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setinservice

setinservice

Syntax	Description
setinservice	Put the node ports back in service.

show

```
show { { ip eigrp {topology | route} [prefix | active | pending | zero-successors | all-links] vrf {vrf-name | all} } | { ipv6 eigrp {topology | route} [ipv6-prefix | active | pending | zero-successors | all-links] vrf {vrf-name | all} } }
```

Syntax	Description
show	Show running system information.
ip	Display EIGRP information for IPv4 address family.
eigrp	Show EIGRP information.
topology	Display information on EIGRP topology (routes).
route	Display information on EIGRP routes.
active	Show Information on Active Routes only.
pending	Show Information on only the Routes pending on any replies.
zero-successors	Show Information on only the Routes having Zero Successors.
all-links	Show all Nexthops of a Route, not just Feasible Successors.
<i>prefix</i>	Show information on this Prefix only. The type is <i>ip</i> prefix.
<i>ipv6-prefix</i>	Show information on this ipv6 Prefix only. The type is <i>ipv6_prefix</i> .
vrf	Show EIGRP information per-VRF.
<i>vrf-name</i>	Name of the VRF. The type is string.
all	Show EIGRP information for all VRF.
ipv6	Display EIGRP information for IPv6 address family.

show

```
show { { ip eigrp neighbors [detail] {iface0} | { [ address ] vrf {vrf-name| all} } } } | { ipv6 eigrp neighbors
[detail] {iface0} | { [ ipv6-address] vrf {vrf-name| all} } } }
```

Syntax Description

show	Show running system information.
ip	Display EIGRP information for IPv4 address family.
ipv6	Display EIGRP information for IPv6 address family.
eigrp	Show EIGRP information.
neighbors	Display information on EIGRP neighbors (peers).
detail	Show detailed Information on Neighbors.
<i>iface0</i>	Show Peers on this interface only. The type is interface. The values are ethernet, port-channel, vlan, loopback.
<i>address</i>	Peer Address. The type is ipaddr.
<i>ipv6-address</i>	ipv6 Peer Address. The type is ipv6.
vrf	Show EIGRP information per-VRF.
<i>vrf-name</i>	Name of the VRF. The type is string.
all	Show EIGRP information for all VRF.

show

show [*path*]

Syntax Description

show Show Command.

path directory of the mo. The type is string.

show aaa

show aaa {authentication | groups}

Syntax Description

show	Show Information.
aaa	Authentication, Authorization and Accounting Information.
authentication	Authentication.
groups	Groups.

show aaa user default-role

show aaa user default-role

Syntax	Description
show	Show Information.
aaa	Authentication, Authorization and Accounting configuration mode.
user	User.
default-role	Default role assigned by aaa-admin for remote authentication.

show adjacency vrf

show { **ip** | **ipv6** } **adjacency** [{ *interface* | *ip-addr* }] [**detail** | **summary** | **non-best**] **vrf** { *vrf-name* | **all** }

Syntax Description

show	Show running system information.
ip	Display IP information.
ipv6	Display IPv6 information.
adjacency	Display adjacency table.
<i>interface</i>	Display specific interface adjacencies only. The type is interface.
summary	Show adjacency summary.
<i>ip-addr</i>	IPV4 source address. The type is ipaddr.
non-best	Show both best/non-best entries.
detail	Show detail information of adjacency entries.
vrf	Display per-VRF information.
<i>vrf-name</i>	VRF name. The type is string.
all	Show adjacency entries for all vrfs.

show bfd clients

show bfd clients

Syntax	Description
show	Show running system information.
bfd	BFD commands.
clients	Bfd client list.

show bfd ipv4 neighbors

```
show bfd ipv4 neighbors [{module module_no}] [{interface intf_id}] [{application bfd_cli_client_names}]
[{src-ip src_ip}] [{dest-ip dest_ip}] [{vrf {vrf-name | all}}] [details] [sort-by {src-ip | dest-ip | interface}]
```

Syntax	Description
show	Show running system information.
bfd	BFD commands.
ipv4	Ipv4 neighbors.
neighbors	Neighbors.
module	Module.
<i>module_no</i>	module number. The type is uinteger. to 32. The range is from 0
interface	Interface.
<i>intf_id</i>	show bfd sessions based on interface id. The type is interface. The values are ethernet, loopback, vlan, tunnel.
application	Application.
<i>bfd_cli_client_names</i>	Application name. The type is string.
src-ip	Source ip.
<i>src_ip</i>	Source ip value. The type is ipaddr.
dest-ip	Destination ip.
<i>dest_ip</i>	Destination ip value. The type is ipaddr.
vrf	Display per-VRF information.
<i>vrf-name</i>	VRF name. The type is string.
all	Display information for all VRFs.
details	Details.
sort-by	Sort by.

show bfd ipv6 neighbors

```
show bfd ipv6 neighbors [{module module_no}] [{interface intf_id}] [{application bfd_cli_client_names}]
[{src-ip src_ipv6}] [{dest-ip dest_ipv6}] [{vrf {vrf-name | all}}] [details] [sort-by {src-ip | dest-ip | interface}]
```

Syntax	Description
show	Show running system information.
bfd	BFD commands.
ipv6	Ipv6 neighbors.
neighbors	Neighbors.
module	Module.
<i>module_no</i>	module number. The type is uinteger. to 32. The range is from 0
interface	Interface.
<i>intf_id</i>	show bfd sessions based on interface id. The type is interface. The values are ethernet, loopback, vlan, tunnel.
application	Application.
<i>bfd_cli_client_names</i>	Application name. The type is string.
src-ip	Source ip.
<i>src_ipv6</i>	Source ipv6 value. The type is ipv6.
dest-ip	Destination ip.
<i>dest_ipv6</i>	Destination ipv6 value. The type is ipv6.
vrf	Display per-VRF information.
<i>vrf-name</i>	VRF name. The type is string.
all	Display information for all VRFs.
details	Details.
sort-by	Sort by.

show bfd neighbors

```
show bfd neighbors [{module module_no}] [{interface intf_id}] [{application bfd_cli_client_names}]
[{{src-ip src_ip}}] [{{dest-ip dest_ip}}] [{{vrf {vrf-name | all}}}] [details] [sort-by {src-ip | dest-ip | interface}]
```

Syntax	Description
show	Show running system information.
bfd	BFD commands.
neighbors	Neighbors.
module	Module.
<i>module_no</i>	module number. The type is uinteger. to 32. The range is from 0
interface	Interface.
<i>intf_id</i>	show bfd sessions based on interface id. The type is interface. The values are ethernet, loopback, vlan, tunnel.
application	Application.
<i>bfd_cli_client_names</i>	Application name. The type is string.
src-ip	Source ip.
<i>src_ip</i>	Source ip value. The type is ipaddr.
<i>src_ipv6</i>	Source ipv6 value. The type is ipv6.
dest-ip	Destination ip.
<i>dest_ip</i>	Destination ip value. The type is ipaddr.
<i>dest_ipv6</i>	Destination ipv6 value. The type is ipv6.
vrf	Display per-VRF information.
<i>vrf-name</i>	VRF name. The type is string.
all	Display information for all VRFs.
details	Details.
sort-by	Sort by.

show bgp convergence

```
show bgp convergence [detail] [{vrf {vrf-name | ALL_VRFS_012345678901234}}]
```

Syntax	Description
show	Show running system information.
bgp	Display BGP status and configuration.
convergence	Display BGP status and configuration.
detail	Display detailed information about convergence.
vrf	Virtual Router Context.
<i>vrf-name</i>	The type is string. VRF name.
ALL_VRFS_012345678901234	all.

show bgp neighbors vrf

```
show bgp { { { ipv4 | ipv6 | vpnv4 | vpnv6 } unicast } | { l2vpn evpn } | all } neighbors [neighbor-id |
neighbor-prefix-id | ipv6-neighbor-id | ipv6-neighbor-prefix-id] vrf { vrf-name | ALL_VRFS_012345678901234
}
```

Syntax	Description
show	Show running system information.
bgp	Show BGP information.
ipv4	Display BGP information for IPv4 address family.
ipv6	Display BGP information for IPv6 address family.
vpnv4	Display BGP information for VPNv4 address family.
vpnv6	Display BGP information for VPNv6 address family.
unicast	Display BGP information for IPv4 unicast address family.
l2vpn	Display BGP information for L2VPN EVPN address family.
evpn	Display BGP information for L2VPN EVPN address family.
all	Display BGP information for all address families.
neighbors	Display BGP neighbor information.
<i>neighbor-id</i>	The type is ipaddr. IPv4 neighbor address.
<i>neighbor-prefix-id</i>	The type is ipprefix. IPv4 prefix neighbor address.
<i>ipv6-neighbor-id</i>	The type is ipv6. IPv6 neighbor address.
<i>ipv6-neighbor-prefix-id</i>	The type is ipv6_prefix. IPv6 prefix neighbor address.
vrf	Show BGP information for a VRF.
ALL_VRFS_012345678901234	all.
<i>vrf-name</i>	Name of the VRF. The type is string.

show bgp process

```
show bgp [{vrf {vrf-name | ALL_VRFS_012345678901234}}] process [detail] [{vrf {vrf-name | ALL_VRFS_012345678901234}}]
```

Syntax	Description
show	Show running system information.
bgp	Display BGP status and configuration.
vrf	Virtual Router Context.
<i>vrf-name</i>	The type is string. VRF name.
ALL_VRFS_012345678901234	all.
process	BGP global information.
detail	Detailed information.

show bgp sessions vrf

`show bgp sessions vrf { all | vrf-name }`

Syntax Description

show Show running system information.

bgp Show BGP information.

sessions Show BGP sessions.

vrf Show BGP sessions in a VRF.

all Show BGP sessions for all VRFs.

vrf-name Name of the VRF. The type is string.

show bgp summary vrf

```
show bgp { { { ipv4 | ipv6 | vpnv4 | vpnv6 } unicast } | { l2vpn evpn } | all } summary vrf { vrf-name | ALL_VRFS_012345678901234 }
```

Syntax	Description
show	Show running system information.
bgp	Show BGP information.
ipv4	Display BGP information for IPv4 address family.
ipv6	Display BGP information for IPv6 address family.
vpnv4	Display BGP information for VPNv4 address family.
vpnv6	Display BGP information for VPNv6 address family.
unicast	Display BGP information for IPv4 unicast address family.
l2vpn	Display BGP information for L2VPN EVPN address family.
evpn	Display BGP information for L2VPN EVPN address family.
all	Display BGP information for all address families.
summary	Display summarized information of BGP state.
vrf	Show BGP information for a VRF.
ALL_VRFS_012345678901234	all.
<i>vrf-name</i>	Name of the VRF. The type is string.

show bgp vrf

```
show bgp { { { ipv4 | vpv4 } unicast [ip-prefix] } | { { ipv6 | vpv6 } unicast [ipv6-prefix] } | { l2vpn evpn
[ipv4-rt | ipv6-rt | mac-address ] {route-type rtype} } | {smad [{source src-v4-addr | src-v6-addr } ] [{group
grp-v4-addr | grp-v6-addr } ] [ {originator orig-v4-addr | orig-v6-addr } ] } } } vrf {vrf-name |
ALL_VRFS_012345678901234}
```

Syntax	Description
show	Show running system information.
bgp	Display BGP status and configuration.
ipv4	Display BGP information for IPv4 address family.
ipv6	Display BGP information for IPv6 address family.
vpnv4	Display BGP information for VPNv4 address family.
vpnv6	Display BGP information for VPNv6 address family.
unicast	Display unicast SAFI information.
l2vpn	Display BGP information for L2VPN EVPN address family.
evpn	Display BGP information for L2VPN EVPN address family.
<i>ip-prefix</i>	The type is ipprefix. IP address.
<i>ipv6-prefix</i>	The type is ipv6_prefix. IPv6 prefix.
<i>ipv4-rt</i>	The type is ipaddr. IP address.
<i>ipv6-rt</i>	The type is ipv6. IPv6 address.
<i>mac-address</i>	The type is ethernet. MAC address.
route-type	EVPN route type number.
<i>rtype</i>	The type is uinteger. EVPN route type number. The range is from 1 to 6.
smad	EVPN SMAD routes.
source	EVPN SMAD route source.
<i>src-v4-addr</i>	The type is ipaddr. IP address.
<i>src-v6-addr</i>	The type is ipv6. IPv6 address.
group	EVPN SMAD route group.
<i>grp-v4-addr</i>	The type is ipaddr. IP address.
<i>grp-v6-addr</i>	The type is ipv6. IPv6 address.
originator	EVPN SMAD route originator.

<i>orig-v4-addr</i>	The type is ipaddr. IP address.
<i>orig-v6-addr</i>	The type is ipv6. IPv6 address.
vrf	Virtual Router Context.
<i>vrf-name</i>	The type is string. VRF name.
ALL_VRFS_012345678901234	all.

show cdp all

show cdp all

Syntax	Description
show	Show running system information.
cdp	Show Cisco Discovery Protocol information.
all	Show all interfaces in CDP database.

show cdp entry

```
show cdp entry { all | { name dev-id } }
```

Syntax Description

show Show running system information.

cdp Show Cisco Discovery Protocol information.

entry Show CDP entries in database.

all Show all CDP entries in database.

name Show a specific CDP entry matching a name.

dev-id Device ID (Max Size 256). The type is string.

show cdp global

show cdp global

Syntax Description

show Show running system information.

cdp Show Cisco Discovery Protocol information.

global Show CDP global parameters.

show cdp interface

`show cdp interface arg0`

Syntax	Description
<code>show</code>	Show running system information.
<code>cdp</code>	Show Cisco Discovery Protocol information.
<code>interface</code>	Show CDP parameters for an interface.
<code><i>arg0</i></code>	Interface. The type is interface. The values are ethernet, mgmt.

show cdp neighbors

show cdp neighbors [{ **interface** *arg0* }] [**detail**]

Syntax Description

show	Show running system information.
cdp	Show Cisco Discovery Protocol information.
neighbors	Show CDP neighbors.
interface	Show CDP neighbors on an interface.
<i>arg0</i>	Interface. The type is interface. The values are ethernet, mgmt.
detail	Show CDP neighbors detailed.

show cdp traffic interface

show cdp traffic interface *arg0*

Syntax	Description
show	Show running system information.
cdp	Show Cisco Discovery Protocol information.
traffic	Show cdp traffic statistics.
interface	Show cdp traffic statistics on an interface.
<i>arg0</i>	Interface. The type is interface. The values are ethernet, mgmt.

show clock

show clock

Syntax Description

show Show running system information.

clock Display current Date.

show copp policy

show copp policy

Syntax	Description
show	Show running system information.
copp	Control Plane Policing (CoPP) information.
policy	CoPP policies.

show copp policy stats

show copp policy stats

Syntax Description

show Show running system information.

copp Control Plane Policing (CoPP) information.

policy CoPP policies.

stats CoPP policies packet statistics.

show copyright

show copyright

Syntax	Description
show	Show running system information.
copyright	Copyright information.

show cores

show cores [history]

Syntax Description

show Show information.

cores Show all core dumps for the current vdc.

history Show core dumps history.

show dcimgr mem-stats

show dcimgr mem-stats

Syntax	Description
show	Show running system information.
dcimgr	Show dci-Mgr information.
mem-stats	Show dcimgr memstats.

show dcimgr repo eteps

show dcimgr repo eteps

Syntax Description

show Show running system information.

dcimgr Display DCI Mgr information.

repo Display Object Store info.

eteps Display Remote site Tunnels endpoints.

show dcimgr repo sclass-maps

```
show dcimgr repo sclass-maps { [detail | verbose] }
```

Syntax	Description
show	Show running system information.
dcimgr	Display DCI Mgr information.
repo	Display Object Store info.
sclass-maps	Display Sclass map translations.
detail	Display detailed information.
verbose	Verbose Display.

show dcimgr repo vnid-maps

```
show dcimgr repo vnid-maps { [detail | verbose] }
```

Syntax Description

show	Show running system information.
dcimgr	Display DCI Mgr information.
repo	Display Object Store info.
vnid-maps	Display Vnid map translations.
detail	Display detailed information.
verbose	Verbose Display.

show diagnostic content module

`show diagnostic content module { all | module_id }`

Syntax	Description
show	Show information.
diagnostic	Diagnostic commands.
content	Show diagnostic test content.
module	Module Keyword.
all	Select all module ID.
<i>module_id</i>	Module ID. The type is string.

show diagnostic result module

show diagnostic result module { **all** | { *module_id* [{ **test** *test_id* }] } } [**detail**]

Syntax Description

show	Show information.
diagnostic	Diagnostic commands.
result	Show diagnostic test result.
module	Module Keyword.
all	Select all module ID.
test	Diagnostic test selection.
detail	Detailed result.
<i>module_id</i>	Module ID. The type is string.
<i>test_id</i>	Test ID. The type is string.

show diagnostic status module

show diagnostic status module *module_id*

Syntax	Description
show	Show information.
diagnostic	Diagnostic commands.
status	Show test status(running/enqueued).
module	<1-30> Module number.
<i>module_id</i>	Module ID. The type is string.

show dot1x

show dot1x [**all** | { **interface** *if-name* }]

Syntax Description

show Show running system information.

dot1x Show Dot1x information.

all Show Dot1x information for all Interfaces.

interface Show Dot1x information for specific interface.

if-name Interface. The type is interface. The values are ethernet.

show dpp policy

show dpp policy

Syntax	Description
show	Show running system information.
dpp	Data Plane Policing (DPP) information.
policy	DPP policies.

show eigrp interfaces

```
show { ip | ipv6 } eigrp interfaces [brief] { arg0 | { vrf { all | vrf-name } } }
```

Syntax Description

show	Show running system information.
ip	Display EIGRP information for IPv4 address family.
ipv6	Display EIGRP information for IPv6 address family.
eigrp	Show EIGRP information.
interfaces	Display information on EIGRP enabled interface.
brief	Show only Brief information.
<i>arg0</i>	Interface. The type is interface. The values are ethernet, port-channel, vlan, loopback.
vrf	Show EIGRP information per-VRF.
all	Show EIGRP information for all VRF.
<i>vrf-name</i>	Name of the VRF. The type is string.

show eigrp traffic vrf

```
show { ip | ipv6 } eigrp traffic vrf { all | vrf-name }
```

Syntax	Description
show	Show running system information.
ip	Display EIGRP information for IPv4 address family.
ipv6	Display EIGRP information for IPv6 address family.
eigrp	Show EIGRP information.
traffic	Display EIGRP traffic Statistics.
vrf	Show EIGRP information for a VRF.
all	Show EIGRP information for all VRFs.
<i>vrf-name</i>	Name of the VRF. The type is string.

show endpoint

```
show endpoint [ { { mac mac-addr } | { ip ip-addr | ipv6-addr } [ detail ] } | [ { { vrf vrf-name } | { vlan vlan-id } } | { interface interface-name } ] [ { summary | detail } ] ] ]
```

Syntax	Description
show	End point commands.
endpoint	End point.
mac	Mac address information.
ip	IPv4/IPv6 address information.
vrf	VRF.
vlan	VLAN.
interface	Interface.
summary	Endpoint summary information.
detail	Endpoint detailed information.
<i>mac-addr</i>	MAC Address. The type is ethernet.
<i>ip-addr</i>	IP address. The type is ipaddr.
<i>ipv6-addr</i>	IPV6 address. The type is ipv6.
<i>vrf-name</i>	VRF Name. The type is string.
<i>vlan-id</i>	VLAN ID. The type is integer. The range is from 1 to 4095.
<i>interface-name</i>	Interface name. The type is interface.

show environment

`show environment [fan | power | temperature]`

Syntax	Description
<code>show</code>	Show Information.
<code>environment</code>	Environment Information.
<code>fan</code>	Fan Information.
<code>power</code>	Power supply Information.
<code>temperature</code>	Sensor Temperature Information.



Note In the command output of the `show environment power` command, the Total Power Allocated (budget) summary data will be provided only for Cisco Nexus 9504, 9508, and 9516 modular spine switches. The Total Power Allocated (budget) summary data will not be provided for Cisco Nexus 9336 fixed spine switches or for leaf switches.

show environment fex

show environment fex { *fexid* | **all** } [{ **fan** | **power** | **temperature** }]

Syntax Description

show	Show running system information.
environment	System environment information.
fex	Show fex environment information.
<i>fexid</i>	FEX number. The type is integer. The range is from 101 to 199.
all	Show information for all FEX.
fan	Fan information.
power	Power capacity and power distribution information.
temperature	Temperature sensor information.

show fcoe

show fcoe [database]

Syntax	Description
show	Show running system information.
fcoe	Show FCOE parameters.
database	Show FCOE database.

show fex

show fex [{ *fexid* [**detail** | **version** | **transceiver**] } | **detail**]

Syntax Description

show	Show running system information.
fex	Show FEX information.
detail	Detailed information.
transceiver	Show FEX.
version	Show the software version.
<i>fexid</i>	FEX number. The type is integer. The range is from 101 to 199.

show fhs bt

```
show fhs bt [summary | detailed] { {all | static | local | data} [ {bd-vlan vlan-id} | {bd-vnid vnid} ] [sclass
epg-sclass] [ {ipv4 ipv4-addr | {all-ip}} | {ipv6 ipv6-addr | {all-ip}} ] [mac mac-addr]} { {arp | dhcpv4} [
{bd-vlan vlan-id} | {bd-vnid vnid} ] [sclass epg-sclass] [ {ipv4 ipv4-addr | {all-ip}} ] [mac mac-addr]} { {nd
| dhcpv6} [ {bd-vlan vlan-id} | {bd-vnid vnid} ] [sclass epg-sclass] [ {ipv6 ipv6-addr | {all-ip}} ] [mac
mac-addr]} }
```

Syntax Description

show	Show running system information.
fhs	Show information about SISF.
bt	Show SISF binding table information.
summary	Show SISF binding table summary information.
detailed	detailed information.
all	all protocol entries.
arp	arp entries.
dhcpv4	dhcpv4 entries.
nd	nd entries.
dhcpv6	dhcpv6 entries.
static	static entries.
local	local entries.
data	data entries.
bd-vlan	bridge domain encap.
bd-vnid	bridge domain vnid.
<i>vlan-id</i>	bd vlan. The type is integer. The range is from 1 to 4095.
<i>vnid</i>	bd vnid. The type is integer. The range is from 0 to 16777215.
sclass	epg sclass.
<i>epg-sclass</i>	epg sclass. The type is integer. The range is from 1 to 65534.
ipv4	ipv4 address family.
ipv6	ipv6 address family.
<i>ipv4-addr</i>	ipv4 address. The type is ipaddr.
<i>ipv6-addr</i>	ipv6 address. The type is ipv6.

all-ip all ip addresses.

mac mac address.

mac-addr mac address. The type is ethernet.

show fhs counters

```
show fhs counters { {arp {request|reply|all}} | {dhcpv4
{ack|decline|discover|inform|leaseactive|leasequery|leaseunassigned|leaseunknown|nack|offer|release|request|all}}
| {nd {na|ns|ra|redirect|rs|all}} | {dhcpv6
{advertise|confirm|decline|informationreq|rebind|reconfigure|relayforw|relayreply|release|renew|reply|request|solicit|all}}
| {all} } [ {bd-vlan vlan-id} | {bd-vnid vnid} ]
```

Syntax Description

show	Show running system information.
fhs	Show information about SISF.
counters	Show SISF counters.
arp	arp protocol.
dhcpv4	dhcpv4 protocol.
nd	neighbour discovery protocol.
dhcpv6	dhcpv6 protocol.
request	request counters.
reply	reply counters.
all	all counters.
ack	acknowledgment counters.
decline	decline counters.
discover	discover counters.
inform	inform counters.
leaseactive	leaseactive counters.
leasequery	leasequery counters.
leaseunassigned	leaseunassigned counters.
leaseunknown	leaseunknown counters.
nack	negative acknowledgment counters.
offer	offer counters.
release	release counters.
na	neighbor advert counters.
ns	neighbor solicit counters.

ra	router advert counters.
redirect	redirect counters.
rs	router solicit counters.
advertise	advertise counters.
confirm	confirm counters.
informationreq	information request counters.
rebind	rebind counters.
reconfigure	reconfigure counters.
relayforw	relay forward counters.
relayreply	relay reply counters.
renew	renew counters.
solicit	solicit counters.
bd-vlan	bridge domain encap.
bd-vnid	bridge domain vnid.
<i>vlan-id</i>	bd vlan. The type is integer. The range is from 1 to 4095.
<i>vnid</i>	bd vnid. The type is integer. The range is from 0 to 16777215.

show fhs features

```
show fhs features { {all} | {ipinspect-v4} | {ipinspect-v6} | {raguard} | {srcguard} } [ {bd-vlan vlan-id} |
{bd-vnid vnid} ]
```

Syntax	Description
show	Show running system information.
fhs	Show information about SISF.
features	Show SISF feature.
all	all features.
ipinspect-v4	ipv4inspect.
ipinspect-v6	ipv6inspect.
raguard	routeguard.
srcguard	sourceguard.
bd-vlan	bridge domain encap.
bd-vnid	bridge domain vnid.
<i>vlan-id</i>	bd vlan. The type is integer. The range is from 1 to 4095.
<i>vnid</i>	bd vnid. The type is integer. The range is from 0 to 16777215.

show flow cache

show flow cache [ipv4 | ipv6 | ce]

Syntax Description

show Show running system information.

flow Show NetFlow information.

cache Show NetFlow Exporter Cache.

ipv4 Show ipv4 cache entries.

ipv6 Show ipv6 cache entries.

ce Show ce cache entries.

show flow exporter

show flow exporter

Syntax	Description
show	Show running system information.
flow	Show NetFlow information.
exporter	Show NetFlow Exporter Configuration and Statistics.

show flow hw-profile

show flow hw-profile

Syntax	Description
show	Show running system information.
flow	Show information about netflow.
hw-profile	Hardware Profile.

show flow interface

show flow interface

Syntax	Description
show	Show running system information.
flow	Show NetFlow information.
interface	Flow interface information.

show flow monitor

show flow monitor

Syntax	Description
show	Show running system information.
flow	Show NetFlow information.
monitor	Show Monitor Configuration.

show flow record

show flow record

Syntax	Description
show	Show running system information.
flow	Show NetFlow information.
record	Show Record Configuration.

show flow timers

show flow timers

Syntax	Description
show	Show running system information.
flow	Show NetFlow information.
timers	Show Timer Values.

show flow vlan

show flow vlan

Syntax	Description
show	Show running system information.
flow	Show NetFlow information.
vlan	Flow vlan information.

show hardware

show hardware

Syntax	Description
show	Show running system information.
hardware	Show hardware information.

show hostname

show hostname

Syntax	Description
show	Show running system information.
hostname	Hostname.

show hsrp bfd-sessions

show hsrp bfd-sessions [**interface** *interface-id* [**to** {*addr_v4* | *addr_v6*}]] [**ipv4** | **ipv6**]

Syntax Description

show	Show running system information.
hsrp	Hot Standby Router Protocol (HSRP) information.
bfd-sessions	BFD sessions.
interface	Interface.
<i>interface-id</i>	The type is interface. Interface. The values are ethernet, port-channel, vlan.
to	To IP address.
<i>addr_v4</i>	IPv4 destination address for BFD session. The type is ipaddr.
<i>addr_v6</i>	IPv6 destination address for BFD session. The type is ipv6.
ipv4	IPv4 groups only.
ipv6	IPv6 groups only.

show hsrp delay

```
show hsrp delay [{interface interface-id}]
```

Syntax Description

show Show running system information.

hsrp Hot Standby Router Protocol (HSRP) information.

interface Groups on this interface.

interface-id The type is interface. Interface. The values are ethernet, port-channel, vlan.

delay Group initialisation delay.

show hsrp +

show hsrp [{interface *interface-id*}] [{group *group-number*}] [{active | init | learn | listen | speak | standby }]+ [all] [{brief [all1]} | {stats}] [{ipv4 | ipv6}]

Syntax	Description
show	Show running system information.
hsrp	Hot Standby Router Protocol (HSRP) information.
interface	Groups on this interface.
<i>interface-id</i>	The type is interface. Interface. The values are ethernet, port-channel, vlan.
active	Groups in active state.
init	Groups in init state.
learn	Groups in learn state.
listen	Groups in listen state.
speak	Groups in speak state.
standby	Groups in standby state.
group	Group number.
<i>group-number</i>	The type is integer. Group Number. The range is from 0 to 4095.
all	Include groups in disabled state.
brief	Brief output.
stats	HSRP packet stats output.
ipv4	HSRP V4 Groups.
ipv6	HSRP V6 Groups.
all1	Brief output.

show hsrp summary

show hsrp summary

Syntax	Description
show	Show running system information.
hsrp	Hot Standby Router Protocol (HSRP) information.
summary	Show HSRP summary.

show interface

show interface [*arg0*]

Syntax	Description
show	Show running system information.
interface	Interface.
<i>arg0</i>	Interface. The type is interface_mrange.

show interface brief

show interface [*arg0*] **brief**

Syntax	Description
show	Show running system information.
interface	Interface.
<i>arg0</i>	Interface. The type is interface_mrange.
brief	Show brief info of interface.

show interface capabilities

show interface [*arg0*] **capabilities**

Syntax Description

show Show running system information.

interface Interface.

arg0 Ethernet Interface. The type is interface_mrange. The values are ethernet.

capabilities Show interface capabilities information.

show interface counters

show interface *arg0* **counters**

Syntax Description

show Show running system information.

interface Show interface status and information.

arg0 Interface. The type is interface_mrange. The values are ethernet, port-channel, vlan, mgmt, vfc, vfc-port-channel.

counters Show interface counters.

show interface counters

```
show interface counters [ { fex fex-id } | { module mod-id } ]
```

Syntax Description

show Show running system information.

interface Show interface status and information.

counters Show interface counters.

fex Enter fex ID.

fex-id Enter FEX number. The type is integer. The range is from 101 to 199.

module Limit display to interfaces on module.

mod-id Enter module number. The type is integer. The range is from 1 to 30.

show interface counters brief

show interface *arg0* counters brief

Syntax Description

show Show running system information.

interface Show interface status and information.

arg0 Interface. The type is interface_mrange. The values are ethernet, port-channel, vfc, vfc-port-channel.

counters Show interface counters.

brief Show interface counters in brief.

show interface counters detailed

```
show interface [ arg0 ] counters detailed [ { all [ snmp ] } | snmp ]
```

Syntax Description

show	Show running system information.
interface	Show interface status and information.
<i>arg0</i>	Interface. The type is interface_mrange. The values are ethernet, port-channel, vlan, mgmt, vfc, vfc-port-channel.
counters	Show interface counters.
detailed	Show only non-zero counters.
all	Show every interface counter.
snmp	Show SNMP MIB values.

show interface counters errors

show interface *arg0* counters errors

Syntax	Description
show	Show running system information.
interface	Show interface status and information.
<i>arg0</i>	Interface. The type is interface_mrange. The values are ethernet, port-channel, mgmt.
counters	Show interface counters.
errors	Show interface error counters.

show interface counters errors

```
show interface counters errors [ { fex fex-id } | { module mod-id } ]
```

Syntax Description

show	Show running system information.
interface	Show interface status and information.
counters	Show interface counters.
errors	Show interface error counters.
fex	Enter fex ID.
<i>fex-id</i>	Enter FEX number. The type is integer. The range is from 101 to 199.
module	Limit display to interfaces on module.
<i>mod-id</i>	Enter module number. The type is integer. The range is from 1 to 30.

show interface counters snmp

`show interface arg0 counters snmp`

Syntax Description

show Show running system information.

interface Show interface status and information.

arg0 Interface. The type is `interface_mrange`. The values are `ethernet`, `port-channel`, `vlan`, `mgmt`.

counters Show interface counters.

snmp Show SNMP MIB values.

show interface counters snmp

```
show interface counters snmp [ { fex fex-id } | { module mod-id } ]
```

Syntax Description

show	Show running system information.
interface	Show interface status and information.
counters	Show interface counters.
snmp	Show SNMP MIB values.
fex	Enter fex ID.
<i>fex-id</i>	Enter FEX number. The type is integer. The range is from 101 to 199.
module	Limit display to interfaces on module.
<i>mod-id</i>	Enter module number. The type is integer. The range is from 1 to 30.

show interface debounce

show interface [*arg0*] debounce

Syntax Description

show Show running system information.

interface Show interface status and information.

arg0 Interface. The type is interface_mrange. The values are ethernet.

debounce Show interface debounce time information.

show interface description

show interface [*arg0*] **description**

Syntax Description

show Show running system information.

interface Interface.

arg0 Interface. The type is interface_mrange.

description Show interface description.

show interface fex-fabric

show interface fex-fabric

Syntax	Description
show	Show running system information.
interface	Show interface status and information.
fex-fabric	Show all FEX fabric ports.

show interface flowcontrol

show interface *arg0* flowcontrol

Syntax Description

show Show running system information.

interface Show interface status and information.

arg0 Interface. The type is interface_mrange. The values are ethernet, port-channel.

flowcontrol Show interface flowcontrol information.

show interface flowcontrol

```
show interface flowcontrol [ { fex fex-id } | { module mod-id } ]
```

Syntax Description

show	Show running system information.
interface	Show interface status and information.
flowcontrol	Show interface flowcontrol information.
fex	Limit display to interfaces on a FEX.
<i>fex-id</i>	Enter FEX number. The type is integer. The range is from 101 to 164.
module	Limit display to interfaces on module.
<i>mod-id</i>	Enter module number. The type is integer. The range is from 1 to 30.

show interface mac-address

show interface [*arg0*] **mac-address**

Syntax Description

show Show running system information.

interface Show interface status and information.

arg0 Interface. The type is interface_mrange. The values are ethernet, port-channel, vlan, mgmt.

mac-address Show interface MAC address.

show interface priority-flow-control

show interface [*arg0*] **priority-flow-control** [**details**]

Syntax	Description
show	Show running system information.
interface	Show interface status and information.
<i>arg0</i>	Ethernet Interface. The type is interface_mrange. The values are ethernet.
priority-flow-control	Show interface PFC information.
details	Show interface PFC detail information.

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.

show interface status

```
show interface arg0 status [ err-disabled | err-vlans ]
```

Syntax	Description
show	Show running system information.
interface	Show interface status and information.
<i>arg0</i>	Interface. The type is interface_mrange. The values are ethernet, port-channel, vlan, mgmt, loopback, tunnel.
status	Show interface line status.
err-disabled	Show interface error disabled state.
err-vlans	Show errored vlans.

show interface status

show interface status [**down** | **err-disabled** | **err-vlans** | { **fex** *fex-id* } | **inactive** | { **module** *mod-id* } | **up**]

Syntax Description

show	Show running system information.
interface	Show interface status and information.
status	Show interface line status.
down	Show interface down state.
err-disabled	Show interface error disabled state.
err-vlans	Show errored vlans.
fex	Limit display to interfaces on a FEX.
<i>fex-id</i>	Enter FEX number. The type is integer. The range is from 101 to 164.
inactive	Show interface inactive state.
module	Limit display to interfaces on module.
<i>mod-id</i>	Enter module number. The type is integer. The range is from 1 to 30.
up	Show interface up state.

show interface switchport

show interface [*arg0*] **switchport**

Syntax	Description
show	Show running system information.
interface	Show interface status and information.
<i>arg0</i>	Interface. The type is interface_mrange. The values are ethernet, port-channel.
switchport	Show interface switchport information.

show interface transceiver

show interface [*arg0*] **transceiver** [**fex-fabric**] [**calibrations** | **details** | **sprom**]

Syntax Description

show	Show Information.
interface	Interface.
<i>arg0</i>	Ethernet Interface. The type is interface_mrange. The values are ethernet.
transceiver	Transceiver Information.
fex-fabric	Show FEX interface transceiver information.
calibrations	Show interface transceiver calibration information.
details	Show interface transceiver detail information.
sprom	Show interface transceiver sprom information.

show interface trunk

show interface *arg0* trunk

Syntax	Description
show	Show running system information.
interface	Show interface status and information.
<i>arg0</i>	Interface. The type is interface_mrange. The values are ethernet, port-channel.
trunk	Show interface trunk information.

show interface trunk

show interface trunk [{ **vlan** *vlan-id* } | { **fex** *fex-id* } | { **module** *mod-id* }]

Syntax Description

show	Show running system information.
interface	Show interface status and information.
trunk	Show interface trunk information.
fex	Limit display to interfaces on a FEX.
<i>fex-id</i>	Enter FEX number. The type is integer. The range is from 101 to 164.
module	Limit display to interfaces on module.
<i>mod-id</i>	Enter module number. The type is integer. The range is from 1 to 30.
vlan	Show per vlan information for trunk.
<i>vlan-id</i>	Enter vlan range. The type is integer_mrange. The range is from 1 to 4095.

show inventory

```
show inventory [ chassis | fans | power_supply | {module [arg0]} ]
```

Syntax	Description
show	Show running system information.
inventory	System inventory information.
module	system inventory module information.
fans	system inventory fan information.
chassis	system inventory chassis information.
power_supply	system inventory power supply information.
<i>arg0</i>	please enter the module number. The type is integer. The range is from 1 to 30.

show ip arp

```
show ip arp [ { ip-address | detail | static | interface | { summary [interface] } | { statistics [ interface ] } } ] [ { vrf { all | vrf-name } } ]
```

Syntax	Description
show	Show running system information.
ip	Display IP information.
arp	Display ARP table and statistics.
statistics	Display ARP statistics.
static	Display Static ARP entries.
summary	Display ARP adjacency summary.
detail	Display detailed information.
vrf	Display per-VRF information.
all	Display all VRFs.
<i>interface</i>	Name of the Interface. The type is interface.
<i>ip-address</i>	Ip Address. The type is ipaddr.
<i>vrf-name</i>	Name of the VRF. The type is string.

show ip bgp neighbors vrf

```
show ip bgp neighbors [ arg0 ] vrf { all | vrf-name }
```

Syntax	Description
show	Show running system information.
ip	Display BGP information for IPv4 address family.
bgp	Show BGP information.
neighbors	Display all configured BGP neighbors.
<i>arg0</i>	Display one particular BGP neighbor. The type is ipaddr.
vrf	Show BGP sessions in a VRF.
all	Show BGP sessions for all VRFs.
<i>vrf-name</i>	Name of the VRF. The type is string.

show ip bgp nexthop-database

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

Syntax	Description
show	Show running system information.
ip	Display IP information.
bgp	Display BGP status and configuration.
ipv4	Display BGP information for IPv4 address family.
unicast	Display BGP information for IPv4 unicast address family.
multicast	Display BGP information for IPv4 multicast address family.
all	Display BGP information for all address families.
nexthop-database	Display nexthop database.
vrf	Virtual Router Context.
<i>vrf-name</i>	The type is string. VRF name.
ALL_VRFS_012345678901234	all.

show ip bgp nexthop

```
show ip bgp nexthop ipnexthop [{vrf {vrf-name | ALL_VRFS_012345678901234}}]
```

Syntax	Description
show	Show running system information.
ip	Display IP information.
bgp	Display BGP status and configuration.
nexthop	Display routes matching the nexthop.
<i>ipnexthop</i>	The type is ipaddr. Nexthop address.
vrf	Virtual Router Context.
<i>vrf-name</i>	The type is string. VRF name.
ALL_VRFS_012345678901234	all.

show ip bgp summary vrf

```
show {ip | ipv6} bgp summary vrf {vrf-name | ALL_VRFS_012345678901234}
```

Syntax	Description
show	Show running system information.
ip	Display IP information.
ipv6	Display IPv6 information.
bgp	Display BGP status and configuration.
summary	Show summary information.
vrf	Virtual Router Context.
<i>vrf-name</i>	The type is string. VRF name.
ALL_VRFS_012345678901234	all.

show ip bgp vrf

show ip bgp *{ip-addr|ip-prefix}* **vrf** *vrf-name*

Syntax	Description
show	Show running system information.
ip	Display IP information.
bgp	Display BGP status and configuration.
<i>ip-addr</i>	The type is ipaddr. IP address.
<i>ip-prefix</i>	The type is ipprefix. IP prefix.
vrf	Virtual Router Context.
<i>vrf-name</i>	The type is string. VRF name.

show ip community-list

show ip community-list [*strarg*]

Syntax Description

show	Show running system information.
ip	Display IP information.
community-list	List community-list.
<i>strarg</i>	Name of prefix list (Max Size 100). The type is string.

show ip dhcp client

```
show ip dhcp client [ statistics [ { interface intfname } ] ]
```

Syntax Description

show Show running system information.

ip Display IP information.

dhcp Show items in DHCP.

client DHCP client.

statistics Statistics related to DHCP.

interface DHCP client address of the interface.

intfname Slot/chassis number. The type is interface. The values are ethernet, port-channel, vlan, loopback.

show ip dhcp global statistics

show ip dhcp global statistics

Syntax	Description
show	Show running system information.
ip	Display IP information.
dhcp	Show items in DHCP.
global	DHCP global stats.
statistics	Statistics related to DHCP.

show ip dhcp relay

```
show ip dhcp relay [ { { statistics [ { interface intfname } ] } | { address [ { detail | { interface intfname [ detail ] } } ] } | { discover [ { interface intfname } ] | detail } ]
```

Syntax Description

show	Show running system information.
ip	Display IP information.
dhcp	Show items in DHCP.
relay	DHCP Relay.
address	DHCP relay address.
discover	DHCP relay node discovery.
statistics	Statistics related to DHCP.
detail	DHCP relay detailed information.
interface	DHCP relay address of the interface.
<i>intfname</i>	Slot/chassis number. The type is interface. The values are ethernet, port-channel, vlan, loopback.

show ip eigrp event vrf

show {ip|ipv6} eigrp event vrf {*vrf-name* | **all**}

Syntax	Description
show	Show running system information.
ip	Display IP information.
ipv6	Display IPv6 information.
eigrp	Display EIGRP status and configuration.
event	IP-EIGRP Events.
vrf	Virtual Router Context.
<i>vrf-name</i>	The type is string. VRF name.
all	Display information for all VRFs.

show ip eigrp vrf

show {ip|ipv6} eigrp [**detail**] vrf {*vrf-name* | **all**}

Syntax	Description
show	Show running system information.
ip	Display IP information.
ipv6	Display IPv6 information.
eigrp	Display EIGRP status and configuration.
detail	Display detailed information.
vrf	Virtual Router Context.
<i>vrf-name</i>	The type is string. VRF name.
all	Display information for all VRFs.

show ip extcommunity-list

show ip extcommunity-list [*strarg*]

Syntax Description

show	Show running system information.
ip	Display IP information.
extcommunity-list	List extcommunity-list.
<i>strarg</i>	Name of prefix list (Max Size 100). The type is string.

show ip igmp gipo joins

show ip igmp gipo joins

Syntax	Description
show	Show running system information.
ip	Display IP information.
igmp	Display IGMP status and configuration.
gipo	Show IGMP gipo information.
joins	Show IGMP gipo Join Summary.

show ip igmp interface

show ip igmp interface [*intf*] [**brief**] [**vrf** {*vrf-name* | **all**}]

Syntax Description

show	Show running system information.
ip	Show IP information.
igmp	IGMP protocol events.
interface	IGMP Interface.
<i>intf</i>	Display neighbors on single interface name. The type is interface. The values are brief, ethernet, loopback, port-channel, tunnel, vlan, vrf.
brief	Display properties on single IGMP interface in brief.
vrf	Display per-VRF information.
<i>vrf-name</i>	VRF name (Max Size 32).
all	Display information for all VRFs.

show ip igmp snooping

```
show ip igmp snooping [ { vlan vlan } ] [ extended ]
```

Syntax	Description
show	Show running system information.
ip	Show IP information.
igmp	Show IGMP information.
snooping	IGMP Snooping information.
vlan	Display Vlan IGMP snooping membership information.
extended	Display Extended Vlan IGMP snooping membership information.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ip igmp snooping explicit-tracking

```
show ip igmp snooping explicit-tracking [ { vlan vlan } ] [ encap ] [ extended ]
```

Syntax	Description
show	Show running system information.
ip	Show IP information.
igmp	Show IGMP information.
snooping	IGMP Snooping information.
explicit-tracking	Display explicit-tracking database for IGMPv3.
vlan	Display Vlan explicit-tracking database.
encap	Display Encap Vlan explicit-tracking database.
extended	Display Extended Vlan explicit-tracking database.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ip igmp snooping groups + +

show ip igmp snooping groups [*group* | *source*]+ [{ **vlan** *vlan* }] [**encap**] [**extended**] [**detail** | **summary**]+

Syntax	Description
show	Show running system information.
ip	Show IP information.
igmp	Show IGMP information.
snooping	Show IGMP Snooping information.
groups	Display snooping information for group address.
<i>group</i>	Multicast IP address of single group to display. The type is ipaddr.
<i>source</i>	Source IP address. The type is ipaddr.
detail	Display detailed information for the group.
summary	Display snooping group summary.
vlan	Display Vlan IGMP snooping membership information.
encap	Display Encap Vlan IGMP snooping membership information.
extended	Display Extended Vlan IGMP snooping membership information.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ip igmp snooping lookup-mode

show ip igmp snooping lookup-mode [{ *vlan* *vlan* }] [**extended**]

Syntax	Description
show	Show running system information.
ip	Show IP information.
igmp	Show IGMP information.
snooping	IGMP Snooping information.
lookup-mode	IGMP Snooping lkup mode information.
vlan	Display Vlan information.
extended	Display Extended Vlan IGMP snooping lkup mode information.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ip igmp snooping mrouter

```
show ip igmp snooping mrouter [ { vlan vlan } ] [ encap ] [ extended ] [ detail ]
```

Syntax	Description
show	Show running system information.
ip	Show IP information.
igmp	Show IGMP information.
snooping	IGMP Snooping information.
mrouter	Display multicast routers detected.
detail	Display detailed mrouter information.
vlan	Display Vlan multicast router information.
encap	Display Encap Vlan IGMP snooping mrouter information.
extended	Display Extended Vlan IGMP snooping mrouter information.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ip igmp snooping querier

show ip igmp snooping querier [{ **vlan** *vlan* }] [**extended**] [**detail**]

Syntax Description

show	Show running system information.
ip	Show IP information.
igmp	Show IGMP information.
snooping	IGMP Snooping information.
querier	Display snooping querier information.
detail	Display detailed information.
vlan	Display Vlan IGMP snooping querier information.
extended	Display Extended Vlan IGMP snooping Querier information.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ip igmp snooping statistics

```
show ip igmp snooping statistics [ { vlan vlan } ] [ extended ] [ global ]
```

Syntax Description

show	Show running system information.
ip	Show IP information.
igmp	Show IGMP information.
snooping	IGMP Snooping information.
statistics	Display packet/error counter statistics.
global	Display global statistics.
vlan	Display vlan statistics.
extended	Display Extended Vlan IGMP snooping statistics information.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

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.

show ip interface

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

Syntax	Description
show	Show running system information.
ip	Display IP information.
interface	Display IP related interface information.
brief	Show brief info of interface.
include-secondary	Display summary of all IP addresses.
operational	Display only interfaces that are administratively enabled.
vrf	Display per-VRF information.
all	Display all VRFs.
<i>interface</i>	Name of the Interface. The type is interface. The values are ethernet, port-channel, vlan, mgmt, loopback, tunnel.
<i>ip-addr</i>	Ip Address. The type is ipaddr.
<i>vrf-name</i>	Name of the VRF. The type is string.
<i>local-addr</i>	Display interface for local IP address. The type is string.

show ip mroute

```
show ip mroute [[detail] | {summary [count | software-forwarded | rpf-failed]} | { [group [source]
[shared-tree | source-tree] ]}] [[flags] | [detail] | [summary [software-forwarded | rpf-failed]]] [vrf
{vrf-name | all}]
```

Syntax	Description
show	Show running system information.
ip	Show IP information.
vrf	Display per-VRF information.
all	Display information for all VRFs.
mroute	Display IP multicast routing table.
summary	Display route counts and packet rates.
shared-tree	Display route for *,G entries.
source-tree	Display route for S,G entries.
software-forwarded	Display software switched route counts only.
rpf-failed	Display RPF failure statistics.
<i>source</i>	Source IP address. The type is ipaddr.
<i>group</i>	Multicast IP address of single group to display. The type is ipaddr.
<i>vrf-name</i>	The type is string. VRF name.
count	Display route counts only.
detail	Display detailed route attributes.
flags	Display detailed route attributes.

show ip msdp count

show ip msdp count [*as-number*] [**vrf** {*vrf-name* | **all** }]

Syntax	Description
show	Show running system information.
ip	Show IP information.
msdp	Display MSDP status and configuration.
count	Display SA cache counters.
<i>as-number</i>	AS number. The type is asn.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip msdp mesh-group

show ip msdp mesh-group [*mesh-name*] [**vrf** {*vrf-name* | **all** }]

Syntax Description

show	Show running system information.
ip	Show IP information.
msdp	Display MSDP status and configuration.
mesh-group	Display members of mesh-group.
<i>mesh-name</i>	Display single mesh-group. The type is string.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip msdp +

show ip msdp {**sa-cache** | **route**} [*group* | *source*]+ [*asn*] [{**peer** *ipaddr*}] [**detail**] [**vrf** {*vrf-name* | **all** }]

Syntax	Description
show	Show running system information.
ip	Show IP information.
msdp	Display MSDP status and configuration.
sa-cache	Display MSDP SA route cache.
route	Display MSDP SA route cache.
<i>source</i>	Display group/source address for SA. The type is <i>ipaddr</i> .
<i>group</i>	Display group/source address for SA. The type is <i>ipaddr</i> .
<i>asn</i>	AS number. The type is <i>asn</i> .
peer	Display MSDP SA received from single peer.
<i>ipaddr</i>	IP address of peer for SA. The type is <i>ipaddr</i> .
detail	Display detailed information.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip msdp peer

show ip msdp peer [*ipaddr*] [**vrf** {*vrf-name* | **all** }]

Syntax	Description
show	Show running system information.
ip	Show IP information.
msdp	Display MSDP status and configuration.
peer	Display MSDP peer information.
<i>ipaddr</i>	IP address of MSDP peer. The type is ipaddr.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip msdp policy statistics sa-policy

```
show ip msdp policy statistics sa-policy ipaddr {in | out} [vrf {vrf-name | all }]
```

Syntax	Description
show	Show running system information.
ip	Show IP information.
msdp	Display MSDP status and configuration.
policy	Policy information.
statistics	Policy statistics.
sa-policy	Configured SA policy for MSDP peer.
<i>ipaddr</i>	IP address of MSDP peer for SA policy. The type is ipaddr.
in	Input policy.
out	Output policy.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip msdp rpf

show ip msdp rpf [*rpaddr*] [**vrf** {*vrf-name* | **all** }]

Syntax Description

show	Show running system information.
ip	Show IP information.
msdp	Display MSDP status and configuration.
rpf	Display RPF-peer for RP address.
<i>rpaddr</i>	IP address of RP. The type is ipaddr.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip msdp sources

show ip msdp sources [*vrf* {*vrf-name* | **all** }]

Syntax	Description
show	Show running system information.
ip	Show IP information.
msdp	Display MSDP status and configuration.
sources	Display learned sources with their group counts and limits.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip msdp summary

show ip msdp summary [*vrf* {*vrf-name* | **all** }]

Syntax Description

show	Show running system information.
ip	Show IP information.
msdp	Display MSDP status and configuration.
summary	Display MSDP peer summary.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip ospf database

```
show ip ospf [ptag] database [[[network | asbr-summary | summary | router | opaque-link | opaque-area
| nssa-external] [{area area-id-ip}] | {external [{ext_tag tag_val}}] | opaque-as] [lsid] [self-originated |
{adv-router adv-id] | {adv-router-name adv-name } ] [vrf {vrf-name | all}]
```

Syntax	Description
show	Show running system information.
ip	Display IP information.
ospf	Display OSPF status and configuration.
ptag	Process tag, when multiple OSPF instances exist.
database	Link-state Database Summary.
network	Display network LSAs.
asbr-summary	Display type 4 (asbr-summary) LSAs.
summary	Display type 3 (network-summary) LSAs.
router	Display router LSAs.
opaque-link	Display Opaque Link-Local LSAs.
opaque-area	Display Opaque Area LSAs.
nssa-external	Display type 7 (NSSA external) LSAs.
area	Display only LSA's in this area.
<i>area-id-ip</i>	The type is ipaddr. Area Id as an integer or ip address.
external	Display type 5 (external) LSAs.
ext_tag	Restrict display by tag.
<i>tag_val</i>	The type is uinteger. 32-bit tag value.
opaque-as	Display Opaque AS LSAs.
<i>lsid</i>	The type is ipaddr. Restrict display by link state ID.
self-originated	Display only self-originated LSAs.
adv-router	Restrict display by Advertising router.
<i>adv-id</i>	The type is ipaddr. Advertising router ID.
adv-router-name	Restrict display by Advertising router name.
<i>adv-name</i>	The type is string. DNS Name of the Advertising router.

vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name.
all	Display information for all VRFs.

Usage Guidelines

In NX-OS releases that support multiple OSPF instances, a command such as `show ip ospf database` displays output only from the first registered OSPF process. To display output from other OSPF processes, you must include a process tag in the command: `show ip ospf <ptag> database`. You can view the running processes and obtain the process tag using a VSH command, as in the following example:

```
(none)# vsh -c "show cli internal ctags" | grep -i ospf
 4276 281    119 ospf      multipodIn 2450  ready    ospf-multipodInternal
 4278 281    119 ospf      default    2455  ready    ospf-default
 4277 282    128 ospfv3     default    2478  ready    ospfv3-default
```

To display the output of the OSPF default process in this example, use the command `show ip ospf default database`.

show ip ospf database detail

show ip ospf 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* | **all**}]

Syntax	Description
show	Show running system information.
ip	Display IP information.
ospf	Display OSPF status and configuration.
database	Link-state Database Summary.
network	Display network LSAs.
asbr-summary	Display type 4 (asbr-summary) LSAs.
summary	Display type 3 (network-summary) LSAs.
router	Display router LSAs.
opaque-link	Display Opaque Link-Local LSAs.
opaque-area	Display Opaque Area LSAs.
nssa-external	Display type 7 (NSSA external) LSAs.
area	Display only LSA's in this area.
<i>area-id-ip</i>	The type is ipaddr. Area Id as an integer or ip address.
external	Display type 5 (external) LSAs.
ext_tag	Restrict display by tag.
<i>tag_val</i>	The type is uinteger. 32-bit tag value.
opaque-as	Display Opaque AS LSAs.
<i>lsid</i>	The type is ipaddr. Restrict display by link state ID.
self-originated	Display only self-originated LSAs.
adv-router	Restrict display by Advertising router.
<i>advid</i>	The type is ipaddr. Advertising router ID.
adv-router-name	Restrict display by Advertising router name.
<i>adv-name</i>	The type is string. DNS Name of the Advertising router.
detail	Display LSA in detail.

vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name.
all	Display information for all VRFs.

show ip ospf interface

```
show ip ospf interface { arg0 | { [ brief ] vrf { all | vrf-name } } }
```

Syntax Description

show	Show running system information.
ip	Ipv4.
ospf	Display OSPF status and configuration.
interface	OSPF enabled interface.
<i>arg0</i>	Interface. The type is interface. The values are ethernet, port-channel, vlan, loopback.
brief	Display summary of OSPF interfaces.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>vrf-name</i>	VRF name (Max Size 32). The type is string.

show ip ospf neighbors

```
show ip ospf neighbors { arg0 [ { ip [ detail ] } | detail | summary ] [vrf { all | vrf-name } ] } | [ { ip [ detail ] } | detail | summary ] vrf { all | vrf-name }
```

Syntax	Description
show	Show running system information.
ip	Ipv4.
ospf	Display OSPF status and configuration.
neighbors	Neighbor list.
<i>ip</i>	Router ID of neighbor. The type is ipaddr.
detail	Show detailed neighbor display.
<i>arg0</i>	Interface. The type is interface. The values are ethernet, port-channel, vlan, loopback.
summary	Summary of neighbors.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>vrf-name</i>	VRF name (Max Size 32). The type is string.

show ip ospf route vrf

```
show ip ospf route [ summary | { ippfx [ longer-prefixes ] [ summary ] } | ip ] vrf { all | vrf-name }
```

Syntax	Description
show	Show running system information.
ip	Ipv4.
ospf	Display OSPF status and configuration.
route	Internal OSPF routes.
<i>ip</i>	Show single OSPF route. The type is ipaddr.
<i>ippfx</i>	Show single exact match OSPF route. The type is ipprefix.
summary	Show route counts.
longer-prefixes	Show exact match and more specific routes.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>vrf-name</i>	VRF name (Max Size 32). The type is string.

show ip ospf summary-address vrf

```
show ip ospf summary-address vrf { all | vrf-name }
```

Syntax	Description
show	Show running system information.
ip	Ipv4.
ospf	Display OSPF status and configuration.
summary-address	Summary-address redistribution information.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>vrf-name</i>	VRF name (Max Size 32). The type is string.

show ip ospf traffic

```
show ip ospf traffic { arg0 | { vrf { all | vrf-name } } }
```

Syntax Description

show	Show running system information.
ip	Ipv4.
ospf	Display OSPF status and configuration.
traffic	Packet counters.
<i>arg0</i>	Interface. The type is interface. The values are ethernet, port-channel, vlan, loopback.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>vrf-name</i>	VRF name (Max Size 32). The type is string.

show ip ospf vrf

show ip ospf vrf { **all** | *vrf-name* }

Syntax Description

show	Show running system information.
ip	Ipv4.
ospf	Display OSPF status and configuration.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>vrf-name</i>	VRF name (Max Size 32). The type is string.

show ip pim group-range

```
show ip pim group-range [group] [vrf {vrf-name | all}]
```

Syntax	Description
show	Show running system information.
ip	Show IP information.
pim	Display PIM status and configuration.
group-range	Display the various group-ranges.
<i>group</i>	IP address of the group to display. The type is ipaddr.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip pim interface

show ip pim interface [*intf*] [**brief**] [**vrf** {*vrf-name* | **all**}]

Syntax Description

show	Show running system information.
ip	Show IP information.
pim	Display PIM status and configuration.
interface	Display PIM interface related information.
<i>intf</i>	Display properties on single PIM interface. The type is interface. The values are brief, ethernet, loopback, port-channel, tunnel, vlan, vrf.
brief	Display one line status per PIM interface.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip pim neighbor

show ip pim neighbor {[*interface*] | [*ipaddr*]} [**vrf** {*vrf-name* | **all**}]

Syntax Description

show	Show running system information.
ip	Show IP information.
pim	Display PIM status and configuration.
neighbor	Display PIM neighbor related information.
<i>interface</i>	Display neighbors on single interface name. The type is interface. The values are ethernet, loopback, port-channel, tunnel, vlan, vrf.
<i>ipaddr</i>	IP address of single neighbor to display. The type is ipaddr.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip pim oif-list

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

Syntax Description

show	Show running system information.
ip	Show IP information.
pim	Display PIM status and configuration.
oif-list	Display interfaces for oif-list of PIM route.
<i>group</i>	Group address to display. The type is ipaddr.
<i>source</i>	Source address to display. The type is ipaddr.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip pim route

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

Syntax Description

show	Show running system information.
ip	Show IP information.
pim	Display PIM status and configuration.
route	Display PIM route cache.
<i>group</i>	Multicast IP address of single group to display. The type is ipaddr.
<i>source</i>	Source IP address. The type is ipaddr.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip pim rp

show ip pim rp [*group*] [**vrf** {*vrf-name* | **all**}]

Syntax Description

show	Show running system information.
ip	Show IP information.
pim	Display PIM status and configuration.
rp	Display PIM RP, Auto-RP, and BSR related information.
<i>group</i>	Display RP for group address. The type is ipaddr.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip pim statistics

show ip pim statistics [**vrf** {*vrf-name* | **all**}]

Syntax	Description
show	Show running system information.
ip	Show IP information.
pim	Display PIM status and configuration.
statistics	Display PIM Statistics per-VRF.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name (Max Size 32).
all	Display information for all VRFs.

show ip prefix-list

show ip prefix-list [*strarg*]

Syntax Description

show Show running system information.

ip Display IP information.

prefix-list List IP prefix lists.

strarg Name of prefix list (Max Size 100). The type is string.

show ip process

```
show ip process [ { vrf { all | vrf-name } } ]
```

Syntax	Description
show	Show running system information.
ip	Display IP information.
process	Display IP global information.
vrf	Display per-VRF information.
all	Display all VRFs.
<i>vrf-name</i>	Name of the VRF. The type is string.

show ip route

```
show ip route { [ ip-addr | ip-prefix [{longer-prefixes|shorter-prefixes}] ] [ bgp | eigrp | ospf ] [ {
next-hop nh } | { interface intf } | { updated [ { since stime } ] [ { until utime } ] } ]+ [ summary | detail
] vrf {vrf-name | all} } | { vrf {vrf-name | all} [ ip-addr | ip-prefix [{longer-prefixes|shorter-prefixes}] ]
[ { next-hop nh } | { interface intf } | { updated [ { since stime } ] [ { until utime } ] } ]+ [ summary |
detail ] } }
```

Syntax Description

show	Show running system information.
ip	Display IP information.
route	Display routing information.
<i>ip-addr</i>	Display single route longest match lookup. The type is ipaddr.
<i>ip-prefix</i>	Display single exact match route. The type is ipprefix.
longer-prefixes	Display matching routes with mask-lengths >= prefix.
shorter-prefixes	Display matching routes with mask-lengths <= prefix.
next-hop	Display routes with this next-hop only.
<i>nh</i>	Next hop address. The type is ipaddr.
interface	Display routes with this output interface only.
<i>intf</i>	Interface Name. The type is interface.
updated	Display routes filtered by last updated time.
since	Display those routes updated since this time.
<i>stime</i>	Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]. The type is string.
until	Display those routes updated until this time.
<i>utime</i>	Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]. The type is string.
summary	Display route counts.
detail	Display routes in full detail.
vrf	Display per-VRF information.
<i>vrf-name</i>	VRF name. The type is string.
bgp	
ospf	
eigrp	
all	Display information for all VRFs.

show ip static-route

```
show ip static-route [ { vrf { all | vrf-name } } ]
```

Syntax	Description
show	Show running system information.
ip	Display IP information.
static-route	Display configured static routes.
vrf	Display per-VRF information.
all	Display all VRFs.
<i>vrf-name</i>	Name of the VRF. The type is string.

show ipsec sa

show ipsec sa [detail]

Syntax	Description
show	Show running system information.
ipsec	Show ipsec related information.
sa	Ipssec Security Associations.
detail	Ipssec Security Associations detailed information.

show ipv6 bgp neighbors vrf

```
show ipv6 bgp neighbors [ arg0 ] vrf { all | vrf-name }
```

Syntax Description

show	Show running system information.
ipv6	Display BGP information for IPv6 address family.
bgp	Show BGP information.
neighbors	Display all configured BGP neighbors.
<i>arg0</i>	Display one particular BGP neighbor. The type is ipv6.
vrf	Show BGP sessions in a VRF.
all	Show BGP sessions for all VRFs.
<i>vrf-name</i>	Name of the VRF. The type is string.

show ipv6 bgp nexthop-database

```
show ipv6 bgp nexthop-database [{vrf {vrf-name | ALL_VRFS_012345678901234}}]
```

Syntax	Description
show	Show running system information.
ipv6	Display IPv6 information.
bgp	Display BGP status and configuration.
nexthop-database	Display nexthop database.
vrf	Virtual Router Context.
<i>vrf-name</i>	The type is string. VRF name.
ALL_VRFS_012345678901234	all.

show ipv6 bgp nexthop

```
show ipv6 bgp nexthop ipv6nexthop [{vrf {vrf-name | ALL_VRFS_012345678901234}}]
```

Syntax	Description
show	Show running system information.
ipv6	Display IPv6 information.
bgp	Display BGP status and configuration.
nexthop	Display routes matching the nexthop.
<i>ipv6nexthop</i>	The type is ipv6. Nexthop address.
vrf	Virtual Router Context.
<i>vrf-name</i>	The type is string. VRF name.
ALL_VRFS_012345678901234	all.

show ipv6 dhcp relay

```
show ipv6 dhcp relay [ { statistics } | { address [ { detail | { interface intfname [ detail ] } } ] } ]
```

Syntax Description

show	Show running system information.
ipv6	Display IPv6 information.
dhcp	Show items in DHCP.
relay	DHCP Relay.
address	DHCP relay address.
detail	DHCP relay detailed information.
interface	DHCP relay address of the interface.
<i>intfname</i>	Slot/chassis number. The type is interface. The values are ethernet, port-channel, vlan, loopback.
statistics	Statistics related to DHCP.

show ipv6 icmp adjacency

```
show ipv6 icmp adjacency [interface] [detail] [vrf {vrf-name | all}]
```

Syntax	Description
show	Show running system information.
ipv6	Display IPv6 information.
icmp	Display ICMPv6 information.
adjacency	Show IPv6 dynamic learnt adjacency entry.
detail	Display detailed information.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>interface</i>	Interface name to display. The type is interface.
<i>vrf-name</i>	VRF name. The type is string.

show ipv6 icmp interface

show ipv6 icmp interface [*interface*] [**detail**] [**vrf** {*vrf-name* | **all**}]

Syntax Description

all	Display information for all VRFs.
show	Show running system information.
interface	Show IPv6 dynamic learnt adjacency entry.
detail	Display detailed information.
vrf	Display per-VRF information.
ipv6	Display IPv6 information.
icmp	Display ICMPv6 information.
<i>interface</i>	Interface name to display. The type is interface.
<i>vrf-name</i>	VRF name. The type is string.

show ipv6 interface

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

Syntax	Description
show	Show running system information.
ipv6	Display IPv6 information.
interface	Display IPv6 related interface information.
brief	Show brief info of interface.
include-secondary	Display summary of all IPv6 addresses.
operational	Display only interfaces that are administratively enabled.
vrf	Display per-VRF information.
all	Display all VRFs.
<i>interface</i>	Name of the Interface. The type is interface. The values are ethernet, port-channel, vlan, mgmt, loopback, vrf.
<i>ipv6-addr</i>	Ipv6 Address. The type is ipv6.
<i>vrf-name</i>	Name of the VRF. The type is string.
<i>local-addr</i>	Display interface for local IPv6 address. The type is string.

show ipv6 mld snooping

show ipv6 mld snooping [{ *vlan* *vlan* }]

Syntax Description

show	Show running system information.
ipv6	Show IPv6 information.
mld	Show MLD information.
snooping	MLD Snooping information.
vlan	Display Vlan MLD snooping membership information.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ipv6 mld snooping explicit-tracking

```
show ipv6 mld snooping explicit-tracking [ { vlan vlan } ] [encap]
```

Syntax	Description
show	Show running system information.
ipv6	Show IPv6 information.
mld	Show MLD information.
snooping	MLD Snooping information.
explicit-tracking	Display explicit-tracking database for MLDv2.
vlan	Display Vlan explicit-tracking database.
encap	Display Encap Vlan explicit-tracking database.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ipv6 mld snooping groups

show ipv6 mld snooping groups [{ [*group*] [*source*] } [{ **vlan** *vlan* }]] [**detail** | **summary**] [**encap**]

Syntax Description

show	Show running system information.
ipv6	Show IPv6 information.
mld	Show MLD information.
snooping	Show MLD Snooping information.
groups	Display snooping information for group address.
<i>group</i>	Multicast IP address of single group to display. The type is ipv6.
<i>source</i>	Source IP address. The type is ipv6.
detail	Display detailed information for the group.
summary	Display snooping group summary.
vlan	Display Vlan MLD snooping membership information.
encap	Display Encap Vlan MLD snooping membership information.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ipv6 mld snooping lookup-mode

```
show ipv6 mld snooping lookup-mode [ { vlan vlan } ]
```

Syntax	Description
show	Show running system information.
ipv6	Show IPv6 information.
mld	Show MLD information.
snooping	MLD Snooping information.
lookup-mode	MLD Snooping lkup mode information.
vlan	Display Vlan information.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ipv6 mld snooping mrouter

show ipv6 mld snooping mrouter [{ **vlan** *vlan* }] [**detail**] [**encap**]

Syntax Description

show	Show running system information.
ipv6	Show IPv6 information.
mld	Show MLD information.
snooping	MLD Snooping information.
mrouter	Display multicast routers detected.
detail	Display detailed mrouter information.
vlan	Display Vlan multicast router information.
encap	Display Encap Vlan MLD snooping membership information.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ipv6 mld snooping querier

```
show ipv6 mld snooping querier [ { vlan vlan } ] [detail]
```

Syntax	Description
show	Show running system information.
ipv6	Show IPv6 information.
mld	Show MLD information.
snooping	MLD Snooping information.
querier	Display snooping querier information.
detail	Display detailed information.
vlan	Display Vlan MLD snooping querier information.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ipv6 mld snooping statistics

show ipv6 mld snooping statistics [**global** | { **vlan** *vlan* }]

Syntax Description

show	Show running system information.
ipv6	Show IPv6 information.
mld	Show MLD information.
snooping	MLD Snooping information.
statistics	Display packet/error counter statistics.
global	Display global statistics.
vlan	Display vlan statistics.
<i>vlan</i>	Specify vlan-id. The type is integer. The range is from 1 to 4095.

show ipv6 nd interface

show ipv6 nd interface [*interface*] [**detail**] [**prefix**] [**vrf** {*vrf-name* | **all**}]

Syntax Description

all	Display information for all VRFs.
show	Show running system information.
interface	Show IPv6 dynamic learnt adjacency entry.
detail	Display detailed information.
prefix	Display List of ICMPv6 RA prefix.
vrf	Display per-VRF information.
ipv6	Display IPv6 information.
nd	Display NDinformation.
<i>interface</i>	Interface name to display. The type is interface.
<i>vrf-name</i>	VRF name. The type is string.

show ipv6 prefix-list

show ipv6 prefix-list [*strarg*]

Syntax Description

show Show running system information.

ipv6 Display IPv6 information.

prefix-list List IPv6 prefix lists.

strarg Name of prefix list (Max Size 100). The type is string.

show ipv6 process

```
show ipv6 process [ { vrf { all | vrf-name } } ]
```

Syntax	Description
show	Show running system information.
ipv6	Display IP information.
process	Display IP global information.
vrf	Display per-VRF information.
all	Display all VRFs.
<i>vrf-name</i>	Name of the VRF. The type is string.

show ipv6 route + vrf

```
show ipv6 route [ ipv6-addr | { ipv6-prefix [{longer-prefixes|shorter-prefixes}] } ] [ bgp | eigrp | ospf ] [
{ next-hop next-hop } | { interface interface } | { updated { [since stime ] [until utime] } } ]+ [ summary |
detail ] vrf {vrf-name | all}
```

Syntax	Description
show	Show running system information.
ipv6	Display IP information.
route	Display routing information.
<i>ipv6-addr</i>	Display single route longest match lookup. The type is ipv6.
<i>ipv6-prefix</i>	Display single exact match route. The type is ipv6_prefix.
longer-prefixes	Display matching routes with mask-lengths >= prefix.
shorter-prefixes	Display matching routes with mask-lengths <= prefix.
next-hop	Display routes with this next-hop only.
<i>next-hop</i>	Next hop address. The type is ipv6.
interface	Display routes with this output interface only.
<i>interface</i>	Interface Name. The type is interface.
updated	Display routes filtered by last updated time.
since	Display those routes updated since this time.
<i>stime</i>	Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]. The type is string.
until	Display those routes updated until this time.
<i>utime</i>	Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]. The type is string.
summary	Display route counts.
detail	Display routes in full detail.
vrf	Display per-VRF information.
<i>vrf-name</i>	VRF name. The type is string.
bgp	
ospf	
eigrp	
all	Display information for all VRFs.

show ipv6 static-route

```
show ipv6 static-route [ { vrf { all | vrf-name } } ]
```

Syntax	Description
show	Show running system information.
ipv6	Display IP information.
static-route	Display configured static routes.
vrf	Display per-VRF information.
all	Display all VRFs.
<i>vrf-name</i>	Name of the VRF. The type is string.

show isis adjacency vrf

show isis adjacency [{system-id *sid*}] [*interface*] [**detail**] **vrf** { **all** | *vrf-name* }

Syntax Description

show	Show running system information.
isis	Display IS-IS status and configuration.
adjacency	Display IS-IS adjacency information.
<i>interface</i>	IS-IS interface. The type is interface. The values are ethernet.
system-id	Hostname or System ID.
<i>sid</i>	Hostname or System ID (in the form of XXXX.XXXX.XXXX). The type is string.
detail	Display IS-IS detail adjacency information.
vrf	VRF name.
all	Display information for all VRFs.
<i>vrf-name</i>	Specify VRF Name. The type is string.

show isis database vrf

```
show isis database [level-1|l1] [lid] vrf { all | vrf-name }
```

Syntax	Description
show	Show running system information.
isis	Display IS-IS status and configuration.
database	Display IS-IS database information.
level-1	Display IS-IS Level-1 routing link state database.
l1	Display IS-IS Level-1 routing link state database.
<i>lid</i>	LSP ID in the form of XXXX.XXXX.XXXX.XX-XX. The type is lsp_id.
vrf	VRF name.
all	Display information for all VRFs.
<i>vrf-name</i>	Specify VRF Name. The type is string.

show isis dteps vrf

show isis dteps vrf { **all** | *vrf-name* }

Syntax Description

show	Show running system information.
isis	Display IS-IS status and configuration.
dteps	ISIS Dynamic Tunnel EndPoint database.
vrf	VRF name.
all	Display information for all VRFs.
<i>vrf-name</i>	Specify VRF Name. The type is string.

show isis interface vrf

```
show isis interface [ brief | intf_arg ] [level-1] vrf { all | vrf-name }
```

Syntax Description

show	Show running system information.
isis	Display IS-IS status and configuration.
interface	Display IS-IS interface information.
level-1	Display Level-1 interfaces.
brief	Brief display of IS-IS interfaces.
<i>intf_arg</i>	IS-IS interface. The type is interface. The values are ethernet.
vrf	VRF name.
all	Display information for all VRFs.
<i>vrf-name</i>	Specify VRF Name. The type is string.

show isis protocol vrf

show isis protocol vrf { **all** | *vrf-name* }

Syntax Description

show Show running system information.

isis Display IS-IS status and configuration.

protocol Display IS-IS process information.

vrf VRF name.

all Display information for all VRFs.

vrf-name Specify VRF Name. The type is string.

show isis route vrf

```
show isis route vrf { all | vrf-name }
```

Syntax	Description
show	Show running system information.
isis	Display IS-IS status and configuration.
route	Display IS-IS route information.
vrf	VRF name.
all	Display information for all VRFs.
<i>vrf-name</i>	Specify VRF Name. The type is string.

show isis statistics vrf

```
show isis statistics vrf { all | vrf-name }
```

Syntax Description

show	Show running system information.
isis	Display IS-IS status and configuration.
statistics	Display IS-IS protocol statistics.
vrf	VRF name.
all	Display information for all VRFs.
<i>vrf-name</i>	Specify VRF Name. The type is string.

show isis traffic vrf

```
show isis traffic [interface] vrf { all | vrf-name }
```

Syntax Description

show Show running system information.

isis Display IS-IS status and configuration.

traffic Display IS-IS traffic information.

interface IS-IS interface. The type is interface. The values are ethernet.

vrf VRF name.

all Display information for all VRFs.

vrf-name Specify VRF Name. The type is string.

show lacp counters

show lacp counters [{ **interface** *arg0* }]

Syntax Description

show	Show running system information.
lacp	LACP protocol.
counters	LACP counters.
interface	Specify a port-channel.
<i>arg0</i>	Port Channel interface. The type is interface_mrange. The values are port-channel.

show lacp interface

show lacp interface *arg0*

Syntax	Description
show	Show running system information.
lacp	LACP protocol.
interface	Specify an interface.
<i>arg0</i>	Interface. The type is interface. The values are ethernet.

show lacp neighbor

show lacp neighbor [{ **interface** *arg0* }]

Syntax Description

show Show running system information.

lacp LACP protocol.

neighbor LACP interface neighbor.

interface Specify a port-channel.

arg0 Port Channel interface. The type is interface_mrange. The values are port-channel.

show lacp port-channel

```
show lacp port-channel [ { interface arg0 } ]
```

Syntax Description

show	Show running system information.
lacp	LACP protocol.
port-channel	LACP port-channels.
interface	Specify a port-channel.
<i>arg0</i>	Port Channel interface. The type is interface_mrange. The values are port-channel.

show lacp system-identifier

show lacp system-identifier

Syntax	Description
show	Show running system information.
lacp	LACP protocol.
system-identifier	Show system-identifier information.

show lldp dcbx interface

show lldp dcbx interface *if0*

Syntax	Description
show	Show running system information.
lldp	Show information about lldp.
dcbx	Show dcbx information.
interface	show lldp interface information.
<i>if0</i>	The type is interface. Enter interface. The values are ethernet.

show lldp entry

show lldp entry [*sys-name*]

Syntax Description

show Show running system information.

lldp Show information about lldp.

entry Show lldp entry information.

sys-name Peer's System name. The type is string.

show lldp interface

show lldp interface *arg0*

Syntax Description

show Show running system information.

lldp Show information about lldp.

interface Show lldp interface information.

arg0 Interface. The type is interface. The values are ethernet, mgmt.

show lldp neighbors

show lldp neighbors [{ **interface** *arg0* }] [**detail**]

Syntax Description

show	Show running system information.
lldp	Show information about lldp.
neighbors	Show lldp neighbor information.
interface	Show lldp neighbor information on an interface.
<i>arg0</i>	Interface. The type is interface. The values are ethernet, mgmt.
detail	Show lldp neighbor detail information.

show lldp timers

show lldp timers

Syntax	Description
show	Show running system information.
lldp	Show information about lldp.
timers	Show lldp timers.

show lldp tlv-select

show lldp tlv-select

Syntax	Description
show	Show running system information.
lldp	Show information about lldp.
tlv-select	Show lldp tlv-select.

show lldp traffic

```
show lldp traffic [ { interface arg0 } ]
```

Syntax Description

show Show running system information.

lldp Show information about lldp.

traffic Show lldp counters.

interface Show lldp interface information.

arg0 Interface. The type is interface. The values are ethernet, mgmt.

show locator-led status

show locator-led status

Syntax	Description
show	Show running system information.
locator-led	Blink locator led on device.
status	Status.

show logging ip access-list cache

`show logging ip access-list cache { permit | deny }`

Syntax	Description
show	Show running system information.
logging	Logging information.
ip	IP configuration.
access-list	Access-list.
cache	show entries in ACLLOG cache.
permit	action is permit.
deny	action is deny.

show logging ip access-list drop-codes

show logging ip access-list drop-codes

Syntax	Description
show	Show running system information.
logging	Logging information.
ip	IP configuration.
access-list	Access-list.
drop-codes	Drop Codes.

show logging ip access-list span

show logging ip access-list span

Syntax	Description
show	Show running system information.
logging	Logging information.
ip	IP configuration.
access-list	Access-list.
span	show entries in ACLLOG span.

show mac address-table +

```
show mac address-table [ { static | dynamic } ] [ { address mac-addr } | { vlan id } | { interface interface-name } ]+
```

Syntax	Description
show	Show running system information.
mac	Mac addr information.
address-table	MAC Address Table.
static	Display Static Entries.
dynamic	Display Dynamic Entries.
address1	address.
vlan1	VLAN.
address	address.
interface	Interface.
vlan	VLAN.
<i>mac-addr</i>	MAC Address. The type is ethernet.
<i>id</i>	VLAN ID. The type is integer. The range is from 1 to 4095.
<i>interface-name</i>	Interface name. The type is interface.

show macsec mka session

show macsec mka session [**details** | { **interface ethernet** *interface* }]

Syntax Description

show	Show running system information.
macsec	Show MACSEC information.
mka	Show MACSEC mka information.
session	Show MACSEC mka session information.
details	Show MACSEC mka session details.
interface	Show MACSEC mka session information for interface.
ethernet	Show MACSEC mka session information for ethernet interface.
<i>interface</i>	Name of the Interface. The type is string.

show macsec mka statistics

show macsec mka statistics [**interface ethernet** *interface*]

Syntax Description

show Show running system information.

macsec Show MACSEC information.

mka Show MACSEC mka information.

statistics Show MACSEC mka statistics information.

interface Show MACSEC mka statistics information for interface.

ethernet Show MACSEC mka statistics information for ethernet interface.

interface Name of the Interface. The type is string.

show macsec mka summary

show macsec mka summary

Syntax Description

show	Show running system information.
macsec	Show MACSEC information.
mka	Show MACSEC mka information.
summary	Show MACSEC mka summary information.
session	Show MACSEC mka session information.
details	Show MACSEC mka session details.
interface	Show MACSEC mka session information for interface.
ethernet	Show MACSEC mka session information for ethernet interface.
<i>interface</i>	Name of the Interface. The type is string.

show macsec secy statistics

show macsec secy statistics [**interface ethernet** *interface*]

Syntax Description

show	Show running system information.
macsec	Show MACSEC information.
secy	Show MACSEC secy information.
statistics	Show MACSEC secy statistics information.
interface	Show MACSEC secy statistics information for interface.
ethernet	Show MACSEC secy statistics information for ethernet interface.
<i>interface</i>	Name of the Interface. The type is string.

show module

show module [*arg0*]

Syntax Description

show Show Information.

module Module.

arg0 please enter the module number. The type is integer. The range is from 1 to 30.

show module fex

show module fex {**all** | *fexid*}

Syntax Description

show Show running system information.

module Show module information.

fex Show fex module information.

fexid FEX number. The type is integer. The range is from 101 to 199.

all Show information for all FEX.

show monitor

show monitor

Syntax	Description
show	Show running system information.
monitor	Show SPAN information.

show monitor session

show monitor session { **all** | *session_id* | { **range** *session_range* } } [**brief** | **extended**]

Syntax Description

show	Show running system information.
monitor	Show SPAN information.
session	Show session information.
all	All sessions.
<i>session_id</i>	Session Id 1-255. The type is integer. The range is from 1 to 255.
range	Specify a range.
<i>session_range</i>	session range(s): 1-4, 7, or 1-5,7-19. The type is integer_mrange. The range is from 1 to 255.
brief	Brief information.
extended	Session extended info like encaps, vlan filters per interfaces.

show npv external-interface-usage

show npv external-interface-usage [{ server-interface *arg0* }]

Syntax	Description
show	Show running system information.
npv	Show Npv information.
external-interface-usage	Show external interface usage by server interfaces.
server-interface	Show external interface usage by a server interface.
<i>arg0</i>	Interface. The type is interface. The values are vfc, vfc-port-channel.

show npv flogi-table

show npv flogi-table [{ **vsan** *vsan-id* }]

Syntax Description

show	Show running system information.
npv	Show Npv information.
flogi-table	Show information about FLOGI sessions.
vsan	Show information about FLOGI sessions for a VSAN.
<i>vsan-id</i>	Vsan-id. The type is integer_range. The range is from 1 to 4093.

show npv flogi-table interface

show npv flogi-table interface *arg0*

Syntax	Description
show	Show running system information.
npv	Show Npv information.
flogi-table	Show information about FLOGI sessions.
interface	Show information about FLOGI sessions for a server interface.
<i>arg0</i>	Interface. The type is interface. The values are vfc, vfc-port-channel.

show npv status

show npv status [{ **vsan** *vsan-id* }]

Syntax Description

show Show running system information.

npv Show Npv information.

status Show Npv Status.

vsan Show NPV status for a specific VSAN.

vsan-id Vsan-id. The type is integer_range. The range is from 1 to 4093.

show npv traffic-map

```
show npv traffic-map [ { server-interface arg0 } ]
```

Syntax	Description
show	Show running system information.
npv	Show Npv information.
traffic-map	Show information about Traffic Map.
server-interface	Show information about Traffic map for a server interface.
<i>arg0</i>	Interface. The type is interface. The values are vfc, vfc-port-channel.

show ntp authentication-keys

show ntp authentication-keys

Syntax	Description
show	Show running system information.
ntp	Show NTP information.
authentication-keys	Display authentication keys.

show ntp authentication-status

show ntp authentication-status

Syntax	Description
show	Show running system information.
ntp	Show NTP information.
authentication-status	NTP Authentication Status.

show ntp peer-status

show ntp peer-status

Syntax	Description
show	Show running system information.
ntp	Show NTP information.
peer-status	Show the status for all the server/peers.

show ntp peers

show ntp peers

Syntax	Description
show	Show running system information.
ntp	Show NTP information.
peers	Show all the peers..

show ntp statistics peer ipaddr

`show ntp statistics peer ipaddr arg0`

Syntax	Description
show	Show running system information.
ntp	Show NTP information.
statistics	Show the NTP statistics.
peer	Show the per-peer statistics counter of a peer..
ipaddr	Peer's IP address.
<i>arg0</i>	The type is string. A.B.C.D.

show ntp trusted-keys

show ntp trusted-keys

Syntax	Description
show	Show running system information.
ntp	Show NTP information.
trusted-keys	Display trusted keys.

show ospfv3 database

```
show ospfv3 [{vrf {vrf-name | all}}] database [router | network | intra-area-prefix | {inter-area {irouter | iprefix}} | nssa-external | area-unknown | [{link | link-unknown | grace} [interface]][area area-id-ip]] | {external [{tag tag_val}}] | as-unknown [lsid] [self-originated | {adv-router adv-id} | {adv-router-name adv-name} ]} [{vrf {vrf-name | all}}]
```

Syntax	Description
show	Show running system information.
ospfv3	Display OSPFv3 status and configuration.
database	Link-state Database Summary.
router	Display router LSAs.
network	Display network LSAs.
intra-area-prefix	Display Intra-Area-Prefix LSAs.
inter-area	Display inter-area LSAs.
irouter	Display Inter-Area-Router LSAs.
iprefix	Display Inter-Area-Prefix LSAs.
nssa-external	Display type 7 (NSSA external) LSAs.
area-unknown	Display area-scope unknown LSAs.
link	Display Link LSAs.
link-unknown	Display link-scope unknown LSAs.
grace	Display Grace LSAs.
<i>interface</i>	The type is interface. Display only LSA's on this Interface.
area	Display only LSA's in this area.
<i>area-id-ip</i>	The type is ipaddr. Area Id as an integer or ip address.
external	Display type 5 (external) LSAs.
tag	Restrict display by tag.
<i>tag_val</i>	The type is uinteger. 32-bit tag value.
as-unknown	Display as-scope unknown LSAs.
<i>lsid</i>	The type is ipaddr. Restrict display by link state ID.
self-originated	Display only self-originated LSAs.
adv-router	Restrict display by Advertising router.

<i>adv-id</i>	The type is ipaddr. Advertising router ID.
adv-router-name	Restrict display by Advertising router name.
<i>adv-name</i>	The type is string. DNS Name of the Advertising router.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name.
all	Display information for all VRFs.

show ospfv3 database detail

```
show ospfv3 [{vrf {vrf-name | all}}] database [router | network | intra-area-prefix | {inter-area {irouter | iprefix}} | nssa-external | area-unknown | [{link | link-unknown | grace} [interface]][area area-id-ip]] | {external [{tag tag_val}] | as-unknown} [lsid] [self-originated | {adv-router adv-id} | {adv-router-name adv-name}] ] detail [{vrf {vrf-name | all}}]
```

Syntax	Description
show	Show running system information.
ospfv3	Display OSPFv3 status and configuration.
database	Link-state Database Summary.
router	Display router LSAs.
network	Display network LSAs.
intra-area-prefix	Display Intra-Area-Prefix LSAs.
inter-area	Display inter-area LSAs.
irouter	Display Inter-Area-Router LSAs.
iprefix	Display Inter-Area-Prefix LSAs.
nssa-external	Display type 7 (NSSA external) LSAs.
area-unknown	Display area-scope unknown LSAs.
link	Display Link LSAs.
link-unknown	Display link-scope unknown LSAs.
grace	Display Grace LSAs.
<i>interface</i>	The type is interface. Display only LSA's on this Interface.
area	Display only LSA's in this area.
<i>area-id-ip</i>	The type is ipaddr. Area Id as an integer or ip address.
external	Display type 5 (external) LSAs.
tag	Restrict display by tag.
<i>tag_val</i>	The type is uinteger. 32-bit tag value.
as-unknown	Display as-scope unknown LSAs.
<i>lsid</i>	The type is ipaddr. Restrict display by link state ID.
self-originated	Display only self-originated LSAs.
adv-router	Restrict display by Advertising router.

<i>adv-id</i>	The type is ipaddr. Advertising router ID.
adv-router-name	Restrict display by Advertising router name.
<i>adv-name</i>	The type is string. DNS Name of the Advertising router.
detail	Display LSA in detail.
vrf	Display per-VRF information.
<i>vrf-name</i>	The type is string. VRF name.
all	Display information for all VRFs.

show ospfv3 interface

```
show [ipv6] ospfv3 interface { arg0 | { [ brief ] vrf { all | vrf-name } } }
```

Syntax Description

show	Show running system information.
ipv6	Display IPv6 information.
ospfv3	Display OSPFv3 status and configuration.
interface	OSPFv3 enabled interface.
<i>arg0</i>	Interface. The type is interface. The values are ethernet, port-channel, vlan, loopback.
brief	Display summary of OSPFv3 interfaces.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>vrf-name</i>	VRF name (Max Size 32). The type is string.

show ospfv3 neighbors

```
show [ipv6] ospfv3 neighbors { arg0 [ { ip [ detail ] } | detail | summary ] [vrf { all | vrf-name } ] } [ { { ip [ detail ] } | detail | summary ] vrf { all | vrf-name } }
```

Syntax	Description
show	Show running system information.
ipv6	Display IPv6 information.
ospfv3	Display OSPFv3 status and configuration.
neighbors	Neighbor list.
<i>ip</i>	Router ID of neighbor. The type is ipaddr.
detail	Show detailed neighbor display.
<i>arg0</i>	Interface. The type is interface. The values are ethernet, port-channel, vlan, loopback.
summary	Summary of neighbors.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>vrf-name</i>	VRF name (Max Size 32). The type is string.

show ospfv3 route vrf

```
show [ipv6] ospfv3 route [ summary | { ipv6-prefix [ longer-prefixes ] [ summary ] } | ipv6-addr ] vrf {
all | vrf-name }
```

Syntax	Description
show	Show running system information.
ipv6	Display IPv6 information.
ospfv3	Display OSPFv3 status and configuration.
route	Internal OSPFv3 routes.
<i>ipv6-addr</i>	Show single OSPFv3 route. The type is ipv6.
<i>ipv6-prefix</i>	Show single exact match OSPFv3 route. The type is ipv6_prefix.
summary	Show route counts.
longer-prefixes	Show exact match and more specific routes.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>vrf-name</i>	VRF name (Max Size 32). The type is string.

show ospfv3 summary-address vrf

```
show [ipv6] ospfv3 summary-address vrf { all | vrf-name }
```

Syntax	Description
show	Show running system information.
ipv6	Display IPv6 information.
ospfv3	Display OSPFv3 status and configuration.
summary-address	Summary-address redistribution information.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>vrf-name</i>	VRF name (Max Size 32). The type is string.

show ospfv3 traffic

```
show [ipv6] ospfv3 traffic { arg0 | { vrf { all | vrf-name } } }
```

Syntax Description

show	Show running system information.
ipv6	Display IPv6 information.
ospfv3	Display OSPFv3 status and configuration.
traffic	Packet counters.
<i>arg0</i>	Interface. The type is interface. The values are ethernet, port-channel, vlan, loopback.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>vrf-name</i>	VRF name (Max Size 32). The type is string.

show ospfv3 vrf

```
show [ipv6] ospfv3 vrf { all | vrf-name }
```

Syntax	Description
show	Show running system information.
ipv6	Display IPv6 information.
ospfv3	Display OSPFv3 status and configuration.
vrf	Display per-VRF information.
all	Display information for all VRFs.
<i>vrf-name</i>	VRF name (Max Size 32). The type is string.

show port-channel capacity

show port-channel capacity

Syntax	Description
show	Show running system information.
port-channel	Show port-channel information.
capacity	Capacity information.

show port-channel database

```
show port-channel database [ { interface if0 } ]
```

Syntax Description

show	Show running system information.
port-channel	Show port-channel information.
database	Show port-channel database.
interface	Specify a port-channel.
<i>if0</i>	. The type is interface_mrange. The values are port-channel.

show port-channel extended

```
show port-channel extended [ { interface if0 } ]
```

Syntax Description

show	Show running system information.
port-channel	Show port-channel information.
extended	Show port-channel extended.
interface	Specify a port-channel.
<i>if0</i>	. The type is interface. The values are port-channel.

show port-channel summary

```
show port-channel summary [ { interface if0 } ]
```

Syntax	Description
show	Show running system information.
port-channel	Show port-channel information.
summary	Show port-channel summary.
interface	Specify a port-channel.
<i>if0</i>	. The type is interface. The values are port-channel.

show port-channel traffic

show port-channel traffic [{ **interface** *if0* }]

Syntax Description

show	Show running system information.
port-channel	Show port-channel information.
traffic	Show port-channel traffic statistics.
interface	Specify a port-channel.
<i>if0</i>	. The type is interface. The values are port-channel.

show port-channel usage

show port-channel usage

Syntax	Description
show	Show running system information.
port-channel	Show port-channel information.
usage	Show port-channel number usage.

show porttrack

show porttrack

Syntax	Description
show	Show running system information.
porttrack	Port Tracking.

show processes

show processes

Syntax	Description
show	Show running system information.
processes	Show processes.

show processes cpu

show processes cpu

Syntax	Description
show	Show running system information.
processes	Show processes.
cpu	Show processes CPU Info.

show processes cpu sort

show processes cpu sort

Syntax	Description
show	Show running system information.
processes	Show processes.
cpu	Show processes CPU Info.
sort	Show processes CPU Info (Sorted by Cpu Util).

show processes memory

show processes memory

Syntax	Description
show	Show running system information.
processes	Show processes.
memory	Show processes Memory Info.

show ptp brief

show ptp brief

Syntax	Description
show	Show running system information.
ptp	Precision Time Protocol (IEEE 1588) Subsystem.
brief	PTP port states in brief.
__readonly__	Read Only.
TABLE_ptp	ptp table.
<i>ptp-ifindex</i>	The type is string. ptp ifindex.
<i>state</i>	The type is string. ptp bmc state.
<i>ptp-end</i>	The type is string. End of table.

show ptp clock

show ptp clock

Syntax	Description
show	Show running system information.
ptp	Precision Time Protocol (IEEE 1588) Subsystem.
clock	PTP local clock.
__readonly__	Read Only.
<i>domain-id</i>	The type is integer. Domain Id.
<i>clock-id</i>	The type is string. Clock Id.
<i>priority1</i>	The type is integer. Priority2.
<i>priority2</i>	The type is integer. Priority2.
<i>num-ports</i>	The type is integer. Number of PTP ports.
<i>class</i>	The type is integer. Class.
<i>accuracy</i>	The type is integer. Clock accuracy.
<i>scaled-log-variance</i>	The type is integer. scaled log variance.
<i>offset-from-master</i>	The type is integer. Offset from master.
<i>mean-path-delay-to-master</i>	The type is integer. Mean path delay to master.
<i>steps-removed</i>	The type is integer. Steps removed.

show ptp clock foreign-masters record

```
show ptp clock foreign-masters record [ { interface if0 } ]
```

Syntax	Description
show	Show running system information.
ptp	Precision Time Protocol (IEEE 1588) Subsystem.
clock	PTP clock.
foreign-masters	foreign-masters.
record	record.
interface	Specify interface.
<i>if0</i>	The type is interface. . The values are ethernet.
__readonly__	Read Only.
TABLE_ptp	ptp table.
<i>interface-name</i>	The type is string. Interface name.
<i>clock-id</i>	The type is string. Clock Id.
<i>priority1</i>	The type is integer. Priority2.
<i>priority2</i>	The type is integer. Priority2.
<i>class</i>	The type is integer. Class.
<i>accuracy</i>	The type is integer. Clock accuracy.
<i>scaled-log-variance</i>	The type is integer. scaled log variance.
<i>steps-removed</i>	The type is integer. Steps removed.
<i>is-gm</i>	The type is integer. Is Grandmaster.
<i>ptp-end</i>	The type is string. End of table.

show ptp corrections

show ptp corrections

Syntax	Description
show	Show running system information.
ptp	Precision Time Protocol (IEEE 1588) Subsystem.
__readonly__	Read Only.
corrections	Display last few corrections.
TABLE_ptp	ptp table.
<i>intf-name</i>	The type is string. interface name.
<i>sup-time</i>	The type is string. sup time.
<i>correction-val</i>	The type is integer. correction value.
<i>mean-path-delay</i>	The type is integer. mean path delay.
<i>ptp-end</i>	The type is string. End of table.

show ptp counters

show ptp counters { {interface *if0*} | all }

Syntax	Description
show	Show running system information.
ptp	Precision Time Protocol (IEEE 1588) Subsystem.
__readonly__	Read Only.
counters	Display PTP packet counters.
interface	Enter the port interface.
all	Displays all information.
<i>if0</i>	The type is interface. . The values are ethernet.
TABLE_ptp	ptp table.
<i>interface_name</i>	The type is string. interface name.
<i>tx-announce-pkts</i>	The type is integer. No. of TX Announce Packets.
<i>tx-sync-pkts</i>	The type is integer. No. of TX Sync Packets.
<i>tx-follow-up-pkts</i>	The type is integer. No. of TX Follow-up Packets.
<i>tx-delay-req-pkts</i>	The type is integer. No. of TX Delay Request Packets.
<i>tx-delay-resp-pkts</i>	The type is integer. No. of TX Delay Response Packets.
<i>tx-pdelay-req-pkts</i>	The type is integer. No. of TX PDelay Request Packets.
<i>tx-pdelay-resp-pkts</i>	The type is integer. No. of TX PDelay Response Packets.
<i>tx-pdelay-follow-up-pkts</i>	The type is integer. No. of TX PDelay Follow-up Packets.
<i>tx-mgmt-pkts</i>	The type is integer. No. of TX PTP management Packets.
<i>rx-announce-pkts</i>	The type is integer. No. of RX Announce Packets.
<i>rx-sync-pkts</i>	The type is integer. No. of RX Sync Packets.
<i>rx-follow-up-pkts</i>	The type is integer. No. of RX Follow-up Packets.
<i>rx-delay-req-pkts</i>	The type is integer. No. of RX Delay Request Packets.
<i>rx-delay-resp-pkts</i>	The type is integer. No. of RX Delay Response Packets.
<i>rx-pdelay-req-pkts</i>	The type is integer. No. of RX PDelay Request Packets.
<i>rx-pdelay-resp-pkts</i>	The type is integer. No. of RX PDelay Response Packets.
<i>rx-pdelay-follow-up-pkts</i>	The type is integer. No. of RX PDelay Follow-up Packets.

<i>rx-mgmt-pkts</i>	The type is integer. No. of RX PTP management Packets.
<i>ptp-end</i>	The type is string. End of table.

show ptp parent

show ptp parent

Syntax	Description
show	Show running system information.
ptp	Precision Time Protocol (IEEE 1588) Subsystem.
parent	PTP parent clock.
__readonly__	Read Only.
<i>clock-id</i>	The type is string. Clock Id.
<i>port-num</i>	The type is integer. Port number.
<i>obs-parent-offset</i>	The type is string. observed parent offset.
<i>obs-parent-clk-phase-chg</i>	The type is string. observed parent clock phase change.
<i>gm-id</i>	The type is string. Grandmaster Id.
<i>gm-class</i>	The type is integer. Grandmaster class.
<i>gm-accuracy</i>	The type is integer. Clock accuracy.
<i>gm-scaled-log-variance</i>	The type is integer. scaled log variance.
<i>gm-priority1</i>	The type is integer. GM Priority1.
<i>gm-priority2</i>	The type is integer. GM Priority2.

show publickey

show publickey

Syntax Description

show Show public key from certificate.

publickey public key information.

show radius-server

```
show radius-server [sorted | {groups [grp-name]}]
```

Syntax	Description
show	Show Information.
radius-server	Radius-server.
sorted	Sorted server list.
groups	Radius server groups.
<i>grp-name</i>	Group Name. The type is string.

show redundancy status

show redundancy status

Syntax	Description
show	Show running system information.
redundancy	Show system redundancy status.
status	Current redundancy status.

show route-map

show route-map [*strarg*]

Syntax	Description
show	Show running system information.
route-map	Route-map information.
<i>strarg</i>	Route-map name (Max Size 100). The type is string.

show san-port-channel database

show san-port-channel database

Syntax	Description
show	Show running system information.
san-port-channel	Show san-port-channel information.
database	Show san-port-channel database.

show san-port-channel summary

show san-port-channel summary

Syntax	Description
show	Show running system information.
san-port-channel	Show san-port-channel information.
summary	Show san-port-channel summary.

show san-port-channel usage

show san-port-channel usage

Syntax	Description
show	Show running system information.
san-port-channel	Show san-port-channel information.
usage	Show san-port-channel usage.

show service copy info

```
show service copy info [ { group [ gid ] } | { destination [ { ip dip | dipv6 } { vnid dvnid | dvnidhex } ] } ]
```

Syntax	Description
show	Show running system information.
service	Display service information.
copy	Display service copy information.
info	Display service copy information.
group	Display group information.
destination	Display destination information.
ip	ip address of destination.
ipv6	ipv6 address of destination.
vnid	vnid address of destination.
<i>gid</i>	group number. The type is integer. The range is from 0 to 65535.
<i>dip</i>	The type is ipaddr. IP address.
<i>dipv6</i>	The type is ipv6. IPv6 address.
<i>dvnid</i>	vnid number. The type is integer.
<i>dvnidhex</i>	vnid number. The type is hex.

show service redir info

```
show service redir info [ { group [ gid ] } | { destination [ { ip dip | dipv6 } { vnid dvnid | dvnidhex } ] } ]
```

Syntax Description

show	Show running system information.
service	Display service information.
redir	Display service redirect information.
info	Display service redirect information.
group	Display group information.
destination	Display destination information.
ip	ip address of destination.
vnid	vnid address of destination.
<i>gid</i>	group number. The type is integer. The range is from 0 to 65535.
<i>dip</i>	The type is ipaddr. IP address.
<i>dipv6</i>	The type is ipv6. IPv6 address.
<i>dvnidhex</i>	vnid number. The type is hex.
<i>dvnid</i>	vnid number. The type is integer.

show snmp

show snmp

Syntax Description

show Show running system information.

snmp Display SNMP information.

show snmp community

show snmp community

Syntax	Description
show	Show running system information.
snmp	Display SNMP information.
community	Display SNMP Community information.

show snmp context

show snmp context

Syntax Description	
show	Show running system information.
snmp	Display SNMP information.
context	Display SNMP Context information.

show snmp engineID

show snmp engineID

Syntax	Description
show	Show running system information.
snmp	Display SNMP information.
engineID	Show snmp engineID.

show snmp host

show snmp host

Syntax Description

show Show commands.

snmp Show snmp internal information.

host show snmp hosts.

show snmp summary

show snmp summary

Syntax	Description
show	Show running system information.
snmp	Display SNMP information.
summary	Display SNMP Summary.

show snmp user

show snmp user

Syntax	Description
show	Show running system information.
snmp	Display SNMP information.
user	Display SNMP User information.

show sprom

show sprom { **backplane** | { **module** *arg1* } | { **fan** *arg0* } | { **powersupply** *arg2* } | **sup** | **stby-sup** | **all** }

Syntax Description

show	Show running system information.
sprom	Show SPROM contents.
all	show all sproms contents.
powersupply	show powersupply sprom contents.
module	show linecard module sprom contents.
fan	show fan module sprom contents.
stby-sup	show stanby supervisor sprom contents.
sup	show supervisor sprom contents.
backplane	show backplane clock module sprom contents.
<i>arg0</i>	please enter the fan number. The type is integer. The range is from 1 to 15.
<i>arg1</i>	please enter the module number. The type is integer. The range is from 1 to 30.
<i>arg2</i>	please enter the powersupply number. The type is integer. The range is from 1 to 10.

show switchname

show switchname

Syntax	Description
show	Show running system information.
switchname	Show the system's hostname.

show system error-id

show system error-id { **list** | *iO* }

Syntax Description

show Show running system information.

system System-related show commands.

error-id Show description about errors.

list Show description about all error IDs.

iO The type is hex. Show description about specific error. The range is from 0x0 to 0xffffffff.

show system mode

show system mode

Syntax	Description
show	Show running system information.
system	System-related commands.
mode	Show system mode.

show system redundancy status

show system redundancy [ha] status

Syntax	Description
show	Show running system information.
system	System-related show commands.
redundancy	Show system redundancy status.
status	Current redundancy status.
ha	Vdc redundancy status.

show system reset-reason

`show system reset-reason [{ module arg0 }]`

Syntax	Description
show	Show running system information.
system	System-related show commands.
reset-reason	Show last reset reason.
module	Module.
<i>arg0</i>	please enter the module number. The type is integer. The range is from 1 to 30.

show system reset-reason fex

`show system reset-reason fex fexid`

Syntax Description

show	Show running system information.
system	System-related show commands.
reset-reason	Show last reset reason.
fex	Show fex last reset reason.
<i>fexid</i>	FEX number. The type is integer. The range is from 101 to 199.

show system resources

show system resources

Syntax	Description
show	Show running system information.
system	System-related show commands.
resources	Show system resources.

show system uptime

show system uptime

Syntax Description

show Show running system information.

system System information.

uptime How long the system has been up.

show tacacs-server

show tacacs-server [sorted | {groups [*grp-name*]}]

Syntax	Description
show	Show Information.
tacacs-server	Tacacs-server.
sorted	Sorted server list.
groups	Tacacs server groups.
<i>grp-name</i>	Group Name. The type is string.

show tech-support analytics brief

show tech-support analytics brief

Syntax	Description
show	Show running system information.
tech-support	Gather information for trouble shooting.
analytics	Show Policyelem tech-support information.
brief	Brief information.

show users

show users

Syntax Description

show Show running system information.

users Show users logged onto the system and their sessions.

show version

show version

Syntax Description

show Show running system information.

version Show running firmware version and basic system information.

show version module

show version module [*arg0*]

Syntax Description

show Show running system information.

version Show the software version.

module Module.

arg0 please enter the module number. The type is integer. The range is from 1 to 30.

show vlan

show vlan [extended]

Syntax	Description
show	Show running system information.
vlan	VLAN status.
extended	VLAN extended info like encaps.

show vlan all-ports

show vlan all-ports

Syntax	Description
show	Show running system information.
vlan	VLAN status.
all-ports	Show all ports on VLAN.

show vlan brief

show vlan brief

Syntax	Description
show	Show running system information.
vlan	VLAN status.
brief	All VLAN status in brief.

show vlan fcoe

show vlan fcoe [*vlan-id*]

Syntax Description

show Show running system information.

vlan VLAN status.

fcoe FCOE Configuration.

vlan-id VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19. The type is integer_mrange. The range is from 1 to 4095.

show vlan id

show vlan id *vlan-id* [**extended**]

Syntax Description

show Show running system information.

vlan VLAN status.

id VLAN status by VLAN id.

vlan-id VLAN ID 1-3967 or range(s): 1-5, 10 or 2-5,7-19. The type is integer_mrange. The range is from 1 to 4095.

extended VLAN extended info like encaps.

show vlan reserved

show vlan reserved [extended]

Syntax	Description
show	Show running system information.
vlan	VLAN status.
reserved	
extended	VLAN extended info like encaps.

show vlan summary

show vlan summary

Syntax	Description
show	Show running system information.
vlan	VLAN status.
summary	VLAN summary information.

show vpc

```
show vpc [ { vpc-number | { brief [ { vpc vpc-number } ] } | { extended [ { vpc vpc-number } ] } ]
```

Syntax Description

show	Show running system information.
vpc	Virtual Port Channel configuration.
brief	Brief display of vPC status.
extended	Extended display of vPC status.
<i>vpc-number</i>	Enter a Virtual Port Channel number. The type is integer. to 4096. The range is from 1

show vpc consistency-parameters

```
show vpc consistency-parameters { global | { interface if } | { vpc vpc-num } }
```

Syntax Description

show	Show running system information.
vpc	Virtual Port Channel configuration.
consistency-parameters	Show vPC Consistency Parameters.
global	Global Parameters.
interface	Specify interface.
<i>if</i>	. The type is interface. The values are port-channel.
<i>vpc-num</i>	Enter a Virtual Port Channel number. The type is integer. to 4096. The range is from 1

show vpc orphan-ports

show vpc orphan-ports

Syntax	Description
show	Show running system information.
vpc	Virtual Port Channel configuration.
orphan-ports	Show vPC orphan ports.

show vpc peer-keepalive

show vpc peer-keepalive

Syntax	Description
show	Show running system information.
vpc	Virtual Port Channel configuration.
peer-keepalive	vPC keepalive status.

show vpc role

show vpc role

Syntax	Description
show	Show running system information.
vpc	Virtual Port Channel configuration.
role	vPC role status.

show vpc statistics peer-keepalive

show vpc statistics peer-keepalive

Syntax	Description
show	Show running system information.
vpc	Virtual Port Channel configuration.
statistics	Statistics.
peer-keepalive	peer keepalive module related statistics.

show vpc statistics vpc

`show vpc statistics vpc vpc_num`

Syntax	Description
show	Show running system information.
vpc	Virtual Port Channel configuration.
statistics	Statistics.
<i>vpc_num</i>	Enter a Virtual Port Channel number. The type is integer. to 4096. The range is from 1

show vrf

show vrf [*vrf-name* | **all**] [**detail** [**extended**]] [{**order id**}]

Syntax Description

show	Show running system information.
vrf	Display VRF information.
<i>vrf-name</i>	VRF name. The type is <i>vrf_name</i> .
all	Display VRF information for all VRFs.
order	Specify ordering.
id	Order by ID.
detail	Display VRF detail information.
extended	Display extended VRF information.

show vrf interface

show vrf [*vrf-name* | **all**] **interface** [*interface*]

Syntax Description

show Show running system information.

vrf Display VRF information.

vrf-name VRF name. The type is vrf_name.

all Display VRF information for all VRFs.

interface Display interface VRF information.

interface Display interface VRF information. The type is interface.

show vsan

show vsan [*vsan-id*]

Syntax Description

show Show running system information.

vsan Show vsan information.

vsan-id VSAN is range <1-4078>. The type is integer_range. The range is from 1 to 4078.

show vsan membership

show vsan [*vsan-id*] **membership**

Syntax Description

show Show running system information.

vsan Show vsan information.

membership Show membership information.

vsan-id VSAN is range <1-4078>. The type is integer_range. The range is from 1 to 4078.

show vsan membership interface

show vsan membership interface { *arg0* }

Syntax Description

show	Show running system information.
vsan	Show vsan information.
membership	Show membership information.
interface	Show membership information for interface(s).
<i>arg0</i>	Interface. The type is interface. The values are vfc, vfc-port-channel.

show vsan usage

show vsan usage

Syntax	Description
show	Show running system information.
vsan	Show vsan information.
usage	Show vsan usage in the system.

show zoning-filter

```
show zoning-filter [ { filter id } ]
```

Syntax Description

show	Show running system information.
zoning-filter	Display Zoning-Filter information.
filter	Display Zoning-Filter information using this Filter.
<i>id</i>	Filter ID/string. The type is string.

show zoning-rule +

```
show zoning-rule [ { src-epg epg0 } | { dst-epg epg1 } | { scope scopeId } | { filter filt } ]+
```

Syntax	Description
show	Show running system information.
zoning-rule	Display Zoning-Rule information.
src-epg	Display Source EPG information.
<i>epg0</i>	Source EPG number. The type is integer. The range is from 0 to 65535.
dst-epg	Display Destination EPG information.
<i>epg1</i>	Destination EPG number. The type is integer. The range is from 0 to 65535.
scope	Display Rules for this Scope.
<i>scopeId</i>	Scope ID. The type is integer. The range is from 1 to 16777215.
filter	Display Rules using this Filter.
<i>filt</i>	Filter ID/string. The type is string.

■ show zoning-rule +