



I Show Commands

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show incompatibility-all

```
show incompatibility-all { system <uri0> | nxos <uri1> }
```

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

Command Mode

- /exec

show incompatibility

show incompatibility { system <uri0> | nxos <uri1> }

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

Command Mode

- /exec

show install

show install { inactive | active [brief] | committed }

Syntax Description

show	Show running system information
install	Install related show commands
inactive	Inactive packages
active	Active packages
brief	(Optional) Brief
committed	Committed packages

Command Mode

- /exec

show install all failed-standby

show install all failed-standby

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

Command Mode

- /exec

show install all failure-reason

show install all failure-reason

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

Command Mode

- /exec

show install all impact

show install all impact [nxos <uri>] +

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
impact	show impact of the install all command
nxos	(Optional) boot-variable name
<i>uri</i>	(Optional) Enter image uri

Command Mode

- /exec

show install all impact epld

show install all impact epld <uri1>

Syntax Description

show	Show running system information
install	Show the software install status
all	show install all information
impact	show impact of the install all epld command
epld	Show EPLD install information
<i>uri1</i>	Local URI containing EPLD Image

Command Mode

- /exec

show install all status

show install all status

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
status	show status of the current or last install all

Command Mode

- /exec

show install epld status

show install epld status

Syntax Description

show	Show running system information
install	Show the software install status
epld	Show EPLD install information
status	Show status of previous EPLD upgrades

Command Mode

- /exec

show install impact

show install impact <uri0>

Syntax Description

show	Show running system information
install	Show the software install impact between two images
impact	impact system_uri {active_system_uri/active_kickstart_uri}
<i>uri0</i>	Enter system URI

Command Mode

- /exec

show install impact detail

show install impact <uri0> detail

Syntax Description

show	Show running system information
install	Show the software install impact between two images
impact	impact system_uri {active_system_uri/active_kickstart_uri}
<i>uri0</i>	Enter system URI
detail	Show detailed install impact of given system image

Command Mode

- /exec

show install impact

show install impact <uri0> <uri1>

Syntax Description

show	Show running system information
install	Show the software install impact between two images
impact	impact system_uri {active_system_uri/active_kickstart_uri}
<i>uri0</i>	Enter system URI
<i>uri1</i>	Enter active URI

Command Mode

- /exec

show install log

show install log { [<id> | from <id1>] [detail] [reverse] | [last] }

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

Command Mode

- /exec

show install packages

show install packages

Syntax Description

show	Show running system information
install	Install related show commands
packages	All packages

Command Mode

- /exec

show install patches

show install patches

Syntax Description

show	Show running system information
install	Install related show commands
patches	All Patches

Command Mode

- /exec

show interface

show interface [<if>] private-vlan mapping

Syntax Description

show	Show running system information
interface	Show interface status and information
private-vlan	Show interface private vlan information
mapping	Show interface private vlan information
<i>if</i>	(Optional) Vlan Interface number

Command Mode

- /exec

show interface priority-flow-control

show interface [<if_list>] priority-flow-control [detail] [module <module>]

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

Command Mode

- /exec

show interface (single)

show_interface <single>

Syntax Description

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

Command Mode

- /exec

show interface (brief)

show interface <ifid> [brief]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid</i>	Enter interface type and number in module/slot format
brief	(Optional) Show brief info of interface

Command Mode

- /exec

show interface (ifmgmt)

show interface <ifmgmt>

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt</i>	Enter interface type and number in module/slot format

Command Mode

- /exec

show interface brief

show interface <ifpch_brf> brief

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

Command Mode

- /exec

show interface capabilities

show interface <ifid_eth_cap> capabilities

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

Command Mode

- /exec

show interface counters brief

show interface <ifeth_ctr_brf> counters brief [<counter_val>]

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

Command Mode

- /exec

show interface counters

show interface <ifid_ctr> counters [snmp]

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

Command Mode

- /exec

show interface (controller)

show interface [controller]

Syntax Description

show	Show running system information
interface	Show interface status and information
controller	(Optional) Show controller configured interfaces

Command Mode

- /exec

show interface (ifloop)

show interface <ifloop>

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

Command Mode

- /exec

show interface (iftun_desc)

show interface <iftun_desc>

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_desc</i>	Enter tunnel interface number

Command Mode

- /exec

show interface (ifloop_brf brief)

show interface <ifloop_brf> brief

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

Command Mode

- /exec

show interface (iftunnel_brf brief)

show interface <iftunnel_brf> brief

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

Command Mode

- /exec

show interface (ifmgmt_brf brief)

show interface <ifmgmt_brf> brief

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

Command Mode

- /exec

show interface (ifeth)

show interface <ifeth>

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

Command Mode

- /exec

show interface (ifeth_brf brief)

show interface <ifeth_brf> brief

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

Command Mode

- /exec

show interface counters detailed all

show interface <ifid_ctr_dtl_all> counters detailed all [snmp]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
snmp	(Optional) Show SNMP MIB values

Command Mode

- /exec

show interface counters detailed all

show interface <ifmgmt_ctr_dtl_all> counters detailed all

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

Command Mode

- /exec

show interface counters detailed all

show interface <ifloop_ctr_dtl_all> counters detailed all

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

Command Mode

- /exec

show interface counters detailed all

show interface <ifrange> counters detailed all [snmp]

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

Command Mode

- /exec

show interface counters detailed all (snmp)

show interface <ifeth_ctr_dtl_all> counters detailed all [snmp]

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

Command Mode

- /exec

show interface counters errors (ifeth_ctr_errs)

show interface <ifeth_ctr_errs> counters errors [snmp]

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

Command Mode

- /exec

show interface counters storm-control

show interface <ifeth_ctr_stm_ctrl> counters storm-control

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

Command Mode

- /exec

show interface counters trunk (ifeth_ctr_trnk)

show interface <ifeth_ctr_trnk> counters trunk

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

Command Mode

- /exec

show interface debounce

show interface <ifeth_dbnc> debounce

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

Command Mode

- /exec

show interface description (ifid_mgmt_loop)

show interface <ifid_mgmt_loop> 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

Command Mode

- /exec

show interface description (ifid_eth)

show interface <ifid_eth> 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

Command Mode

- /exec

show interface description (iftun_desc)

show interface <iftun_desc> 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

Command Mode

- /exec

show interface flowcontrol

show interface <ifeth_fl_ctrl> flowcontrol

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

Command Mode

- /exec

show interface status err-disabled

show interface <ifeth_errdis> status err-disabled

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

Command Mode

- /exec

show interface status (ifid_status)

show interface <ifid_status> status

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_status</i>	Enter interface type and number in module/slot format
status	Show interface line status

Command Mode

- /exec

show interface fcoe

show interface <ifeth_fcoe> fcoe

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

Command Mode

- /exec

show interface status

show interface <ifeth_status> status

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

Command Mode

- /exec

show interface status (err-disabled)

show interface <iftun_status> status [err-disabled]

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

Command Mode

- /exec

show interface switchport

show interface <ifeth_swth> switchport

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_swth</i>	Enter interface type and number in module/slot format
switchport	Show interface switchport information

Command Mode

- /exec

show interface transceiver

show interface <ifid_transceiver> transceiver [calibrations | details | sprom]

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

Command Mode

- /exec

show interface transceiver fex-fabric

show interface <ifeth_trans> transceiver fex-fabric [calibrations | details]

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

Command Mode

- /exec

show interface trunk

show interface <ifeth_trnk> trunk

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

Command Mode

- /exec

show interface mac-address

show interface <ifid_macaddr> mac-address

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_macaddr</i>	Enter interface type and number in module/slot format
mac-address	Show interface MAC address

Command Mode

- /exec

show interface counters

show interface <ifeth_ctr> counters [snmp]

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

Command Mode

- /exec

show interface counters errors

show interface <loop_ctr_errs> counters errors

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>loop_ctr_errs</i>	Enter interface type and number in module/slot format
counters	Show interface counters
errors	Show interface error counters

Command Mode

- /exec

show interface counters detailed

show interface <ifmgmt_ctr_dtl> counters detailed

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

Command Mode

- /exec

show interface counters detailed (ifloop_ctr_dtl)

show interface <ifloop_ctr_dtl> counters detailed

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

Command Mode

- /exec

show interface counters detailed (snmp)

show interface <ifeth_ctr_dtl> counters detailed [snmp]

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

Command Mode

- /exec

show interface status err-vlans

show interface <ifeth_errvlans> status err-vlans

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

Command Mode

- /exec

show interface cable-diagnostics-tdr

show interface <ifid_tdr> cable-diagnostics-tdr

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

Command Mode

- /exec

show interface (ifrange)

show interface <ifrange>

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number

Command Mode

- /exec

show interface brief (ifrange)

show interface <ifrange> brief

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

Command Mode

- /exec

show interface counters (ifrange)

show interface <ifrange> counters

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

Command Mode

- /exec

show interface status (err-disabled)

show interface <ifrange> status [err-disabled]

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

Command Mode

- /exec

show interface description (ifrange)

show interface <ifrange> 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

Command Mode

- /exec

show interface (ifrange)

show interface <ifrange>

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number

Command Mode

- /exec

show interface brief (ifrange)

show interface <ifrange> brief

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

Command Mode

- /exec

show interface (ifrange counters)

show interface <ifrange> counters

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

Command Mode

- /exec

show interface status

show interface <ifrange> status [err-disabled]

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

Command Mode

- /exec

show interface description

show interface <ifrange> 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

Command Mode

- /exec

show interface status

show interface <ifid> status

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

Command Mode

- /exec

show interface description (ifid)

show interface <ifid> 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

Command Mode

- /exec

show interface brief

show interface brief [controller | cli]

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

Command Mode

- /exec

show interface capabilities

show interface capabilities

Syntax Description

show	Show running system information
interface	Show interface status and information
capabilities	Show interface capabilities information

Command Mode

- /exec

show interface counters

show interface counters [module <module>]

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

Command Mode

- /exec

show interface counters

show interface counters

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters

Command Mode

- /exec

show interface counters brief

show interface counters brief [<counter_val>]

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

Command Mode

- /exec

show interface counters detailed

show interface counters detailed [snmp]

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

Command Mode

- /exec

show interface counters errors

show interface counters errors [module <module>]

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

Command Mode

- /exec

show interface counters snmp

show interface counters snmp [module <module>]

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

Command Mode

- /exec

show interface counters storm-control

show interface counters storm-control [module <module>]

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

Command Mode

- /exec

show interface counters table

show interface counters table [verbose]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
table	format counters in a table
verbose	(Optional) show errors counts after counters

Command Mode

- /exec

show interface debounce

show interface debounce

Syntax Description

show	Show running system information
interface	Show interface status and information
debounce	Show interface debounce time information

Command Mode

- /exec

show interface description

show interface description

Syntax Description

show	Show running system information
interface	Show interface status and information
description	Show interface description

Command Mode

- /exec

show interface flowcontrol

show interface flowcontrol [module <module>]

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

Command Mode

- /exec

show interface hardware-mappings

show interface hardware-mappings

Syntax Description

show	Show running system information
interface	Interface
hardware-mappings	Show hardware port number and unit information for interfaces

Command Mode

- /exec

show interface mac-address

show interface mac-address

Syntax Description

show	Show running system information
interface	Show interface status and information
mac-address	Show interface MAC address

Command Mode

- /exec

show interface snmp-ifindex

show interface snmp-ifindex

Syntax Description

show	Show running system information
interface	Show interface status and information
snmp-ifindex	Show snmp ifindex list

Command Mode

- /exec

show interface status

show interface status [down | inactive | module <module> | up]

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
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
up	(Optional) Show interface up state

Command Mode

- /exec

show interface status err-disabled

show interface status err-disabled

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

Command Mode

- /exec

show interface status err-vlans

show interface status err-vlans

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
err-vlans	Show errored vlans

Command Mode

- /exec

show interface switchport

show interface switchport

Syntax Description

show	Show running system information
interface	Show interface status and information
switchport	Show interface switchport information

Command Mode

- /exec

show interface transceiver

show interface transceiver [calibrations | details]

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

Command Mode

- /exec

show interface transceiver fex-fabric

show interface transceiver fex-fabric [calibrations | details]

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

Command Mode

- /exec

show interface trunk

show interface trunk [module <module> | vlan <vlan_id> | fex <fex_num>]

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

Command Mode

- /exec

show interface untagged-cos

show interface untagged-cos [module <mod_num>]

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

Command Mode

- /exec

show inventory

show inventory [chassis | fans | power_supply | module [<module>] | <s0> [<santa-cruz-range>]]

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

Command Mode

- /exec

show ip

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast | mdt } |
all } ] } } [ <ip-addr> [ <ip-mask> [ longer-prefixes ] ] | <ip-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ip-addr</i>	(Optional) Display one particular network from the BRIB in detail
<i>ip-mask</i>	(Optional) Mask for one particular prefix in the BRIB
<i>ip-prefix</i>	(Optional) Display one particular prefix from the BRIB in detail
longer-prefixes	(Optional) Display route and more specific routes
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
mdt	(Optional) Display BGP information for multicast distribution tree
all	(Optional) Display BGP information for all address families

Command Mode

- /exec

show ip received-routes

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { ipv4 { unicast | multicast } | all }
} } } neighbors { [ { <neighbor-id> | <ipv6-neighbor-id> } [ routes [ advertised | received | dampened ] |
advertised-routes | received-routes | paths | flap-statistics ] ] | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id>
} [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] }
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
neighbors	Display all configured BGP neighbors
<i>neighbor-id</i>	(Optional) Display one particular BGP neighbor
<i>neighbor-prefix-id</i>	Display details for a prefix peering
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
routes	(Optional) Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
advertised-routes	(Optional) Display all the routes advertised to this peer
received-routes	(Optional) Display all the routes received from this peer
flap-statistics	(Optional) Display flap statistics for routes received from this peer
paths	(Optional) Display AS paths learned from this peer

Command Mode

 show ip received-routes

- /exec

show ip nexthop

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | bgp [ vrf {  
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } nexthop  
<ipnexthop> [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
nexthop	Display routes matching the nexthop
<i>ipnexthop</i>	Nexthop address
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family

Command Mode

- /exec

show ip nexthop-database

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } nexthop-database [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
nexthop-database	Display nexthop database
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families

Command Mode

- /exec

show ip flap-statistics

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } flap-statistics [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
flap-statistics	Display route flap statistics
<i>ip-prefix</i>	(Optional) Display flap statistics for one prefix
<i>ip-addr</i>	(Optional) Display flap statistics for one network
<i>ip-mask</i>	(Optional) Network mask
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families

Command Mode

- /exec

show ip extcommunity-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 } | all }
] } } { route-map { <rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | {
community-list { <commlist-name> | <test_pol_name> } | extcommunity-list { <extcommlist-name> |
<test_pol_name> } } [ exact-match ] } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
route-map	Display routes matching the route-map
<i>rmap-name</i>	Route-map name
<i>rmap-name</i>	Known route-map name
filter-list	Display routes matching the filter-list
<i>fltrlist-name</i>	Name of filter-list
community-list	Display routes matching the community-list
extcommunity-list	Display routes matching the extcommunity-list
<i>commlist-name</i>	Name of community-list
<i>extcommlist-name</i>	Name of extcommunity-list
<i>test_pol_name</i>	An existing test-list policy
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ip prefix-list

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } }
prefix-list { <prfxlist-name> | <test_pol_name> } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

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

Command Mode

- /exec

show ip community

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } community { <regexp-str> | { { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display BGP information for all address families
community	Display routes matching the BGP communities
<i>regexp-str</i>	Regular expression to match the communities
<i>comm-id</i>	BGP community value
<i>wellknown-id</i>	BGP wellknown community
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ip extcommunity

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { ipv4 { unicast | multicast } | all }
] } } extcommunity { <regexp-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] }
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display BGP information for all address families
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
<i>regexp-str</i>	Regular expression to match the extcommunities
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
exact-match	(Optional) Exact match of the extcommunities

Command Mode

- /exec

show ip dampening

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { ipv4 { unicast | multicast } | all }
} } } dampening { dampened-paths [ regexp <regexp-str> ] | flap-statistics | parameters | history-paths [ regexp
<regexp-str> ] } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
dampening	Display dampening info
dampened-paths	Display all dampened paths
flap-statistics	Display flap statistics for routes
parameters	Display dampening parameters
history-paths	Display all history paths
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
regexp	(Optional) Display routes matching the AS path regular expression
<i>regexp-str</i>	(Optional) Regular expression to match the AS paths

Command Mode

- /exec

show ip received-paths

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { ipv4 { unicast | multicast } | all }
] } } received-paths [ private ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
received-paths	Display paths stored for soft-reconfig
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
private	(Optional) private

Command Mode

- /exec

show ip adjacency

show ip adjacency [<interface> [summary] | <ip-addr> [non-best | detail] | detail | summary | non-best | [throttle] statistics] [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

show	Show running system information
ip	Display IP information
adjacency	Display adjacency table
<i>interface</i>	(Optional) Display specific interface adjacencies only
<i>ip-addr</i>	(Optional) IPV4 source address
detail	(Optional) Show detail information of adjacency entries
summary	(Optional) Show adjacency summary
non-best	(Optional) Show both best/non-best entries
throttle	(Optional) Throttle
statistics	(Optional) Show adjacency 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) Show adjacency entries for all vrfs

Command Mode

- /exec

show ip amt tunnel

show ip amt tunnel [<address4> <port>] [detail] [vrf { <vrf-name> | <vrf-known-name> }]

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

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 } ] ]
```

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

Command Mode

- /exec

show ip arp cache

show ip arp cache { { brief | detail } | { interface [<intf>] } } [operational]

Syntax Description

show	Show running system information
ip	Display IP information
arp	arp
cache	Display ip arp cache
interface	Display ip arp related interface information
brief	Display summary of arp interface status and configuration
detail	Display detailed information of arp interface status and configuration
operational	(Optional) Display only interfaces that are administratively enabled
<i>intf</i>	(Optional) Interface name to display

Command Mode

- /exec

show ip arp client

show ip arp client

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
client	Display ARP Client table

Command Mode

- /exec

show ip arp inspection

show ip arp inspection

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection

Command Mode

- /exec

show ip arp inspection interfaces

show ip arp inspection interfaces [<intfl>]

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	Trsut status of all interfaces
<i>intfl</i>	(Optional) interface

Command Mode

- /exec

show ip arp inspection log

show ip arp inspection log

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

Command Mode

- /exec

show ip arp inspection statistics

show ip arp inspection statistics [vlan <vlan-range>]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
statistics	Status of ARP Inspection
vlan	(Optional) Selected vlan range
<i>vlan-range</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

Command Mode

- /exec

show ip arp inspection vlan

show ip arp inspection vlan <vlan-range>

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

Command Mode

- /exec

show ip arp off-list

show ip arp off-list [{ vlan | bdi } <vlan-id>]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
off-list	Show adjacencies in off-list arp database
vlan	(Optional) Vlan id
bdi	(Optional) Bridge Domain Name/Id
<i>vlan-id</i>	(Optional) Show information for specified vlan

Command Mode

- /exec

show ip arp snmp ptree

```
show ip arp snmp ptree { static | dynamic | virtual | typeall } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
snmp	Show only snmp ptree
ptree	Patricia tree
static	show only static adjacencies in pt tree
dynamic	show only dynamic adjacencies in pt tree
virtual	show only virtual adjacencies in pt tree
typeall	show all adjacencies in pt tree
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP statistics for all vrfs

Command Mode

- /exec

show ip arp statistics

show ip arp statistics [<interface>] [interface-all] [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
statistics	Display ARP statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP statistics for all vrfs
interface-all	(Optional) Display ARP statistics for all interface
<i>interface</i>	(Optional) ARP interface

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> ] }
```

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

Command Mode

- /exec

show ip arp suppression topo-info

show ip arp suppression topo-info [<topo-id>]

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
suppression	ARP-suppression based event
topo-info	E-VPN identifier
<i>topo-id</i>	(Optional) E-VPN identifier (VLAN-ID or BD-ID)

Command Mode

- /exec

show ip arp tunnel-statistics

show ip arp tunnel-statistics

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
tunnel-statistics	Display ARP statistics for tunneled packets

Command Mode

- /exec

show ip arp vaddr

show ip arp vaddr

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
vaddr	Display VADDR ARP table

Command Mode

- /exec

show ip arp vpc-statistics

show ip arp vpc-statistics

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
vpc-statistics	Show vPC global statistics

Command Mode

- /exec

show ip as-path-access-list

show ip as-path-access-list [<aspl-name> | <aspl-cfg-name>]

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

Command Mode

- /exec

show ip cache

show ip cache { { brief | detail } | { interface [<intf>] } } [operational]

Syntax Description

show	Show running system information
ip	Display IP information
cache	Display ip cache
brief	Display summary of ip interface status and configuration
detail	Display detailed information of ip interface status and configuration
operational	(Optional) Display only interfaces that are administratively enabled
interface	Display ip related interface information
<i>intf</i>	(Optional) Interface name to display

Command Mode

- /exec

show ip client

show ip client [<client-name>]

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

Command Mode

- /exec

show ip community-list

show ip community-list [<cl_name>]

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

Command Mode

- /exec

show ip debug

show ip debug

Syntax Description

show	Show running system information
ip	Display IP information
debug	Display IP debug-filter configuration

Command Mode

- /exec

show ip dhcp global statistics

show ip dhcp global statistics

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

Command Mode

- /exec

show ip dhcp relay

show ip dhcp relay

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
relay	DHCP relay

Command Mode

- /exec

show ip dhcp relay address

show ip dhcp relay address [interface <intf-range>]

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

Command Mode

- /exec

show ip dhcp relay information trusted-sources

show ip dhcp relay information trusted-sources

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

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> ] } ]
```

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

Command Mode

- /exec

show ip dhcp snooping

show ip dhcp snooping

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
snooping	DHCP snooping

Command Mode

- /exec

show ip dhcp snooping binding

show ip dhcp snooping binding [<ip> | <mac> | vlan <vlan-range> |

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
snooping	DHCP snooping
binding	DHCP snooping bindings
<i>ip</i>	(Optional) Binding entry IP address
<i>mac</i>	(Optional) Binding entry MAC address
vlan	(Optional) Binding entry VLAN
<i>vlan-range</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

Command Mode

- /exec

show ip dhcp snooping statistics

show ip dhcp snooping statistics [{ vlan <vlan-id> interface <intf> } |

Syntax Description

<i>vlan-id</i>	(Optional)]
show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
snooping	DHCP snooping
statistics	Statistics related to DHCP
vlan	(Optional) VLAN
interface	(Optional) input interface
<i>intf</i>	(Optional) interface

Command Mode

- /exec

show ip dhcp status

show ip dhcp status

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

Command Mode

- /exec

show ip dns source-interface

show ip dns source-interface [vrf { <vrf-name> | <vrf-known-name> }]

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

Command Mode

- /exec

show ip dns source-interface vrf all

show ip dns source-interface vrf all

Syntax Description

show	Show running system information
ip	Display IP information
dns	Display domain-lookup information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs

Command Mode

- /exec

show ip eigrp

show ip eigrp [<eigrp-ptag>] [internal] event-history bfd

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

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 }]

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

Command Mode

- /exec

show ip eigrp

show ip eigrp [<eigrp-ptag>] internal library-info

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 extcommunity-list

show ip extcommunity-list [<extcl_name>]

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

Command Mode

- /exec

show ip fib adjacency

show ip fib adjacency [<aif>] [<anh>] [module <module>]

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
adjacency	display adjacency information
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next hop
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show ip fib interfaces

show ip fib interfaces [module <module>]

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
interfaces	show fib interface info
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show ip fib mroute

show ip fib mroute [{ <group> | <gprefix> } [<source>]] [table <table-id>] [module <module>]

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

Command Mode

- /exec

show ip fib mroute

show ip fib mroute [{ <group> | <gprefix> } [<source>]] [table <table-id>] [module <module>]

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

Command Mode

- /exec

show ip fib mroute txlist

show ip fib mroute txlist [module <module>]

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	display IP mcast routing table
txlist	display routes in the txlist
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show ip fib route

```
show ip fib route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ 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>
} ] +
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
route	display IP routing table
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
summary	(Optional) display route counts
<i>prefix</i>	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
<i>address</i>	(Optional) display single longest match route
interface	(Optional) display routes with this output i/f only
<i>interface</i>	(Optional) output interface
next-hop	(Optional) display routes with this next-hop only
<i>nh</i>	(Optional) next hop address
attached	(Optional) display directly connected routes
unresolved	(Optional) display unresolved routes
adjacency	(Optional) display routes via specified adjacency
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next-hop address

drop	(Optional) display routes via drop adjacency
glean	(Optional) display routes via glean adjacency
punt	(Optional) display routes via punt adjacency
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show ip fib route

```
show ip fib route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ 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>
} ] +
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
route	display IP routing table
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
summary	(Optional) display route counts
<i>prefix</i>	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
<i>address</i>	(Optional) display single longest match route
interface	(Optional) display routes with this output i/f only
<i>interface</i>	(Optional) output interface
next-hop	(Optional) display routes with this next-hop only
<i>nh</i>	(Optional) next hop address
attached	(Optional) display directly connected routes
unresolved	(Optional) display unresolved routes
adjacency	(Optional) display routes via specified adjacency
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next-hop address

drop	(Optional) display routes via drop adjacency
glean	(Optional) display routes via glean adjacency
punt	(Optional) display routes via punt adjacency
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show ip ftm statistics

show ip ftm statistics

Syntax Description

show	Show running system information
ip	Display IP information
ftm	FTM API
statistics	Statistics

Command Mode

- /exec

show ip ftp source-interface

```
show ip ftp source-interface [ vrf { <vrf-name> | <vrf-known-name> } ]
```

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

Command Mode

- /exec

show ip ftp source-interface vrf all

show ip ftp source-interface vrf all

Syntax Description

show	Show running system information
ip	Display IP information
ftp	Display FTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs

Command Mode

- /exec

show ip http source-interface

show ip http source-interface [vrf { <vrf-name> | <vrf-known-name> }]

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

Command Mode

- /exec

show ip http source-interface vrf all

show ip http source-interface vrf all

Syntax Description

show	Show running system information
ip	Display IP information
http	Display HTTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs

Command Mode

- /exec

show ip igmp

```
show ip igmp { groups | route } [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <interface> ] [
summary ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ summary-old ]
```

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

Command Mode

- /exec

show ip igmp

show ip igmp [internal] event-history { errors | msgs | <igmp-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
internal	(Optional) Commands for internal use
event-history	Show various event logs of IGMP
errors	Show error logs of IGMP
msgs	Show various message logs of IGMP
<i>igmp-event-hist-buf-name</i>	Show various logs of IGMP
statistics	Show state and size of buffer

Command Mode

- /exec

show ip igmp interface

```
show ip igmp interface <interface> [ detail ] | show ip igmp interface [ brief ] [ vrf { <vrf-name> |  
<vrf-known-name> | all } ]
```

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

Command Mode

- /exec

show ip igmp local-groups

show ip igmp local-groups [<interface>] [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip igmp policy statistics reports

show ip igmp policy statistics reports [<interface>]

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> }]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
vlan	(Optional) Display VLAN IGMP snooping membership information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping membership information
<i>bdid</i>	(Optional) Specify BD

Command Mode

- /exec

show ip igmp snooping

```
show ip igmp snooping [ otv ] groups [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ vlan <vlan> ] [ detail ] [ summary ]
```

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>source</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping

```
show ip igmp snooping [ internal ] event-history { statistics | <igmp-snoop-event-hist-buf-name> }
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
internal	(Optional) Display IGMP snooping internal information
event-history	Show various event logs of IGMP Snooping
statistics	Show state and size of the buffers
<i>igmp-snoop-event-hist-buf-name</i>	Show contents of event-history buffer

Command Mode

- /exec

show ip igmp snooping

show ip igmp snooping { report-policy | access-group } statistics [vlan <vlan>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
report-policy	IGMP Report Policy
access-group	IGMP access-group
statistics	Policy statistics
vlan	(Optional) Display VLAN IGMP snooping policy statistics information
<i>vlan</i>	(Optional) Specify VLAN

Command Mode

- /exec

show ip igmp snooping explicit-tracking

show ip igmp snooping explicit-tracking [vlan <vlan> | bridge-domain <bdid>]

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

Command Mode

- /exec

show ip igmp snooping lookup-mode

show ip igmp snooping lookup-mode [vlan <vlan>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
lookup-mode	IGMP Snooping lkup mode information
vlan	(Optional) Display VLAN/BD information
<i>vlan</i>	(Optional) Specify VLAN/BD

Command Mode

- /exec

show ip igmp snooping mac-oif

show ip igmp snooping mac-oif [vlan <vlan>] [detail]

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

Command Mode

- /exec

show ip igmp snooping mrouter

show ip igmp snooping mrouter [otv] [vlan <vlan> | bridge-domain <bdid>] [detail]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
mrouter	Display multicast routers detected
otv	(Optional) IGMP Snooping OTV information
vlan	(Optional) Display VLAN multicast router information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD multicast router information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) Display detailed mrouter information

Command Mode

- /exec

show ip igmp snooping otv vlan brief

show ip igmp snooping otv vlan brief

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

Command Mode

- /exec

show ip igmp snooping pw vlan brief

show ip igmp snooping pw vlan brief

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

Command Mode

- /exec

show ip igmp snooping querier

show ip igmp snooping querier [vlan <vlan> | bridge-domain <bdid>] [detail]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
querier	Display snooping querier information
vlan	(Optional) Display VLAN IGMP snooping querier information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping querier information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) Display detailed information

Command Mode

- /exec

show ip igmp snooping snmp mib adminMode

show ip igmp snooping snmp mib adminMode

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

Command Mode

- /exec

show ip igmp snooping snmp mib aliasingMode

show ip igmp snooping snmp mib aliasingMode

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

Command Mode

- /exec

show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus

show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus

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

Command Mode

- /exec

show ip igmp snooping snmp mib explicitTrackingTable

show ip igmp snooping snmp mib explicitTrackingTable [vlan <cisVlanIndex-in>]

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

Command Mode

- /exec

show ip igmp snooping snmp mib fallBackTime

show ip igmp snooping snmp mib fallBackTime

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

Command Mode

- /exec

show ip igmp snooping snmp mib fastBlockEnabled

show ip igmp snooping snmp mib fastBlockEnabled

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

Command Mode

- /exec

show ip igmp snooping snmp mib fastleaveenabled

show ip igmp snooping snmp mib fastleaveenabled

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

Command Mode

- /exec

show ip igmp snooping snmp mib filterStatsTable

```
show ip igmp snooping snmp mib filterStatsTable [ interface <ifIndex-in> vlan <cisFilterStatsVlanNumber-in> ]
```

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

Command Mode

- /exec

show ip igmp snooping snmp mib ifAccessGroupTable

show ip igmp snooping snmp mib ifAccessGroupTable [interface <ifIndex-in> vlan <cisIfAccessGroupVlan-in>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifAccessGroupTable	Display interface access group
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
vlan	(Optional) Display Interface access group VLAN/BD information
<i>cisIfAccessGroupVlan-in</i>	(Optional) Specify VLAN/BD

Command Mode

- /exec

show ip igmp snooping snmp mib ifConfigTable

show ip igmp snooping snmp mib ifConfigTable [interface <ifIndex-in>]

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

Command Mode

- /exec

show ip igmp snooping snmp mib ifLimitTable

show ip igmp snooping snmp mib ifLimitTable [interface <ifIndex-in> vlan <cisIfLimitVlanNumber-in>]

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 informaiton
<i>cisIfLimitVlanNumber-in</i>	(Optional) Specify VLAN/BD

Command Mode

- /exec

show ip igmp snooping snmp mib ifLimitTotalTable

show ip igmp snooping snmp mib ifLimitTotalTable [interface <ifIndex-in>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifLimitTotalTable	Display interface configuration
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index

Command Mode

- /exec

show ip igmp snooping snmp mib igmpsnoopingenabled

show ip igmp snooping snmp mib igmpsnoopingenabled

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

Command Mode

- /exec

show ip igmp snooping snmp mib interfaceStatsTable

show ip igmp snooping snmp mib interfaceStatsTable [interface <ifIndex-in>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
interfaceStatsTable	Display interface stats
interface	(Optional) Display interface information
<i>ifIndex-in</i>	(Optional) Interface Index

Command Mode

- /exec

show ip igmp snooping snmp mib lastMemeberQueryCount

show ip igmp snooping snmp mib lastMemeberQueryCount

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

Command Mode

- /exec

show ip igmp snooping snmp mib lastMemeberQueryInterval

show ip igmp snooping snmp mib lastMemeberQueryInterval

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

Command Mode

- /exec

show ip igmp snooping snmp mib leaveQueryType

show ip igmp snooping snmp mib leaveQueryType

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

Command Mode

- /exec

show ip igmp snooping snmp mib mcastGroupTable

```
show ip igmp snooping snmp mib mcastGroupTable [ vlan <cisMcastGroupVlanIndex-in>  
<cisMcastGroupAddressType-in> <cisMcastGroupAddress-in> ]
```

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

Command Mode

- /exec

show ip igmp snooping snmp mib mcastRouterCfgTable

```
show ip igmp snooping snmp mib mcastRouterCfgTable [ interface <ifIndex-in> vlan  
<cisMcastRouterVlanIndex-in> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastRouterCfgTable	show mib table cisMcastRouterCfgTable
interface	(Optional) Display Mcast Router Interface Information
<i>ifIndex-in</i>	(Optional) Specify the Mcast router interface
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastRouterVlanIndex-in</i>	(Optional) Specify VLAN/BD

Command Mode

- /exec

show ip igmp snooping snmp mib mcastRouterConfigTable

show ip igmp snooping snmp mib mcastRouterConfigTable [vlan <cisMcastRouterConfigVlanIndex-in>
interface <ifIndex-in>]

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

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> ]
```

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

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> ]
```

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

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> ]
```

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

Command Mode

- /exec

show ip igmp snooping snmp mib operMode

show ip igmp snooping snmp mib operMode

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

Command Mode

- /exec

show ip igmp snooping snmp mib querierTable

show ip igmp snooping snmp mib querierTable [vlan <cisIgmpQuerierVlanIndex-in>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
querierTable	Show mib table cisIgmpQuerierTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisIgmpQuerierVlanIndex-in</i>	(Optional) Specify VLAN/BD

Command Mode

- /exec

show ip igmp snooping snmp mib reportsuppressionenabled

show ip igmp snooping snmp mib reportsuppressionenabled

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

Command Mode

- /exec

show ip igmp snooping snmp mib robustnessVariable

show ip igmp snooping snmp mib robustnessVariable

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

Command Mode

- /exec

show ip igmp snooping snmp mib routerAlertCheckEnabled

show ip igmp snooping snmp mib routerAlertCheckEnabled

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

Command Mode

- /exec

show ip igmp snooping snmp mib sourceOnlyEntryAgingTime

show ip igmp snooping snmp mib sourceOnlyEntryAgingTime

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

Command Mode

- /exec

show ip igmp snooping snmp mib sourceOnlyLearningEnabled

show ip igmp snooping snmp mib sourceOnlyLearningEnabled

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

Command Mode

- /exec

show ip igmp snooping snmp mib tcnFloodQueryCount

show ip igmp snooping snmp mib tcnFloodQueryCount

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

Command Mode

- /exec

show ip igmp snooping snmp mib timeToLiveCheckEnabled

show ip igmp snooping snmp mib timeToLiveCheckEnabled

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

Command Mode

- /exec

show ip igmp snooping snmp mib topoChanageQuerySolicitEnabled

show ip igmp snooping snmp mib topoChanageQuerySolicitEnabled

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
topoChanageQuerySolicitEnabled	Specifies whether the device running IGMP Snooping will solicit IGMP General Queries from the Querier upon receiving a TCN

Command Mode

- /exec

show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus

show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus

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

Command Mode

- /exec

show ip igmp snooping snmp mib v3SnoopingSupport

show ip igmp snooping snmp mib v3SnoopingSupport

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

Command Mode

- /exec

show ip igmp snooping snmp mib vlanFilterConfigTable

show ip igmp snooping snmp mib vlanFilterConfigTable [vlan <cisVlanIndex-in>]

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

Command Mode

- /exec

show ip igmp snooping snmp mib vlanconfigtable

show ip igmp snooping snmp mib vlanconfigtable [vlan <cisVlanIndex-in>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
vlanconfigtable	Show mib table cisVlanConfigTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD

Command Mode

- /exec

show ip igmp snooping statistics

show ip igmp snooping statistics [global | vlan <vlan> | bridge-domain <bdid>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
statistics	Display packet/error counter statistics
global	(Optional) Display global statistics
vlan	(Optional) Display VLAN statistics
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD statistics
<i>bdid</i>	(Optional) Specify BD

Command Mode

- /exec

show ip igmp vrf all

show ip igmp vrf all

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
vrf	Display per-VRF information
all	Display information for all VRFs

Command Mode

- /exec

show ip interface

```
show ip interface { { { brief [ include-secondary ] } | [ <interface> ] | [ <ip-addr> ] } [ operational ] [ vaddr ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] }
```

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

Command Mode

- /exec

show ip lisp locator-hash

```
{ { show ip lisp locator-hash { <eid-prefix> | { <source-eid> <dest-eid> } } [ vrf { <vrf-name> |  
<vrf-known-name> } ] } | { show ipv6 lisp locator-hash { <eid-prefix6> | { <source-eid6> <dest-eid6> } } [  
vrf { <vrf-name> | <vrf-known-name> } ] } }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
locator-hash	Display source and dest locators for EID pair
<i>source-eid</i>	Source IPv4 endpoint identifier (EID)
<i>dest-eid</i>	Destination IPv4 endpoint identifier (EID)
<i>eid-prefix</i>	Display exact match for IP EID-prefix entry
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp map-cache

```
{ { show ip lisp map-cache [ <eid> | <eid-prefix> | detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] } | {  
show ipv6 lisp map-cache [ <eid6> | <eid-prefix6> | detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] } }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
map-cache	Display EID-to-RLOC cache mapping in this ITR
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>eid</i>	(Optional) Display mapping for IP destination EID
<i>eid-prefix</i>	(Optional) Display exact match for IP EID-prefix entry
detail	(Optional) Display entire map-cache in long format

Command Mode

- /exec

show ip lisp translate-cache

{ show ip lisp translate-cache [<nrEID>] } | { show ipv6 lisp translate-cache [<nrEID6>] }

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
translate-cache	Display configured translation cache
<i>nrEID</i>	(Optional) IPv4 address of inside non-routable EID
<i>nrEID6</i>	(Optional) IPv6 address of inside non-routable EID

Command Mode

- /exec

show ip load-sharing

show ip load-sharing

Syntax Description

show	Show running system information
ip	Configure IP features
load-sharing	Display global loadbalance info

Command Mode

- /exec

show ip local-pt

show ip local-pt [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

show	Show running system information
ip	Display IP information
local-pt	Display local ip address ptree
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ip logging

show ip logging [hash]

Syntax Description

show	Show running system information
ip	Display IP information
logging	Display IP policy logging table
hash	(Optional) logging hash data

Command Mode

- /exec

show ip msdp

```
show ip msdp { sa-cache | route } [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <asn> ] [ peer
<peer> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

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

Command Mode

- /exec

show ip msdp event-history

show ip msdp [<asn>] [internal] event-history { errors | msgs | <msdp-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
<i>asn</i>	(Optional) AS number
internal	(Optional) Commands for internal use
event-history	Show various event logs of MSDP
errors	Error logs of MSDP
msgs	Message logs of MSDP
<i>msdp-event-hist-buf-name</i>	Buffer
statistics	Buffer state

Command Mode

- /exec

show ip msdp count

```
show ip msdp count [ <asn> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

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

Command Mode

- /exec

show ip msdp mesh-group

show ip msdp mesh-group [<mesh-group>] [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip msdp peer

show ip msdp peer [<peer-address>] [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip msdp policy statistics sa-policy

```
show ip msdp policy statistics sa-policy <peer-address> { in | out } [ vrf { <vrf-name> | <vrf-known-name> } ]
```

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

Command Mode

- /exec

show ip msdp rpf

show ip msdp rpf <rp-address> [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip msdp sources

show ip msdp sources [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip msdp statistics

show ip msdp statistics [<peer-address>] [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip msdp summary

show ip msdp summary [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip nat max

show ip nat max

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
max	IP NAT max values

Command Mode

- /exec

show ip nat statistics

show ip nat statistics

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
statistics	Translation statistics

Command Mode

- /exec

show ip nat timeout

show ip nat timeout

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
timeout	IP NAT timeout values

Command Mode

- /exec

show ip nat translations

show ip nat translations [vrf { <vrf-name> | <vrf-known-name> }] [verbose]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
translations	Translation entries
verbose	(Optional) Show extra information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip ospf

show ip ospf [<tag>] [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip ospf ha

```
show ip ospf [ <tag> ] ha [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

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

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 } ] } } ]
```

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

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 ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
<i>neighbor</i>	(Optional) Router ID of neighbor
<i>neighbor-name</i>	(Optional) DNS Name of the neighbor
detail	Show detailed neighbor display
private	(Optional) Developer-only statistics

Command Mode

- /exec

show ip ospf neighbors summary

show ip ospf [<tag>] neighbors [<interface>] summary [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip ospf interface brief

show ip ospf [<tag>] interface brief [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip ospf interface

show ip ospf [<tag>] interface [<interface> | vrf { <vrf-name> | <vrf-known-name> | all }] [private]

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

Command Mode

- /exec

show ip ospf virtual-links brief

show ip ospf [<tag>] virtual-links brief [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip ospf (tag)

show ip ospf [<tag>]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ip ospf virtual-links

show ip ospf [<tag>] virtual-links [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip ospf summary-address

show ip ospf [<tag>] summary-address [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip ospf border-routers

show ip ospf [<tag>] border-routers [vrf { <vrf-name> | <vrf-known-name> | all }]

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

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 } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
<i>ip-prefix</i>	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
summary	Show route counts

Command Mode

- /exec

show ip ospf route

```
show ip ospf [ <tag> ] route [ <ip-addr> | <ip-prefix> [ longer-prefixes ] ] [ all_routes ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
<i>ip-addr</i>	(Optional) Show single OSPF route
<i>ip-prefix</i>	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
all_routes	(Optional) Display all OSPF routes

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 <advid> | adv-router-name <adv-name> ] detail [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
network	(Optional) Display network LSAs
asbr-summary	(Optional) Display type 4 (asbr-summary) LSAs
external	(Optional) Display type 5 (external) LSAs
router	(Optional) Display router LSAs
nssa-external	(Optional) Display type 7 (NSSA external) LSAs
opaque-link	(Optional) Display Opaque Link-Local LSAs
opaque-area	(Optional) Display Opaque Area LSAs
opaque-as	(Optional) Display Opaque AS LSAs
summary	(Optional) Display type 3 (network-summary) LSAs
self-originated	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
<i>advid</i>	(Optional) Advertising router ID
adv-router-name	(Optional) Restrict display by Advertising router name
<i>adv-name</i>	(Optional) DNS Name of the Advertising router

area	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
ext_tag	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
detail	Display LSA in detail

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 <advid> | adv-router-name <adv-name> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
network	(Optional) Display network LSAs
asbr-summary	(Optional) Display type 4 (asbr-summary) LSAs
external	(Optional) Display type 5 (external) LSAs
router	(Optional) Display router LSAs
nssa-external	(Optional) Display type 7 (NSSA external) LSAs
opaque-link	(Optional) Display Opaque Link-Local LSAs
opaque-area	(Optional) Display Opaque Area LSAs
opaque-as	(Optional) Display Opaque AS LSAs
summary	(Optional) Display type 3 (network-summary) LSAs
self-originated	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
<i>advid</i>	(Optional) Advertising router ID
adv-router-name	(Optional) Restrict display by Advertising router name
<i>adv-name</i>	(Optional) DNS Name of the Advertising router

area	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
ext_tag	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value

Command Mode

- /exec

show ip ospf database database-summary

show ip ospf [<tag>] database database-summary [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip ospf retransmission-list

show ip ospf [<tag>] retransmission-list { <routerid> | <router-name> } <interface>

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
retransmission-list	Link state retransmission list
<i>routerid</i>	Neighbor router ID
<i>router-name</i>	DNS Name of the router
<i>interface</i>	OSPF enabled interface

Command Mode

- /exec

show ip ospf request-list

show ip ospf [<tag>] request-list { <ip-addr> | <neighbor-name> } <interface>

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
request-list	Link state request list
<i>interface</i>	OSPF enabled interface
<i>ip-addr</i>	Neighbor router ID
<i>neighbor-name</i>	DNS Name of the neighbor

Command Mode

- /exec

show ip ospf lsa-content-changed-list

show ip ospf [<tag>] lsa-content-changed-list { <ip-addr> | <neighbor-name> } <interface>

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
lsa-content-changed-list	LSAs that changed contents
<i>interface</i>	OSPF enabled interface
<i>ip-addr</i>	Neighbor router ID
<i>neighbor-name</i>	DNS Name of the neighbor

Command Mode

- /exec

show ip ospf statistics

show ip ospf [<tag>] statistics [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip ospf traffic

```
show ip ospf [ <tag> ] traffic [ <interface> [ detail ] | [ detail ] | [ detail ] vrf { <vrf-name> | <vrf-known-name>
| all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
<i>interface</i>	(Optional) OSPF enabled interface
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Packet counters

Command Mode

- /exec

show ip ospf memory

show ip ospf [<tag>] memory

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

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 }
]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>inst</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
policy	Display Policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
isis	ISO Intermediate-to-Intermediate (IS-IS)
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
ospf	Open Shortest Path First (OSPFv2)
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
rip	Routing Information Protocol (RIP)
static	Static
direct	Directly connected
amt	AMT anycast prefix
<i>tag</i>	Source protocol tag
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas

in	Filter networks sent to this area
out	Filter networks sent from this area

Command Mode

- /exec

show ip ospf traps-queue

show ip ospf [<tag>] traps-queue

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
traps-queue	Show all the priority traps queue parameters

Command Mode

- /exec

show ip ospf missed-traps-statistics

show ip ospf [<tag>] [internal] missed-traps-statistics

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
missed-traps-statistics	Show the statistics for all the ospf traps not sent due to rate limiting

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 }

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

Command Mode

- /exec

show ip ospf event-history detail

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

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show event history of OSPF
detail	Show detailed event history information
statistics	(Optional) Show the state and size of the verbose history buffer

Command Mode

- /exec

show ip overlay-traffic

show ip overlay-traffic

Syntax Description

show	Show running system information
ip	Display IP information
overlay-traffic	Display IP overlay software processed traffic statistics

Command Mode

- /exec

show ip pim

show ip pim [internal] event-history { errors | msgs | <pim-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
internal	(Optional) Commands for internal use
event-history	Show various event logs of PIM
errors	Show error logs of PIM
msgs	Show various message logs of PIM
<i>pim-event-hist-buf-name</i>	Show event hist buffer name
statistics	Show the state and size of the buffer

Command Mode

- /exec

show ip pim bitfield

show ip pim bitfield

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
bitfield	Display compressed bitfield details

Command Mode

- /exec

show ip pim config-sanity

show ip pim config-sanity

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]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
df	Display Bidir Designated Forwarders
<i>rp-or-group</i>	(Optional) Display for a single RP or group address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	(Optional) Commands for internal use

Command Mode

- /exec

show ip pim fabric info

show ip pim fabric info

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

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 }]

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

Command Mode

- /exec

show ip pim interface

show ip pim interface <interface> | show ip pim interface [brief] [internal] [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip pim lisp encap

show ip pim lisp encap

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
lisp	LISP related information
encap	All the encap indices

Command Mode

- /exec

show ip pim neighbor

```
show ip pim neighbor { [ <interface> ] | [ <ipaddr> ] } [ detail | internal ] [ vrf { <vrf-name> |  
<vrf-known-name> | all } ]
```

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

Command Mode

- /exec

show ip pim oif-list

show ip pim oif-list <group> [<source>] [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
oif-list	Display interfaces for oif-list of PIM route
<i>source</i>	(Optional) Source address to display
<i>group</i>	Group address to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ip pim policy statistics

show ip pim policy statistics { jp-policy | neighbor-policy } <interface>

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 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

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 route

```
show ip pim route { [ bitfield ] | <source> <group> | <group> [ <source> ] [ bitfield ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

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

Command Mode

- /exec

show ip pim rp-hash

show ip pim rp-hash <group> [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip pim rp

show ip pim rp [<group>] [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip pim statistics

show ip pim statistics [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip pim vrf

show ip pim vrf [{ <vrf-name> | <vrf-known-name> | all }] [detail | internal]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
vrf	Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs PIM is configured for
detail	(Optional) Display detailed information
internal	(Optional) VRF related internal information

Command Mode

- /exec

show ip ping source-interface

show ip ping source-interface [vrf { <vrf-name> | <vrf-known-name> }]

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

Command Mode

- /exec

show ip ping source-interface vrf all

show ip ping source-interface vrf all

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

Command Mode

- /exec

show ip policy

show ip policy [vrf { <vrf-name> | <vrf-known-name> | all }] [detail]

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

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 ] } }
```

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

Command Mode

- /exec

show ip process

show ip process [api] [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip rip

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

Syntax Description

show	Show running system information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>as</i>	Autonomous system number
isis	Intermediate-to-intermediate (ISIS)
src-rip	Routing Information Protocol (RIP)
ospf	Open Shortest Path First (OSPFv2)
<i>tag</i>	Process tag
direct	Directly connected routes
static	Static routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ip router-id

show ip router-id [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

show	Show running system information
ip	Display IP information
router-id	Display IP router identification
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip sla application

show ip sla application

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
application	IP SLAs Application

Command Mode

- /exec

show ip sla configuration

show ip sla configuration [<entry-num>]

Syntax Description

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>]]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
collection-statistics	IP SLAs Collection Statistics
<i>operation-number</i>	(Optional) Entry Number
interval	(Optional) Aggregation Interval
<i>interval-in-secs</i>	(Optional) Interval in seconds

Command Mode

- /exec

show ip sla enhanced-history distribution-statistics

show ip sla enhanced-history distribution-statistics [<operation-number> [interval <interval-in-secs>]]

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

Command Mode

- /exec

show ip sla group schedule

show ip sla group schedule [<group-operation-number>]

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

Command Mode

- /exec

show ip sla history

show ip sla history [<operation-number>] [tabular | full | interval-statistics]

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

Command Mode

- /exec

show ip sla reaction-configuration

show ip sla reaction-configuration [<entry-num>]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-configuration	IP SLAs Reaction Configuration
<i>entry-num</i>	(Optional) Entry Number

Command Mode

- /exec

show ip sla reaction-trigger

show ip sla reaction-trigger [<entry-num>]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-trigger	IP SLAs Reaction Trigger
<i>entry-num</i>	(Optional) Entry Number

Command Mode

- /exec

show ip sla statistics

show ip sla statistics [aggregated] [<entry-num>] [details]

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

Command Mode

- /exec

show ip ssh source-interface

show ip ssh source-interface [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

show	Show running system information
ip	Display IP information
ssh	Display SSH client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip ssh source-interface vrf all

show ip ssh source-interface vrf all

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

Command Mode

- /exec

show ip static-route

show ip static-route [multicast] [internal] [track-table] [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ip stats

show ip stats

Syntax Description

show	Show running system information
ip	Display IP information
stats	Display IP internal stats

Command Mode

- /exec

show ip telnet source-interface

show ip telnet source-interface [vrf { <vrf-name> | <vrf-known-name> }]

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

Command Mode

- /exec

show ip telnet source-interface vrf all

show ip telnet source-interface vrf all

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

Command Mode

- /exec

show ip tftp source-interface

show ip tftp source-interface [vrf { <vrf-name> | <vrf-known-name> }]

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

Command Mode

- /exec

show ip tftp source-interface vrf all

show ip tftp source-interface vrf all

Syntax Description

show	Show running system information
ip	Display IP information
tftp	Display TFTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs

Command Mode

- /exec

show ip traceroute source-interface

show ip traceroute source-interface [vrf { <vrf-name> | <vrf-known-name> }]

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

Command Mode

- /exec

show ip traceroute source-interface vrf all

show ip traceroute source-interface vrf all

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

Command Mode

- /exec

show ip traffic

show ip traffic [vrf { <vrf-name> | <vrf-known-name> }]

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

Command Mode

- /exec

show ip txlist

show ip txlist { list | member }

Syntax Description

show	Show running system information
ip	Display IP information
txlist	Display IP txlist information
list	Display IP txlist main linkage
member	Display IP txlist active member linkage

Command Mode

- /exec

show ipv6 amt tunnel

```
show ipv6 amt tunnel [ <address6> <port> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

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

Command Mode

- /exec

show ipv6 cache

show ipv6 cache { { brief | detail } | { interface [<intf>] } } [operational]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
cache	Display ipv6 cache
interface	Display ipv6 related interface information
brief	Display summary of ipv6 interface status and configuration
detail	Display detailed information of ipv6 interface status and configuration
operational	(Optional) Display only interfaces that are administratively enabled
<i>intf</i>	(Optional) Interface name to display

Command Mode

- /exec

show ipv6 client

show ipv6 client [<client-name>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
client	Display clients registered with the IPv6 process
<i>client-name</i>	(Optional) Display information for a single IPv6 client

Command Mode

- /exec

show ipv6 dhcp relay

show ipv6 dhcp relay [interface <intf-range>]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show DHCPv6
relay	DHCPv6 relay address of the interface
interface	(Optional) DHCPv6 relay address of the interface
<i>intf-range</i>	(Optional) interface

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> ] ] ] ]
```

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

Command Mode

- /exec

show ipv6 eigrp

```
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 } ]
```

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

Command Mode

- /exec

show ipv6 fragments

show ipv6 fragments [<source-addr>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
fragments	Display queued fragments

Command Mode

- /exec

show ipv6 icmp

```
show ipv6 icmp { adjacency | neighbor | sync-entries } [ <interface> ] [ detail ] [ vrf { <vrf-name> |  
<vrf-known-name> | all } ]
```

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

Command Mode

- /exec

show ipv6 icmp off-list

show ipv6 icmp off-list [vlan <vlan-id>]

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

Command Mode

- /exec

show ipv6 icmp process sdb

show ipv6 icmp process sdb

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
process	Display process information
sdb	Dump IPv6 sdb in a file

Command Mode

- /exec

show ipv6 icmp vaddr

```
show ipv6 icmp vaddr { link-local [ detail ] | global | pt-tree } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vaddr	Show all virtual addresses configured
link-local	Display link-local virtual ipv6 addresses
detail	(Optional) Display detailed information
global	Display global virtual ipv6 addresses
pt-tree	Display link-local virtual ipv6 addresses pt-tree information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ipv6 icmp vpc-statistics

show ipv6 icmp vpc-statistics

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vpc-statistics	Show vPC global statistics

Command Mode

- /exec

show ipv6 interface

```
show ipv6 interface { [ brief [ include-secondary ] ] [ <interface> | <ipv6-addr> ] [ detail ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

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

Command Mode

- /exec

show ipv6 interface global

show ipv6 interface global

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
interface	Display IPv6 related interface information
global	Show IPv6 global parameters

Command Mode

- /exec

show ipv6 local-pt

show ipv6 local-pt [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
local-pt	Display IPv6 local address pt data structure
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs

Command Mode

- /exec

show ipv6 mtu

show ipv6 mtu [statistics | vrf { <vrf-name> | <vrf-known-name> | all [detail] }]

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

Command Mode

- /exec

show ipv6 nd ra dns search-list

show ipv6 nd ra dns search-list [interface <interface>]

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

Command Mode

- /exec

show ipv6 nd ra dns server

show ipv6 nd ra dns server [interface <interface>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
server	Domain Name System Server
interface	(Optional) Display Recursive DNS Server List information on interface
<i>interface</i>	(Optional) Interface name to display

Command Mode

- /exec

show ipv6 ndp

show ipv6 ndp

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ndp	Show IPv6 neighbors from netstack

Command Mode

- /exec

show ipv6 neighbor static

show ipv6 neighbor static [interface <interface>]

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

Command Mode

- /exec

show ipv6 policy

show ipv6 policy [vrf { <vrf-name> | <vrf-known-name> | all }]

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

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 ] } }
```

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

Command Mode

- /exec

show ipv6 process

show ipv6 process [vrf { <vrf-name> | <vrf-known-name> | all }]

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

Command Mode

- /exec

show ipv6 process sdb

show ipv6 process sdb

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
process	Display IPv6 global information
sdb	Dump IPv6 sdb in a file

Command Mode

- /exec

show ipv6 rip

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

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
isis	Intermediate-to-intermediate (ISIS)
src-rip	Routing Information Protocol (RIP)
ospfv3	Open Shortest Path First (OSPFv3)
lisp	LISP EID-prefixes
<i>tag</i>	Process tag
direct	Directly connected routes
static	Static routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ipv6 routers

```
show ipv6 routers [ all-routers ] [ [ interface <interface> ] | [ vrf { <vrf-name> | <vrf-known-name> | all } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
routers	Display neighbor router information
all-routers	(Optional) All routers even on down interface
interface	(Optional) Display neighbor router information on interface
<i>interface</i>	(Optional) Interface name to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show ipv6 static-route

```
show ipv6 static-route [ <prefix> ] [ multicast ] [ track-table ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

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

Command Mode

- /exec

show ipv6 statistics

show ipv6 statistics

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
statistics	Display IPv6 global statistics

Command Mode

- /exec

show ipv6 traffic

```
show ipv6 traffic [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

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

Command Mode

- /exec

show itd

show itd <svc-name> [brief]

Syntax Description

show	Show running system information
itd	ITD service
<i>svc-name</i>	ITD service name
brief	(Optional) brief

Command Mode

- /exec

show itd vrf

show itd vrf [<name>]

Syntax Description

show	Show running system information
itd	ITD service
vrf	ITD service vrf
<i>name</i>	(Optional) ITD Service VRF name

Command Mode

- /exec

show itd vrf