



## I Show Commands

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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

**Syntax Description**

---

**show** Show running system information

---

**imp** ipsec management process

---

**client** Show ipsec clients name

---

## Command Mode

- /exec



# show imp client sa

show imp client sa

## Syntax Description

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

## Command Mode

- /exec

# show imp internal event-history acfg

show imp internal event-history acfg

### Syntax Description

<b>Syntax Description</b>	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

<b>Syntax Description</b>	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		
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
Str1	(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	
uri	(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

---

**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

---

*uri1* 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> ]
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<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [ <eth_outrate3_pkts> ] [ <eth_l2_ucastpkts>
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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> ] [
<svi_mcast_bytes_out> ] [ <svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [
<svi_ipv4_ucast_pkts_out> ] [ <svi_ipv4_ucast_bytes_out> ] [ <svi_ipv4_mcast_pkts_in> ] [
<svi_ipv4_mcast_bytes_in> ] [ <svi_ipv4_mcast_pkts_out> ] [ <svi_ipv4_mcast_bytes_out> ] [
<svi_ipv6_ucast_pkts_in> ] [ <svi_ipv6_ucast_bytes_in> ] [ <svi_ipv6_ucast_pkts_out> ] [
<svi_ipv6_ucast_bytes_out> ] [ <svi_ipv6_mcast_pkts_in> ] [ <svi_ipv6_mcast_bytes_in> ] [
<svi_ipv6_mcast_pkts_out> ] [ <svi_ipv6_mcast_bytes_out> ] [ <svi_average_input_bits> ] [
<svi_average_input_packets> ] [ <svi_average_output_bits> ] [ <svi_average_output_packets> ] [
<svi_rate_in_mins> ] [ <svi_reliability> ] [ <switchport> ]

```

## Syntax Description

Syntax Description	Description
show	Show running system information
interface	Show interface status and information
<i>ifid</i>	Enter interface type and number in module/slot format
brief	(Optional) Show brief info of interface
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>desc</i>	(Optional) Interface description
<i>switchport</i>	(Optional) Switchport enabled
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed
<i>svi_line_proto</i>	(Optional)
<i>svi_hw</i>	(Optional) Hardware
<i>svi_mac</i>	(Optional) Address
<i>svi_desc</i>	(Optional) Interface Description
<i>svi_ip_addr</i>	(Optional) IP Address
<i>svi_ip_mask</i>	(Optional) IP address mask
<i>svi_mtu</i>	(Optional) MTU size in bytes
<i>svi_bw</i>	(Optional) Bandwidth in kilobits
<i>svi_delay</i>	(Optional) Throughput delay (tens of microseconds)
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_carrier_delay_sec</i>	(Optional) carrier delay value in seconds
<i>svi_carrier_delay_msec</i>	(Optional) carrier delay value in milli-seconds
<i>svi_arp_type</i>	(Optional) ARP type
<i>svi_arp_timeout</i>	(Optional) ARP timeout value

<i>svi_time_last_cleared</i>	(Optional) Time last cleared
TABLE_sec_vlan	(Optional) secondary vlans
<i>sec_vlan</i>	(Optional) vlan id
<i>sec_vlan_type</i>	(Optional) secondary vlan type
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts

<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts

<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched



<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes

<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets

---

<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_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	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> ] [
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] [ <loop_out_carriers> ] <admin-state> { <tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type>
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<tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate>
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<overlay_tx_bitrate> ][ <overlay_tx_pktrate> ] <switchport> ]
```

**Syntax Description**

**Syntax Description**

show	Show running system information
interface	Show interface status and information
controller	(Optional) Show controller configured interfaces
quick	(Optional) Show info of interface skipping stats
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>switchport</i>	(Optional) Switchport enabled
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>admin_state</i>	(Optional) admin state
<i>share_state</i>	(Optional) Interface ownership
<i>parent_interface</i>	(Optional) parent interface

<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>medium</i>	(Optional) medium type
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_sw_t_monitor</i>	(Optional) Switchport Monitor
<i>eth_etherType</i>	(Optional) EtherType

<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>eth_load_interval1</i>	(Optional) interval 1 timer value in sec
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_load_interval2</i>	(Optional) interval 2 timer value in sec
<i>eth_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_swt_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_ctr</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
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>admin_state</i>	(Optional) admin state
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>share_state</i>	(Optional) Interface ownership
<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address

<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_swt_monitor</i>	(Optional) Switchport Monitor
<i>eth_etherstype</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>nve_addr</i>	(Optional) Peer address
<i>nve_addr_mask</i>	(Optional) Peer address mask

<i>nve_vcid</i>	(Optional) VCID
<i>nve_mtu</i>	(Optional) MTU
<i>nve_bandwidth</i>	(Optional) Bandwidth
<i>nve_encap_str</i>	(Optional) Encap type
<i>nve_vrf</i>	(Optional) VRF
<i>nve_src_addr</i>	(Optional) Source address
<i>nve_dst_addr</i>	(Optional) Destination address
<i>nve_last_link_flap</i>	(Optional) Last link flap
<i>nve_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>nve_load_interval</i>	(Optional) Load interval
<i>nve_rx_ucastpkts</i>	(Optional) Received 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
<u>__readonly__</u>		(Optional) Read Only
<i>interface</i>		(Optional) Interface index
<u>TABLE_interface</u>		(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>
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] [ <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_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
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] [ <eth_outpkts> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outgiants> ] [
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] [ <eth_outerr> ] [ <eth_deferred> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_single_coll> ] [
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] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [
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<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [
<eth_insw_switched> ] [ <eth_throtles> ] [ <eth_frame> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched>
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```

```
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<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> ] [
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<svi_average_input_bits> ] [ <svi_average_input_packets> ] [ <svi_average_output_bits> ] [
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<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

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
<code>__readonly__</code>	(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

---

*loop\_out\_pkts* (Optional) Output packets

---

*loop\_out\_bytes* (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 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_runs> ] [ <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_fcove_in_pkts> ] [ <eth_fcove_in_octets> ] [
<eth_fcove_out_pkts> ] [ <eth_fcove_out_octets> ] [ <eth_nfcove_in_pkts> ] [ <eth_nfcove_in_octets> ] [
<eth_nfcove_out_pkts> ] [ <eth_nfcove_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
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
rx_total_pkts	(Optional) total input packets
tx_total_pkts	(Optional) total output packets
rx_ucast_pkts	(Optional) input unicasts
rx_mcast_pkts	(Optional) input multicasts
rx_bcast_pkts	(Optional) input broadcasts
rx_octets	(Optional) input bytes
tx_ucast_pkts	(Optional) output unicasts
tx_mcast_pkts	(Optional) output multicasts
tx_bcast_pkts	(Optional) output broadcasts
tx_octets	(Optional) output bytes
rxtx_pkts_64octets	(Optional) all pkts between 0 and 64 bytes
rxtx_pkts_65_127octets	(Optional) all pkts between 65 and 127 bytes
rxtx_pkts_128_255octets	(Optional) all pkts between 128 and 255 bytes
rxtx_pkts_256_511octets	(Optional) all pkts between 256 and 511 bytes
rxtx_pkts_512_1023octets	(Optional) all pkts between 512 and 1023 bytes
rxtx_pkts_1024_1518octets	(Optional) all pkts between 1024 and 1518 bytes
rxtx_pkts_1519_1548octets	(Optional) all pkts between 1519 and 1548 bytes
rx_trunk_frames	(Optional) input trunk pkts
tx_trunk_frames	(Optional) output trunk pkts
rx_drop_events	(Optional) dropped pkts
rxtx_giants	(Optional) giants
eth_load_intervall_rx	(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		
<code>show</code>		Show running system information
<code>interface</code>		Show interface status and information
<code>debounce</code>		Show interface debounce time information
<code>__readonly__</code>	(Optional)	Read Only
<code>interface</code>	(Optional)	Interface index
<code>TABLE_interface</code>	(Optional)	show interface
<code>debounce</code>	(Optional)	Debounce time
<code>debounce_val</code>	(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
	TABLE_interface	(Optional) show interface
	<i>state</i>	(Optional) Interface state
	<i>protocol</i>	(Optional) Protocol
	<i>desc</i>	(Optional) Description

**Command Mode**

- /exec

# show interface description

```
show interface <ifrange> description [ __readonly__ TABLE_interface <interface> <state> <protocol> <desc> ]
```

## Syntax Description

### 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	
<i>TABLE_interface</i>	(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	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
<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 <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



---

<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
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_9	(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> ] [ <cisroid> ] [ <cisroid_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
<i>__readonly__</i>	(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
<i>TABLE_interface</i>	(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

---

*stp fwd\_vlans* (Optional) STP Forwarding VLANs

---

*fabricpath\_vlans* (Optional) FabricPath VLANs

---

*vtp pruning\_vlans* (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	
<i>__readonly__</i>	(Optional)	
<i>TABLE_vrf</i>	(Optional)	
<i>vrf</i>	(Optional)	
<i>rc4</i>	(Optional)	
<i>rc6</i>	(Optional)	
<i>TABLE_route</i>	(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	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	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**

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	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	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-fbrport> <tx-fixup-core> <tx-fixup-server>
<tx-fixup-rarp> <tx-anycast-glean> <tx-mbuf-fail> <tx-ctxt-not-crted> <tx-bad-ctxt-id> <tx-invalid-ifindex>
<tx-invalid-sip> <tx-invalid-dip> <tx-own-ip> <tx-unattached-ip> <tx-adj-create-fail> <tx-null-sip>
<tx-null-smac> <tx-client-enq-fail> <tx-dest-unreachable> <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-crtid</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**

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
suppression-cache	arp-suppression-cache
detail	show details
summary	show summary
statistics	show statistics
local	show local entries
remote	show remote entries
vlan	(Optional) L2vlan
<i>vlan_id</i>	(Optional) Vlan
<u>__readonly__</u>	(Optional)
TABLE_arp-suppression	(Optional)
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-mccc>
] [ <arp-tun-pkt-im-api-fail> ] [ <arp-tun-pkt-drp-ctxt-inv> ] [ <arp-tun-pkt-drp-mct-dwn> ] [
<arp-tun-pkt-rcv-drp-mbuf-op-fail> ] [ <arp-tun-pkt-snd-drp-mbuf-op-fail> ] [ <arp-tun-pkt-snd-drp-tunnel>
] [ <arp-tun-pkt-snd-drp-ce> ] [ <arp-tun-pkt-snd-drp-inv-gpc> ] [ <arp-tun-pkt-rcv-drp-inv-gpc> ] [
<arp-tun-pkt-sys-mccc-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	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
arp-pro-drp-pull-disable	(Optional)
arp-pro-drp-push-msg-disable	(Optional)
arp-pro-ign-snd-pull-disabe	(Optional)
arp-ign-snd-push-disable	(Optional)
arp-drp-im-fail	(Optional)
arp-drp-mcecm-fail	(Optional)
arp-drp-invalid-pc-iod	(Optional)
arp-drp-pt-lookup-fail	(Optional)
arp-drp-resp-fail-no-mct	(Optional)
arp-drp-resp-fail	(Optional)
arp-resp-sent	(Optional)
arp-resp-recvd	(Optional)
arp-resp-recv-err	(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)
<i>TABLE_cl</i>	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

## Command Mode

- /exec

# show ip debug

show ip debug

## Syntax Description

<b>Syntax Description</b>	show Show running system information
	ip Display IP information
	debug Display IP debug-filter configuration

## Command Mode

- /exec

# show ip dhcp global statistics

```
show ip dhcp global statistics [ __readonly__ <pkts_processed> <pkts_recvd_through_cfsoe> <pkts_fwded>
<pkts_cfsoe_fwded> <pkts_dropped> <pkts_dropped_from_untrusted_ports>
<pkts_dropped_src_mac_chk_fail> <pkts_dropped_opt82_ins_fail> <pkts_dropped_unknown_op_intf>
<pkts_dropped_unknown_pkt> <pkts_dropped_no_trust_inf> <pkts_dropped_unknown_pkt>
<pkts_dropped_relay_disable> <pkts_dropped_no_binding_entry> <pkts_dropped_interface_error>
<pkts_dropped_max_hops_exceeded> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Show the IP features of the system
dhcp		Show information about DHCP
global		DHCP global stats
statistics		Statistics related to DHCP
<i>__readonly__</i>		(Optional) Read only
<i>pkts_processed</i>		(Optional)
<i>pkts_recvd_through_cfsoe</i>		(Optional)
<i>pkts_fwded</i>		(Optional)
<i>pkts_cfsoe_fwded</i>		(Optional)
<i>pkts_dropped</i>		(Optional)
<i>pkts_dropped_from_untrusted_ports</i>		(Optional)
<i>pkts_dropped_src_mac_chk_fail</i>		(Optional)
<i>pkts_dropped_opt82_ins_fail</i>		(Optional)
<i>pkts_dropped_unknown_op_intf</i>		(Optional)
<i>pkts_dropped_unknown_pkt</i>		(Optional)
<i>pkts_dropped_no_trust_inf</i>		(Optional)
<i>pkts_dropped_relay_disable</i>		(Optional)
<i>pkts_dropped_no_binding_entry</i>		(Optional)
<i>pkts_dropped_interface_error</i>		(Optional)
<i>pkts_dropped_max_hops_exceeded</i>		(Optional)

## Command Mode



- /exec

# show ip dhcp relay

```
show ip dhcp relay [ __readonly__ <relay_service_enable> <relay_opt82_enable> <relay_opt82_customize>
<relay_subopt_VPN_enable> <relay_subopt_type_cisco_enable> <global_smart-relay_enable>
<global_relay_trusted_enable> <relay_trusted_port_enable> <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**

<b>Syntax Description</b>	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
	vrfname	(Optional) vrfname
	ifname	(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
<i>__readonly__</i>	(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	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

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	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)

---

TABLE\_asn (Optional)

---

*asn* (Optional)

---

TABLE\_vrf (Optional)

---

*vrf* (Optional)

---

TABLE\_rmap (Optional)

---

*name* (Optional)

---

*action* (Optional)

---

*seq\_num* (Optional)

---

TABLE\_cmd (Optional)

---

*command* (Optional)

---

*compare\_count* (Optional)

---

*match\_count* (Optional)

---

*total\_accept\_count* (Optional)

---

*total\_reject\_count* (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)

---

*acks\_sent* (Optional)

---

*acks\_rcvd* (Optional)

---

*max\_inqueue\_depth* (Optional)

---

*inqueue\_drops* (Optional)

---

*sia\_queries\_sent* (Optional)

---

*sia\_queries\_rcvd* (Optional)

---

*sia\_replies\_sent* (Optional)

---

*sia\_replies\_rcvd* (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
<i>ip</i>	Display IP information
<i>fib</i>	Forwarding information
<i>adjacency</i>	display adjacency information
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next hop
<i>module</i>	(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**

<b>Syntax Description</b>	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**

<b>Syntax Description</b>	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)
<i>TABLE_vrf</i>	(Optional)
<i>vrf</i>	(Optional)
<i>entry-count</i>	(Optional)
<i>TABLE_if</i>	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>ip-sum</i>	(Optional)
<i>addr</i>	(Optional)
<i>querier</i>	(Optional)

<i>q-ver</i>	(Optional)
<i>next-query</i>	(Optional)
<i>expires</i>	(Optional)
<i>mc</i>	(Optional)
<i>ver</i>	(Optional)
<i>host-ver</i>	(Optional)
<i>qi</i>	(Optional)
<i>cqi</i>	(Optional)
<i>mrt</i>	(Optional)
<i>cmrt</i>	(Optional)
<i>sqi</i>	(Optional)
<i>csqi</i>	(Optional)
<i>sqc</i>	(Optional)
<i>lmmrt</i>	(Optional)
<i>lmqc</i>	(Optional)
<i>gt</i>	(Optional)
<i>cgt</i>	(Optional)
<i>qt</i>	(Optional)
<i>cqt</i>	(Optional)
<i>uri</i>	(Optional)
<i>rv</i>	(Optional)
<i>crv</i>	(Optional)
<i>rll</i>	(Optional)
<i>rc</i>	(Optional)
<i>v1rr</i>	(Optional)
<i>v2qs</i>	(Optional)
<i>v2qr</i>	(Optional)
<i>v2rs</i>	(Optional)
<i>v2rr</i>	(Optional)

<i>v2ls</i>	(Optional)
<i>v2lr</i>	(Optional)
<i>v3qs</i>	(Optional)
<i>v3qr</i>	(Optional)
<i>v3rs</i>	(Optional)
<i>v3rr</i>	(Optional)
<i>v2ggdest</i>	(Optional)
<i>v3ggdest</i>	(Optional)
<i>cse</i>	(Optional)
<i>ple</i>	(Optional)
<i>lsip</i>	(Optional)
<i>scf</i>	(Optional)
<i>qnq</i>	(Optional)
<i>rvm</i>	(Optional)
<i>qvm</i>	(Optional)
<i>uit</i>	(Optional)
<i>v1gdam</i>	(Optional)
<i>v2gdam</i>	(Optional)
<i>v3dai</i>	(Optional)
<i>ra</i>	(Optional)
<i>static-group-map</i>	(Optional)
<i>join-group-map</i>	(Optional)
<i>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->Iindex 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**

<b>Syntax Description</b>	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		
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	
<i>__readonly__</i>	(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
<i>interface</i>	(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
	vlan	(Optional) Specify VLAN
	bridge-domain	(Optional) Display BD IGMP snooping membership information
	bdid	(Optional) Specify BD
	__readonly__	(Optional)
	vdc	(Optional)
	enabled	(Optional)
	grepsup	(Optional)
	gv3repsup	(Optional)
	glinklocalgrpsup	(Optional)
	rle	(Optional)
	TABLE_vlan	(Optional)
	vlan-id	(Optional)
	description	(Optional) description, if any
	snoop-on	(Optional)
	qa	(Optional)
	qv	(Optional)
	qi	(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)
<i>TABLE_vlan</i>	(Optional)
<i>vlan-id</i>	(Optional)
<i>rports</i>	(Optional)
<i>rtrPortFlag</i>	(Optional)
<i>oifs</i>	(Optional)
<i>TABLE_port</i>	(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)
<i>TABLE_global</i>	(Optional)
<i>configured</i>	(Optional)
<i>operational</i>	(Optional)
<i>TABLE_vlan</i>	(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
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	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	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
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
explicitTrackingTable	Show mib table cisVlanExplicitTrackingTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisVlanExplicitTrackingTable</i>	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib table index cisVlanIndex
<i>cisVlanExplicitTrackingEnabled</i>	(Optional) mib object cisVlanExplicitTrackingEnabled
<i>cisVlanExplicitTrackingLimit</i>	(Optional) mib object cisVlanExplicitTrackingLimit

## Command Mode

- /exec

# show ip igmp snooping snmp mib fallBackTime

show ip igmp snooping snmp mib fallBackTime [ \_\_readonly\_\_ <cisFallbackTime> ]

## Syntax Description

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
__readonly__		(Optional) Read Only
<i>cisFastLeaveEnabled</i>		(Optional) mib object cisFastLeaveEnabled

**Command Mode**

- /exec

# show ip igmp snooping snmp mib filterStatsTable

```
show ip igmp snooping snmp mib filterStatsTable [ interface <ifIndex-in> vlan <cisFilterStatsVlanNumber-in>
] [ __readonly__ TABLE_cisFilterStatsTable <ifIndex-out> <cisFilterStatsVlanNumber-out>
<cisFilterAccessGroupDenied> <cisFilterLimitDenied> <cisFilterTotalLimitDenied>
<cisFilterMinVersionDenied> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
filterStatsTable	Display VLAN/BD Filter Group
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
vlan	(Optional) Display Interface access group VLAN/BD information
<i>cisFilterStatsVlanNumber-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<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	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
__readonly__		(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	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)
<i>TABLE_cisMcastGroupTable</i>	(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
__readonly__	(Optional)
TABLE_ cisMcastRouterConfigTable	(Optional)
<i>cisMcastRouterConfigVlanIndex-out</i>	(Optional) mib table index cisMcastRouterConfigVlanIndex
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisMcastRouterConfigRouterType</i>	(Optional) mib object cisMcastRouterConfigRouterType
<i>cisMcastRouterConfigStorageType</i>	(Optional) mib object cisMcastRouterConfigStorageType
<i>cisMcastRouterConfigRowStatus</i>	(Optional) mib object cisMcastRouterConfigRowStatus

## Command Mode

- /exec



# show ip igmp snooping snmp mib multicastGroupConfigTable

```
show ip igmp snooping snmp mib multicastGroupConfigTable [ vlan <cisMulticastGroupConfVlanIndex-in>
<cisMulticastGroupConfCeVlanIndex-in> <cisMulticastGroupConfAddressType-in>
<cisMulticastGroupConfAddress-in> <cisMulticastGroupConfSourceAddress-in>
<cisMulticastGroupConfPortRange-in> ] [ __readonly__ TABLE_cisMulticastGroupConfigTable
<cisMulticastGroupConfVlanIndex-out> <cisMulticastGroupConfCeVlanIndex-out>
<cisMulticastGroupConfAddressType-out> <cisMulticastGroupConfAddress-out>
<cisMulticastGroupConfSourceAddress-out> <cisMulticastGroupConfPortRange-out>
<cisMulticastGroupConfPortList> <cisMulticastGroupConfStorageType> <cisMulticastGroupConfRowStatus>
]
```

## Syntax Description

### 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 <i>cisMulticastGroupConfSourceAddress</i>
<i>cisMulticastGroupConfPortRange-out</i>	(Optional) mib table index <i>cisMulticastGroupConfPortRange</i>
<i>cisMulticastGroupConfPortList</i>	(Optional) mib object <i>cisMulticastGroupConfPortList</i>
<i>cisMulticastGroupConfStorageType</i>	(Optional) mib object <i>cisMulticastGroupConfStorageType</i>
<i>cisMulticastGroupConfRowStatus</i>	(Optional) mib object index <i>cisMulticastGroupConfRowStatus</i>

---

**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> <cisMulticastGroupIgmpVersion>
<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	Description
show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
vlanconfigtable	Show mib table cisVlanConfigTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisVlanConfigTable</i>	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib table index cisVlanIndex
<i>cisVlanIgmpSnoopingEnabled</i>	(Optional) mib object cisVlanIgmpSnoopingEnabled
<i>cisVlanFastLeaveEnabled</i>	(Optional) mib object cisVlanFastLeaveEnabled
<i>cisVlanIgmpSnoopingOperMode</i>	(Optional) mib object cisVlanIgmpSnoopingOperMode
<i>cisVlanIgmpSnoopingLearningMode</i>	(Optional) mib object cisVlanIgmpSnoopingLearningMode
<i>cisVlanReportSuppressionEnabled</i>	(Optional) mib object cisVlanReportSuppressionEnabled
<i>cisVlanLeaveQueryInterval</i>	(Optional) mib object cisVlanLeaveQueryInterval
<i>cisVlanLastMemberQueryCount</i>	(Optional) mib object cisVlanLastMemberQueryCount
<i>cisVlanRobustnessVariable</i>	(Optional) mib object cisVlanRobustnessVariable
<i>cisVlanTimeToLiveCheckEnabled</i>	(Optional) mib object cisVlanTimeToLiveCheckEnabled
<i>cisVlanRouterAlertCheckEnabled</i>	(Optional) mib object cisVlanRouterAlertCheckEnabled

**Command Mode**

- /exec

# show ip igmp snooping statistics

```
show ip igmp snooping statistics [ global | vlan <vlan> | bridge-domain <bdid> ] [ __readonly__ <pr> <inv_pkt>
<pnv> <pf> <vpcdrqs> <vpcdrqr> <vpcdrqf> <vpcdrus> <vpcdrur> <vpcdruf> <vpccfssf> <vpccfsrcs>
<vpccfsrr> <vpccfsrf> <vpccfsrfr> <vpccfsurlr> <vpccfsurlr> <vpccfsurlf> <vpccfsrslr> <vpccfsrslr>
<vpccfsrslf> <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	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

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**

<b>Syntax Description</b>	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

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
<i>__readonly__</i>	(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
__readonly__	(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	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

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)
<i>TABLE_ctx</i>	(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)
<i>TABLE_range</i>	(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> <advrtr> <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)
<i>TABLE_ctx</i>	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>TABLE_dbsum</i>	(Optional)
<i>TABLE_dbsum_area</i>	(Optional)
<i>area</i>	(Optional)
<i>TABLE_dbsum_area_lsa</i>	(Optional)
<i>area_lsa_name</i>	(Optional)
<i>area_lsa_count</i>	(Optional)
<i>area_lsa_total</i>	(Optional)
<i>TABLE_dbsum_all</i>	(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 database logs	
spf	SPF calculation logs	
redistribution	Redistribution logs	
ldp	LDP related logs	
te	MPLS TE related logs	
rib	RIB related logs	
hello	Hello related logs	
cli	Cli logs	
spf-trigger	SPF TRIGGER related logs	
objstore	DME OBJSTORE related logs	

## Command Mode

- /exec

# show ip ospf event-history detail

```
show ip ospf [ <tag> ] [ internal ] event-history detail [ statistics ]
```

## Syntax Description

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)



---

*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)

---

*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> <advrt>
[ <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

# show ip ospf lsa-content-changed-list

```
show ip ospf [ <tag> ] lsa-content-changed-list { <ip-addr> | <neighbor-name> } <interface> [ __readonly__
[ TABLE_ctx <ptag> <cname> [ TABLE_lschg <nbr_rid> <intf> <nbr_addr> [ TABLE_lsa [ <type> ] [
<lsid> ] [ <advtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ] ] ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
ip	Display IP information	
ospf	Display OSPF status and configuration	
tag	(Optional) Process tag	
lsa-content-changed-list	LSAs that changed contents	
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_lschg	(Optional)	
nbr_rid	(Optional)	
intf	(Optional)	
nbr_addr	(Optional)	
TABLE_lsa	(Optional)	
type	(Optional)	
lsid	(Optional)	
advtr	(Optional)	
seqno	(Optional)	
cksum	(Optional)	
age	(Optional)	

**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	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)

---

<i>addr</i>	(Optional)
<i>intf</i>	(Optional)
<i>multiarea</i>	(Optional)

**Command Mode**

- /exec



# show ip ospf neighbors detail

```
show ip ospf [ <tag> ] neighbors [ <interface> ] [ <neighbor> | <neighbor-name> ] detail [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ private ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_nbr <rid>
<addr> <area> <intf> <state> <transition> <lastchange> [ <bfd_state> ] [ <priority> ] [ <ifid> ] [ <dr> ] [
<dc> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [ <dbdallsent> ] [ <dbdallacked> ] [
<lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] <hellooptions> <dbdoptions> <lastnonhello> [ <deadtimer>
] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer>
] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq>
] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [ <sendlsreqreply> ] ] ]
```

## 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
neighbors	Neighbor list
interface	(Optional) OSPF enabled interface
neighbor	(Optional) Router ID of neighbor
neighbor-name	(Optional) DNS Name of the 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)
addr	(Optional)

---

*area* (Optional)

---

*intf* (Optional)

---

*state* (Optional)

---

*transition* (Optional)

---

*lastchange* (Optional)

---

*bfd\_state* (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)

---

*dbdoptions* (Optional)

---

*lastnonhello* (Optional)

---

*deadtimer* (Optional)

---

*acingtimer* (Optional)

---

*dbdrxmtimer* (Optional)

---

*reqrxmtimer* (Optional)

---

*lsutimer* (Optional)

---

*rerxmtimer* (Optional)

---

*fastrerxmtimer* (Optional)

---

*lsacktimer* (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	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

# show ip ospf retransmission-list

```
show ip ospf [ <tag> ] retransmission-list { <routerid> | <router-name> } <interface> [ __readonly__ [
TABLE_ctx <ptag> <cname> [ TABLE_rxmit <nbr_rid> <intf> <nbr_addr> [ <timer_running> ] [ <timer_due>
] [ TABLE_lsa [ <type> ] [ <lsid> ] [ <advrtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ] ]
```

## Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	ospf	Display OSPF status and configuration
	tag	(Optional) Process tag
	retransmission-list	Link state retransmission list
	routerid	Neighbor router ID
	router-name	DNS Name of the router
	interface	OSPF enabled interface
	__readonly__	(Optional)
	TABLE_ctx	(Optional)
	ptag	(Optional)
	cname	(Optional)
	TABLE_rxmit	(Optional)
	nbr_rid	(Optional)
	intf	(Optional)
	nbr_addr	(Optional)
	timer_running	(Optional)
	timer_due	(Optional)
	TABLE_lsa	(Optional)
	type	(Optional)
	lsid	(Optional)
	advrtr	(Optional)
	seqno	(Optional)
	cksum	(Optional)

---

*age* (Optional)

---

**Command Mode**

- /exec



<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>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)
<i>dest_ip</i>	(Optional)
<i>src_ip</i>	(Optional)
<i>ifnum</i>	(Optional)

**Command Mode**

- /exec

## show ip ospf statistics

```
show ip ospf [ <tag> ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_stats
<ptag> <cname> <last_clear> <rid_change> <dr_elections> <older_lsa_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
tag	(Optional) Process tag
interface	(Optional) OSPF enabled interface
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Packet counters
__readonly__	(Optional)
TABLE_traf	(Optional)
ptag	(Optional)
cname	(Optional)
last_clear	(Optional)
ifname	(Optional)
pkt_in	(Optional)

<i>pkt_out</i>	(Optional)
<i>lsu_first_trans</i>	(Optional)
<i>lsu_retrans</i>	(Optional)
<i>lsu_for_lsreq</i>	(Optional)
<i>lsu_nbr_trans</i>	(Optional)
<i>throttle_out</i>	(Optional)
<i>throttle_out_token</i>	(Optional)
<i>throttle_out_ip</i>	(Optional)
<i>lsa_ignored</i>	(Optional)
<i>lsa_dropped_spf</i>	(Optional)
<i>lsa_dropped_gr</i>	(Optional)
<i>pkt_drops_in</i>	(Optional)
<i>pkt_drops_out</i>	(Optional)
<i>pkt_errors_in</i>	(Optional)
<i>pkt_errors_out</i>	(Optional)
<i>hello_errors_in</i>	(Optional)
<i>dbds_errors_in</i>	(Optional)
<i>lsreqs_errors_in</i>	(Optional)
<i>lsus_errors_in</i>	(Optional)
<i>lsacks_errors_in</i>	(Optional)
<i>pkt_unknown_in</i>	(Optional)
<i>pkt_unknown_out</i>	(Optional)
<i>pkt_no_ospf_intf</i>	(Optional)
<i>bad_version</i>	(Optional)
<i>bad_crc</i>	(Optional)
<i>dup_rtr_id</i>	(Optional)
<i>dup_src_addr</i>	(Optional)
<i>invalid_src_addr</i>	(Optional)
<i>invalid_dst_addr</i>	(Optional)

<i>non_existing_nbr</i>	(Optional)
<i>pkt_passive_intf</i>	(Optional)
<i>wrong_area</i>	(Optional)
<i>invalid_pkt_len</i>	(Optional)
<i>nbr_changed_routerid_ipaddr</i>	(Optional)
<i>nbr_changed_interfaceid</i>	(Optional)
<i>bad_auth</i>	(Optional)
<i>bad_reserved</i>	(Optional)
<i>pkt_no_vrf</i>	(Optional)
<i>hellos_in</i>	(Optional)
<i>dbds_in</i>	(Optional)
<i>lsreqs_in</i>	(Optional)
<i>lsus_in</i>	(Optional)
<i>lsacks_in</i>	(Optional)
<i>hellos_out</i>	(Optional)
<i>dbds_out</i>	(Optional)
<i>lsreqs_out</i>	(Optional)
<i>lsus_out</i>	(Optional)
<i>lsacks_out</i>	(Optional)
<i>hellos_in_hq</i>	(Optional)
<i>dbds_in_hq</i>	(Optional)
<i>lsreqs_in_flq</i>	(Optional)
<i>lsus_in_flq</i>	(Optional)
<i>lsacks_in_flq</i>	(Optional)
<i>lsas_in_dbds_in</i>	(Optional)
<i>lsas_in_lsreqs_in</i>	(Optional)
<i>lsas_in_lsus_in</i>	(Optional)
<i>lsas_in_lsacks_in</i>	(Optional)
<i>lsas_in_dbds_out</i>	(Optional)

---

*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

# show ip ospf virtual-links

```
show ip ospf [ <tag> ] virtual-links [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_vlink <name> <nbr_rid> <if_state> <transit_area> <nh_intf> <nbr_addr> [
<transit_area_stub> ] [ <transit_area_nssa> ] <addr> [ <masklen> ] <area> [ <if_cfg> ] <state_str> <type_str>
<cost> <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [
<bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr> ] [ <hello_interval> ] [
<dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <pacing_timer>
] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer> ] [ <auth_type> ] [ <keychain_name> ] [
<keychain_ready> ] [ <auth_md5_keyid> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <dc_enabled> ] [ <state>
] [ <transition> ] [ <lastchange> ] [ <priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [
<dbdallsentacked> ] [ <dbdallsent> ] [ <dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts>
] [ <helloptions> ] [ <dbdoptions> ] [ <lastnonhello> ] [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ]
[ <reqrxtimer> ] [ <lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [
<helpermode> ] [ <helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt>
] [ <sendlsack> ] [ <sendlsreqreply> ] ] ] ]
```

## 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
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>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)

---

*is-pim-enabled* (Optional)

---

*is-border* (Optional)

---

*if-addr-summary* (Optional)

---

*if-status* (Optional)

---

*dr-priority* (Optional)

---

*no-dr-priority* (Optional)

---

*hello-interval-sec* (Optional)

---

*hello-interval-msec* (Optional)

---

*hello-timer* (Optional)

---

*holdtime-sec* (Optional)

---

*holdtime-msec* (Optional)

---

*genid* (Optional)

---

*isauth-config* (Optional)

---

*is-passive* (Optional)

---

*nbr-policy-name* (Optional)

---

*jp-in-policy-name* (Optional)

---

*jp-out-policy-name* (Optional)

---

*last-cleared* (Optional)

---

*hello-sent* (Optional)

---

*hello-rcvd* (Optional)

---

*hello-early-sent* (Optional)

---

*jp-sent* (Optional)

---

*jp-rcvd* (Optional)

---

*assert-sent* (Optional)

---

*assert-rcvd* (Optional)

---

*graft-sent* (Optional)

---

*graft-rcvd* (Optional)

---

*graft-ack-sent* (Optional)

---

*graft-ack-rcvd* (Optional)

---

<i>df-offer-sent</i>	(Optional)
<i>df-offer-rcvd</i>	(Optional)
<i>df-winner-sent</i>	(Optional)
<i>df-winner-rcvd</i>	(Optional)
<i>df-backoff-sent</i>	(Optional)
<i>df-backoff-rcvd</i>	(Optional)
<i>pass-sent</i>	(Optional)
<i>pass-rcvd</i>	(Optional)
<i>cksum-errors</i>	(Optional)
<i>invalid-errors</i>	(Optional)
<i>invalid-df-errors</i>	(Optional)
<i>auth-failed</i>	(Optional)
<i>pak-len-errors</i>	(Optional)
<i>ver-errors</i>	(Optional)
<i>pkts-self</i>	(Optional)
<i>pkts-non-nbr</i>	(Optional)
<i>pkts-on-passive</i>	(Optional)
<i>jp-rcvd-on-rpf</i>	(Optional)
<i>jp-rcvd-no-rp</i>	(Optional)
<i>jp-rcvd-wrong-rp</i>	(Optional)
<i>jp-rcvd-for-ssm</i>	(Optional)
<i>jp-rcvd-for-bidir</i>	(Optional)
<i>jp-in-policy-filter</i>	(Optional)
<i>jp-out-policy-filter</i>	(Optional)

**Command Mode**

- /exec

# show ip pim 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->Iindex 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

<b>Syntax Description</b>	<code>show</code> Show running system information
	<code>ip</code> Display IP information
	<code>pim</code> Display PIM status and configuration
	<code>lisp</code> LISP related information
	<code>encap</code> 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	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)

---

*data\_mdt\_join\_interval* (Optional)

---

*data\_switchover\_interval* (Optional)

---

*data\_holddown\_interval* (Optional)

---

*data\_timeout\_interval* (Optional)

---

*mdt\_src* (Optional)

---

*mdt\_src\_if* (Optional)

---

*bgp\_rd* (Optional)

---

*bgp\_rd\_set* (Optional)

---

*send\_join\_count* (Optional)

---

*rcvd\_join\_count* (Optional)

---

TABLE\_data\_mdt (Optional)

---

*grange\_prefix* (Optional)

---

*grange\_mask\_len* (Optional)

---

*threshold* (Optional)

---

*policy\_name* (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)

---

<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>longest-hello-intvl</i>	(Optional)
<i>bidir-capable</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)

---

**Command Mode**

- /exec

# show ip pim oif-list

```
show ip pim oif-list <group> [ <source> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <vrf-name> { TABLE_grp <mcast-addr> <incoming-intf> <rpf-nbr> <timeout-interval>
<oif-list-count> [ { TABLE_oiflist <oif-name> } ] <timeout-list-count> [ { TABLE_timeoutlist
<timeoutoif-name> } ] <immediate-list-count> [ { TABLE_immediatelist <immediateoif-name> } ]
<immediate-timeout-list-count> [ { TABLE_immediatettimeoutlist <immediatettimeoutoif-name> } ]
<mgr-prune-list-count> [ { TABLE_mgrprunelist <mgrprunelistoif-name> } ] }
```

## Syntax Description

Syntax Description	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
source	(Optional) Source address to display
group	Group address to display
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name	(Optional)
TABLE_grp	(Optional)
mcast-addr	(Optional)
incoming-intf	(Optional)
rpf-nbr	(Optional)
timeout-interval	(Optional)
oif-list-count	(Optional)
TABLE_oiflist	(Optional)
oif-name	(Optional)
timeout-list-count	(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-autorp-enabled</i>	(Optional)
<i>is-autorp-listen-only</i>	(Optional)
<i>is-autorp-forward-only</i>	(Optional)
<i>are-we-autorp</i>	(Optional)
<i>autorp-address</i>	(Optional)
<i>is-autorp-address</i>	(Optional)
<i>autorp-dis-timer</i>	(Optional)
<i>autorp-up-time</i>	(Optional)
<i>autorp-expire-time</i>	(Optional)
<i>rp-cand-policy-name</i>	(Optional)
<i>bsr-policy-name</i>	(Optional)
<i>rp-announce-policy-name</i>	(Optional)
<i>rp-discovery-policy-name</i>	(Optional)
TABLE_anycast_rp	(Optional)
<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>autorp-expires</i>	(Optional)
<i>bsr-rp-expires</i>	(Optional)
<i>autorp-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-atorp-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	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		
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

# show ip process

```
show ip process [ api ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_ip_pro_vrf
[ { <pro-cntxt-name> <pro-cntxt-id> <pro-base-tid> <pro-auto-disc> <pro-atuo-add> <pro-null-bcast>
<auto-punt-bcast> <static-disc> <static-def-route> <ip-unreach> } ] [ TABLE_pro_api [ <api-vrf>
<api-cntxt-id> <api-base-tid> <api-ip-addr> <api-rtr-id-iod> ] ] [ TABLE_iod [ { <entry-iod> } ] ] [
TABLE_local_addr [ { <local-addr> } ] ] ] [ TABLE_ip_pro_all { <all-pro-cntxt-name> <all-pro-cntxt-id>
} ] ]
```

## Syntax Description

Syntax Description	show	Show running system information
	ip	Display IP information
	process	Display IP global information
	api	(Optional) Show api values
	vrf	(Optional) Display per-VRF information
	all	(Optional) Display all VRFs
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	<i>__readonly__</i>	(Optional)
	TABLE_ip_pro_vrf	(Optional)
	<i>pro-cntxt-name</i>	(Optional)
	<i>pro-cntxt-id</i>	(Optional)
	<i>pro-base-tid</i>	(Optional)
	<i>pro-auto-disc</i>	(Optional)
	<i>pro-atuo-add</i>	(Optional)
	<i>pro-null-bcast</i>	(Optional)
	<i>auto-punt-bcast</i>	(Optional)
	<i>static-disc</i>	(Optional)
	<i>static-def-route</i>	(Optional)
	<i>ip-unreach</i>	(Optional)
	TABLE_pro_api	(Optional)
	<i>api-vrf</i>	(Optional)

<i>api-cntxt-id</i>	(Optional)
<i>api-base-tid</i>	(Optional)
<i>api-ip-addr</i>	(Optional)
<i>api-rtr-id-iod</i>	(Optional)
TABLE_iod	(Optional)
<i>entry-iod</i>	(Optional)
TABLE_local_addr	(Optional)
<i>local-addr</i>	(Optional)
TABLE_ip_pro_all	(Optional)
<i>all-pro-cntxt-name</i>	(Optional)
<i>all-pro-cntxt-id</i>	(Optional)

**Command Mode**

- /exec

# show ip rip

```
show { ipv6 | ip } rip [ instance <inst> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_inst <inst-name> TABLE_vrf <vrf> <port> <mcast-grp> <admin-dist> <update-tmr> <expire-tmr>
<garbage-tmr> <def-metric> <max-paths> <def-rt-distrib> <def-distrib-always> <process-disabled>
<out-of-mem> [ TABLE_afi <af> { TABLE_interface <if-name> } TABLE_redistrib <redistributing> {
TABLE_clients <pibName> <policy> } ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>port</i>	(Optional)
<i>mcast-grp</i>	(Optional)
<i>admin-dist</i>	(Optional)
<i>update-tmr</i>	(Optional)
<i>expire-tmr</i>	(Optional)
<i>garbage-tmr</i>	(Optional)
<i>def-metric</i>	(Optional)

<i>max-paths</i>	(Optional)
<i>def-rt-distrib</i>	(Optional)
<i>def-distrib-always</i>	(Optional)
<i>process-disabled</i>	(Optional)
<i>out-of-mem</i>	(Optional)
TABLE_afi	(Optional)
<i>af</i>	(Optional)
TABLE_interface	(Optional)
<i>if-name</i>	(Optional)
TABLE_redistrib	(Optional)
<i>redistributing</i>	(Optional)
TABLE_clients	(Optional)
<i>pidname</i>	(Optional)
<i>policy</i>	(Optional)

**Command Mode**

- /exec

# show ip rip interface

```
show { ipv6 | ip } rip [ instance <inst> ] interface [ <interface> ] [ detail ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_inst <inst-name> TABLE_vrf <vrf> [ TABLE_inter
<if-name> <if-status> <protocol-up> <local-only> <no-addr-conf> <if-addr> <if-mask> <if-metric>
<poison-reverse> <if-passive> <route-dist-filter> <in-policy> <out-policy> [ { TABLE_auth <auth-ena>
<auth-type> <auth-keychain> } ] [ TABLE_detail <import-routes> <periodic-updates> <trigger-updates>
<out-mcast-request> <out-ucast-update> <out-ucast-request> <in-mcast-update> <in-mcast-request>
<in-ucast-update> <in-ucast-request> <bad-pkt> <bad-route> ] ] ]
```

**Syntax Description**

**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
inst	(Optional) Process ID
memory	Display RIP memory usage information
__readonly__	(Optional)
TABLE_inst	(Optional)
inst-name	(Optional)
type	(Optional)
size	(Optional)
count	(Optional)
hwm	(Optional)
slab	(Optional)
overhead	(Optional)
total	(Optional)
TABLE_total	(Optional)
total-overhead	(Optional)
total-total	(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
<i>__readonly__</i>	(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>resverr-rx</i>	(Optional)
<i>resverr-tx</i>	(Optional)
<i>pathtear-rx</i>	(Optional)
<i>pathtear-tx</i>	(Optional)
<i>resvtear-rx</i>	(Optional)
<i>resvtear-tx</i>	(Optional)
<i>resvconf-rx</i>	(Optional)
<i>resvconf-tx</i>	(Optional)
<i>rtearconf-rx</i>	(Optional)
<i>rtearconf-tx</i>	(Optional)
<i>ack-rx</i>	(Optional)
<i>ack-tx</i>	(Optional)
<i>sref-rx</i>	(Optional)
<i>sref-tx</i>	(Optional)
<i>hello-rx</i>	(Optional)
<i>hello-tx</i>	(Optional)
<i>intchal-rx</i>	(Optional)
<i>intchal-tx</i>	(Optional)
<i>intresp-rx</i>	(Optional)
<i>intresp-tx</i>	(Optional)
<i>bundle-rx</i>	(Optional)



<i>bundle-tx</i>	(Optional)
<i>bundle-path-rx</i>	(Optional)
<i>bundle-path-tx</i>	(Optional)
<i>bundle-resv-rx</i>	(Optional)
<i>bundle-resv-tx</i>	(Optional)
<i>bundle-patherr-rx</i>	(Optional)
<i>bundle-patherr-tx</i>	(Optional)
<i>bundle-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

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
__readonly__		(Optional)
TABLE_clnt_nbr_sum		(Optional)
<i>nbr-addr</i>		(Optional)
<i>nbr-type</i>		(Optional)
<i>nbr-state</i>		(Optional)
<i>hi-state</i>		(Optional)
<i>lsp-count</i>		(Optional)

**Command Mode**

- /exec

# show ip rsvp hello graceful-restart

```
show ip rsvp hello graceful-restart [ __readonly__ [ TABLE_gr <gr-state> <gr-mode> <refresh-interval>
<refresh-misses> <dscp> <restart-time> <recover-time> <max-recover-wait> ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
ip		Display IP information
rsvp		Display RSVP status
hello		Display RSVP Hello Information
graceful-restart		Display RSVP graceful-restart information
<i>__readonly__</i>		(Optional)
<i>TABLE_gr</i>		(Optional)
<i>gr-state</i>		(Optional)
<i>gr-mode</i>		(Optional)
<i>refresh-interval</i>		(Optional)
<i>refresh-misses</i>		(Optional)
<i>dscp</i>		(Optional)
<i>restart-time</i>		(Optional)
<i>recover-time</i>		(Optional)
<i>max-recover-wait</i>		(Optional)

## Command Mode

- /exec

# show ip rsvp hello instance

```
show ip rsvp hello instance [ interface <ifname> ] [ neighbor <nbr-addr> ] [ detail ] [ __readonly__ [
TABLE_hello_inst <key-inst-client-type> <nbr-ip> <if-name> <nbr-state> <lost-comm-count> <lsp-count>
<hello-interval> ] [ TABLE_hello_detail <key-det-nbr-ip> <src-ip> <hi-type> <if-name> <nbr-state>
<client-type> <lsp-count> <missed-acks-conf> <ref-interval> <src-inst> <nbr-inst> [ <rest-time> <rec-time>
] <lost-comm-count> <missed_ack_cnt> <bad-src-inst-cnt> <bad-dst-inst-cnt> <nbr-disabled-hi-cnt>
<msg-rcvd> <msg-sent> <msg-supp> ] [ TABLE_hello_passive_inst <key-psv-nbr-ip> <if-name> ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
hello	Display RSVP Hello Information
instance	Display information for Hello instances
interface	(Optional) Display RSVP interface information
<i>ifname</i>	(Optional) Display RSVP interface information
neighbor	(Optional) Display information for Hello neighbor
<i>nbr-addr</i>	(Optional) RSVP Neighbor address
detail	(Optional) Display detailed RSVP status
<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**

<b>Syntax Description</b>	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

<b>Syntax Description</b>	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

<b>Syntax Description</b>	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

<b>Syntax Description</b>	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**

<b>Syntax Description</b>	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**

<b>Syntax Description</b>	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>rexmit-cnt</i>	(Optional)
<i>pfm-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_fspec	(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
[ <unsub-type> ] [ TABLE_v4 <dest> <prot-id> <police> <dest-port> ] [ TABLE_tun_v4 <dest> <tun-id>
<ext-dun-id> ] [ TABLE_tun_p2mp_ipv4 <p2mp-id> <tun-id> <ext-tun-id> ] ] [ TABLE_sender_tmpl [
<unsupported-templ-type> ] [ TABLE_type_v4 <sender> <port> ] [ TABLE_type_lsp_tun_v4 <tun-sender>
<lsp-id> ] [ TABLE_type_lsp_tun_p2mp_v4 <tun_sender> <lsp-id> <subgrp-orig> <subgrp-id> ] ] [ <phop>
<phop-intf> <ref-time> <exp-time> ] [ <last-ref-sref> <last-ref-time> <last-ref-rc> <nhop> <nhop-intf> ] [
<rcvd-msgid> <in-ack-db> ] [ <xmit-msgid> <rr-stage> <ack-out> ] <psb-flags> <pfc-flags> [
TABLE_path_sess_in <setup-prio> <res-prio> [ <attr-flags> ] [ <prot-desired> ] [ <label-rec> ] [ <se-style>
] [ <ero-exp-req> ] [ <bw-prot-desired> ] [ <node-prot-desired> ] [ <sess-name> ] ] [ TABLE_path_sess_out
<setup-prio> <res-prio> [ <attr-flags> ] [ <prot-desired> ] [ <label-rec> ] [ <se-style> ] [ <ero-exp-req> ] [
<bw-prot-desired> ] [ <node-prot-desired> ] [ <sess-name> ] ] [ TABLE_ero <in-out> [ TABLE_ero_type
<show-sender-ero-start> [ <unk-obj-type> <unk-obj-len> ] [ TABLE_ero_ipv4 <hop> <loose-strict> <len>
<prefix-len> ] [ TABLE_ero_ipv6 <loose-strict> <len> ] [ TABLE_ero_unnum <gen-len> <rtr-id> <intf-id>
] [ TABLE_ero_as <loose-strict> <len> <as-num> ] ] ] [ TABLE_rro <key-show-rro-start> [ <rro-len> ] [
TABLE_v4 <addr> <rro-flags> [ <local-prot> ] [ <in-use> ] [ <has-bw> ] [ <to-nnhop> ] [ <to-nhop> ] [
<no-prot> ] [ <node-id> ] ] [ TABLE_label <lbl-flags> <label-ctype> <label> ] [ TABLE_unnum <rtr-id>
<ifindex> <flags> ] ] <class-type> [ TABLE_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	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

<b>Syntax Description</b>	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	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
__readonly__		(Optional)
TABLE_counters		(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**

<b>Syntax Description</b>	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**

<b>Syntax Description</b>	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_iptelnet <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_iptelnet	(Optional)	source interface of telnet
<i>vrfname</i>	(Optional)	vrfname
<i>ifname</i>	(Optional)	ifname

## Command Mode

- /exec

## show ip tftp source-interface

```
show ip tftp source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipftpvrf
<vrfname> <ifname> } ] ]
```

### Syntax Description

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_iftftp <vrfname> <ifname> } ] ]
```

**Syntax Description**

<b>Syntax Description</b>	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_iftftp	(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
vrfname		(Optional) vrfname
ifname		(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> <inhdrerr> <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

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-redirect</i>	(Optional)
<i>tx-unreach</i>	(Optional)
<i>tx-echo-req</i>	(Optional)
<i>tx-echo-reply</i>	(Optional)
<i>tx-mask-req</i>	(Optional)
<i>tx-mask-rep</i>	(Optional)
<i>tx-info-req</i>	(Optional)
<i>tx-info-reply</i>	(Optional)
<i>tx-param-prob</i>	(Optional)
<i>tx-source-quench</i>	(Optional)
<i>tx-tstamp-req</i>	(Optional)
<i>tx-tstamp-reply</i>	(Optional)
<i>tx-time-exceeded</i>	(Optional)
<i>tx-router-solicit</i>	(Optional)
<i>tx-router-advert</i>	(Optional)
<i>rx-redirect</i>	(Optional)
<i>rx-unreach</i>	(Optional)
<i>rx-echo-req</i>	(Optional)
<i>rx-echo-reply</i>	(Optional)
<i>rx-mask-req</i>	(Optional)
<i>rx-mask-rep</i>	(Optional)
<i>rx-info-req</i>	(Optional)
<i>rx-info-reply</i>	(Optional)
<i>rx-param-prob</i>	(Optional)
<i>rx-source-quench</i>	(Optional)
<i>rx-tstamp-req</i>	(Optional)

---

*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)

---

*inhdrrr* (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_intf> <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_intf</i>		(Optional) IP source guard enabled interfaces names
<i>intf6</i>		(Optional)
<i>__readonly__</i>		(Optional) Read only
<i>TABLE_verify_entry</i>		(Optional)
<i>verify_filter_mode</i>		(Optional)
<i>verify_intf</i>		(Optional)
<i>verify_hdr</i>		(Optional)
<i>verify_ip_addr</i>		(Optional)
<i>verify_mac_addr</i>		(Optional)
<i>verify_vlan</i>		(Optional)
<i>verify_ipsg_exclude_vlans</i>		(Optional)

### Command Mode

- /exec



<i>global_punt_pkt_cnt</i>	(Optional)
<i>global_punt_byte_cnt</i>	(Optional)
<i>global_glean_pkt_cnt</i>	(Optional)
<i>global_glean_byte_cnt</i>	(Optional)
<i>glean_pkt_cnt</i>	(Optional)
<i>glean_byte_cnt</i>	(Optional)
<i>normal_pkt_cnt</i>	(Optional)
<i>normal_byte_cnt</i>	(Optional)
<i>last_updated</i>	(Optional)
<i>count-static</i>	(Optional)
<i>count-dynamic</i>	(Optional)
<i>count-others</i>	(Optional)
<i>count-throttle</i>	(Optional)
<i>count-total</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
<i>count</i>	(Optional)
TABLE_adj	(Optional)
<i>intf-out</i>	(Optional)
<i>phy-intf</i>	(Optional)
<i>time-stamp</i>	(Optional)
<i>mac</i>	(Optional)
<i>pref</i>	(Optional)
<i>owner</i>	(Optional)
<i>pkt-count</i>	(Optional)
<i>byte-count</i>	(Optional)
<i>is-best</i>	(Optional)
<i>is-thrtld</i>	(Optional)

**Command Mode**

show ipv6 adjacency

- /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

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



zero-successors	(Optional) Show only zero successor entries
detail-links	(Optional) Show all links in topology table with details
all-links	(Optional) Show all links in topology table
__readonly__	(Optional)
TABLE_asn	(Optional)
asn	(Optional)
TABLE_vrf	(Optional)
vrf	(Optional)
router_id	(Optional)
head_serial	(Optional)
next_serial	(Optional)
route_count	(Optional)
replies_pending	(Optional)
dummies	(Optional)
eigrp_name	(Optional)
num_if	(Optional)
num_neighbors	(Optional)
num_active_if	(Optional)
TABLE_quiescent_if	(Optional)
ifname	(Optional)
TABLE_ent	(Optional)
ip_prefix	(Optional)
active	(Optional)
num_successors	(Optional)
feasible_distance	(Optional)
tag	(Optional)
send_flag	(Optional)
xmit_serno	(Optional)
xmit_refcount	(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	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> <errors-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**

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 port

## 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-vipv6add> ] [ <icmpv6-drp-adj-fail> ] [
<icmpv6-drp-subnet-mismatch> ] [ <icmpv6-drp-adj-exist> ] [ <icmpv6-dont-drp-ip-not-enable> ] [
<icmpv6-drp-total-cnt> ] [ <icmpv6-dont-drop-total-cnt> ] [ <icmpv6-add-adj> ] [ <icmpv6-del-adj> ] [
<icmpv6-adj-already-exist> ] } ]
```

## 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
icmpv6-pro-drp-pull-disable	(Optional)
icmpv6-pro-drp-push-msg-disable	(Optional)
icmpv6-pro-ign-snd-pull-disabe	(Optional)
icmpv6-ign-snd-push-disable	(Optional)
icmpv6-drp-im-fail	(Optional)
icmpv6-drp-mcecm-fail	(Optional)
icmpv6-drp-invalid-pc-iod	(Optional)
icmpv6-drp-pt-lookup-fail	(Optional)
icmpv6-drp-resp-fail-no-mct	(Optional)
icmpv6-drp-resp-fail	(Optional)
icmpv6-resp-sent	(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
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)



<i>intf-name</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>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

<b>Syntax Description</b>	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

<b>Syntax Description</b>	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	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	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	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
__readonly__	(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**

<b>Syntax Description</b>	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)

<i>df-backoff-sent</i>	(Optional)
<i>df-backoff-rcvd</i>	(Optional)
<i>pass-sent</i>	(Optional)
<i>pass-rcvd</i>	(Optional)
<i>cksum-errors</i>	(Optional)
<i>invalid-errors</i>	(Optional)
<i>invalid-df-errors</i>	(Optional)
<i>auth-failed</i>	(Optional)
<i>pak-len-errors</i>	(Optional)
<i>ver-errors</i>	(Optional)
<i>pkts-self</i>	(Optional)
<i>pkts-non-nbr</i>	(Optional)
<i>pkts-on-passive</i>	(Optional)
<i>jp-rcvd-on-rpf</i>	(Optional)
<i>jp-rcvd-no-rp</i>	(Optional)
<i>jp-rcvd-wrong-rp</i>	(Optional)
<i>jp-rcvd-for-ssm</i>	(Optional)
<i>jp-rcvd-for-bidir</i>	(Optional)
<i>jp-in-policy-filter</i>	(Optional)
<i>jp-out-policy-filter</i>	(Optional)

**Command Mode**

- /exec



# show ipv6 pim 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**

<b>Syntax Description</b>	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

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_sgprunelist <sgprunelisoif-name> } } ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
oif-list	Display interfaces for oif-list of PIM6 route
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_grp	(Optional)
<i>mcast-addr</i>	(Optional)
<i>incoming-intf</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>oif-list-count</i>	(Optional)
TABLE_oiflist	(Optional)
<i>oif-name</i>	(Optional)
<i>timeout-list-count</i>	(Optional)
TABLE_timeoutlist	(Optional)
<i>timeoutoif-name</i>	(Optional)
<i>immediate-list-count</i>	(Optional)



TABLE_immediatelist	(Optional)
<i>immediateoif-name</i>	(Optional)
<i>immediate-timeout-list-count</i>	(Optional)
TABLE_immediatettimeoutlist	(Optional)
<i>immediatettimeoutoif-name</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
TABLE_sgrprunelist	(Optional)
<i>sgrprunelisoif-name</i>	(Optional)

**Command Mode**

- /exec

# show ipv6 pim policy statistics jp

```
show ipv6 pim policy statistics { jp-policy | neighbor-policy } <interface> [ __readonly__ { TABLE_routemap
<name> <action> <seq_num> [ { TABLE_cmd <command> <match_count> <compare_count> } ] }
<total_accept_count> <total_reject_count> ]
```

**Syntax Description**

**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)
<i>TABLE_routemap</i>	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
<i>TABLE_cmd</i>	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

**Command Mode**

- /exec

## show 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

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
<i>__readonly__</i>	(Optional)
<i>TABLE_context</i>	(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	
<i>__readonly__</i>	(Optional)	
TABLE_pbr	(Optional)	
<i>interface</i>	(Optional)	
<i>rmap</i>	(Optional)	
<i>status</i>	(Optional)	
<i>vrf_name</i>	(Optional)	

## Command Mode

- /exec

# show ipv6 prefix-list

```
show ipv6 prefix-list { { [ detail | summary ] [ <ipv6-pfl-name> | <ipv6-pfl-cfg-name> ] } | { { <ipv6-pfl-name>
| <ipv6-pfl-cfg-name> } seq <seq-no> } | { { <ipv6-pfl-name> | <ipv6-pfl-cfg-name> } <prefix> [ first-match
| longer ] } } [ __readonly__ TABLE_ipv6_pfl <name> <seq> <action> <rule> ]
```

## Syntax Description

### Syntax Description

show	Show running system information
ipv6	Display IPv6 information
detail	(Optional) Show detailed information
summary	(Optional) Show summarized information
prefix-list	List IPv6 prefix lists
<i>ipv6-pfl-name</i>	(Optional) Name of prefix-list
<i>ipv6-pfl-cfg-name</i>	(Optional) Known prefix-list name
seq	Sequence number
<i>seq-no</i>	Sequence number
first-match	(Optional) Find the first match
longer	(Optional) Find the more specific entries
<i>__readonly__</i>	(Optional)
TABLE_ipv6_pfl	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

## Command Mode

- /exec

## show ipv6 process

```
show ipv6 process [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_ipv6_all {
<cnxt-name> <cnxt-id> } ] [ TABLE_ipv6 { <ipv6-vrf> <ipv6-vrf-id> <auto-disc> <auto-add> <sta-disc>
<sta-def> [ <ipv6-unreach> } ] [ TABLE_iod { <iod-val> <iod-ifind> } ] [ TABLE_ipv6_nxt { <ipv6-nxt>
} ] ] ] ]
```

### Syntax Description

#### 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 rguard statistics

```
show ipv6 rguard 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
	rguard	IPv6 rguard
	statistics	RA packet drop count
	interface	(Optional) Rguard enabled interfaces
	<i>intf-range</i>	(Optional) interface
	<i>__readonly__</i>	(Optional) Read only
	<i>msg_stats_hdr</i>	(Optional)
	<i>intf2</i>	(Optional) interface name
	<i>rx_pkts</i>	(Optional)
	<i>drop_count</i>	(Optional)

## Command Mode

- /exec

## show ipv6 rip policy statistics redistribute

```
show ipv6 rip [ instance <inst> ] policy statistics redistribute { bgp <as> | { eigrp | isis | <src-rip> | ospfv3 |
lisp } <tag> | direct | static } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

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)
<i>TABLE_process_tag</i>	(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	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	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

## show isis route

```
show isis [<isis-tag>] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] route [ summary | detail | <ip-addr>
[ detail ] | <ip-prefix> [ detail | longer-prefixes [ summary | detail ] ] ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <afi-safi-out>
[ TABLE_prefix [ <route-prefix-out> <route-mask-len-out> <route-level-out> ] [
<route-summ-discard-addr-out> <route-summ-discard-mask-len-out> ] [ <route-discard-addr-out>
<route-discard-mask-len-out> ] [ <route-addr-print-out> <route-mask-len-print-out> <route-direct-print-out>
] [ TABLE_direct_path [ <route-direct-out> <route-direct-via-out> <route-direct-if-name-out>
<route-direct-metric-out> <route-direct-level-out> ] [ <route-direct-instance-out> ] ] [ TABLE_best_path [
<route-no-def-prefix-out> ] [ <route-def-prefix-out> ] <route-addr-valid-out> <route-marker-out>
<route-iframe-out> <route-metric-out> <route-pref-out> [ <route-instance-out> ] ] [ <route-discard-mask-out>
] [ [ <route-sum-prefix-out> <route-sum-prefix-len-out> ] <route-total-out> <route-paths-total-out>
<route-paths-best-out> <route-paths-backup-out> [ TABLE_sum_best_route <route-sum-lvl-out>
<route-sum-total-out> [ <route-sum-direct-out> ] [ <route-sum-normal-out> ] [ <route-sum-missing-out> ] ]
[ <route-best-pend-num-out> ] <route-bestpaths-out> [ TABLE_sum_best_path <route-path-sum-lvl-out>
<route-path-sum-total-out> [ <route-path-sum-direct-out> ] [ <route-path-sum-normal-out> ] ]
<route-backuppaths-out> [ TABLE_sum_backup_path <backup-path-sum-lvl-out> <backup-path-sum-total-out>
[ <backup-path-sum-direct-out> ] [ <backup-path-sum-normal-out> ] ] <route-bestroutes-per-mask-out> [
TABLE_best_mask <route-best-mask-val-out> <route-best-mask-count-out> ] [ <route-pend-q-count-out> ]
]]] }
```

### Syntax Description

Syntax Description	
show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
route	Display IS-IS route information
<i>ip-addr</i>	(Optional) Display single IP route
<i>ip-prefix</i>	(Optional) Display single exact match IP route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
detail	(Optional) Display detail route information
<i>__readonly__</i>	(Optional)

TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
TABLE_prefix	(Optional)
<i>route-prefix-out</i>	(Optional)
<i>route-mask-len-out</i>	(Optional)
<i>route-level-out</i>	(Optional)
<i>route-summ-discard-addr-out</i>	(Optional)
<i>route-summ-discard-mask-len-out</i>	(Optional)
<i>route-discard-addr-out</i>	(Optional)
<i>route-discard-mask-len-out</i>	(Optional)
<i>route-addr-print-out</i>	(Optional)
<i>route-mask-len-print-out</i>	(Optional)
<i>route-direct-print-out</i>	(Optional)
TABLE_direct_path	(Optional)
<i>route-direct-out</i>	(Optional)
<i>route-direct-via-out</i>	(Optional)
<i>route-direct-if-name-out</i>	(Optional)
<i>route-direct-metric-out</i>	(Optional)
<i>route-direct-level-out</i>	(Optional)
<i>route-direct-instance-out</i>	(Optional)
TABLE_best_path	(Optional)
<i>route-no-def-prefix-out</i>	(Optional)
<i>route-def-prefix-out</i>	(Optional)
<i>route-addr-valid-out</i>	(Optional)
<i>route-marker-out</i>	(Optional)
<i>route-ifname-out</i>	(Optional)

<i>route-metric-out</i>	(Optional)
<i>route-pref-out</i>	(Optional)
<i>route-instance-out</i>	(Optional)
<i>route-discard-mask-out</i>	(Optional)
<i>route-sum-prefix-out</i>	(Optional)
<i>route-sum-prefix-len-out</i>	(Optional)
<i>route-total-out</i>	(Optional)
<i>route-paths-total-out</i>	(Optional)
<i>route-paths-best-out</i>	(Optional)
<i>route-paths-backup-out</i>	(Optional)
TABLE_sum_best_route	(Optional)
<i>route-sum-lvl-out</i>	(Optional)
<i>route-sum-total-out</i>	(Optional)
<i>route-sum-direct-out</i>	(Optional)
<i>route-sum-normal-out</i>	(Optional)
<i>route-sum-missing-out</i>	(Optional)
<i>route-best-pend-num-out</i>	(Optional)
<i>route-bestpaths-out</i>	(Optional)
TABLE_sum_best_path	(Optional)
<i>route-path-sum-lvl-out</i>	(Optional)
<i>route-path-sum-total-out</i>	(Optional)
<i>route-path-sum-direct-out</i>	(Optional)
<i>route-path-sum-normal-out</i>	(Optional)
<i>route-backuppaths-out</i>	(Optional)
TABLE_sum_backup_path	(Optional)
<i>backup-path-sum-lvl-out</i>	(Optional)
<i>backup-path-sum-total-out</i>	(Optional)
<i>backup-path-sum-direct-out</i>	(Optional)
<i>backup-path-sum-normal-out</i>	(Optional)



---

*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)
<i>TABLE_process_tag</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>rrm-if-name</i>	(Optional)
<i>TABLE_rrm</i>	(Optional)
<i>rrm-level</i>	(Optional)
<i>rrm-retx-interval</i>	(Optional)
<i>rrm-retx-throttle-interval</i>	(Optional)
<i>rrm-retx-queue-length</i>	(Optional)
<i>rrm-next-retx</i>	(Optional)
<i>rrm-retx-queue-hwm</i>	(Optional)
<i>rrm-retx-queue-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)
<i>TABLE_process_tag</i>		(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)
<i>TABLE_SPFADJLEVEL</i>		(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



TABLE_device	(Optional)
<i>device_grp</i>	(Optional) service device group
TABLE_route_map	(Optional)
<i>route_map</i>	(Optional) service route map
<i>interface</i>	(Optional) interface
<i>r_status</i>	(Optional) route map status
<i>int_track_id</i>	(Optional) interface track id
TABLE_vip	(Optional)
<i>vip_ip</i>	(Optional) vip ip
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
TABLE_vip_node	(Optional)
<i>vip_node</i>	(Optional) service node ip
<i>vip_nodev6</i>	(Optional) service node IPv6
<i>vip_config</i>	(Optional) node config
<i>vip_weight</i>	(Optional) node weight
<i>vip_status</i>	(Optional) node status
<i>vip_track_id</i>	(Optional) node track id
<i>vip_ip_sla_id</i>	(Optional) node ip sla id
TABLE_vip_acl	(Optional)
<i>vip_access_list</i>	(Optional) access list
TABLE_node	(Optional)
<i>node</i>	(Optional) service node ip
<i>nodev6</i>	(Optional) service node IPv6
<i>config</i>	(Optional) node config
<i>weight</i>	(Optional) node weight
<i>status</i>	(Optional) node status
<i>track_id</i>	(Optional) node track id
<i>ip_sla_id</i>	(Optional) node ip sla id

---

TABLE_acl	(Optional)
<i>access_list</i>	(Optional) access list

---

**Command Mode**

- /exec



<i>device_grp</i>	(Optional) service device group
TABLE_route_map	(Optional)
<i>route_map</i>	(Optional) service route map
<i>interface</i>	(Optional) interface
<i>r_status</i>	(Optional) route map status
<i>int_track_id</i>	(Optional) interface track id
TABLE_vip	(Optional)
<i>vip_ip</i>	(Optional) vip ip
<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
TABLE_vip_node	(Optional)
<i>vip_node</i>	(Optional) service node ip
<i>vip_nodev6</i>	(Optional) service node IPv6
<i>vip_config</i>	(Optional) node config
<i>vip_weight</i>	(Optional) node weight
<i>vip_status</i>	(Optional) node status
<i>vip_track_id</i>	(Optional) node track id
<i>vip_ip_sla_id</i>	(Optional) node ip sla id
TABLE_vip_acl	(Optional)
<i>vip_access_list</i>	(Optional) access list
TABLE_node	(Optional)
<i>node</i>	(Optional) service node ip
<i>nodev6</i>	(Optional) service node IPv6
<i>config</i>	(Optional) node config
<i>weight</i>	(Optional) node weight
<i>status</i>	(Optional) node status
<i>track_id</i>	(Optional) node track id
<i>ip_sla_id</i>	(Optional) node ip sla id
TABLE_acl	(Optional)

---

*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**

<b>Syntax Description</b>	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