interface> ]	No
show ip arp off-list [ { vlan   bdi } <vlan-id> ]	Yes
show ip arp open-flow error-statistics	No
show ip arp snmp ptree { static   dynamic   virtual   typeall } [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No
show ip arp statistics [ <interface> ] [ interface-all ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip arp suppression topo-info [ <topo-id> ]	No
show ip arp suppression-cache { detail [ vlan <vlan_id> ]   summary   statistics   vlan <vlan_id>   local [ vlan <vlan_id> ]   remote [ vlan <vlan_id> ] }	Yes
show ip arp tunnel-statistics	Yes
show ip arp vaddr	No
show ip arp vpc-statistics	Yes
"show ip as-path-access-list [ ""<aspl-name>""   <aspl-cfg-name> ] "	Yes
show ip cache { { brief   detail }   { interface [ <intf> ] } } [ operational ]	No
show ip client [ <client-name> ]	Yes
show ip community-list [ <cl_name> ]	Yes
show ip debug	No
show ip dns source-interface [ vrf { <vrf-name>   <vrf-known-name> } ]	Yes
show ip dns source-interface vrf all	Yes
show ip extcommunity-list [ <extcl_name> ]	Yes
show ip fib adjacency [ <aif> ] [ <anh> ] [ module <module> ]	Yes
show ip fib distribution [ paуз   rezum ]	No
show ip fib distribution capture	Yes
show ip fib distribution clients	Yes
show ip fib distribution internal error counts	Yes
show ip fib distribution mroute [ { <group>   <gprefix> } [ <source> ] ] [ table <id> ]	Yes
show ip fib distribution multicast [ messages ]	Yes

Show Commands	XML Support
show ip fib distribution multicast outgoing-interface-list { L2   L3   OTV } [ <index> ]	Yes
show ip fib distribution state	Yes
show ip fib interfaces [ module <module> ]	Yes
show ip fib internal error counts [ module <module> ]	Yes
show ip fib mroute [ { <group>   <gprefix> } [ <source> ] ] [ table <table-id> ] [ module <module> ]	Yes
show ip fib mroute [ { <group>   <gprefix> } [ <source> ] ] [ table <table-id> ] [ module <module> ]	Yes
show ip fib mroute txlist [ module <module> ]	No
show ip fib route [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> }   table <table_id> ] [ summary   <prefix> [ longer-prefixes ]   <address>   interf	Yes
show ip fib route [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> }   table <table_id> ] [ summary   <prefix> [ longer-prefixes ]   <address>   interf	Yes
show ip fib route recovered	No
show ip ftm statistics	No
show ip ftp source-interface [ vrf { <vrf-name>   <vrf-known-name> } ]	Yes
show ip ftp source-interface vrf all	Yes
show ip http source-interface [ vrf { <vrf-name>   <vrf-known-name> } ]	Yes
show ip http source-interface vrf all	Yes
show ip igmp [ internal ] event-history { errors   msgs   <igmp-event-hist-buf-name>   statistics }	No
show ip igmp { groups   route } [ { <source> [ <group> ] }   { <group> [ <source> ] } ] [ <interface> ] [ summary ] [ vrf { <vrf-name>   <vrf-known-name> }	Yes
show ip igmp interface <interface> [ detail ]   show ip igmp interface [ brief ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip igmp interface <interface> [ detail ]   show ip igmp interface [ brief ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip igmp internal	No
show ip igmp internal { errors   iod-cache   pss-dump   flexlink-iod-cache }	No
show ip igmp internal { mrib-txlist [ vrf { <vrf-name>   <vrf-known-name>   all } ]   mrib-buffers }	No
show ip igmp internal { vpc   emulated-switch }	Yes

Show Commands	XML Support
show ip igmp internal library-info	No
show ip igmp internal mem-stats [ all ] [ no-libs ] [ detail ]	No
show ip igmp internal mrib-cache [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No
show ip igmp internal pim-cache [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No
show ip igmp local-groups [ <interface> ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip igmp policy statistics reports [ <interface> ]	No
show ip igmp snooping [ { vlan <vlan>   bridge-domain <bdid> } ]	Yes
show ip igmp snooping [ { vlan <vlan>   bridge-domain <bdid> } ]	Yes
show ip igmp snooping [ internal ] event-history { statistics   <igmp-snoop-event-hist-buf-name> }	No
show ip igmp snooping [ otv ] groups [ { <source> [ <group> ] }   { <group> [ <source> ] } ] [ vlan <vlan> ] [ detail ] [ summary ]	Yes
show ip igmp snooping { report-policy   access-group } statistics [ vlan <vlan> ]	No
show ip igmp snooping explicit-tracking [ vlan <vlan>   bridge-domain <bdid> ] [ ] [ detail ]	Yes
show ip igmp snooping internal { ha   mfdm   ribs   route-txlist   memory }	No
show ip igmp snooping internal proxy-querier	No
show ip igmp snooping lookup-mode [ vlan <vlan> ]	Yes
show ip igmp snooping mac-oif [ vlan <vlan> ] [ detail ]	Yes
show ip igmp snooping mrouter [ otv ] [ vlan <vlan>   bridge-domain <bdid> ] [ detail ]	Yes
show ip igmp snooping otv vlan brief	Yes
show ip igmp snooping pw vlan brief	Yes
show ip igmp snooping querier [ vlan <vlan>   bridge-domain <bdid> ] [ detail ]	Yes
show ip igmp snooping snmp mib adminMode	Yes
show ip igmp snooping snmp mib aliasingMode	Yes
show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus	Yes
show ip igmp snooping snmp mib explicitTrackingTable [ vlan <cisVlanIndex-in> ]	Yes
show ip igmp snooping snmp mib fallBackTime	Yes
show ip igmp snooping snmp mib fastBlockEnabled	Yes

Show Commands	XML Support
show ip igmp snooping snmp mib fastleaveenabled	Yes
show ip igmp snooping snmp mib filterStatsTable [ interface <ifIndex-in> vlan <cisFilterStatsVlanNumber-in> ]	Yes
show ip igmp snooping snmp mib ifAccessGroupTable [ interface <ifIndex-in> vlan <cisIfAccessGroupVlan-in> ]	Yes
show ip igmp snooping snmp mib ifConfigTable [ interface <ifIndex-in> ]	Yes
show ip igmp snooping snmp mib ifLimitTable [ interface <ifIndex-in> vlan <cisIfLimitVlanNumber-in> ]	Yes
show ip igmp snooping snmp mib ifLimitTotalTable [ interface <ifIndex-in> ]	Yes
show ip igmp snooping snmp mib igmpsnoopingenabled	Yes
show ip igmp snooping snmp mib iterfaceStatsTable [ interface <ifIndex-in> ]	Yes
show ip igmp snooping snmp mib lastMemeberQueryCount	Yes
show ip igmp snooping snmp mib lastMemeberQueryInterval	Yes
show ip igmp snooping snmp mib leaveQueryType	Yes
show ip igmp snooping snmp mib mcastGroupTable [ vlan <cisMcastGroupVlanIndex-in> <cisMcastGroupAddressType-in> <cisMcastGroupAddress-in> ]	Yes
show ip igmp snooping snmp mib mcastRouterCfgTable [ interface <ifIndex-in> vlan <cisMcastRouterVlanIndex-in> ]	Yes
show ip igmp snooping snmp mib mcastRouterConfigTable [ vlan <cisMcastRouterConfigVlanIndex-in> interface <ifIndex-in> ]	Yes
show ip igmp snooping snmp mib multicastGroupConfigTable [ vlan <cisMulticastGroupConfVlanIndex-in> <cisMulticastGroupConfCeVlanIndex-in> <cisMulticastGr	Yes
show ip igmp snooping snmp mib multicastGroupPortListTable [ vlan <cisMulticastGroupVlanIndex-in> <cisMulticastGroupCeVlanIndex-in> <cisMulticastGroupAdd	Yes
show ip igmp snooping snmp mib multicastGroupTable [ vlan <cisMulticastGroupVlanIndex-in> <cisMulticastGroupCeVlanIndex-in> <cisMulticastGroupAddressType	Yes
show ip igmp snooping snmp mib operMode	Yes
show ip igmp snooping snmp mib querierTable [ vlan <cisIgmPQuerierVlanIndex-in> ]	Yes
show ip igmp snooping snmp mib reportsuppressionenabled	Yes
show ip igmp snooping snmp mib robustnessVariable	Yes

Show Commands	XML Support
show ip igmp snooping snmp mib routerAlertCheckEnabled	Yes
show ip igmp snooping snmp mib sourceOnlyEntryAgingTime	Yes
show ip igmp snooping snmp mib sourceOnlyLearningEnabled	Yes
show ip igmp snooping snmp mib tcxFloodQueryCount	Yes
show ip igmp snooping snmp mib timeToLiveCheckEnabled	Yes
show ip igmp snooping snmp mib topoChangeQuerySolicitEnabled	Yes
show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus	Yes
show ip igmp snooping snmp mib v3SnoopingSupport	Yes
show ip igmp snooping snmp mib vlanconfigtable [ vlan <cisVlanIndex-in> ]	Yes
show ip igmp snooping snmp mib vlanFilterConfigTable [ vlan <cisVlanIndex-in> ]	Yes
show ip igmp snooping statistics [ global   vlan <vlan>   bridge-domain <bdid> ]	Yes
show ip igmp vrf all	Yes
show ip interface { { { brief [ include-secondary ] }   [ <interface> ]   [ <ip-addr> ] } [ operational ] [ vaddr ] [ vrf { <vrf-name>   <vrf-known-name> }	Yes
show ip internal [ api ] context array	No
show ip internal { { mem-stats [ shared   all ] [ no-libs ] [ detail ] }   boot-info }	No
show ip internal { ppf   { { acl   pbr } { status [ detail ]   interface <interface> [ { ingress   egress } ] } } }	No
show ip internal bfd data [ { vrf { <vrf-name>   <vrf-known-name>   all }   interface <interface> } ]	No
show ip internal event-history { errors   msgs   ipc   ha   log   ppf   cli   vrf-errors   arp-miss   snmp   static-rt   lcache-err   lcache-trace   pkt-b	No
show ip internal event-history bfd	No
show ip internal event-history buffer-size { errors   log   ipc   snmp   ha   ppf   cli   vrf-errors   arp-miss   static-rt   pkt-buffer   all }	No
show ip internal hmm	No
show ip internal igmp-snoop-stats	No
show ip internal info [ unnumbered   directed-broadcast ]	No
show ip internal info interface [ iod <if_iod>   <interface>   all ]	No
show ip lisp data-cache [ <eid> ] [ vrf { <vrf-name>   <vrf-known-name> } ]	No



Show Commands	XML Support
show ip load-sharing	Yes
show ip local-pt [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No
show ip logging [ hash ]	Yes
show ip mroute [ [ bitfield ] [ detail ]   rp   { [ <group> ] summary [ software-forwarded   rpf-failed ] }   { summary [ count   software-forwarded   rp	Yes
show ip multicast vrf [ <vrf-name>   <vrf-known-name>   all ]	Yes
show ip ospf [ <inst> ] policy statistics { { redistribute { { bgp   eigrp } <as>   { isis   ospf   rip } <tag>   static   direct   amt } }   { area <are	Yes
show ip ospf [ <tag> ] [ internal ] event-history { errors   msgs   statistics   adjacency   event   ha   flooding   lsa   spf   redistribution   ldp	No
show ip ospf [ <tag> ] [ internal ] event-history detail [ statistics ]	No
show ip ospf [ <tag> ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] border-routers [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] database [ [ [ network   asbr-summary   summary   router   opaque-link   opaque-area   nssa-external ] [ area <area-id-ip> ] ]	Yes
show ip ospf [ <tag> ] database [ [ [ network   asbr-summary   summary   router   opaque-link   opaque-area   nssa-external ] [ area <area-id-ip> ] ]   e	Yes
show ip ospf [ <tag> ] database database-summary [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] ha [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] interface [ <interface>   vrf { <vrf-name>   <vrf-known-name>   all } ] [ private ]	Yes
show ip ospf [ <tag> ] interface brief [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] internal [ errors ] [ area <area-id-ip> ] [ asbrs ] [ externals ] [ flood-indices ] [ if-number-tree ] [ max-metric ] [ as-extern	No
show ip ospf [ <tag> ] internal ha [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No
show ip ospf [ <tag> ] internal library-info	No
show ip ospf [ <tag> ] internal mem-stats [ no-libs ] [ detail ]	No
show ip ospf [ <tag> ] internal missed-traps-statistics	No
show ip ospf [ <tag> ] lsa-content-changed-list { <ip-addr>   <neighbor-name> } <interface>	Yes
show ip ospf [ <tag> ] memory	Yes

Show Commands	XML Support
show ip ospf [ <tag> ] mpls ldp interface [ <interface>   vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] neighbors [ { { <interface> [ <neighbor>   <neighbor-name> } }   { [ <neighbor>   <neighbor-name> ] [ vrf { <vrf-name>   <vrf-known-name> } ] } ]	Yes
show ip ospf [ <tag> ] neighbors [ <interface> ] [ <neighbor>   <neighbor-name> ] detail [ vrf { <vrf-name>   <vrf-known-name>   all } ] [ private ]	Yes
show ip ospf [ <tag> ] neighbors [ <interface> ] summary [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] request-list { <ip-addr>   <neighbor-name> } <interface>	Yes
show ip ospf [ <tag> ] retransmission-list { <routerid>   <router-name> } <interface>	Yes
show ip ospf [ <tag> ] route [ <ip-addr>   <ip-prefix> [ longer-prefixes ] ] [ all_routes ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] route [ <ip-prefix> [ longer-prefixes ] ] summary [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] sham-links [ brief ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] statistics [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] summary-address [ private ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] traffic [ <interface> [ detail ]   [ detail ]   [ detail ] vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] traps-queue	No
show ip ospf [ <tag> ] virtual-links [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip ospf [ <tag> ] virtual-links brief [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip overlay-traffic	No
show ip pim [ internal ] event-history { errors   msgs   <pim-event-hist-buf-name>   statistics }	No
show ip pim bitfield	No
show ip pim config-sanity	No
show ip pim df [ <rp-or-group> ] [ vrf { <vrf-name>   <vrf-known-name>   all } ] [ internal ]	Yes
show ip pim fabric info	No
show ip pim fabric legacy-vlans	No

Show Commands	XML Support
show ip pim group-range [ <group> ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip pim interface <interface>   show ip pim interface [ brief ] [ internal ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip pim interface <interface>   show ip pim interface [ brief ] [ internal ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip pim internal	No
show ip pim internal { { vpc [ rpf-source [ vrf { <vrf-name>   <vrf-known-name>   all } ] ] }   emulated-switch }	Yes
show ip pim internal { library-info   iod-cache }	No
show ip pim internal errors	No
show ip pim internal interface-txlist vrf [ <vrf-known-name>   all ]	No
show ip pim internal mem-stats [ shared   all ] [ no-libs ] [ detail ]	No
show ip pim internal pss-dump [ df-states   interfaces   rp   auto-rp   bsr ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No
show ip pim lisp encap	No
show ip pim mdt [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip pim mdt bgp [ mdt-source <src-addr> ]	No
show ip pim mdt history interval <min> [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip pim mdt receive [ detail ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip pim mdt send [ detail ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip pim neighbor { [ <interface> ]   [ <ipaddr> ] } [ detail   internal ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip pim oif-list <group> [ <source> ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip pim policy statistics { jp-policy   neighbor-policy } <interface>	No
show ip pim policy statistics { register-policy   bsr { bsr-policy   rp-candidate-policy }   auto-rp { rp-candidate-policy   mapping-agent-policy } } [ v	No
show ip pim route { [ bitfield ]   <source> <group>   <group> [ <source> ] [ bitfield ] } [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip pim route internal [ <source> <group>   <group> [ <source> ] ] { [ detail ] } [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No
show ip pim rp [ <group> ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes

Show Commands	XML Support
show ip pim rp-hash <group> [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip pim statistics [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip pim vrf [ { <vrf-name>   <vrf-known-name>   all } ] [ detail   internal ]	Yes
show ip ping source-interface [ vrf { <vrf-name>   <vrf-known-name> } ]	Yes
show ip ping source-interface [ vrf { <vrf-name>   <vrf-known-name> } ]	Yes
show ip ping source-interface vrf all	Yes
"show ip prefix-list { { [ detail   summary ] [ ""<ipv4-pfl-name>""   <ipv4-pfl-cfg-name> ] }   { { <ipv4-pfl-name>   <ipv4-pfl-cfg-name> } seq <seq-no> }   "	Yes
show ip process [ api ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip rip [ instance <inst> ] policy statistics redistribute { bgp <as>   { eigrp   isis   <src-rip>   ospf } <tag>   direct   static } [ vrf { <vrf-na	No
show ip router-id [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No
show ip ssh source-interface [ vrf { <vrf-name>   <vrf-known-name> } ]	Yes
show ip ssh source-interface vrf all	Yes
show ip static-route [ multicast ] [ internal ] [ track-table ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ip stats	No
show ip telnet source-interface [ vrf { <vrf-name>   <vrf-known-name> } ]	Yes
show ip telnet source-interface vrf all	Yes
show ip tftp source-interface [ vrf { <vrf-name>   <vrf-known-name> } ]	Yes
show ip tftp source-interface vrf all	Yes
show ip traceroute source-interface [ vrf { <vrf-name>   <vrf-known-name> } ]	Yes
show ip traceroute source-interface vrf all	Yes
show ip traceroute source-interface vrf all	Yes
show ip traffic [ vrf { <vrf-name>   <vrf-known-name> } ]	Yes
show ip txlist { list   member }	No
show ipv6 [ icmp ] mld groups [ { <source> [ <group> ] }   { <group> [ <source> ] } ] [ <interface> ] [ vrf { <vrf-name>   <vrf-known-name>   all } ] [	Yes
show ipv6 [ icmp ] mld internal { m6rib-txlist [ vrf { <vrf-name>   <vrf-known-name>   all } ]   m6rib-buffers }	No

Show Commands	XML Support
show ipv6 [ icmp ] mld internal errors	No
show ipv6 [ icmp ] mld local-groups [ <interface> ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ipv6 [ icmp ] mld route internal [ static ] [ vrf { <vrf-name>   <vrf-known-name> } ]	No
show ipv6 [ icmp ] mld vrf all	No
show ipv6 { adjacency   neighbor } [ <interface> [ summary ]   <ipv6-addr> [ detail ]   detail   summary   non-best   [ throttle ] statistics ] [ vrf { <vrf-name>   <vrf-known-name> } ]	Yes
show ipv6 { bgp   mbgp } [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] [ <ipv6-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name>   <vrf-known-name> } ]	No
show ipv6 { bgp   mbgp } [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] { rib-install   rib-uninstall   rib-pending } [ vrf { <vrf-name>   <vrf-known-name> } ]	No
show ipv6 { bgp   mbgp } [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] community { <regex-str>   { <comm-id>   <wellknown-id> } }	No
show ipv6 { bgp   mbgp } [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] dampening { dampened-paths [ regex <regex-str> ]   histor	No
show ipv6 { bgp   mbgp } [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] extcommunity { <regex-str>   { { 4byteas-generic { transit	No
show ipv6 { bgp   mbgp } [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] flap-statistics [ <ipv6-prefix> ] [ vrf { <vrf-name>   <vrf-known-name> } ]	No
show ipv6 { bgp   mbgp } [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] neighbors { [ { <neighbor-id>   <ipv6-neighbor-id> } ]   rout	No
show ipv6 { bgp   mbgp } [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] nexthop-database [ vrf { <vrf-name>   <vrf-known-name>   AL	No
show ipv6 { bgp   mbgp } [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] received-paths [ private ] [ vrf { <vrf-name>   <vrf-known-name> } ]	No
show ipv6 { bgp   mbgp } [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] regex <regex-str> [ vrf { <vrf-name>   <vrf-known-name> } ]	No
show ipv6 { bgp   mbgp } [ vrf { <vrf-name>   <vrf-known-name>   ALL_VRFS_012345678901234 } ] summary [ vrf { <vrf-name>   <vrf-known-name> }   ALL_VRFS_01	No

Show Commands	XML Support
show ipv6 { bgp   mbgp } { route-map { <rmap-name>   <rmap-name> }   prefix-list { <prfxlist-name>   <test_pol_name> }   filter-list { <fltrlist-name>	No
show ipv6 { bgp   mbgp } nexthop <ipv6nexthop>	No
show ipv6 { icmp   nd } global traffic	Yes
show ipv6 cache { { brief   detail }   { interface [ <intf> ] } } [ operational ]	No
show ipv6 client [ <client-name> ]	Yes
show ipv6 fragments [ <source-addr> ]	Yes
show ipv6 icmp { adjacency   neighbor   sync-entries } [ <interface> ] [ detail ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ipv6 icmp internal event-history { errors   msgs   icmpv6-internal   nd   vip-nd   mld { debugs   events }   ha   sync-event   ipv6-sync-event	No
show ipv6 icmp internal event-history buffer-size { errors   icmpv6-internal   nd   mld { debugs   events }   ha   sync-event   ipv6-sync-event   vrf	No
show ipv6 icmp internal hmm statistics [ detail ]	No
show ipv6 icmp ndp	No
show ipv6 icmp off-list [ vlan <vlan-id> ]	Yes
show ipv6 icmp process sdb	No
show ipv6 icmp vaddr { link-local [ detail ]   global   pt-tree } [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ipv6 icmp vpc-statistics	Yes
show ipv6 interface { [ brief [ include-secondary ] ] [ <interface>   <ipv6-addr> ] [ detail ] } [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ipv6 interface global	No
show ipv6 internal [ api ] context array	No
show ipv6 internal { info   fastboot-cache }	No
show ipv6 internal { mem-stats [ shared   all ] [ no-libs ] [ detail ] }	No
show ipv6 internal bfd data [ { vrf { <vrf-name>   <vrf-known-name>   all }   interface <interface> } ]	No
show ipv6 internal event-history { errors   msgs   ipc   ha   log   sdb   snmp   bfd   objstr }	No
show ipv6 internal event-history buffer-size { errors   log   ipc   snmp   ha   sdb   bfd   all }	No

Show Commands	XML Support
show ipv6 internal netstack { m6rib-txlist [ vrf { <vrf-name>   <vrf-known-name> } ]   m6rib-buffers }	No
show ipv6 internal netstack mroute [ vrf { <vrf-name>   <vrf-known-name> } ]	No
show ipv6 lisp data-cache [ <eid> ] [ vrf { <vrf-name>   <vrf-known-name> } ]	No
show ipv6 local-pt [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No
show ipv6 mroute [ [ bitfield ]   rp   { [ <group> ] summary [ software-forwarded ] }   { summary [ count   software-forwarded ] }   { <source> <group>	Yes
show ipv6 mtu [ statistics   vrf { <vrf-name>   <vrf-known-name>   all [ detail ] } ]	Yes
show ipv6 multicast vrf [ { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ipv6 nd ra dns search-list [ interface <interface> ]	Yes
show ipv6 nd ra dns server [ interface <interface> ]	Yes
show ipv6 nd rt-pref global pt	No
show ipv6 ndp	No
show ipv6 neighbor static [ interface <interface> ]	Yes
"show ipv6 prefix-list { { [ detail   summary ] [ ""<ipv6-pfl-name>""   <ipv6-pfl-cfg-name> ] }   { <ipv6-pfl-name>   <ipv6-pfl-cfg-name> } seq <seq-no> } "	Yes
show ipv6 process [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ipv6 process sdb	No
show ipv6 rip [ instance <inst> ] policy statistics redistribute { bgp <as>   { eigrp   isis   <src-rip>   ospfv3   lisp } <tag>   direct   static } [ vr	No
show ipv6 routers [ all-routers ] [ [ interface <interface> ]   [ vrf { <vrf-name>   <vrf-known-name>   all } ] ]	Yes
show ipv6 static-route [ <prefix> ] [ multicast ] [ track-table ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show ipv6 statistics	No
show ipv6 traffic [ detail ] [ vrf { <vrf-name>   <vrf-known-name> } ]	Yes
show keystore	Yes
show kim inconsistency	No
show kim internal event-history cli	No
show kim internal event-history errors	No

Show Commands	XML Support
show kim internal event-history events	No
show kim internal event-history intf	No
show kim internal event-history msgs	No
show kim internal event-history mts	No
show kim internal event-history packets	No
show kim internal event-history pss	No
show kim internal event-history vrf	No
show kim internal info [ lpss   namespace ]	No
show kim internal mem-stats [ detail ]	No
show l2fwder l2rib info	No
show l2fwder rmac <mac-address>	No
show l2fwder statistics	No
show l2protocol tunnel [ { interface <intf-range> }   { vlan <vlan-id> } ] [ summary ]	Yes
show l2rib clients [ <client_id> ]	Yes
show l2rib internal client-stats [ <client_id> ]	No
show l2rib internal mem-stats [ detail ]	No
show l2rib internal pss <rt-enum>	No
show l2rib internal state	No
show l2rib internal stats	No
show l2rib internal txlist { all   topo   mac-local-static   mac-bgp   mac-vxlan   mac-best-route   mac-ip-bgp   mac-ip-best-route   imet-vxlan-fl   to	No
show l2rib internal unfreeze-list	No
show l2rib producers [ { topology   mac   mac-ip   ead   pl   imet   flood-list   startup-route   peerid } [ static   local   bgp   vxlan   hmm   arp	Yes
show l2rib registrations [ client <client_id> [ <topo_id> { mac   mac-ip   ead   pl   imet   flood-list   arp-signal   startup-route   topo } ] ]	Yes
show l2route { mac   openflow mac   dataplane mac [ local   remote ] } { topology <topo-id>   all } [ detail ]	Yes
show l2route { mac-ip   openflow mac-ip } { topology <topo-id>   all } [ detail ]	Yes



Show Commands	XML Support
show l2route evpn fl all [ detail ]	Yes
show l2route evpn fl evi <vpn-id> [ detail ]	Yes
show l2route evpn imet all [ detail ]	Yes
show l2route evpn imet evi <vpn-id> [ bgp   vxlan ] [ detail ]	Yes
show l2route evpn mac all [ detail ]	Yes
show l2route evpn mac evi <vpn-id> [ static   local   bgp   vxlan ] [ mac <mac_addr> ] [ next-hop { <ipv4_addr>   <ipv6_addr>   <if-hdl> } ] [ detail ]	Yes
show l2route evpn mac-ip all [ detail ]	Yes
show l2route evpn mac-ip evi <vpn-id> [ arp   bgp   hmm ] [ mac <mac_addr> ] [ host-ip { <ipv4_host>   <ipv6_host> } ] [ next-hop { <ipv4_addr>   <ipv6_	Yes
show l2route evpn startup-route all [ detail ]	Yes
show l2route evpn startup-route evi <vpn-id> [ detail ]	Yes
show l2route fl { topology <topo-id>   all } [ detail ]	Yes
show l2route peerid	Yes
show l2route summary	No
show l2route topology [ <topo_id> ] [ detail ]	Yes
show license	Yes
show license brief	Yes
show license file <license-file>	Yes
show license host-id	Yes
show license reserved	No
show license usage [ { detail   <license-feature> } ]	Yes
show line	Yes
show line console	Yes
show line console connected	Yes
show line console user-input-string	Yes
show lisp internal info	No
show lisp stats-cache [ vrf { <vrf-name>   <vrf-known-name> } ]	No
show locator-led status	Yes

Show Commands	XML Support
show logging	No
show logging console	No
show logging info	Yes
show logging internal info	No
show logging ip access-list cache [ detail ]	Yes
show logging ip access-list internal [ event-history ] errors	No
show logging ip access-list internal [ event-history ] msgs	No
show logging ip access-list internal info [ { global } ]	No
show logging ip access-list internal mem-stats [ detail ]	No
show logging ip access-list status	Yes
show logging last <i0>	No
"show logging level ""tacacs"" "	No
show logging level [ { auth   authpriv   cron   daemon   ftp   kernel   local0   local1   local2   local3   local4   local5   local6   local7   lpr   m	No
show logging level { keystore   sksd }	No
show logging level { license   licmgr }	No
show logging level aaa	No
show logging level aclog	No
show logging level aclmgr	No
show logging level adbm	No
show logging level adjmgr	No
show logging level arp	No
show logging level ascii-cfg	No
show logging level bfd	No
show logging level bgp	No
show logging level bloggerd	No
show logging level bootvar	No
show logging level callhome	No

<b>Show Commands</b>	<b>XML Support</b>
show logging level capability	No
show logging level cdp	No
show logging level cert_enroll	No
show logging level cert-enroll	No
show logging level cfs	No
show logging level clis	No
show logging level clk_mgr	No
show logging level confcheck	No
show logging level copp	No
show logging level core	No
show logging level diagnostic device_test	No
show logging level diagnostic diagclient	No
show logging level diagnostic diagmgr	No
show logging level eltm	No
show logging level ethdstats	No
show logging level ethpm	No
show logging level evmc	No
show logging level evms	No
show logging level fabric forwarding	No
show logging level feature-mgr	No
show logging level fs-daemon	No
show logging level gpixm	No
show logging level im	No
show logging level ip igmp	No
show logging level ip pim	No
show logging level ipconf [ ipv6 ]	No
show logging level ipfib	No
show logging level ipqos	No

Show Commands	XML Support
show logging level ipv6 icmp	No
show logging level l2fm	No
show logging level l2pt	No
show logging level l3vm	No
show logging level lim	No
show logging level m2rib	No
show logging level mfdm	No
show logging level mfwd	No
show logging level mmode	No
show logging level module	No
show logging level monitor	No
show logging level mvsh	No
show logging level netstack	No
show logging level ntp	No
show logging level nve	No
show logging level ospf	No
show logging level pfstat	No
show logging level pixm	No
show logging level pktmgr	No
show logging level platform	No
show logging level plcmgr	No
show logging level pltfm_config	No
show logging level plugin	No
show logging level port-channel	No
show logging level port-profile	No
show logging level radius	No
show logging level res_mgr	No
show logging level rip	No

Show Commands	XML Support
show logging level routing [ ip   ipv4 ] multicast	No
show logging level routing ipv6 multicast	No
show logging level rpm	No
show logging level sal	No
show logging level security	No
show logging level session-mgr	No
show logging level smm	No
show logging level snmpd	No
show logging level snmpmib_proc	No
show logging level spanning-tree	No
show logging level spm	No
show logging level stripcl	No
show logging level sysmgr	No
show logging level track	No
show logging level u6rib	No
show logging level ufdm	No
show logging level urib	No
show logging level vdc_mgr	No
show logging level virtual-service	No
show logging level vlan_mgr	No
show logging level vmm	No
show logging level vshd	No
show logging level vtp	No
show logging level xbar	No
show logging logfile	No
show logging logfile duration <s1>	No
show logging logfile last-index	No
show logging logfile start-seqn <i0> [ end-seqn <i1> ]	No

Show Commands	XML Support
show logging logfile start-time <i0> <s0> <i1> <s1> [ end-time <i2> <s2> <i3> <s3> ]	No
show logging loopback	No
show logging module	No
show logging monitor	No
show logging nvram [ [ { last <i0> } ] [ ] ]	Yes
show logging onboard [ card-first-power-on   card-boot-history   <common_options>   endtime <s0> [ { <common_options>   error-stats [ port <i0> ]	No
show logging onboard { counter-stats   endtime <s0> [ { counter-stats   internal { <dc3_options> } } ]   internal { <dc3_options> }   module <mod	No
show logging origin-id	No
show logging pending	No
show logging pending-diff	No
show logging server	Yes
show logging session status	No
show logging source-interface	No
show logging status	No
show logging timestamp	No
show login	Yes
show login failures	Yes
show login on-failure log	No
show login on-successful log	No
show mac address-table [ static   dynamic   secure ] [ local ] [ { [ address1 <mac-addr>   { switch-id <swid> [ sub-switch-id <sswid> } ] }   vlan1 <id> ]	Yes
show mac address-table <module> [ count ] [ static   dynamic   secure ] [ { [ address1 <mac-addr>   { switch-id <swid> [ sub-switch-id <sswid> ] } ] }   vlan	Yes
show mac address-table aging-time	Yes
show mac address-table count [ static   dynamic ] [ local ] [ { [ interface <interface-name>   { switch-id <swid> [ sub-switch-id <sswid> } ] }   vlan <id>	Yes
show mac address-table learning-mode [ vlan <id> ]	Yes
show mac address-table loop-detect	No

Show Commands	XML Support
show mac address-table multicast [ vlan <vlan> ]	Yes
show mac address-table notification mac-move	Yes
show mac vdc <vdc_id>	Yes
show mac-list { [ <mac_list_name> [ { seq <seq_no>   { <mac_addr> [ <mac_mask> } ] } ] }	Yes
show maintenance on-reload reset-reasons	Yes
show maintenance profile [ <mode> ]	Yes
show maintenance snapshot-delay	Yes
show maintenance timeout	Yes
show mcectest <arg>	Yes
show mcectest internal event-history errors	No
show mcectest internal event-history msgs	No
show mcectest internal mem-stats [ detail ]	No
show mcectest mcec interface <if> [ use-cache ] [ vdc-id ] [ _readonly_ <mcec_mode> ]	No
show mgmt-policy { <policy-name>   all }	Yes
show module [ { <module> }   { <s0> [ <santa-cruz-range> ] }   { fabric [ <module> ] } ]	Yes
show module <module> bandwidth-fairness	Yes
show module internal [ event-history ] errors	No
show module internal [ event-history ] msgs	No
show module internal activity { module1 <module>   <s0> <santa-cruz-range> }	No
show module internal all [ { module1 <module>   <s0> <santa-cruz-range> } ]	No
show module internal event-history <s0> <santa-cruz-range>	No
show module internal event-history module1 <module>	No
show module internal event-history stats	No
show module internal exceptionlog	No
show module internal exceptionlog internal1 event-history all	No
show module internal exceptionlog internal1 event-history errors	No
show module internal exceptionlog internal1 event-history msgs	No

Show Commands	XML Support
show module internal exceptionlog module1 <module>	No
show module internal info [ module1 <module> ]	No
show module internal lock	No
show module internal mem-stats [ detail ]	No
show module internal sequence lc	No
show module internal sequence sup	No
show module internal sw info [ module1 <module> ]	No
show module supported	No
show module uptime	Yes
show monitor	Yes
show monitor internal [ event-history ] errors	No
show monitor internal [ event-history ] lock	No
show monitor internal [ event-history ] logs	No
show monitor internal event-history { session <session_number> }	No
show monitor internal event-history debug	No
show monitor internal event-history global	No
show monitor internal event-history msg	No
show monitor internal info { global-info   stats   clear-stats }	No
show monitor internal info { interface <interface>   session { <session_number>   all }   vlan <vlan_id>   fex   fpc }	No
show monitor internal mem-stats [ detail ]	No
show monitor session { all   <session_number>   range <session_range> } [ brief ]	Yes
show mpls forwarding statistics [ interface { <interface>   all } ]	Yes
show mpls strip internal [ info ] [ { global   labels   ports } [ <val> ] ]	No
show mpls strip labels [ all   static   dynamic   <label_val> ]	Yes
show mvpn bgp { mdt-safi   auto-discovery } [ mdt-source <src-addr> ]	Yes
show mvpn internal { mrrib-txlist   mrrib-buffers }	No
show mvpn internal ha [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No



Show Commands	XML Support
show mvpn internal state	No
show mvpn mdt encap [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes
show mvpn mdt route [ detail ]	Yes
show mvpn snmp mib genericTable [ <mplsVpnVrfName-in> ]	Yes
show mvpn snmp mib mvpnBgpMdtUpdateTable [ <ciscoMvpnBgpMdtUpdGrpAddrType-in> <ciscoMvpnBgpMdtUpdateGroup-in> <ciscoMvpnBgpMdtUpdSrcAddrType-in> <ciscoMvp	Yes
show mvpn snmp mib mvpnMdtDataTable [ <mplsVpnVrfName-in> ]	Yes
show mvpn snmp mib mvpnMdtDefaultTable [ <mplsVpnVrfName-in> ]	Yes
show mvpn snmp mib mvpnMdtJnRcvTable [ <mplsVpnVrfName-in> <ciscoMvpnMdtJnRcvGrpAddrType-in> <ciscoMvpnMdtJnRcvGroup-in> <ciscoMvpnMdtJnRcvSrcAddrType-in>	Yes
show mvpn snmp mib mvpnMdtJnSendTable [ <mplsVpnVrfName-in> <ciscoMvpnMdtJnSendGrpAddrType-in> <ciscoMvpnMdtJnSendGroup-in> <ciscoMvpnMdtJnSendSrcAddrType	Yes
show mvpn snmp mib mvpnMrouteMdtTable [ <mplsVpnVrfName-in> <ciscoMvpnMrouteMvrfGrpAddrType-in> <ciscoMvpnMrouteMvrfGroup-in> <ciscoMvpnMrouteMvrfSrcAddrT	Yes
show mvpn snmp mib mvpnMvrfNumber	Yes
show mvpn snmp mib mvpnNotificationEnable	Yes
show mvpn snmp mib mvpnTunnelTable [ <ifIndex-in> ]	Yes
show nbproxy internal event-history cli	No
show nbproxy internal event-history errors	No
show nbproxy internal event-history events	No
show nbproxy internal event-history intf	No
show nbproxy internal event-history msgs	No
show nbproxy internal event-history mts	No
show nbproxy internal event-history packets	No
show nbproxy internal event-history pss	No
show nbproxy internal event-history vrf	No
show nbproxy internal info	No
show ntp access-groups	Yes

Show Commands	XML Support
show ntp authentication-keys	Yes
show ntp authentication-status	Yes
show ntp information	Yes
show ntp internal event-history config	No
show ntp internal event-history fsm	No
show ntp internal event-history msgs	No
show ntp internal event-history rts	No
show ntp internal event-history tstamp	No
show ntp internal log-buffer	No
show ntp internal mem-stats	No
show ntp internal mem-stats detail	No
show ntp internal module-info	No
show ntp logging-status	Yes
show ntp peer-status	Yes
show ntp peers	Yes
show ntp rts-update	Yes
show ntp session status	Yes
show ntp source	Yes
show ntp source-interface	Yes
show ntp statistics { [ io ]   [ local ]   [ memory ]   peer { ipaddr { <ipv4_0>   <ipv6_1> }   name <s0> } }	Yes
show ntp status	Yes
show ntp trusted-keys	Yes
show nve bfd neighbors	Yes
show nve interface [ <nve-if> [ detail ] ]	Yes
show nve internal bfd neighbors interface <nve-if>	No
show nve internal bgp rnh database [ vni <vni-id> ]	No
show nve internal event-history cli	No

Show Commands	XML Support
show nve internal event-history errors	No
show nve internal event-history events	No
show nve internal event-history msgs	No
show nve internal event-history mts	No
show nve internal event-history packets	No
show nve internal event-history platform errors	No
show nve internal event-history platform traces	No
show nve internal event-history platform triggers	No
show nve internal event-history pss	No
show nve internal event-history triggers	No
show nve internal event-history xos-events	No
show nve internal export bgp rnh	No
show nve internal export controller peers	No
show nve internal export global	No
show nve internal export nve	No
show nve internal export peer	No
show nve internal export peer-vni	No
show nve internal export redundancy-group	No
show nve internal export vni [ <vni-id> ]	No
show nve internal libinfo	No
show nve internal mem-stats [ detail ]	No
show nve internal mrib-history [ group <group-addr>   clear ]	No
show nve internal multicast-group	No
show nve internal peer-history [ peer <peer-addr>   clear ]	No
show nve internal peer-notify-history [ clear ]	No
show nve internal peers [ peer-ip <addr> ] history-log	No
show nve internal pim-cache [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No
show nve internal platform globals	No

Show Commands	XML Support
show nve internal platform interface [ <nve-if> [ { vni [ <vni-id> ] }   { peer [ <peerip> ] } ] ] [ detail ]	No
show nve internal platform statistics [ clear ]	No
show nve internal platform txn_buf { sw_bd   peer_id   peer_adj }	No
show nve internal port-history [ clear ]	No
show nve internal pss redundancy-group	No
show nve internal pss replication-servers	No
show nve internal snmp cnvoNvoPerPeerStatsTable nve <nve_in> paddr_type <paddr_type_in> paddr <paddr_in>	Yes
show nve internal snmp cnvoNvoTable nve <nve_in>	Yes
show nve internal snmp cnvoPeerTable nve <nve_in> paddr_type <paddr_type_in> paddr <paddr_in>	Yes
show nve internal snmp cnvoVNetStatsTable nve <nve_in> vni <vni_in>	Yes
show nve internal snmp cnvoVNetTable nve <nve_in> vni <vni_in>	Yes
show nve internal snmp global cnvoUdpDestinationPort	Yes
show nve internal source-group	No
show nve internal state	No
show nve internal statistics { mts   interface <nve-if>   vni <vni-id>   peer <addr> } [ clear ]	No
show nve internal txlist { source-group }	No
show nve internal vni { <vni-id>   all }	No
show nve internal vni-history [ vni <vni>   clear ]	No
show nve peers [ [ interface <nve-if>   peer-ip <user-peer-ip>   control-plane   data-plane ] [ detail ] ]   [ control-plane-vni [ vni <vni-id>   peer-i	Yes
show nve peers { <addr>   all } vni { <vni-id>   all } interface <nve-if>counters	Yes
show nve peers <addr> interface <nve-if>counters	Yes
show nve replication-servers	Yes
show nve vni [ { { interface <nve-if>   <vni-id> } [ detail ] }   control-plane   data-plane   summary   controller ]	Yes
show nve vni <vni-id> counters	Yes
show nve vni ingress-replication [ { interface <nve-if>   <vni-id> } ]	Yes

Show Commands	XML Support
show nve vni peer-vtep [ { interface <nve-if>   <vni-id> } ]	Yes
show nve vrf [ vrf-name ]	Yes
show nve vxlan-params	Yes
show nxapi	Yes
show nxapi internal buffer	No
show nxapi retries	No
show object-group [ <name> ]	Yes
show param-list [ param-list-name <plistname> ] [ show-instance ]	Yes
show password secure-mode	Yes
show password strength-check	Yes
show pmap-int { interface [ <iface-list> ] [ input   output ] [ type <qos-or-q> ]   vlan [ <vlan-list> ] [ inputx   outputx ] [ type qos ] }	Yes
show pmap-int-br interface br	Yes
show policy-map [ { [ type qos ] [ <pmap-name-qos> ] }   { type queuing [ <pmap-name-que> ] } ]	Yes
show policy-map interface { [ <ifnum> ] } type psp { [ <pmap-name> [ client <clienttype> <clientID> ] ]   [ handle <ppf_id> ] } { [ class-map-list { [	Yes
show policy-map interface control-plane { [ module <slot-no-in> [ class <cmap-name> ] ]   [ class <cmap-name> [ module <slot-no-in> ] ] }	Yes
show policy-map system [ type { network-qos   qos [ input2 ]   queuing [ input   output ] } ]	Yes
show policy-map type control-plane [ expand ] [ { name <pmap-name> } ]	Yes
show policy-map type network-qos [ <pmap-name-nq> ]	Yes
show policy-map type psp { [ <pmap-name> [ client <clienttype> <clientID> ] [ cfg-mode <cfgmode> ] ]   [ handle <ppf_id> ] }	Yes
show port-channel capacity	Yes
show port-channel compatibility-parameters	Yes
show port-channel database [ interface <if0> ]	Yes
show port-channel internal event-history all	No
show port-channel internal event-history debugs	No
show port-channel internal event-history errors	No

Show Commands	XML Support
show port-channel internal event-history interface <if0>	No
show port-channel internal event-history interface <if0>	No
show port-channel internal event-history lock	No
show port-channel internal event-history msgs	No
show port-channel internal info all	No
show port-channel internal info compat-check-log	No
show port-channel internal info interface <if0>	No
show port-channel internal info interface <if0>	No
show port-channel internal lacp-channels [ interface <if0> ]	Yes
show port-channel internal max-channels	Yes
show port-channel internal mem-stats [ detail ]	No
show port-channel internal member-mode [ interface <if0> ]	Yes
show port-channel internal sdb	No
show port-channel load-balance { [ module <module> ]   { fex { all } } }	Yes
show port-channel load-balance forwarding-path { interface <ch-id>   hgig } { src-interface <src-if>   vlan <vlan-id>   src-mac <src-mac>   d	Yes
show port-channel load-balance forwarding-path1 interface <ch-id> src-interface <src-if> { vlan <vlan-id>   src-mac <src-mac>   dst-mac <dst-	Yes
show port-channel load-balance hardware forwarding-path { interface <ch-id>   hgig } { source-interface <if-id> } { vlan <vlan-id>   src-mac	Yes
show port-channel load-balance internal algorithm	No
show port-channel rbh-distribution [ interface <if0> ]	Yes
show port-channel summary [ interface <if0>   controller ]	Yes
show port-channel traffic [ interface <if0> ]	Yes
show port-channel usage	Yes
show port-profile [ name <all_profile_name> ]	Yes
show port-profile brief	Yes
show port-profile expand-interface [ name <all_profile_name> ]	Yes
show port-profile sync-status [ interface <intfname> ]	Yes

Show Commands	XML Support
show port-profile usage [ name <all_profile_name> ]	Yes
show privilege	No
show processes	Yes
show processes { version   threads } [ <comp-string> ]	Yes
show processes cpu [ sort ]	Yes
show processes cpu history	No
show processes cpu module <i0>	Yes
show processes log	Yes
show processes log details	Yes
show processes log pid <i0>	Yes
show processes log vdc-all	Yes
show processes memory	Yes
show processes memory clis [ shared   private ]	No
show processes memory shared [ detail   dynamic ]	Yes
show processes vdc <e-vdc2>	No
show processes vdc <e-vdc2> cpu	No
show processes vdc <e-vdc2> log	No
show processes vdc <e-vdc2> log details	No
show processes vdc <e-vdc2> log pid <i1>	No
show processes vdc <e-vdc2> memory	Yes
show pss debug	No
show qos dcbxp incompatibility interface <iface-num>	Yes
show qos dcbxp info	Yes
show qos shared-policer [ type qos1 ] [ <policer-name> ]	Yes
show queuing [ interface <if_list> ] [ summary ] [ module <module> ]	Yes
show queuing [ interface <if_list> ] [ summary ] [ module <module> ]	Yes
show queuing burst-detect [ interface <if_name> [ queue <queue_num> ] ] [ module <module> ] [ detail ]	Yes

Show Commands	XML Support
show queuing burst-detect [ interface <if_name> [ queue <queue_num> ] ] [ module <module> ] [ detail ]	Yes
show queuing internal snmp interface <ifx-in>	Yes
show queuing internal snmp interface <ifx-in>	Yes
show queuing internal snmp interface cos <ifx-in> <grp-in>	Yes
show queuing internal snmp interface cos <ifx-in> <grp-in>	Yes
show queuing pfc-queue [ interface <if_list> ] [ module <module> ] [ detail ]	Yes
show queuing pfc-queue snmp ifIndex <ifidx>	Yes
show queuing1 [ interface <if_list> ] [ summary ] [ module <module> ]	Yes
show queuing1 [ interface <if_list> ] [ summary ] [ module <module> ]	Yes
show radius status	Yes
show radius-cfs	Yes
show radius-server	Yes
show radius-server { <host0> }	Yes
show radius-server directed-request	Yes
show radius-server groups [ <s0> ]	Yes
show radius-server sorted	Yes
show radius-server statistics <host0>	Yes
show redundancy status	Yes
show resource [ <res-mgr-res-known-name> ] [ hidden-too   with-flags ]	Yes
show resource internal event-history errors	No
show resource internal event-history msgs	No
show resource internal mem-stats [ detail ]	No
show rmon { alarms   events   hcalarms   info   logs }	Yes
show role [ name <arg3> ]	Yes
show role feature [ name <arg5>   detail ]	Yes
show role feature-group [ name <arg4> ] [ detail ]	Yes
show rollback log { exec   verify }	Yes



Show Commands	XML Support
show rollback status	Yes
"show route-map [ ""<route-map-name>""   <route-map-cfg-name> ] "	Yes
show routing [ ip   ipv4 ] [ unicast ] [ internal ] event-history { statistics   msgs   { { add-route   cli   delete-route   detail   dme   errors   gen	No
show routing [ ip   ipv4 ] [ unicast ] internal library-info	No
show routing [ ip   ipv4 ] [ unicast ] internal mem-stats [ all   shared ] [ no-libs ] [ detail ]	No
show routing [ ip   ipv4 ] [ unicast ] memory estimate [ routes <route-count> [ next-hops <nh-count> ] [ next-hops-v6 <nh6-count> ] ] [ labels ]	Yes
show routing [ ip   ipv4 ] [ unicast ] memory statistics	Yes
show routing [ ip   ipv4 ] internal statistics [ route-summary [ [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ] ]	No
show routing [ ip   ipv4 ] multicast [ internal ] event-history { errors   msgs   <mrib-event-hist-buf-name>   statistics }	No
show routing [ ip   ipv4 ] multicast { { [ bitfield ] [ detail ] }   rp   { [ <group> ] summary [ software-forwarded   rpf-failed ] }   { summary [ count	Yes
show routing [ ip   ipv4 ] multicast clients [ <client-name> ]	Yes
show routing [ ip   ipv4 ] multicast internal { iod-cache   { rpf-tree   bitfield   mfdm } [ vrf [ <vrf-name>   <vrf-known-name>   all ] ] }	No
show routing [ ip   ipv4 ] multicast internal { txlist [ detail ] [ vrf [ <vrf-known-name>   all ] ]   client-buffers   route-buffers }	No
show routing [ ip   ipv4 ] multicast internal fabric forwarder hash <group> <rpf_source> <border_leafs>+	No
show routing [ ip   ipv4 ] multicast internal flag-definitions	No
show routing [ ip   ipv4 ] multicast internal hash { <source> <group>   <group> <source> } [ vrf { <vrf-name>   <vrf-known-name> } ]	No
show routing [ ip   ipv4 ] multicast internal library-info	No
show routing [ ip   ipv4 ] multicast internal mem-stats [ shared   all ] [ no-libs ] [ detail ]	No
show routing [ ip   ipv4 ] multicast internal pim-cache [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No
show routing [ ip   ipv4 ] multicast internal rpf-source [ <source> ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	No
show routing [ ip   ipv4 ] multicast mdt encapsulation [ detail ] [ vrf { <vrf-name>   <vrf-known-name>   all } ]	Yes

Show Commands	XML Support
show routing [ ip   ipv4 ] multicast memory estimate [ groups <group-count> sources-per-group <source-count> oifs-per-entry <oif-count> [ mdt-encap-entri	Yes
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] [ ip   ipv4 ] [ unicast ] [ topology <topology-name> ] clients [ <client>   <protocol>	Yes
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] [ ip   ipv4 ] [ unicast ] [ topology <topology-name> ] hash <source> <dest> [ ip-PROTO	Yes
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] [ ip   ipv4 ] [ unicast ] [ topology <topology-name> ] hidden-nh	Yes
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] [ ip   ipv4 ] [ unicast ] [ topology <topology-name> ] internal [ force-update ]	No
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] [ ip   ipv4 ] [ unicast ] [ topology <topology-name> ] internal pending-routes [ summ	No
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] [ ip   ipv4 ] [ unicast ] [ topology <topology-name> ] nhlfe [ stats ] [ vrf { <vrf-na	Yes
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] [ ip   ipv4 ] [ unicast ] [ topology <topology-name> ] recursive-next-hop [ <ip-addr>	Yes
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] [ ip   ipv4 ] [ unicast ] [ topology <topology-name> ] unresolved-next-hop { [ <ip-ad	No
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] clients [ <client>   <ipv6-protocol> ]	Yes
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] hash [ mpls <ipv6-prefix> [ eos ] ] <so	Yes
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] hidden-nh	Yes
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] internal [ force-update ] [ vrf { <vrf	No
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] internal distribution	No
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] internal distribution mh	No
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] nexthop info [ vrf { <vrf-name>   <vrf	No
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] nhlfe [ stats ] [ vrf { <vrf-name>   <v	Yes
show routing [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] recursive-next-hop [ <ipv6-addr> ] [ vr	Yes

Show Commands	XML Support
show routing ipv6 [ unicast ] [ internal ] event-history { statistics   msgs   am   cli   detail   errors   general   ha   lfe   recursive-next-hop   s	No
show routing ipv6 [ unicast ] internal buffers	No
show routing ipv6 [ unicast ] internal library-info	No
show routing ipv6 [ unicast ] internal mem-stats [ all   shared ] [ no-libs ] [ detail ]	No
show routing ipv6 [ unicast ] internal ufdm	No
show routing ipv6 [ unicast ] memory estimate [ routes <route-count> next-hops <nh-count> ] [ labels ]	Yes
show routing ipv6 [ unicast ] memory statistics	Yes
show routing ipv6 internal statistics [ route-summary [ [ vrf { <vrf-name>   <vrf-known-name>   <vrf-all> } ] ] ]	No
show routing ipv6 multicast [ internal ] event-history { errors   msgs   <m6rib-event-hist-buf-name>   statistics }	No
show routing ipv6 multicast [ vrf { <vrf-name>   <vrf-known-name>   all } ] [ topology <topology-name> ] [ [ bitfield ]   rp   { [ <group> ] summary [ s	Yes
show routing ipv6 multicast clients [ <client-name> ]	Yes
show routing ipv6 multicast internal	No
show routing ipv6 multicast internal { rpf-tree   deleted-tree   bitfield   mfdm } [ vrf [ <vrf-name>   <vrf-known-name>   all ] ]	No
show routing ipv6 multicast internal flag-definitions	No
show routing ipv6 multicast internal library-info	No
show routing ipv6 multicast internal mem-stats [ shared   all ] [ no-libs ] [ detail ]	No
show routing ipv6 multicast memory estimate [ groups <group-count> sources-per-group <source-count> oifs-per-entry <oif-count> ]	Yes
show routing multicast internal	No
show routing vxlan-hash peer-ip <peer-ip> <inner-src-mac> <inner-dst-mac> [ <inner-src-ip> <inner-dst-ip> ] [ ip-proto <ip-proto> ] [ <inner-src-port> <	No
show routing-context	No
show routing-privilege	No
show running-config	No
"show running-config ""tacacs+"" [ all ] "	No

Show Commands	XML Support
show running-config { switch-profile   include-switch-profile }	No
show running-config aaa [ all ]	No
show running-config acllog [ all ]	No
show running-config aclmgr [ all   inactive-if-config ]	No
show running-config aclmgr { active-if-config   all-if-config }	No
show running-config adjmgr [ all ]	No
show running-config all	No
show running-config arp [ all ]	No
show running-config bfd [ all ]	No
show running-config bgp [ all ]	No
show running-config bloggerd [ all ]	No
show running-config callhome [ all ]	No
show running-config cdp [ all ]	No
show running-config cert-enroll [ all ]	No
show running-config cfs [ all ]	No
show running-config clock_manager [ all ]	No
show running-config config-profile [ <all_conf_profile_name> ]	No
show running-config copp [ all ]	No
show running-config diagnostic [ all ]	No
show running-config diff	No
show running-config eem	No
show running-config eltm	No
show running-config exclude <feature-list>+	No
show running-config expand-port-profile	No
show running-config explicit	No
show running-config fabric forwarding [ all ]	No
show running-config icmpv6 [ all ]	No
show running-config igmp [ all ]	No

Show Commands	XML Support
show running-config interface [ <if0> ] [ all ] [ expand-port-profile ]	No
show running-config interface <if0> [ membership ] [ expand-port-profile ]	No
show running-config interface <if0> defaults	No
show running-config interface <if0> explicit	No
show running-config ip [ all ]	No
show running-config ipqos [ all   inactive-if-config ]	No
show running-config ipqos { active-if-config   all-if-config }	No
show running-config ipv6 [ all ]	No
show running-config l2pt [ all ]	No
show running-config l3vm [ all ]	No
show running-config license [ all ]	No
show running-config mmode [ all ]	No
show running-config monitor [ all ]	No
show running-config mpls strip [ all ]	No
show running-config ntp [ all ]	No
show running-config nv overlay [ all ]	No
show running-config ospf [ all ]	No
show running-config param-list [ <plistname> ]	No
show running-config pim [ all ]	No
show running-config port-profile [ <all_profile_name> ]	No
show running-config radius [ all ]	No
show running-config res_mgr	No
show running-config rip [ all ]	No
show running-config routing { ip   ipv4 } multicast [ all ]	No
show running-config routing ipv6 multicast [ all ]	No
show running-config rpm [ all ]	No
show running-config section <section>	No
show running-config security [ all ]	No

Show Commands	XML Support
show running-config snmp [ all ]	No
show running-config spanning-tree [ <all>   interface <interface_range> ]	No
show running-config track [ all ]	No
show running-config vdc [ all ]	No
show running-config vdc-all [ all ]	No
show running-config virtual-service	No
show running-config vlan	No
show running-config vlan <vlan-id> [ expand-port-profile ]	No
show running-config vlan_mgr	No
show running-config vrf <vrf-cfg-name> [ all ]	No
show running-config vrf default [ all ]	No
show running-config vshd	No
show running-config vtp [ all ]	No
show snapshots	Yes
show snapshots compare <snapshot-name-T1> <snapshot-name-T2>	Yes
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv4routes	Yes
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv6routes	Yes
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> summary	Yes
show snapshots dump <snapshot-name>	No
show snapshots sections	Yes
show snmp	Yes
show snmp community	Yes
show snmp context	Yes
show snmp engineID	Yes
show snmp group	Yes
show snmp host	Yes
show snmp internal climib loaded [ <climib-name> ]	No
show snmp internal climib mib cshc cshcInterfaceBufferTable ifindex <ifindex_in>	Yes

Show Commands	XML Support
show snmp internal climib mib cshc cshcModuleInterfaceDropsTable ent_idx <ent_idx_in>	Yes
show snmp internal climib mib entity entAliasMappingTable entPhysicalIndex <entPhysicalIndex> entAliasLogicalIndexOrZero <entAliasLogicalIndexOrZ	Yes
show snmp internal climib mib entity entPhysicalContainsTable entPhysicalIndex <entPhysicalIndex> entPhysicalChildIndex <entPhysicalChildIndex> [	Yes
show snmp internal climib mib error-disable cErrDisableIfStatusTable ifIndex <ifx-in> vlan <vlan-in>	Yes
show snmp internal climib mib fibCounterTable <entPhysicalIndex-in> <counterIndex-in>	Yes
show snmp internal climib mib ifext cieIfDot1dBaseMappingTable ifindex <ifindex>	Yes
show snmp internal climib mib pfcext cpfcIfPriorityTable ifIndex <ifx-in> priority <grp-in>	Yes
show snmp internal climib mib pfcext cpfcIfTable ifIndex <ifx-in>	Yes
show snmp internal climib mib pfcext cpfcWatchdogIfQueueInfoTable ifIndex <ifx-in> queue-number <queue-in>	Yes
show snmp internal climib mib vlanif cviVlanInterfaceIndexTable vlan-id <vlan> ifindex <ifindex>	Yes
show snmp internal climib switch-qos [ csqHwSharedPoolUsageTable [ entPhysicalIndex <mod_ent> [ csqHwSharedPoolDeviceId <device_id> [ csqHwShared	Yes
show snmp internal climib switch-qos [ csqIfPriGrpInBufUsageTable [ ifIndex <ifidx> [ csqIfPriGrpInBufUsageGrpNo <pgidx> ] ]	Yes
show snmp internal climib switch-qos [ csqIfQosGroupInfoTable [ ifIndex <ifIndex-in> [ csqIfQosGroupInfoDirection <ifDirection-in> [ csqIfQosGrou	Yes
show snmp internal climib switch-qos [ csqIfQosGroupStatsTable [ ifIndex <ifIndex-in> [ csqIfQosGroupStatsDirection <ifDirection-in> [ csqIfQosGr	Yes
show snmp internal climib switch-qos [ csqServicePoolCellSize ]	Yes
show snmp internal climib switch-qos [ csqSharedPoolUsageTable [ entPhysicalIndex <mod_ent> [ csqSharedPoolUsageInstNo <inst_id> [ csqSharedPoolU	Yes
show snmp internal climib test <id>	Yes
show snmp internal climib trace [ <buffers> ]	No
show snmp internal climib trace core <pid>	No
show snmp internal conditional-loaded-mib-dump	No
show snmp internal eem-policy	No
show snmp internal feature-mgr-dump	No

Show Commands	XML Support
show snmp internal globals	No
show snmp internal loaded mibs	No
show snmp internal oids notification	No
show snmp internal oids registered	No
show snmp internal oids supported [ create ]	No
show snmp internal oids unsupported	No
show snmp internal protocol-instance-table	No
show snmp internal registered-notifications	No
show snmp internal tcp connections	No
show snmp internal trace log	No
show snmp internal translate oidorname <nameoroid>	No
show snmp mib igmpCacheTable [ <igmpCacheAddress-in> ] [ <igmpCacheIfIndex-in> ]	Yes
show snmp mib igmpInterfaceTable [ <igmpInterfaceIfIndex-in> ]	Yes
show snmp mib pimCandidateRPTable [ <pimCandidateRPGroupAddress-in> ] [ <pimCandidateRPGroupMask-in> ]	Yes
show snmp mib pimComponentTable [ <pimComponentIndex-in> ]	Yes
show snmp mib pimInterfaceTable [ <pimInterfaceIfIndex-in> ]	Yes
show snmp mib pimIpMRouteNextHopTable [ <ipMRouteNextHopGroup-in> <ipMRouteNextHopSource-in> <ipMRouteNextHopSourceMask-in> <ipMRouteNextHopIfIndex-in> <i	Yes
show snmp mib pimIpMRouteTable [ <ipMRouteGroup-in> ] [ <ipMRouteSource-in> ] [ <ipMRouteSourceMask-in> ]	Yes
show snmp mib pimJoinPruneInterval	Yes
show snmp mib pimNeighborTable [ <pimNeighborAddress-in> ]	Yes
show snmp mib pimRPSetTable [ <pimRPSetComponent-in> ] [ <pimRPSetGroupAddress-in> ] [ <pimRPSetGroupMask-in> ] [ <pimRPSetAddress-in> ]	Yes
show snmp pss	No
show snmp roleddebug	No
show snmp sessions	Yes
show snmp snmpv3stats	No



Show Commands	XML Support
show snmp source-interface	Yes
show snmp trap	Yes
show snmp user [ <s0> [ engineID <s1> ] ]	Yes
show snmpmib internal [ event-history ] errors	No
show snmpmib internal [ event-history ] msgs	No
show snmpmib internal info [ { global } ]	No
show snmpmib internal mem-stats [ detail ]	No
show sockets buffers [ { [ all <count> ] [ free <count> ] } ]	No
show sockets client { [ pid <pid> ] [ tcp   udp   raw ] [ detail ] [ kstack-ns-all ] }	Yes
show sockets connection [ pid <pid>   tcp   udp   raw ] [ local { <srcIP>   <srcIP6> } ] [ foreign { <dstIP>   <dstIP6> } ] [ detail ] [ keydetails ] [	Yes
show sockets internal { dispatch-statistics   { mem-stats [ detail ] } }	No
show sockets internal event-history { errors   msgs   setup   ha   events   proto   log }	No
show sockets internal event-history buffer-size { errors   msgs   setup   ha   events   proto   log   all }	No
show sockets keychain-dump	No
show sockets local-port-range	Yes
show sockets performance [ clear ]	No
show sockets secure-lxc	No
show sockets statistics [ all   tcp   tcp6   tcpsum   udp   udp6   udpsum   raw   raw6   rawsum ]	Yes
show sockets tcp keychain binding	Yes
show spanning-tree [ vlan <vlan-id>   bridge-domain <bd-id> ]	Yes
show spanning-tree [ vlan <vlan-id>   bridge-domain <bd-id> ] { <verbosity>   active } +	No
show spanning-tree [ vlan <vlan-id>   bridge-domain <bd-id> ] interface <interface-id>	Yes
show spanning-tree [ vlan <vlan-id>   bridge-domain <bd-id> ] interface <interface-id> { <verbosity>   active } +	No
show spanning-tree [ vlan <vlan-id>   bridge-domain <bd-id> ] summary	Yes
show spanning-tree internal [ event-history ] errors	No

Show Commands	XML Support
show spanning-tree internal [ event-history ] msgs	No
show spanning-tree internal event-history { { tree <tree-id> [ all-ports   interface <interface-id> ] }   deleted   all } [ brief ]	No
show spanning-tree internal event-history stp-lite	No
show spanning-tree internal event-history vpc pes	No
show spanning-tree internal event-history vpc sps	No
show spanning-tree internal flc-info [ vlan <vlan-id>   bridge-domain <bd-id> ]	No
show spanning-tree internal info all	No
show spanning-tree internal info flush qstats	No
show spanning-tree internal info flush stats	No
show spanning-tree internal info global	No
show spanning-tree internal info issu	No
show spanning-tree internal info l2gstp [ vlan <vlan-id> ]	No
show spanning-tree internal info l2gstp peer-info [ pss ]	No
show spanning-tree internal info l2gstp sdb	No
show spanning-tree internal info sps-pending	No
show spanning-tree internal info sps-q-stats	No
show spanning-tree internal info stp-lite [ tree <tree-id> ] stats	No
show spanning-tree internal info tree <tree-id> [ all-ports   interface <interface-id> ]	No
show spanning-tree internal info vpc	No
show spanning-tree internal interactions	No
show spanning-tree internal mem-stats [ detail ]	No
show spanning-tree issu-impact	No
show spanning-tree mst [ <mst-id> ]	Yes
show spanning-tree mst [ <mst-id> ] detail	No
show spanning-tree mst [ <mst-id> ] interface <interface-id>	Yes
show spanning-tree mst [ <mst-id> ] interface <interface-id> detail	No
show spanning-tree summary totals	Yes

Show Commands	XML Support
show sprom { backplane <i0>   module <module> <i1>   xbar <santa-cruz-range> <i2>   powersupply <i3>   fan <i4>   sup   stby-sup   all   all2   backplane2	Yes
show ssh key [ { dsa   rsa } ]	Yes
show ssh server	Yes
show startup-config	No
"show startup-config ""tacacs+"" "	No
show startup-config { log   mdp-log } [ bootstrap ]	No
show startup-config { switch-profile   include-switch-profile }	No
show startup-config aaa	No
show startup-config aclog [ all ]	No
show startup-config aclmgr [ all ]	No
show startup-config adjmgr [ all ]	No
show startup-config arp [ all ]	No
show startup-config bfd [ all ]	No
show startup-config bgp [ all ]	No
show startup-config bloggerd [ all ]	No
show startup-config callhome	No
show startup-config cdp [ all ]	No
show startup-config cert-enroll	No
show startup-config cfs [ all ]	No
show startup-config config-profile [ <all_conf_profile_name> ]	No
show startup-config copp [ all ]	No
show startup-config dhcp [ all ]	No
show startup-config diagnostic [ all ]	No
show startup-config eem	No
show startup-config eltm	No
show startup-config exclude <feature-list>+	No
show startup-config expand-port-profile	No

Show Commands	XML Support
show startup-config fabric forwarding [ all ]	No
show startup-config glbp	No
show startup-config hsrp	No
show startup-config icmpv6 [ all ]	No
show startup-config igmp [ all ]	No
show startup-config interface [ <if0> ] [ expand-port-profile ]	No
show startup-config interface <if0> [ membership ] [ expand-port-profile ]	No
show startup-config ip [ all ]	No
show startup-config ipqos [ all ]	No
show startup-config ipv6 [ all ]	No
show startup-config l2pt [ all ]	No
show startup-config l3vm [ all ]	No
show startup-config license [ all ]	No
show startup-config mmode [ all ]	No
show startup-config monitor	No
show startup-config mpls strip [ all ]	No
show startup-config nat [ all ]	No
show startup-config ntp [ all ]	No
show startup-config nv overlay [ all ]	No
show startup-config ospf [ all ]	No
show startup-config param-list [ <plistname> ]	No
show startup-config pim [ all ]	No
show startup-config port-profile [ <all_profile_name> ]	No
show startup-config radius	No
show startup-config rip [ all ]	No
show startup-config routing { ip   ipv4 } multicast [ all ]	No
show startup-config routing ipv6 multicast [ all ]	No
show startup-config rpm [ all ]	No

Show Commands	XML Support
show startup-config security	No
show startup-config sla responder	No
show startup-config sla sender	No
show startup-config snmp [ all ]	No
show startup-config track	No
show startup-config vdc [ all ]	No
show startup-config vdc-all	No
show startup-config virtual-service	No
show startup-config vlan	No
show startup-config vlan <vlan-id>	No
show startup-config vmtracker [ all ]	No
show startup-config vrf <vrf-cfg-name> [ all ]	No
show startup-config vrf default [ all ]	No
show startup-config vrrp	No
show startup-config vrrpv3 [ all ]	No
show startup-config vshd	No
show startup-config vtp [ all ]	No
show switch-profile	Yes
show switch-profile [ <profile-name> ] { session-history   status commit }	Yes
show switch-profile [ <profile-name> ] buffer	Yes
show switch-profile [ <profile-name> ] peer [ <dest-ip> ] [ details ]	Yes
show switch-profile [ <profile-name> ] status	Yes
show switching-mode	Yes
show switching-mode fabric-speed	Yes
show system [ internal ] clis event-history { nvdb   client   errors   parser   ha   cli   objstr   objstr-errors }	No
show system auto-collect tech-support	No
show system cores	Yes

Show Commands	XML Support
show system dme error-id <i0>	No
show system error-id { list   <i0> }	Yes
show system exception-info	No
show system fabric-mode	Yes
show system fast-reload stabilization-timer	No
show system inband queuing statistics	Yes
show system inband queuing status	Yes
show system kgdb	No
show system memory-thresholds	Yes
show system mode	Yes
show system nve infra-vlans	Yes
show system pss shrink status [ details ]	Yes
show system redundancy ha status	Yes
show system redundancy status	Yes
show system reset-reason	Yes
show system reset-reason <s0> <santa-cruz-range>	Yes
show system reset-reason module <module>	Yes
show system resources	Yes
show system resources [ <i0> ] module <module>	No
show system resources [ <i0> ] module all	No
show system resources <i0>	No
show system routing mode	Yes
show system srg	No
show system standby manual-boot	Yes
show system switch-mode	Yes
show system switchover impact [ <uri0> [ <uri1> ] ]	No
show system uptime	Yes

Show Commands	XML Support
show system verify bios { flash <i0> [ module <module> ]   protection <i1> [ module <module1> ] }	No
show system vlan reserved	Yes
show table-map [ <tmap-name>   <default-tmap-enum-name> ]	Yes
show tacacs-server	Yes
show tacacs-server { <host0> }	Yes
show tacacs-server directed-request	Yes
show tacacs-server groups [ <s0> ]	Yes
show tacacs-server sorted	Yes
show tacacs-server statistics { <host0> }	Yes
show tamnw internal [ event-history ] errors	No
show tamnw internal [ event-history ] msgs	No
"show tech-support ""tacacs+"" "	No
show tech-support [ ip   ipv4 ] multicast	No
show tech-support [ time-optimized ] [ forced ]	No
show tech-support aaa	No
show tech-support aclmgr [ detail ]	No
show tech-support aclmgr compressed <uri0> [ detail ]	No
show tech-support aclqos	No
show tech-support aclqos compressed <uri0>	No
show tech-support adjmgr [ brief ]	No
show tech-support all	No
show tech-support all binary <uri0>	No
show tech-support all-binary	No
show tech-support arp [ brief ]	No
show tech-support ascii-cfg	No
show tech-support bfd	No
show tech-support bgp [ brief ]	No

Show Commands	XML Support
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 [ { commands   name <cfs-dyn-app-name> [ commands1 ] } ]	No
show tech-support cli	No
show tech-support clis [ brief ]	No
show tech-support clock_manager	No
show tech-support commands	No
show tech-support copp	No
show tech-support details [ space-optimized ]	No
show tech-support dhclient	No
show tech-support dhcp	No
show tech-support dme	No
show tech-support eem	No
show tech-support eltm [ detail ]	No
show tech-support ethpm	No
show tech-support fabric forwarding	No
show tech-support fast-reload	No
show tech-support fc2 [ commands ]	No
show tech-support fips	No
show tech-support forwarding l2 multicast	No
show tech-support forwarding l2 multicast vdc-all	No
show tech-support forwarding l2 unicast [ module <module> ]	No



Show Commands	XML Support
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 tech-support forwarding l3 multicast vdc-all	No
show tech-support forwarding l3 unicast [ module <module> ]	No
show tech-support forwarding l3 unicast detail [ module <module> ]	No
show tech-support forwarding l3 unicast detail vdc-all [ module <module> ]	No
show tech-support forwarding l3 unicast vdc-all [ module <module> ]	No
show tech-support forwarding mpls [ module <module> ]	No
show tech-support forwarding multicast [ module <module> ]	No
show tech-support forwarding otv multicast vdc-all	No
show tech-support gold	No
show tech-support gpixm	No
show tech-support ha [ commands ]	No
show tech-support ha standby [ commands ]	No
show tech-support icmpv6 [ brief ]	No
show tech-support im	No
show tech-support inband counters	No
show tech-support include-time	No
show tech-support install	No
show tech-support internal link-events	No
show tech-support internal link-events module <module>	No
show tech-support internal module <module>	No
show tech-support internal vsan <vsan_id>	No
show tech-support ip [ brief ]	No
show tech-support ip igmp [ brief ]	No
show tech-support ip igmp snooping [ brief ]	No
show tech-support ip pim [ brief ]	No

Show Commands	XML Support
show tech-support ipqos [ server-only ] [ all ] [ snmp ]	No
show tech-support ipv6 [ brief ]	No
show tech-support ipv6 mld [ brief ]	No
show tech-support ipv6 multicast	No
show tech-support issu [ commands ]	No
show tech-support kstack	No
show tech-support l2	No
show tech-support l2fm	No
show tech-support l2fm clients [ module <module> ]	No
show tech-support l2fm detail [ module <module> ]	No
show tech-support l2fm l2dbg [ module <module> ]	No
show tech-support l2pt [ detail ]	No
show tech-support l2rib	No
show tech-support l3vm [ brief ]	No
show tech-support l3vpn [ brief ]	No
show tech-support lacp [ all ]	No
show tech-support license	No
show tech-support lim	No
show tech-support logging	No
show tech-support m2rib	No
show tech-support mfwd [ brief ]	No
show tech-support mmode	No
show tech-support module <module>	No
show tech-support module all	No
show tech-support monitor	No
show tech-support monitor erspan	No
show tech-support monitorc-all	No
show tech-support mpls strip	No

Show Commands	XML Support
show tech-support mplsfd [ brief ]	No
show tech-support mvpn [ brief ]	No
show tech-support netstack	No
show tech-support netstack detail	No
show tech-support npacl [ brief ]	No
show tech-support ns	No
show tech-support ntp	No
show tech-support nve	No
show tech-support ospf [ brief ]	No
show tech-support page [ time-optimized ] [ forced ]	No
show tech-support patch	No
show tech-support pfstat	No
show tech-support pixm	No
show tech-support pixm-all	No
show tech-support pixmc-all	No
show tech-support pktmgr [ brief ]	No
show tech-support platform	No
show tech-support plcmgr [ detail ]	No
show tech-support pltfm-config	No
show tech-support port	No
show tech-support port-channel	No
show tech-support port-client-all	No
show tech-support port-profile	No
show tech-support ptp	No
show tech-support radius	No
show tech-support rip [ brief ]	No
show tech-support routing [ ip   ipv4 ] [ unicast ] [ brief ]	No
show tech-support routing [ ip   ipv4 ] multicast [ brief ]	No

Show Commands	XML Support
show tech-support routing ipv6 [ unicast ] [ brief ]	No
show tech-support routing ipv6 multicast [ brief ]	No
show tech-support sal	No
show tech-support satmgr	No
show tech-support security	No
show tech-support session-mgr	No
show tech-support sflow	No
show tech-support sksd	No
show tech-support smm	No
show tech-support snmp	No
show tech-support sockets [ brief ]	No
show tech-support spm [ <application> ] [ detail ]	No
show tech-support statsclient [ module <module> ]	No
show tech-support stp	No
show tech-support sup-filesys	No
show tech-support sysmgr [ commands ]	No
show tech-support track	No
show tech-support tunnel [ { commands   detail [ commands1 ] } ]	No
show tech-support 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 vshd	No
show tech-support vtp	No
show tech-support vxlan	No
show tech-support vxlan platform	No
show tech-support vxlan-evpn	No

Show Commands	XML Support
show tech-support xbar	No
show tech-support xml	No
show tech-support xos [ brief ]	No
show telnet server	Yes
show terminal	No
show terminal internal info	No
show terminal output xml version	No
show time-range [ <name> ]	Yes
show track { [ <object-id>   interface   ip { route   sla }   ipv6 routev6   list boolean and   list boolean or   list threshold weight   list threshold p	Yes
show track { [ <object-id>   interface   ip { route   sla }   ipv6 routev6   list boolean and   list boolean or   list threshold weight   list threshold p	Yes
show track { [ <object-id>   interface   ip { route   sla }   ipv6 routev6   list boolean and   list boolean or   list threshold weight   list threshold p	Yes
show track { [ <object-id>   interface   ip { route   sla }   ipv6 routev6   list boolean and   list boolean or   list threshold weight   list threshold p	Yes
show track internal [ event-history ] errors	No
show track internal [ event-history ] msgs	No
show track internal info counters	No
show track internal info global	No
show track internal info object <object-id> [ up   down ]	No
show track internal mem-stats [ uuid <i0> ] [ track-only ] [ detail ]	No
show user-account [ <s0> ]	Yes
show username <s0> keypair	Yes
show userpassphrase { min-length   max-length   length }	Yes
show users	Yes
show vdc <id> resource [ <res-mgr-res-known-name> ]	Yes
show vdc current-vdc	Yes
show vdc fcoe-vlan-range	Yes

Show Commands	XML Support
show vdc internal [ event-history ] errors	No
show vdc internal [ event-history ] msgs	No
show vdc internal { { pss [ { <e-vdc2>   interface [ <interface-name> ] } ] }   port-hash }	No
show vdc internal bitmaps	No
show vdc internal create_possible	No
show vdc internal event-history vdc_id <new_id>	No
show vdc internal mac_address_table	Yes
show vdc internal mem-stats [ detail ]	No
show vdc resource [ <res-mgr-res-known-name> ] [ detail   hidden-too   with-flags ] +	Yes
show vdc resource template [ <res-mgr-template-known-name-all> ]	Yes
show version	Yes
show version compatibility <uri0>	No
show version image <uri0>	No
show version internal build-identifier	No
show version module <module>	Yes
show version module <module> epld	No
show virtual-service [ { list }   { global }   { detail [ name <virt_serv_name> ] }   { core [ name <virt_serv_name_core> ] } ]	Yes
show virtual-service storage pool list	Yes
show virtual-service tech-support	No
show virtual-service utilization name <virt_serv_name>	Yes
show virtual-service version { { installed }   { name <virt_serv_name> installed } }	Yes
show vlan [ controller ]	Yes
show vlan access-list <name> [ <inp_seqno> ]	Yes
show vlan access-map [ <name> ]	Yes
show vlan all-ports	Yes
show vlan counters	Yes
show vlan dot1Q tag native	Yes

Show Commands	XML Support
show vlan filter [ access-map <name>   vlan <vlan> ]	Yes
show vlan id <vlan-id>	Yes
show vlan id <vlan-id> counters	Yes
show vlan internal [ event-history ] bd-pa-pmc notif	No
show vlan internal [ event-history ] bd-port { add   delete }	No
show vlan internal [ event-history ] errors	No
show vlan internal [ event-history ] get-query notif	No
show vlan internal [ event-history ] msgs	No
show vlan internal [ event-history ] objstore	No
show vlan internal [ event-history ] pa-tmc notif	No
show vlan internal [ event-history ] traces	No
show vlan internal bd-info bd-to-vlan { <bd-id2>   all-bd }	Yes
show vlan internal bd-info bd-usage	Yes
show vlan internal bd-info vlan-to-bd { <vlan-id3>   all-vlan }	Yes
show vlan internal clear-flags	No
show vlan internal clear-flags [ drainq <q-type> ]	No
show vlan internal clear-log-buffer	No
show vlan internal event-history libprofiler	No
show vlan internal event-level <evt-lvl>	No
show vlan internal info [ vlan-db [ vlan <i0> ]   vlan-port-db [ interface <if_index> ]   port-rt-pss [ interface <if_index> ]   port-cfg-pss [	No
show vlan internal info mapping	No
show vlan internal info port-configuration interface [ <ifindex_in> ]	Yes
show vlan internal info port-translation interface [ <ifindex_in> [ <cvtPortOriginalVlan_in> ] ]	Yes
show vlan internal lib event-history	No
show vlan internal log-event-bd { <bd-id>   all }	No
show vlan internal log-event-intf { <if_index>   all }	No
show vlan internal log-event-vlan { <vlan-id>   all }	No

Show Commands	XML Support
show vlan internal log-to-file { set   unset }	No
show vlan internal mem-stats [ detail ]	No
show vlan internal next-vlan <vlan-id> [ vlan-crsysuptime ]	Yes
show vlan internal port-info	Yes
show vlan internal port-memb-mib interface <intf-num>	Yes
show vlan internal port-memb-mib-sum <vlan-id> [ port-range <port-range-list> ]	Yes
show vlan internal print-level <prt-lvl>	No
show vlan internal trunk interface <intf-num>	Yes
show vlan internal trunk-info interface <if-index> <trunk-dis-size>	Yes
show vlan internal trunk2 interface <intf-num>	Yes
show vlan internal usage [ id <vrage> ]	Yes
show vlan internal vdc-info	Yes
show vlan internal vdc-info2	Yes
show vlan internal vlan-info <vlan-id2>	Yes
show vlan internal vpc-info [ clear-stats ]	No
show vlan name <vname>	Yes
show vlan reserved	Yes
show vlan xbrief [ controller   cli ]	Yes
show vlan xsummary	Yes
show vlan-mgr errors	No
show vlan-mgr event-history	No
show vrf [ <vrf-name>   <vrf-known-name>   all ] [ order id ] [ detail ] [ passive ]	Yes
show vrf [ <vrf-name>   <vrf-known-name>   all ] interface [ <interface> ]	Yes
show vrf topology [ order id ] [ detail ]	Yes
show vtp counters	Yes
show vtp datafile	No
show vtp domain id <domain-id>	Yes
show vtp interface [ <interface_range> ]	Yes



Show Commands	XML Support
show vtp internal event-history errors	No
show vtp internal event-history events	No
show vtp internal event-history pruning	No
show vtp internal event-history traces	No
show vtp internal info [ global   all ]	No
show vtp internal mem-stats [ detail ]	No
show vtp mibstats	Yes
show vtp password [ domain <domain-id> ]	Yes
show vtp status	Yes
show vtp trunk interface <if_index>	Yes
show vtp vlan <vlan-id> [ domain <domain-id> ]	Yes
show vxlan [ interface [ <int-id>   <ch-id> ] ]	No
show wred-queue qos-group-map	No
show wrt unicast-bandwidth	No
show wrt-queue qos-group-map	No
show xml server internal exec-info { all   <session_id> }	Yes
show xml server internal history { commands   errors   all_history } [ session <session_id> ]	Yes
show xml server logging configuration	No
show xml server status	Yes

