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show icam entries acl module inst

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

Syntax Description

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

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

Command Mode

- /exec

show icam health

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

Syntax Description

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

Command Mode

- /exec

show icam prediction entries acl module inst

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

Syntax Description

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

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

Command Mode

- /exec

vlan	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
infra	(Optional) Infrastrure
mac	(Optional) MAC Address
vlan	(Optional) VLAN
vlan-count	(Optional) Number of VLANs
stp	(Optional) Spanning Tree Protocol
mst-instance	(Optional) MST instances
mst-vport	(Optional) MST virtual ports
rpvst-vport	(Optional) RPVST virtual ports
rpvst-vlan	(Optional) RPVST VLANs
isolated-portvlan	(Optional) Total number of VLANs x ports with switchport isolated
multicast-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
igmp-groups	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
pim-neighbors	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
outgoing-interfaces	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
routing-forwarding	(Optional) Routing and forwarding
route-v4	(Optional) IPv4 Route
route-v6	(Optional) IPv6 Route
route-sg-v4	(Optional) IPv4 S,G Route
route-starg-v4	(Optional) IPv4 *,G Route
route-sg-v6	(Optional) IPv6 S,G Route
route-starg-v6	(Optional) IPv6 *,G Route
outgoing-interface	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
igmp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
group	(Optional) IGMP snooping group
pim	(Optional) PIM
neighbor	(Optional) PIM neighbor
bfd-sessions	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
eigrp-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

ipv4-arp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv4-host-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv6-host-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv4-isis-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-nbr	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-lsa	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-area	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-passive-intf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
bfd	(Optional) BFD
session	(Optional) BFD session
bgp	(Optional) BGP
neighbor	(Optional) BGP neighbor
eigrp	(Optional) EIGRP
route	(Optional) EIGRP route
neighbor	(Optional) EIGRP neighbor
hsrp	(Optional) HSRP
mac	(Optional) HSRP MAC
arp	(Optional) ARP
arp-count	(Optional) ARP count
ipv6-nd	(Optional) IPv6 ND
nd-count	(Optional) ND count
routing	(Optional) Routing
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
lpm-route-v4	(Optional) IPv4 LPM route
lpm-route-v6	(Optional) IPv6 LPM route
isis	(Optional) IS-IS
adjacency	(Optional) IS-ISv4 adjacency

bfd-session	(Optional) IS-ISv4 BFD session
route	(Optional) IS-ISv4 route
ospf	(Optional) OSPF
neighbor	(Optional) OSPF neighbor
lsa	(Optional) OSPF LSA
area	(Optional) OSPF Area
vrf	(Optional) VRF
vrf-count	(Optional) VRF count
vrrp	(Optional) VRRP
grp-per-intf	(Optional) VRRP groups per interface
pbr	(Optional) PBR
seq-per-policy	(Optional) PBR Configured sequences per policy
nh-per-policy	(Optional) PBR NextHop per policy
ace-v4	(Optional) PBR IPv4 ACEs
ace-v6	(Optional) PBR IPv6 ACEs
ace-v4v6	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
intf	(Optional) Interfaces with PBR policy
vrrp3	(Optional) VRRPv3
grp-per-intf	(Optional) VRRPv3 groups per interface
grp-dft-timer	(Optional) VRRPv3 groups with default timers (1 s)
grp-relax-timer	(Optional) VRRPv3 groups with relaxed timers (3 s)
path-dft-timer	(Optional) Pathways with one VRRPv3 group with default timer (1 s)
grp-and-path	(Optional) VRRPv3 groups and pathways combined
igmp	(Optional) IGMP snooping over VXLAN
vlan	(Optional) VLAN
vtep	(Optional) VTEP Peers
underlay-mcast-group	(Optional) Underlay multicast group
fl	(Optional) VXLAN Flood and Learn
vni	(Optional) VNI

underlay-mcast-group	(Optional) Underlay multicast group
overlay-mac	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
total-mac	(Optional) Total MAC address
vtep	(Optional) Remote VTEP
ir-peer	(Optional) Ingress replication peer
ir-vni	(Optional) Ingress replication L2 VNI
ir-mac	(Optional) Ingress replication MAC address
vlan-mapping-under-intf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vlan-mapping-in-switch	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
static-mac-to-vtep	(Optional) Static MACs to remote VTEP
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLANs per FEX port
vni-for-vpc-gw	(Optional) L2 routed VNIs for vPC-centralized gateway
igmp-group	(Optional) IGMP group
bgp	(Optional) BGP eVPN
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
underlay-mcast-group	(Optional) Underlay multicast group
vtep	(Optional) VTEP
mac	(Optional) MAC address
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
bgp-ir	(Optional) BGP eVPN Ingress Replication

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

Command Mode

- /exec

vlan	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
infra	(Optional) Infrastrure
mac	(Optional) MAC Address
vlan	(Optional) VLAN
vlan-count	(Optional) Number of VLANs
stp	(Optional) Spanning Tree Protocol
mst-instance	(Optional) MST instances
mst-vport	(Optional) MST virtual ports
rpvst-vport	(Optional) RPVST virtual ports
rpvst-vlan	(Optional) RPVST VLANs
isolated-portvlan	(Optional) Total number of VLANs x ports with switchport isolated
multicast-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
igmp-groups	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
pim-neighbors	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
outgoing-interfaces	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
routing-forwarding	(Optional) Routing and forwarding
route-v4	(Optional) IPv4 Route
route-v6	(Optional) IPv6 Route
route-sg-v4	(Optional) IPv4 S,G Route
route-starg-v4	(Optional) IPv4 *,G Route
route-sg-v6	(Optional) IPv6 S,G Route
route-starg-v6	(Optional) IPv6 *,G Route
outgoing-interface	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
igmp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
group	(Optional) IGMP snooping group
pim	(Optional) PIM
neighbor	(Optional) PIM neighbor
bfd-sessions	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
eigrp-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

ipv4-arp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv4-host-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv6-host-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ipv4-isis-routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-nbr	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-lsa	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-area	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
ospf-passive-intf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
bfd	(Optional) BFD
session	(Optional) BFD session
bgp	(Optional) BGP
neighbor	(Optional) BGP neighbor
eigrp	(Optional) EIGRP
route	(Optional) EIGRP route
neighbor	(Optional) EIGRP neighbor
hsrp	(Optional) HSRP
mac	(Optional) HSRP MAC
arp	(Optional) ARP
arp-count	(Optional) ARP count
ipv6-nd	(Optional) IPv6 ND
nd-count	(Optional) ND count
routing	(Optional) Routing
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
lpm-route-v4	(Optional) IPv4 LPM route
lpm-route-v6	(Optional) IPv6 LPM route
isis	(Optional) IS-IS
adjacency	(Optional) IS-ISv4 adjacency

bfd-session	(Optional) IS-ISv4 BFD session
route	(Optional) IS-ISv4 route
ospf	(Optional) OSPF
neighbor	(Optional) OSPF neighbor
lsa	(Optional) OSPF LSA
area	(Optional) OSPF Area
vrf	(Optional) VRF
vrf-count	(Optional) VRF count
vrrp	(Optional) VRRP
grp-per-intf	(Optional) VRRP groups per interface
pbr	(Optional) PBR
seq-per-policy	(Optional) PBR Configured sequences per policy
nh-per-policy	(Optional) PBR NextHop per policy
ace-v4	(Optional) PBR IPv4 ACEs
ace-v6	(Optional) PBR IPv6 ACEs
ace-v4v6	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
intf	(Optional) Interfaces with PBR policy
vrrp3	(Optional) VRRPv3
grp-per-intf	(Optional) VRRPv3 groups per interface
grp-dft-timer	(Optional) VRRPv3 groups with default timers (1 s)
grp-relax-timer	(Optional) VRRPv3 groups with relaxed timers (3 s)
path-dft-timer	(Optional) Pathways with one VRRPv3 group with default timer (1 s)
grp-and-path	(Optional) VRRPv3 groups and pathways combined
igmp	(Optional) IGMP snooping over VXLAN
vlan	(Optional) VLAN
vtep	(Optional) VTEP Peers
underlay-mcast-group	(Optional) Underlay multicast group
fl	(Optional) VXLAN Flood and Learn
vni	(Optional) VNI

underlay-mcast-group	(Optional) Underlay multicast group
overlay-mac	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
total-mac	(Optional) Total MAC address
vtep	(Optional) Remote VTEP
ir-peer	(Optional) Ingress replication peer
ir-vni	(Optional) Ingress replication L2 VNI
ir-mac	(Optional) Ingress replication MAC address
vlan-mapping-under-intf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vlan-mapping-in-switch	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
static-mac-to-vtep	(Optional) Static MACs to remote VTEP
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLANs per FEX port
vni-for-vpc-gw	(Optional) L2 routed VNIs for vPC-centralized gateway
igmp-group	(Optional) IGMP group
bgp	(Optional) BGP eVPN
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
underlay-mcast-group	(Optional) Underlay multicast group
vtep	(Optional) VTEP
mac	(Optional) MAC address
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
bgp-ir	(Optional) BGP eVPN Ingress Replication

vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
vtep	(Optional) VTEP
mac	(Optional) MAC address
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
history	(Optional) Show scale history
<i>num_intervals</i>	(Optional) Number of intervals in history
sort	(Optional) Sorted display
current-scale	(Optional) Sort records by current-scale value
ascending	(Optional) Sort current-scale values in ascending order
descending	(Optional) Sort current-scale values in descending order
polled-timestamp	(Optional) Sort records by polled-timestamp
newest	(Optional) Sort with newest record first
oldest	(Optional) Sort with oldest record first
utilization	(Optional) Show utilization statistics
thresholds	(Optional) Show thresholds statistics
<u>__readonly__</u>	(Optional) Read Only
<i>Info_Thres</i>	(Optional) Configured info threshold percent
<i>Warn_Thres</i>	(Optional) Configured warning threshold percent
<i>Crit_Thres</i>	(Optional) Configured critical threshold percent
TABLE_technology	(Optional) Table technology
<i>Technology</i>	(Optional) Technology name

<i>TABLE_feature</i>	(Optional) Table feature
<i>Feature</i>	(Optional) Feature name
<i>Instance</i>	(Optional) Instance name. Present if the record is for a specific instance on the system (i.e. module, port combination or specific application instance in a VDC)
<i>Verified_Scale</i>	(Optional) Verified scale
<i>Config_Scale</i>	(Optional) Configured scale
<i>TABLE_feature_stats</i>	(Optional) Table feature stats
<i>Used_Entries</i>	(Optional) Used entries
<i>Cur_Util</i>	(Optional) Current utilization
<i>Thres_Exceeded</i>	(Optional) Threshold type exceeded
<i>Polled_TS</i>	(Optional) Polled timestamp
<i>Avg_Util</i>	(Optional) Average utilization
<i>Week_Util</i>	(Optional) 1 week utilization
<i>Week_TS</i>	(Optional) 1 week peak utilization timestamp
<i>Peak_Util</i>	(Optional) Peak utilization
<i>Peak_TS</i>	(Optional) Peak utilization timestamp
<i>Info_Thres_Exceed</i>	(Optional) Number of times info threshold exceeded
<i>Info_Thres_Exceed_TS</i>	(Optional) Last info threshold exceeded timestamp
<i>Warn_Thres_Exceed</i>	(Optional) Number of times warning threshold exceeded
<i>Warn_Thres_Exceed_TS</i>	(Optional) Last warning threshold exceeded timestamp
<i>Crit_Thres_Exceed</i>	(Optional) Number of times critical threshold exceeded
<i>Crit_Thres_Exceed_TS</i>	(Optional) Last critical threshold exceeded timestamp

Command Mode

- /exec

TABLE_item	(Optional) Table item
<i>Name</i>	(Optional) Item name
<i>Instance</i>	(Optional) Instance information
<i>Unit</i>	(Optional) Unit of the usage value
<i>Usage</i>	(Optional) Usage value
<i>Limit</i>	(Optional) Limit
<i>Util</i>	(Optional) Utilization percentage
<i>Thres_Exceeded</i>	(Optional) Threshold type exceeded
<i>Polled_TS</i>	(Optional) Polled timestamp
<i>Avg_Util</i>	(Optional) Average utilization
<i>Peak_Util</i>	(Optional) Peak utilization
<i>Peak_TS</i>	(Optional) Peak utilization timestamp
<i>Info_Thres_Exceed</i>	(Optional) Number of times info threshold exceeded
<i>Info_Thres_Exceed_TS</i>	(Optional) Last info threshold exceeded timestamp
<i>Warn_Thres_Exceed</i>	(Optional) Number of times warning threshold exceeded
<i>Warn_Thres_Exceed_TS</i>	(Optional) Last warning threshold exceeded timestamp
<i>Crit_Thres_Exceed</i>	(Optional) Number of times critical threshold exceeded
<i>Crit_Thres_Exceed_TS</i>	(Optional) Last critical threshold exceeded timestamp

Command Mode

- /exec

show ieth-header-decode

show ieth-header-decode <ieth>

Syntax Description

show	Show running system information
ieth-header-decode	Show decode of ieth header
<i>ieth</i>	ieth header in hex (0xFF...) or string (FF..) form

Command Mode

- /exec

show inband-telemetry exporter

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

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
exporter	Show INT Exporter Configuration
<i>exportername</i>	(Optional) Specify an exporter
<i>__readonly__</i>	(Optional)
<i>exporter</i>	(Optional)
<i>description</i>	(Optional)
<i>dest</i>	(Optional)
<i>vrf</i>	(Optional)
<i>vrf_id</i>	(Optional)
<i>vrf_resolved</i>	(Optional)
<i>dest_udp</i>	(Optional)
<i>source_intf</i>	(Optional)
<i>source_ip</i>	(Optional)
<i>dscp</i>	(Optional)
<i>seq_num</i>	(Optional)

Command Mode

- /exec

show inband-telemetry flow-profile

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

Syntax Description

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

Command Mode

- /exec

show inband-telemetry monitor

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

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
monitor	Show Monitor Configuration
<i>monitorname</i>	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents
<i>__readonly__</i>	(Optional)
<i>monitor</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>record</i>	(Optional)
<i>event</i>	(Optional)
<i>exporter</i>	(Optional)
<i>bucket_id</i>	(Optional)
<i>src_addr</i>	(Optional)
<i>dest_addr</i>	(Optional)
<i>watchlist</i>	(Optional)

Command Mode

- /exec

show inband-telemetry queue-profile

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

Syntax Description

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

Command Mode

- /exec

show inband-telemetry record

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

Syntax Description

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

Command Mode

- /exec

show inband-telemetry sessions

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

Syntax Description

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

Command Mode

- /exec

show inband-telemetry watchlist

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

Syntax Description

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

Command Mode

- /exec

show incompatibility-all system

```
show incompatibility-all { system <uri0> | nxos <uri1> } [ __readonly__ { [ TABLE_incompat_all <Str1> [ <Serv> ] [ <Cap> ] [ <Desc> ] [ <Req> ] [ <Enable> ] ] [ <Dynamic> ] } ]
```

Syntax Description

show	Show running system information
incompatibility-all	Show incompatible configurations for the entire system
system	show incompatibilities with an image
<i>uri0</i>	Enter image uri
nxos	show incompatibilities with an image
<i>uri1</i>	Enter image uri
<i>__readonly__</i>	(Optional)
TABLE_incompat_all	(Optional) Show incompatibility system table
<i>Str1</i>	(Optional)
<i>Serv</i>	(Optional)
<i>Cap</i>	(Optional)
<i>Desc</i>	(Optional)
<i>Req</i>	(Optional)
<i>Enable</i>	(Optional)
<i>Dynamic</i>	(Optional)

Command Mode

- /exec

show incompatibility system

```
show incompatibility { system <uri0> | nxos <uri1> } [ __readonly__ { [ TABLE_incompat <Str1> [ <Serv>
] [ <Cap> ] [ <Desc> ] [ <Req> ] [ <Enable> ] [ <Dynamic> ] } ] }
```

Syntax Description

show	Show running system information
incompatibility	Show incompatible configurations
system	show incompatibilities with an image
<i>uri0</i>	Enter image uri
nxos	show incompatibilities with an image
<i>uri1</i>	Enter image uri
<i>__readonly__</i>	(Optional)
TABLE_incompat	(Optional) Show incompatibility system table
<i>Str1</i>	(Optional)
<i>Serv</i>	(Optional)
<i>Cap</i>	(Optional)
<i>Desc</i>	(Optional)
<i>Req</i>	(Optional)
<i>Enable</i>	(Optional)
<i>Dynamic</i>	(Optional)

Command Mode

- /exec

show install

```
show install { inactive | active [ brief ] | committed } [ __readonly__ { <curr_nxos_image> [ TABLE_smu_list
<install_smu_id> <install_smu_state> ] [ TABLE_package_list <package_id> + ] [ TABLE_base_package_list
<base_package_id> + ] } ]
```

Syntax Description

show	Show running system information
install	Install related show commands
inactive	Inactive packages
active	Active packages
brief	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
committed	Committed packages
__readonly__	(Optional)
<i>curr_nxos_image</i>	(Optional) NXOS image
TABLE_smu_list	(Optional)
<i>install_smu_id</i>	(Optional) install operation smu identifier
<i>install_smu_state</i>	(Optional) install operation smu state
TABLE_package_list	(Optional)
<i>package_id</i>	(Optional) Package name
TABLE_base_package_list	(Optional)
<i>base_package_id</i>	(Optional) Base package name

Command Mode

- /exec

show install all failed-standby

```
show install all failed-standby [ __readonly__ { [ TABLE_installFailStandby <Str1> ] } ]
```

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	Show install all information
failed-standby	show log from failed standby
__readonly__	(Optional)
TABLE_installFailStandby	(Optional) Install failed-standby table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show install all failure-reason

```
show install all failure-reason [ __readonly__ { [ TABLE_installFailReason <installFailReasonStr> ] } ]
```

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
failure-reason	Show failure reason for the last install all
__readonly__	(Optional)
TABLE_installFailReason	(Optional) Install failure-reason table
<i>installFailReasonStr</i>	(Optional)

Command Mode

- /exec

show install all impact

show install all impact [nxos <uri>] + [non-disruptive]

Syntax Description

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

Command Mode

- /exec

show install all impact epld

```
show install all impact epld <uri1> [ __readonly__ [ { TABLE_verinfo <ver_module> <ver_type> <epld_name>
<run_ver> <new_ver> <upg_req> } ] [ { TABLE_compat <module> <type> <upgradable> <impact> <reason>
} ] ]
```

Syntax Description

show	Show running system information
install	Show the software install status
all	show install all information
impact	show impact of the install all epld command
epld	Show EPLD install information
<i>uri1</i>	Local URI containing EPLD Image
<i>__readonly__</i>	(Optional)
TABLE_verinfo	(Optional)
<i>ver_module</i>	(Optional)
<i>ver_type</i>	(Optional)
<i>epld_name</i>	(Optional)
<i>run_ver</i>	(Optional)
<i>new_ver</i>	(Optional)
<i>upg_req</i>	(Optional)
TABLE_compat	(Optional)
<i>module</i>	(Optional)
<i>type</i>	(Optional)
<i>upgradable</i>	(Optional)
<i>impact</i>	(Optional)
<i>reason</i>	(Optional)

Command Mode

- /exec

show install all progress

show install all progress

Syntax Description

show	Show running system information
install	Show the software install progress
all	show install all information
progress	show progress of the current install all

Command Mode

- /exec

show install all status

```
show install all status [ __readonly__ { [ <no_install_status> ] [ TABLE_installstage <rownum> <moduleid>
<starttime> <stage> <stagesstatus> <endtime> ] [ TABLE_installcompatibility <compat_module_id> <bootable>
<impact> <install_type> [ <reason> ] ] [ TABLE_installversion <entryid> <version_module_id> <image>
<running_version> <new_version> <upg_required> ] [ TABLE_installadditionalinfo <add_info> ] } ]
```

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
status	show status of the current or last install all
<i>__readonly__</i>	(Optional)
<i>TABLE_installstage</i>	(Optional) install preupgrade stage table
<i>TABLE_installcompatibility</i>	(Optional) Compatibility table
<i>no_install_status</i>	(Optional) no recent install output
<i>rownum</i>	(Optional) row number of this stage in table
<i>moduleid</i>	(Optional) module id
<i>starttime</i>	(Optional) install step start time
<i>stage</i>	(Optional) install stage
<i>stagesstatus</i>	(Optional) success or failure of stage
<i>endtime</i>	(Optional) install stage end time
<i>compat_module_id</i>	(Optional) compat_module_id
<i>bootable</i>	(Optional) module bootable, yes or no
<i>impact</i>	(Optional) impact, disruptive or nondisruptive
<i>install_type</i>	(Optional) type of install, reset or none
<i>reason</i>	(Optional) reason
<i>TABLE_installversion</i>	(Optional) module new version information
<i>entryid</i>	(Optional)
<i>version_module_id</i>	(Optional)
<i>image</i>	(Optional)

<i>running_version</i>	(Optional)
<i>new_version</i>	(Optional)
<i>upg_required</i>	(Optional)
TABLE_installadditionalinfo	(Optional) additional info
<i>add_info</i>	(Optional) additional info string

Command Mode

- /exec

show install all time-stats

show install all time-stats [detail | handshake]

Syntax Description

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

Command Mode

- /exec

show install epld status

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

Syntax Description

show	Show running system information
install	Show the software install status
epld	Show EPLD install information
status	Show status of previous EPLD upgrades
<i>__readonly__</i>	(Optional)
<i>TABLE_data</i>	(Optional)
<i>entry_num</i>	(Optional)
<i>header_info</i>	(Optional)
<i>module_num</i>	(Optional)
<i>time</i>	(Optional)
<i>epld_install_name</i>	(Optional)
<i>reason</i>	(Optional)
<i>status</i>	(Optional)
<i>TABLE_epld</i>	(Optional)
<i>epld_name</i>	(Optional)
<i>curr_ver</i>	(Optional)
<i>old_ver</i>	(Optional)

Command Mode

- /exec

show install log

```
show install log { [ <id> | from <id1> ] [ detail ] [ reverse ] [ last ] } [ __readonly__ { current_time <curr_time>
[ TABLE_show_log_output <install_id> <install_log_entry> + ] }
```

Syntax Description

show	Show running system information
install	Install related show commands
log	log
<i>id</i>	(Optional) Install Identifies
from	(Optional) Starting at this install identifier
<i>id1</i>	(Optional) Install Identifier
detail	(Optional) Detailed information including impacted processes
reverse	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
last	(Optional) Display the logs for last install operation
__readonly__	(Optional)
current_time	(Optional) current time
<i>curr_time</i>	(Optional) current time
TABLE_show_log_output	(Optional)
<i>install_id</i>	(Optional) install operation id
<i>install_log_entry</i>	(Optional) install log entry

Command Mode

- /exec

show install mode

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

Syntax Description

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

Command Mode

- /exec

show install packages

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

Syntax Description

show	Show running system information
install	Install related show commands
packages	All packages
<i>__readonly__</i>	(Optional)
<i>curr_nxos_image</i>	(Optional) NXOS image
<i>TABLE_package_list</i>	(Optional)
<i>package_name</i>	(Optional) Package name
<i>version</i>	(Optional) Package version
<i>state</i>	(Optional) package state
<i>signature</i>	(Optional) Signature

Command Mode

- /exec

show install patches

```
show install patches [ __readonly__ { <curr_nxos_image> [ TABLE_smu_list <install_smu_id>
<install_smu_state> [ TABLE_module_list <install_modno> <install_mod_smu_state> ] ] } ]
```

Syntax Description

show	Show running system information
install	Install related show commands
patches	All Patches
<i>__readonly__</i>	(Optional)
<i>TABLE_smu_list</i>	(Optional)
<i>curr_nxos_image</i>	(Optional) NXOS image
<i>install_smu_id</i>	(Optional) install operation smu identifier
<i>install_smu_state</i>	(Optional) install operation smu state
<i>TABLE_module_list</i>	(Optional)
<i>install_modno</i>	(Optional) install operation module number
<i>install_mod_smu_state</i>	(Optional) install operation module state

Command Mode

- /exec

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

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

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

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

Command Mode

- /exec

show interface

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

Syntax Description

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

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

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

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

<i>vsan_brief</i>	(Optional) vsan brief
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>status</i>	(Optional) status
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_type</i>	(Optional) bind type
<i>bind_mac</i>	(Optional) bind mac address
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>port_channel</i>	(Optional) port channel number
<i>ip_addr</i>	(Optional) IP address

Command Mode

- /exec

show interface

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show interface <ifid> [ quick ] [ __readonly__ TABLE interface <interface> [ <desc> ] [ [ <svi_if_index> ]
[ <svi_admin_state> ] [ <oper_state> ] [ <svi_rsn_desc> ] [ <svi_line_proto> ] [ <svi_hw> ] [ <svi_mac> ] [
<svi_desc> ] [ <svi_ip_addr> ] [ <svi_ip_mask> ] [ <svi_mtu> ] [ <svi_bw> ] [ <svi_delay> ] [ <vlan_id> ]
[ <type> ] ] [ [ <svi_tx_load> ] [ <svi_rx_load> ] ] [ [ <svi_carrier_delay_sec> ] [ <svi_carrier_delay_msec>
] [ <svi_arp_type> ] [ <svi_arp_timeout> ] ] [ [ <svi_time_last_cleared> ] ] [ { [ TABLE_sec_vlan ] [
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] [ <eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits>
] [ <eth_inrate1_summary_pkts> ] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [
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<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts>
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<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
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] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [
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<eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [
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<eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes>
] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [
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[ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_outpause> ] [ <eth_buffail> ] [
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] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [
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] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [ <eth_inb1024_1518> ] [
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] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [ <eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [
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<eth_nfcoe_in_octets> ] [ <eth_nfcoe_out_pkts> ] [ <eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [
<eth_eee_arcv_lpi_msec> ] [ <eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [
<eth_phy_ber_count> ] [ <eth_phy_errblks_count> ] [ <eth_tx_frm_error> ] [ <eth_rx_toolong> ] [
<eth_rx_undersize> ] [ <eth_rx_fragment> ] [ <eth_rx_crcerr_not_stomped> ] [ <eth_rx_crcerr_stomped> ]
[ <eth_rx_inrangeerr> ] ] [ [ <svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out> ] [
<svi_routed_bytes_out> ] [ <svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [
<svi_mcast_bytes_in> ] [ <svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [
<svi_mcast_bytes_out> ] [ <svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [

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<svi_ipv4_ucast_pkts_out> ][ <svi_ipv4_ucast_bytes_out> ][ <svi_ipv4_mcast_pkts_in> ][
<svi_ipv4_mcast_bytes_in> ][ <svi_ipv4_mcast_pkts_out> ][ <svi_ipv4_mcast_bytes_out> ][
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<svi_ipv6_ucast_bytes_out> ][ <svi_ipv6_mcast_pkts_in> ][ <svi_ipv6_mcast_bytes_in> ][
<svi_ipv6_mcast_pkts_out> ][ <svi_ipv6_mcast_bytes_out> ][ <svi_average_input_bits> ][
<svi_average_input_packets> ][ <svi_average_output_bits> ][ <svi_average_output_packets> ][
<svi_rate_in_mins> ]][ [ <svi_reliability> ]][ <switchport> ]][

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Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid</i>	Enter interface type and number in module/slot format
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>desc</i>	(Optional) Interface description
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed
<i>svi_line_proto</i>	(Optional)
<i>svi_hw</i>	(Optional) Hardware
<i>svi_mac</i>	(Optional) Address
<i>svi_desc</i>	(Optional) Interface Description
<i>svi_ip_addr</i>	(Optional) IP Address
<i>svi_ip_mask</i>	(Optional) IP address mask
<i>svi_mtu</i>	(Optional) MTU size in bytes
<i>svi_bw</i>	(Optional) Bandwidth in kilobits
<i>svi_delay</i>	(Optional) Throughput delay (tens of microseconds)
<i>vlan_id</i>	(Optional) Vlan
<i>type</i>	(Optional) type
<i>svi_tx_load</i>	(Optional) Tx Load

<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_carrier_delay_sec</i>	(Optional) carrier delay value in seconds
<i>svi_carrier_delay_msec</i>	(Optional) carrier delay value in milli-seconds
<i>svi_arp_type</i>	(Optional) ARP type
<i>svi_arp_timeout</i>	(Optional) ARP timeout value
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
TABLE_sec_vlan	(Optional) secondary vlans
<i>sec_vlan</i>	(Optional) vlan id
<i>sec_vlan_type</i>	(Optional) secondary vlan type
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary

<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts

<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors

<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output

<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_inb1519_2500</i>	(Optional) input pkts between 1519 and 2500 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes

<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outb1519_2500</i>	(Optional) output pkts between 1519 and 2500 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter
<i>eth_tx_frm_error</i>	(Optional) tx frame error
<i>eth_rx_toolong</i>	(Optional) rx toolong error

<i>eth_rx_undersize</i>	(Optional) rx undersize
<i>eth_rx_fragment</i>	(Optional) rx fragment
<i>eth_rx_crcerr_not_stomped</i>	(Optional) rx crcerr not stomped
<i>eth_rx_crcerr_stomped</i>	(Optional) rx crcerr stomped
<i>eth_rx_inrangeerr</i>	(Optional) rx inrange error
<i>svi_reliability</i>	(Optional) Reliability
<i>switchport</i>	(Optional) Switchport enabled

Command Mode

- /exec

show interface

```
show interface <ifmgmt> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <admin_state> ] [ <share_state> ] [ <eth_bundle> ] [
<eth_dce_mode> ] [ <vpc_status> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [
<eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_encap_vlan> ] [
<eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [ <encapsulation> ] [ <medium> ] [
<eth_loopback> ] [ <eth_keepalive> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_mode> ] [ <eth_ratemode> ] [
<eth_autoneg> ] [ <eth_beacon> ] [ <eth_media> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [
<eth_sw_t_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [ <eth_clk_mode> ] [ <eth_arp_type> ] [
<eth_arp_timeout> ] [ <eth_last_in> ] [ <eth_last_out> ] [ <eth_out_hang> ] [ <eth_clear_counters> ] [
<eth_link_flapped> ] [ <eth_inq_size> ] [ <eth_inq_max> ] [ <eth_inq_drops> ] [ <eth_inq_flush> ] [
<eth_out_drop> ] [ <eth_q_strategy> ] [ <eth_outq_size> ] [ <eth_outq_max> ] [ <eth_reset_cntr> ] [
<mgmt_hw_desc> ] [ <mgmt_hw_addr> ] [ <mgmt_ip_addr> ] [ <mgmt_ip_mask> ] [ <mgmt_mtu> ] [
<mgmt_speed> ] [ <mgmt_duplex> ] [ <vdc_lvl_in_avg_bits> ] [ <vdc_lvl_in_avg_pkts> ] [
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<vdc_lvl_in_mcast> ] [ <vdc_lvl_in_bcast> ] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [
<vdc_lvl_out_pkts> ] [ <vdc_lvl_out_ucast> ] [ <vdc_lvl_out_mcast> ] [ <vdc_lvl_out_bcast> ] [
<vdc_lvl_out_bytes> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt</i>	Enter interface type and number in module/slot format
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>admin_state</i>	(Optional) Interface admin state
<i>share_state</i>	(Optional) Interface ownership
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_dce_mode</i>	(Optional) DCE mode description
<i>vpc_status</i>	(Optional) VPC status

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

<i>eth_etherType</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_clk_mode</i>	(Optional) Clock mode
<i>eth_arp_type</i>	(Optional) ARP type
<i>eth_arp_timeout</i>	(Optional) ARP timeout
<i>eth_last_in</i>	(Optional) Last input
<i>eth_last_out</i>	(Optional) Last output
<i>eth_out_hang</i>	(Optional) Last output hang
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_inq_size</i>	(Optional) Input queue size
<i>eth_inq_max</i>	(Optional) Input queue max
<i>eth_inq_drops</i>	(Optional) Input queue drops
<i>eth_inq_flush</i>	(Optional) Input queue flushes
<i>eth_out_drop</i>	(Optional) Output drops
<i>eth_q_strategy</i>	(Optional) Queuing strategy
<i>eth_outq_size</i>	(Optional) Output queue size
<i>eth_outq_max</i>	(Optional) Output queue max
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>mgmt_hw_desc</i>	(Optional) HW description
<i>mgmt_hw_addr</i>	(Optional) HW address
<i>mgmt_ip_addr</i>	(Optional) IP address
<i>mgmt_ip_mask</i>	(Optional) IP address mask
<i>mgmt_mtu</i>	(Optional) MTU
<i>mgmt_speed</i>	(Optional) Speed
<i>mgmt_duplex</i>	(Optional) Duplex
<i>vdc_lvl_in_avg_bits</i>	(Optional) VDC level average input bits
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_out_avg_bits</i>	(Optional) VDC level average output bits

<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second

Command Mode

- /exec

show interface

```

show interface [ controller | quick ] [ __readonly__ TABLE_interface <interface> [ <state> ] [ <state_rsn> ]
[ <state_rsn_desc> ] [ <vsan_brief> ] [ <oper_port_state> ] [ <port_state> ] [ <bound_interface> ] [
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] [ <sfp> ] [ <port_wwn> ] [ <peer_port_wwn> ] [ <admin_mode> ] [ <admin_trunk_mode> ] [ <snmp_trap>
] [ <status> ] [ <state_rsn1> ] [ <fcot_info> ] [ <bind_info> ] [ <bind_mac> ] [ <bind_type> ] [ <port_mode>
] [ <fcid> ] [ <cfg_port_vsan> ] [ <vsan> ] [ <port_rate_mode> ] [ <oper_speed> ] [ <admin_speed> ] [
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<info_manufacturer> ] [ <info_port_id> ] [ <active_vsan> ] [ <trunk_vsan_up> ] [ <trunk_vsan_isolated> ]
[ <trunk_vsan_initializing> ] [ <in_bps> ] [ <in_byps> ] [ <in_fps> ] [ <out_bps> ] [ <out_byps> ] [ <out_fps>
] [ <total_in_frames> ] [ <total_in_bytes> ] [ <total_in_discards> ] [ <total_in_errors> ] [ <invalid_crc> ] [
<unknown_class_frames> ] [ <frames_too_long> ] [ <frames_too_short> ] [ <total_out_frames> ] [
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<interface_last_changed> ] [ <time_last_cleared> ] [ [ <interface_quick> ] [ <vsan_brief_quick> ] [
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<port_des_quick> ] [ <mgmt_hw_desc1_quick> ] [ <mgmt_hw_addr1_quick> ] [ <port_name_quick> ] [
<hardware_quick> ] [ <sfp_quick> ] [ <port_wwn_quick> ] [ <peer_port_wwn_quick> ] [
<admin_mode_quick> ] [ <admin_trunk_mode_quick> ] [ <snmp_trap_quick> ] [ <status_quick> ] [
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] [ <info_port_id_quick> ] [ <active_vsan_quick> ] [ <trunk_vsan_up_quick> ] [ <trunk_vsan_isolated_quick>
] [ <trunk_vsan_initializing_quick> ] [ <in_bps_quick> ] [ <in_byps_quick> ] [ <in_fps_quick> ] [
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] [ <out_ols_quick> ] [ <out_lrr_quick> ] [ <out_nos_quick> ] [ <out_loop_inits_quick> ] [
<rx_b2b_perf_buff_quick> ] [ <rx_b2b_credit_quick> ] [ <tx_b2b_credit_quick> ] [
<tx_b2b_low_pri_cre_quick> ] [ <fcoe_in_pkts_quick> ] [ <fcoe_in_octets_quick> ] [ <fcoe_out_pkts_quick>
] [ <fcoe_out_octets_quick> ] [ TABLE_members_quick [ <port_channel_member_quick> ] ] [
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<eth_speed> ] [ <eth_media> ] [ <eth_beacon> ] [ <eth_autoneg> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl>

```



```

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]] [<eth_deferred>]] [<eth_latecoll>]] [<eth_lostcarrier>]] [<eth_nocarrier>]] [<eth_babbles>]]
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]] [<loop_out_underruns>]] [<loop_out_errors>]] [<loop_out_collisions>]] [<loop_out_fifo>]]
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]]

```


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

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

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

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

<i>admin_speed_quick</i>	(Optional) admin speed
<i>port_channel_quick</i>	(Optional) port channel
<i>ip_addr1_quick</i>	(Optional) Ip address
<i>oper_txbbcredit_quick</i>	(Optional) oper tx bbcredit
<i>oper_rxbbcredit_quick</i>	(Optional) oper rx bbcredit
<i>port_bb_scn_quick</i>	(Optional) port bb scn
<i>admin_rxbufsize_quick</i>	(Optional) admin rx bufsize
<i>admin_port_encap_quick</i>	(Optional) admin port encap
<i>admin_beacon_mode_quick</i>	(Optional) admin beacon mode
<i>admin_fec_state_quick</i>	(Optional) admin fec state
<i>oper_fec_state_quick</i>	(Optional) oper fec state
<i>bundle_if_index_quick</i>	(Optional) bundle if index
<i>trkd_if_index_quick</i>	(Optional) Trunk interfaces
<i>trk_cfg_vsans_quick</i>	(Optional) Trunk vsans
<i>trkd_port_state_quick</i>	(Optional) trunk port state
<i>num_ports_quick</i>	(Optional) number of ports
TABLE_trk_intf_quick	(Optional) trunk interfaces
<i>trk_intf_quick</i>	(Optional) track interface
<i>info_type_num_quick</i>	(Optional) info type num
<i>info_model_num_quick</i>	(Optional) info model num
<i>info_manufacturer_quick</i>	(Optional) info manufacturer
<i>info_port_id_quick</i>	(Optional) info port id
<i>active_vsan_quick</i>	(Optional) allowed and active vsan
<i>trunk_vsan_up_quick</i>	(Optional) trunk vsan up
<i>trunk_vsan_isolated_quick</i>	(Optional) trunk vsan isolated
<i>trunk_vsan_initializing_quick</i>	(Optional) trunk vsan initializing
<i>in_bps_quick</i>	(Optional) input bits/sec
<i>in_byps_quick</i>	(Optional) input bytes/sec
<i>in_fps_quick</i>	(Optional) input frames/sec

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

<i>fcoe_out_pkts_quick</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets_quick</i>	(Optional) fcoe out octets
<i>TABLE_members_quick</i>	(Optional) table for port-channel member interface
<i>port_channel_member_quick</i>	(Optional) port-channel member interface
<i>interface_last_changed_quick</i>	(Optional) interface last changed
<i>time_last_cleared_quick</i>	(Optional) counters last cleared
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>admin_state</i>	(Optional) admin state
<i>share_state</i>	(Optional) Interface ownership
<i>parent_interface</i>	(Optional) parent interface
<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_bw_str</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>encapsulation</i>	(Optional) Encapsulation

<i>medium</i>	(Optional) medium type
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_swt_monitor</i>	(Optional) Switchport Monitor
<i>eth_etherType</i>	(Optional) EtherType
<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_admin_fec_state</i>	(Optional) Admin FEC state
<i>eth_oper_fec_state</i>	(Optional) Oper FEC state
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary

<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes

<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_jumbo_inpkts</i>	(Optional) Incoming jumbo pkts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_runts</i>	(Optional) runts
<i>eth_giants</i>	(Optional) giants
<i>eth_crc</i>	(Optional) CRC
<i>eth_nobuf</i>	(Optional) No buffer received

<i>eth_inerr</i>	(Optional) input errors
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_indiscard</i>	(Optional) discards
<i>eth_inpause</i>	(Optional) pause input
<i>eth_stomped_crc</i>	(Optional) Stomped CRC
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_jumbo_outpkts</i>	(Optional) Outgoing jumbo pkts
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_deferred</i>	(Optional) deferred
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_outdiscard</i>	(Optional) output discard
<i>eth_outpause</i>	(Optional) PAUSE output
<i>mgmt_hw_desc</i>	(Optional) HW description

<i>mgmt_hw_addr</i>	(Optional) HW address
<i>mgmt_ip_addr</i>	(Optional) IP address
<i>mgmt_ip_mask</i>	(Optional) IP address mask
<i>mgmt_mtu</i>	(Optional) MTU
<i>mgmt_speed</i>	(Optional) Speed
<i>mgmt_duplex</i>	(Optional) Duplex
<i>vdc_lvl_in_avg_bits</i>	(Optional) VDC level average input bits
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_out_avg_bits</i>	(Optional) VDC level average output bits
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors

<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error
<i>loop_in_pkts</i>	(Optional) Input packets

<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed
<i>svi_line_proto</i>	(Optional)
<i>svi_hw</i>	(Optional) Hardware
<i>svi_mac</i>	(Optional) Address
<i>svi_desc</i>	(Optional) Interface Description
<i>svi_ip_addr</i>	(Optional) IP Address
<i>svi_ip_mask</i>	(Optional) IP address mask
<i>svi_mtu</i>	(Optional) MTU size in bytes
<i>svi_bw</i>	(Optional) Bandwidth in kilobits
<i>svi_delay</i>	(Optional) Throughput delay (tens of microseconds)
<i>vlan_id</i>	(Optional) Vlan
<i>type</i>	(Optional) type

<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_carrier_delay_sec</i>	(Optional) carrier delay value in seconds
<i>svi_carrier_delay_msec</i>	(Optional) carrier delay value in milli-seconds
<i>svi_arp_type</i>	(Optional) ARP type
<i>svi_arp_timeout</i>	(Optional) ARP timeout value
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
TABLE_sec_vlan	(Optional) secondary vlans
<i>sec_vlan</i>	(Optional) vlan id
<i>sec_vlan_type</i>	(Optional) secondary vlan type
<i>svi_reliability</i>	(Optional) Reliability
<i>veth_hw_desc</i>	(Optional) HW description
<i>veth_hw_addr</i>	(Optional) HW address
<i>veth_bia_addr</i>	(Optional) bia address
<i>veth_conn_name</i>	(Optional) Connectee name
<i>veth_conn_dev_name</i>	(Optional) Connectee device name
<i>veth_vem_num</i>	(Optional) VEM the veth is active on
<i>veth_vmware_dyport_num</i>	(Optional) VMware DVPort number
<i>veth_port_profile</i>	(Optional) Port Profile name
<i>veth_mode</i>	(Optional) Port mode
<i>veth_inrate_bits</i>	(Optional) input rate bits/sec
<i>veth_inrate_pkts</i>	(Optional) input rate pkts/sec
<i>veth_outrate_bits</i>	(Optional) output rate bits/sec
<i>veth_outrate_pkts</i>	(Optional) output rate pkts/sec
<i>veth_inpkts</i>	(Optional) Packets input
<i>veth_inucast</i>	(Optional) Unicasts input
<i>veth_inmcast</i>	(Optional) Multicasts input
<i>veth_inbcast</i>	(Optional) Broadcasts input
<i>veth_inbytes</i>	(Optional) Bytes input

<i>veth_outpkts</i>	(Optional) Packets output
<i>veth_outucast</i>	(Optional) Unicasts output
<i>veth_outmcast</i>	(Optional) Multicasts output
<i>veth_outbcast</i>	(Optional) Broadcasts output
<i>veth_outfloods</i>	(Optional) Flood packets output
<i>veth_outbytes</i>	(Optional) Bytes output
<i>veth_inpktdrops</i>	(Optional) Packet drops input
<i>veth_outpktdrops</i>	(Optional) Packet drops output
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>tunnel_vrf_name</i>	(Optional) tunnel VRF name
<i>wccp_header</i>	(Optional) wccp header
<i>ttl_val</i>	(Optional) tunnel time to live value
<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time
<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received
<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received

<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters
<i>overlay_addr</i>	(Optional) Overlay address
<i>overlay_addr_mask</i>	(Optional) Overlay address mask
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_encap_str</i>	(Optional) Encap type
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address
<i>overlay_last_link_flap</i>	(Optional) Last link flap
<i>overlay_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts

<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes
<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted bcast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pktrate</i>	(Optional) Transmit pkt rate
<i>switchport</i>	(Optional) Switchport enabled

Command Mode

- /exec

show interface

```
show interface <ifloop> [ __readonly__ TABLE_interface <interface> [ <state> ] [ <admin_state> ] [
<share_state> ] [ <state_rsn> ] [ <state_rsn_desc> ] [ <desc> ] [ <eth_bundle> ] [ <mgmt_sfp> ] [ <mgmt_type>
] [ <eth_eee_state> ] [ <eth_dce_mode> ] [ <vpc_status> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [
<eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix>
] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_encap_vlan> ] [ <encapsulation> ] [ <eth_dly> ] [ <eth_reliability> ] [
<eth_txload> ] [ <eth_rxload> ] [ <eth_loopback> ] [ <eth_keepalive> ] [ <eth_duplex> ] [ <eth_speed> ] [
<eth_mode> ] [ <eth_ratemode> ] [ <eth_autoneg> ] [ <eth_beacon> ] [ <eth_media> ] [ <eth_in_flowctrl>
] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_swt_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [
<eth_clk_mode> ] [ <eth_arp_type> ] [ <eth_arp_timeout> ] [ <eth_last_in> ] [ <eth_last_out> ] [
<eth_out_hang> ] [ <eth_clear_counters> ] [ <eth_link_flapped> ] [ <eth_inq_size> ] [ <eth_inq_max> ] [
<eth_inq_drops> ] [ <eth_inq_flush> ] [ <eth_out_drop> ] [ <eth_q_strategy> ] [ <eth_outq_size> ] [
<eth_outq_max> ] [ <eth_reset_cnt> ] [ <eth_tx_frm_error> ] [ <eth_rx_toolong> ] [ <eth_rx_undersize> ]
[ <eth_rx_fragment> ] [ <eth_rx_crcerr_not_stomped> ] [ <eth_rx_crcerr_stomped> ] [ <eth_rx_inrangeerr>
] [ <loop_in_pkts> ] [ <loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors>
] [ <loop_in_frame> ] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [
<loop_out_underruns> ] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [
<loop_out_carriers> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop</i>	Enter interface type and number in module/slot format
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>admin_state</i>	(Optional) Interface admin state
<i>share_state</i>	(Optional) Interface ownership
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>mgmt_sfp</i>	(Optional) mgmt sfp
<i>mgmt_type</i>	(Optional) mgmt type
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_eee_state</i>	(Optional) EEE state

<i>eth_dce_mode</i>	(Optional) DCE mode description
<i>vpc_status</i>	(Optional) VPC status
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP Prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>encapsulation</i>	(Optional) Encapsulation
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_loopback</i>	(Optional) Loopback
<i>eth_keepalive</i>	(Optional) Keepalive
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed
<i>eth_mode</i>	(Optional) Port mode
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_media</i>	(Optional) Media type
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol

<i>eth_mdix</i>	(Optional) Mdx
<i>eth_swt_monitor</i>	(Optional) Switchport Monitor
<i>eth_etherstype</i>	(Optional) EtherType
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_clk_mode</i>	(Optional) Clock mode
<i>eth_arp_type</i>	(Optional) ARP type
<i>eth_arp_timeout</i>	(Optional) ARP timeout
<i>eth_last_in</i>	(Optional) Last input
<i>eth_last_out</i>	(Optional) Last output
<i>eth_out_hang</i>	(Optional) Last output hang
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_inq_size</i>	(Optional) Input queue size
<i>eth_inq_max</i>	(Optional) Input queue max
<i>eth_inq_drops</i>	(Optional) Input queue drops
<i>eth_inq_flush</i>	(Optional) Input queue flushes
<i>eth_out_drop</i>	(Optional) Output drops
<i>eth_q_strategy</i>	(Optional) Queuing strategy
<i>eth_outq_size</i>	(Optional) Output queue size
<i>eth_outq_max</i>	(Optional) Output queue max
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>eth_tx_frm_error</i>	(Optional) tx frame error
<i>eth_rx_toolong</i>	(Optional) rx toolong error
<i>eth_rx_undersize</i>	(Optional) rx undersize
<i>eth_rx_fragment</i>	(Optional) rx fragment
<i>eth_rx_crcerr_not_stomped</i>	(Optional) rx crcerr not stomped
<i>eth_rx_crcerr_stomped</i>	(Optional) rx crcerr stomped
<i>eth_rx_inrangeerr</i>	(Optional) rx inrange error
<i>loop_in_pkts</i>	(Optional) Input packets

<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors

Command Mode

- /exec

show interface

```
show interface <iftun_desc> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<desc> ] [ <admin-state> ] [ { <tunnel-ipv4> | <tunnel-ipv6> } ] [ <mtu> ] [ <bandwidth> ] [ <encap-type>
] [ <keepalive-period> ] [ <keepalive-retries> ] [ { <src-ipv4> | <src-ipv6> } ] [ <src-intf> ] [ { <dest-ipv4>
| <dest-ipv6> } ] [ <dest-hostname> ] [ <vrf_name> ] [ <tunnel_vrf_name> ] [ <wccp_header> ] [ <ttl_val>
] [ <tunnel_pmtud_age_time> ] [ <tunnel_pmtud_min_mtu> ] [ <tunnel_pmtud> ] [ <tunnel_pgm_mtu> ] [
<tunnel_clear_counter> ] [ <tunnel_tx_pkt_count> ] [ <tunnel_tx_byte_count> ] [ <tunnel_tx_rate> ] [
<tunnel_rx_pkt_count> ] [ <tunnel_rx_byte_count> ] [ <tunnel_rx_rate> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_desc</i>	Enter tunnel interface number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>tunnel_vrf_name</i>	(Optional) tunnel VRF name

<i>wccp_header</i>	(Optional) wccp header
<i>ttl_val</i>	(Optional) tunnel time to live value
<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time
<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received
<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received
<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters

Command Mode

- /exec

show interface

```
show interface <ifeth> [ quick ] [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ]
[ <state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <admin_state> ] [ <share_state> ] [ <parent_interface> ]
[ <vpc_status> ] [ <eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [
<eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ] [ <eth_mtu> ] + [ <eth_bw> ] [ <eth_bw_str> ] [
<eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [ <eth_encap_vlan> ] [ <encapsulation> ]
[ <medium> ] [ <eth_mode> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_media> ] [ <eth_beacon> ] [
<eth_autoneg> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_ratemode> ] [
<eth_swt_monitor> ] [ <eth_etherstype> ] [ <eth_eee_state> ] [ <eth_admin_fec_state> ] [ <eth_oper_fec_state> ]
] [ <eth_members> ] [ <eth_link_flapped> ] [ <eth_clear_counters> ] [ <eth_reset_cntr> ] [
<eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [ <eth_load_interval1_tx> ] [
<eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits> ] [ <eth_inrate1_summary_pkts> ]
] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [ <eth_load_interval2_rx> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [ <eth_outrate2_bits> ] [
<eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ] [
<eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ]
] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [
<eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ]
] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [
<eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [
<eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [
<eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_inpkts> ] [ <eth_inbytes> ] [ <eth_jumbo_inpkts> ]
] [ <eth_storm_supp> ] [ <eth_runts> ] [ <eth_giants> ] [ <eth_crc> ] [ <eth_nobuf> ] [ <eth_inerr> ] [
<eth_frame> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_bad_eth> ]
] [ <eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_dribble> ] [ <eth_indiscard> ] [ <eth_inpause> ] [
<eth_stomped_crc> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outpkts> ] [
<eth_outbytes> ] [ <eth_jumbo_outpkts> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_deferred> ] [ <eth_latecoll> ]
] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_babbles> ] [ <eth_outdiscard> ] [ <eth_outpause> ] [
<switchport> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth</i>	Enter interface type and number in module/slot format
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state

<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>admin_state</i>	(Optional) admin state
<i>share_state</i>	(Optional) Interface ownership
<i>parent_interface</i>	(Optional) parent interface
<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address
<i>eth_bia_addr</i>	(Optional) bia address
<i>desc</i>	(Optional) Interface description
<i>eth_ip_addr</i>	(Optional) IP Address
<i>eth_ip_mask</i>	(Optional) IP address mask
<i>eth_ip_prefix</i>	(Optional) IP address prefix
<i>eth_mtu</i>	(Optional) MTU
<i>eth_bw</i>	(Optional) Bandwidth
<i>eth_bw_str</i>	(Optional) Bandwidth
<i>eth_dly</i>	(Optional) Delay
<i>eth_reliability</i>	(Optional) Reliability
<i>eth_txload</i>	(Optional) Tx load
<i>eth_rxload</i>	(Optional) Rx load
<i>eth_encap_vlan</i>	(Optional) Encapsulation Vlan
<i>encapsulation</i>	(Optional) Encapsulation
<i>medium</i>	(Optional) medium type
<i>eth_mode</i>	(Optional) Port mode
<i>eth_duplex</i>	(Optional) Duplex
<i>eth_speed</i>	(Optional) Speed

<i>eth_media</i>	(Optional) Media type
<i>eth_beacon</i>	(Optional) Beacon
<i>eth_autoneg</i>	(Optional) Autonegotiation
<i>eth_in_flowctrl</i>	(Optional) Input flowcontrol
<i>eth_out_flowctrl</i>	(Optional) Output flowcontrol
<i>eth_mdix</i>	(Optional) Mdx
<i>eth_ratemode</i>	(Optional) Rate mode
<i>eth_swt_monitor</i>	(Optional) Switchport Monitor
<i>eth_ethertype</i>	(Optional) EtherType
<i>eth_eee_state</i>	(Optional) EEE state
<i>eth_admin_fec_state</i>	(Optional) Admin FEC state
<i>eth_oper_fec_state</i>	(Optional) Oper FEC state
<i>eth_members</i>	(Optional) Members in this channel
<i>eth_link_flapped</i>	(Optional) Last link flapped
<i>eth_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>eth_reset_cntr</i>	(Optional) Interface resets
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec

<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes

<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_jumbo_inpkts</i>	(Optional) Incoming jumbo pkts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_runts</i>	(Optional) runts
<i>eth_giants</i>	(Optional) giants
<i>eth_crc</i>	(Optional) CRC
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inerr</i>	(Optional) input errors
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns

<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_indiscard</i>	(Optional) discards
<i>eth_inpause</i>	(Optional) pause input
<i>eth_stomped_crc</i>	(Optional) Stomped CRC
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_jumbo_outpkts</i>	(Optional) Outgoing jumbo pkts
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_deferred</i>	(Optional) deferred
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_outdiscard</i>	(Optional) output discard
<i>eth_outpause</i>	(Optional) PAUSE output
<i>switchport</i>	(Optional) Switchport enabled

Command Mode

- /exec

show interface

```
show interface <ifveth> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] <state_rsn_desc>
[ <desc> ] <veth_hw_desc> <veth_hw_addr> <veth_bia_addr> [ <veth_conn_name> ] [
<veth_conn_dev_name> ] [ <veth_vem_num> ] [ <veth_vmware_dvport_num> ] [ <veth_port_profile> ]
<veth_mode> <veth_inrate_bits> <veth_inrate_pkts> <veth_outrate_bits> <veth_outrate_pkts> <veth_inpkts>
<veth_inucast> <veth_inmcast> <veth_inbcast> <veth_inbytes> <veth_outpkts> <veth_outucast>
<veth_outmcast> <veth_outbcast> <veth_outfloods> <veth_outbytes> <veth_inpktdrops> <veth_outpktdrops>
]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifveth</i>	Enter interface type and number in module/slot format
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>veth_hw_desc</i>	(Optional) HW description
<i>veth_hw_addr</i>	(Optional) HW address
<i>veth_bia_addr</i>	(Optional) bia address
<i>veth_conn_name</i>	(Optional) Connectee name
<i>veth_conn_dev_name</i>	(Optional) Connectee device name
<i>veth_vem_num</i>	(Optional) VEM the veth is active on
<i>veth_vmware_dvport_num</i>	(Optional) VMware DVPort number
<i>veth_port_profile</i>	(Optional) Port Profile name
<i>veth_mode</i>	(Optional) Port mode
<i>veth_inrate_bits</i>	(Optional) input rate bits/sec
<i>veth_inrate_pkts</i>	(Optional) input rate pkts/sec
<i>veth_outrate_bits</i>	(Optional) output rate bits/sec

<i>veth_outrate_pkts</i>	(Optional) output rate pkts/sec
<i>veth_inpkts</i>	(Optional) Packets input
<i>veth_inucast</i>	(Optional) Unicasts input
<i>veth_inmcast</i>	(Optional) Multicasts input
<i>veth_inbcast</i>	(Optional) Broadcasts input
<i>veth_inbytes</i>	(Optional) Bytes input
<i>veth_outpkts</i>	(Optional) Packets output
<i>veth_outucast</i>	(Optional) Unicasts output
<i>veth_outmcast</i>	(Optional) Multicasts output
<i>veth_outbcast</i>	(Optional) Broadcasts output
<i>veth_outfloods</i>	(Optional) Flood packets output
<i>veth_outbytes</i>	(Optional) Bytes output
<i>veth_inpktdrops</i>	(Optional) Packet drops input
<i>veth_outpktdrops</i>	(Optional) Packet drops output

Command Mode

- /exec

show interface

```
show interface <ifrange> [ __readonly__ TABLE_interface <interface> <state> <state_rsn> <state_rsn_desc>
<desc> [ <overlay_addr> ] [ <overlay_addr_mask> ] [ <overlay_mtu> ] [ <overlay_bandwidth> ] [
<overlay_encap_str> ] [ <overlay_vrf> ] [ <overlay_src_addr> ] [ <overlay_dst_addr> ] [
<overlay_last_link_flap> ] [ <overlay_clear_counters> ] [ <overlay_load_interval> ] [ <overlay_rx_ucastpkts>
] [ <overlay_rx_ucastbytes> ] [ <overlay_rx_mcastpkts> ] [ <overlay_rx_mcastbytes> ] [ <overlay_rx_pkts>
] [ <overlay_rx_bytes> ] [ <overlay_rx_bcastpkts> ] [ <overlay_rx_bcastbytes> ] [ <overlay_rx_bitrate> ] [
<overlay_rx_pktrate> ] [ <overlay_tx_ucastpkts> ] [ <overlay_tx_ucastbytes> ] [ <overlay_tx_mcastpkts> ]
[ <overlay_tx_mcastbytes> ] [ <overlay_tx_bcastpkts> ] [ <overlay_tx_bcastbytes> ] [ <overlay_tx_pkts> ]
[ <overlay_tx_bytes> ] [ <overlay_tx_bitrate> ] [ <overlay_tx_pktrate> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>overlay_addr</i>	(Optional) Overlay address
<i>overlay_addr_mask</i>	(Optional) Overlay address mask
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_encap_str</i>	(Optional) Encap type
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address
<i>overlay_last_link_flap</i>	(Optional) Last link flap
<i>overlay_clear_counters</i>	(Optional) Last clearing of show interface counters

<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes
<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted bcast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pktrate</i>	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface

```
show interface <ifrange> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<state_rsn> ] [ <admin_state> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <share_state> ] [ <vpc_status> ] [
<eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [ <eth_ip_addr> ] [
<eth_ip_mask> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [ <eth_rxload>
] [ <eth_encap_vlan> ] [ <encapsulation> ] [ <eth_mode> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_media>
] [ <eth_beacon> ] [ <eth_autoneg> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [
<eth_ratemode> ] [ <eth_swt_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [ <eth_link_flapped> ] [
<eth_clear_counters> ] [ <eth_reset_cntr> ] [ <nve_addr> ] [ <nve_addr_mask> ] [ <nve_vcid> ] [ <nve_mtu>
] [ <nve_bandwidth> ] [ <nve_encap_str> ] [ <nve_vrf> ] [ <nve_src_addr> ] [ <nve_dst_addr> ] [
<nve_last_link_flap> ] [ <nve_clear_counters> ] [ <nve_load_interval> ] [ <nve_rx_ucastpkts> ] [
<nve_rx_ucastbytes> ] [ <nve_rx_mcastpkts> ] [ <nve_rx_mcastbytes> ] [ <nve_rx_pkts> ] [ <nve_rx_bytes>
] [ <nve_rx_bcastpkts> ] [ <nve_rx_bcastbytes> ] [ <nve_rx_bitrate> ] [ <nve_rx_pktrate> ] [
<nve_tx_ucastpkts> ] [ <nve_tx_ucastbytes> ] [ <nve_tx_mcastpkts> ] [ <nve_tx_mcastbytes> ] [
<nve_tx_bcastpkts> ] [ <nve_tx_bcastbytes> ] [ <nve_tx_pkts> ] [ <nve_tx_bytes> ] [ <nve_tx_bitrate> ] [
<nve_tx_pktrate> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>state_rsn</i>	(Optional) Interface state reason
<i>admin_state</i>	(Optional) admin state
<i>eth_rsn_fac</i>	(Optional) State reason facility
<i>eth_rsn_code</i>	(Optional) State reason code
<i>share_state</i>	(Optional) Interface ownership
<i>vpc_status</i>	(Optional) VPC status
<i>eth_bundle</i>	(Optional) Belongs to bundle
<i>eth_hw_desc</i>	(Optional) HW description
<i>eth_hw_addr</i>	(Optional) HW address

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

<i>nve_addr_mask</i>	(Optional) Peer address mask
<i>nve_vcid</i>	(Optional) VCID
<i>nve_mtu</i>	(Optional) MTU
<i>nve_bandwidth</i>	(Optional) Bandwidth
<i>nve_encap_str</i>	(Optional) Encap type
<i>nve_vrf</i>	(Optional) VRF
<i>nve_src_addr</i>	(Optional) Source address
<i>nve_dst_addr</i>	(Optional) Destination address
<i>nve_last_link_flap</i>	(Optional) Last link flap
<i>nve_clear_counters</i>	(Optional) Last clearing of show interface counters
<i>nve_load_interval</i>	(Optional) Load interval
<i>nve_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>nve_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>nve_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>nve_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>nve_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>nve_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>nve_rx_pkts</i>	(Optional) Total received pkts
<i>nve_rx_bytes</i>	(Optional) Total received bytes
<i>nve_rx_bitrate</i>	(Optional) Receive bit rate
<i>nve_rx_pktrate</i>	(Optional) Receive pkt rate
<i>nve_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>nve_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>nve_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>nve_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes
<i>nve_tx_bcastpkts</i>	(Optional) Trasnmitted bcast pkts
<i>nve_tx_bcastbytes</i>	(Optional) Trasnmitted bcast bytes
<i>nve_tx_pkts</i>	(Optional) Total transmitted pkts
<i>nve_tx_bytes</i>	(Optional) Total transmitted bytes

<i>nve_tx_bitrate</i>	(Optional) Transmit bit rate
<i>nve_tx_pktrate</i>	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface aggregate-counters

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

Syntax Description

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

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

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

Command Mode

- /exec

show interface aggregate-counters

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

Syntax Description

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

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

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

Command Mode

- /exec

show interface bbcredit

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

Syntax Description

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

Command Mode

- /exec

show interface brief

```
show interface <ifrange> brief [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] [
<state_rsn_desc> ] [ <overlay_mtu> ] [ <overlay_bandwidth> ] [ <overlay_vrf> ] [ <overlay_src_addr> ] [
<overlay_dst_addr> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>overlay_mtu</i>	(Optional) MTU
<i>overlay_bandwidth</i>	(Optional) Bandwidth
<i>overlay_vrf</i>	(Optional) VRF
<i>overlay_src_addr</i>	(Optional) Source address
<i>overlay_dst_addr</i>	(Optional) Destination address

Command Mode

- /exec

show interface brief

```

show interface <fid_brf> brief [ __readonly__ { TABLE_interface <interface> [ <desc> ] [ <svi_if_index>
] [ <svi_admin_state> ] [ <oper_state> ] [ <svi_rsn_desc> ] [ <svi_line_proto> ] [ <svi_hw> ] [ <svi_mac> ]
[ <svi_desc> ] [ <svi_ip_addr> ] [ <svi_ip_mask> ] [ <svi_mtu> ] [ <svi_bw> ] [ <svi_delay> ] [ <vlan_id>
] [ <type> ] ] [ <svi_tx_load> ] [ <svi_rx_load> ] ] [ <svi_carrier_delay_sec> ] [ <svi_carrier_delay_msec>
] [ <svi_arp_type> ] [ <svi_arp_timeout> ] ] [ <svi_time_last_cleared> ] ] [ { TABLE_secondary_vlan
<sec_vlan> <sec_vlan_type> } ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ]
[ <eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits>
] [ <eth_inrate1_summary_pkts> ] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts>
] [ <eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes>
] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [
<eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [
<eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes>
] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [
<eth_l3avg2_inbytes> ] [ <eth_l3avg2_inpkts> ] [ <eth_l3avg2_outbytes> ] [ <eth_l3avg2_outpkts> ] [
<eth_l3avg3_inbytes> ] [ <eth_l3avg3_inpkts> ] [ <eth_l3avg3_outbytes> ] [ <eth_l3avg3_outpkts> ] [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_nobuf> ] [ <eth_inbcast> ] [ <eth_inmcast> ] [ <eth_inucast> ] [
<eth_ingiants> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [ <eth_insw_switched> ] [ <eth_runts> ] [
<eth_storm_supp> ] [ <eth_throtles> ] [ <eth_inerr> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_frame> ] [
<eth_overrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_outbcast> ] [ <eth_outmcast> ] [ <eth_outucast>
] [ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ] [ <eth_in_ifdown_drops> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_underrun> ] [ <eth_outhw_switched> ] [
<eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_resets> ] [ <eth_babbles> ] [ <eth_latecoll> ]
[ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_outpause> ] [ <eth_buffail> ] [
<eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_single_coll> ] [ <eth_multi_coll>
] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [
<eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ] [ <eth_inb64> ] [ <eth_inb65_127>
] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [ <eth_inb1024_1518> ] [
<eth_inb1519_1548> ] [ <eth_inb1519_2500> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ] [
<eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [
<eth_outb1519_1548> ] [ <eth_outb1519_2500> ] [ <eth_outtrunk> ] [ <eth_bpdu_outlost> ] [
<eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost> ] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost>
] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [ <eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [
<eth_fcoe_in_octets> ] [ <eth_fcoe_out_pkts> ] [ <eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [
<eth_nfcoe_in_octets> ] [ <eth_nfcoe_out_pkts> ] [ <eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [
<eth_eee_arcv_lpi_msec> ] [ <eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [
<eth_phy_ber_count> ] [ <eth_phy_errblks_count> ] [ <eth_tx_frm_error> ] [ <eth_rx_toolong> ] [
<eth_rx_undersize> ] [ <eth_rx_fragment> ] [ <eth_rx_crcerr_not_stomped> ] [ <eth_rx_crcerr_stomped> ]
[ <eth_rx_inrangeerr> ] ] [ <svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out> ] [
<svi_routed_bytes_out> ] [ <svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [
<svi_mcast_bytes_in> ] [ <svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [
<svi_mcast_bytes_out> ] [ <svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [

```

```
<svi_ipv4_ucast_pkts_out> ][ <svi_ipv4_ucast_bytes_out> ][ <svi_ipv4_mcast_pkts_in> ][
<svi_ipv4_mcast_bytes_in> ][ <svi_ipv4_mcast_pkts_out> ][ <svi_ipv4_mcast_bytes_out> ][
<svi_ipv6_ucast_pkts_in> ][ <svi_ipv6_ucast_bytes_in> ][ <svi_ipv6_ucast_pkts_out> ][
<svi_ipv6_ucast_bytes_out> ][ <svi_ipv6_mcast_pkts_in> ][ <svi_ipv6_mcast_bytes_in> ][
<svi_ipv6_mcast_pkts_out> ][ <svi_ipv6_mcast_bytes_out> ][ <svi_average_input_bits> ][
<svi_average_input_packets> ][ <svi_average_output_bits> ][ <svi_average_output_packets> ][
<svi_rate_in_mins> ]][ [ <svi_reliability> ]][ <switchport> ] } }
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<u>__readonly__</u>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>desc</i>	(Optional) Interface description
<i>svi_if_index</i>	(Optional) Interface
<i>svi_admin_state</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed
<i>svi_line_proto</i>	(Optional)
<i>svi_hw</i>	(Optional) Hardware
<i>svi_mac</i>	(Optional) Address
<i>svi_desc</i>	(Optional) Interface Description
<i>svi_ip_addr</i>	(Optional) IP Address
<i>svi_ip_mask</i>	(Optional) IP address mask
<i>svi_mtu</i>	(Optional) MTU size in bytes
<i>svi_bw</i>	(Optional) Bandwidth in kilobits
<i>svi_delay</i>	(Optional) Throughput delay (tens of microseconds)
<i>vlan_id</i>	(Optional) Vlan
<i>type</i>	(Optional) type
<i>svi_tx_load</i>	(Optional) Tx Load

<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_carrier_delay_sec</i>	(Optional) carrier delay value in seconds
<i>svi_carrier_delay_msec</i>	(Optional) carrier delay value in milli-seconds
<i>svi_arp_type</i>	(Optional) ARP type
<i>svi_arp_timeout</i>	(Optional) ARP timeout value
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
TABLE_secondary_vlan	(Optional) Secondary vlan
<i>sec_vlan</i>	(Optional) Secondary vlan ID
<i>sec_vlan_type</i>	(Optional) Secondary vlan type
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary

<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts

<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors

<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output

<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_inb1519_2500</i>	(Optional) input pkts between 1519 and 2500 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes

<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outb1519_2500</i>	(Optional) output pkts between 1519 and 2500 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter
<i>eth_tx_frm_error</i>	(Optional) tx frame error
<i>eth_rx_toolong</i>	(Optional) rx toolong error

<i>eth_rx_undersize</i>	(Optional) rx undersize
<i>eth_rx_fragment</i>	(Optional) rx fragment
<i>eth_rx_crcerr_not_stomped</i>	(Optional) rx crcerr not stomped
<i>eth_rx_crcerr_stomped</i>	(Optional) rx crcerr stomped
<i>eth_rx_inrangeerr</i>	(Optional) rx inrange error
<i>svi_reliability</i>	(Optional) Reliability
<i>switchport</i>	(Optional) Switchport enabled

Command Mode

- /exec

show interface brief

```
show interface <ifpch_brf> brief [ __readonly__ TABLE_interface <interface> [ <vlan> ] <type> <portmode>
<state> <state_rsn_desc> <speed> <ratemode> [ <proto> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifpch_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vlan</i>	(Optional) Vlan
<i>type</i>	(Optional) Type
<i>portmode</i>	(Optional) Port mode
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>speed</i>	(Optional) Speed
<i>ratemode</i>	(Optional) Interface port speed
<i>proto</i>	(Optional) Port Channel Protocol

Command Mode

- /exec

show interface brief

```
show interface brief [ controller | cli ] [ __readonly__ { TABLE_interface [ <interface> ] [ <vlan> ] [ <type> ] [ <portmode> ] [ <state> ] [ <state_rsn> ] [ <state_rsn_desc> ] [ <desc> ] [ <vrf> ] [ <ipv6_addr> ] [ <ip_addr> ] [ <speed> ] [ { <tunnel-ipv4> | <tunnel-ipv6> } ] [ <encap-type> ] [ <mtu> ] [ <ratemode> ] [ <portchan> ] [ <proto> ] [ <interface_vfc> ] [ <vsan_brief> ] [ <admin_mode> ] [ <admin_trunk_mode> ] [ <status> ] [ <fcot_info> ] [ <bind_info> ] [ <bind_type> ] [ <bind_mac> ] [ <port_rate_mode> ] [ <oper_speed> ] [ <port_channel> ] [ <ip_addr1> ] [ { brief_san_pc [ <interface_san> ] [ <vsan_brief> ] [ <admin_trunk_mode> ] [ <status> ] [ <port_rate_mode> ] [ <oper_speed> ] [ <ip_addr> ] } ] [ { TABLE_secondary_vlan <sec_vlan> <sec_vlan_type> } ] [ <svi_admin_state> ] [ <svi_rsn_desc> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
brief	Show brief info of interface
controller	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
cli	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>desc</i>	(Optional) Interface description
<i>vrf</i>	(Optional) Vrf membership
<i>ip_addr</i>	(Optional) IP address
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>encap-type</i>	(Optional)
<i>mtu</i>	(Optional) MTU
<i>speed</i>	(Optional) Speed
<i>vlan</i>	(Optional) Vlan
<i>type</i>	(Optional) Type
<i>portmode</i>	(Optional) Port mode

<i>ratemode</i>	(Optional) Interface port speed
<i>portchan</i>	(Optional) Port Channel Membership
<i>proto</i>	(Optional) Port Channel Protocol
<i>interface_vfc</i>	(Optional) Interface index
<i>vsan_brief</i>	(Optional) vsan brief
<i>admin_mode</i>	(Optional) admin mode
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>status</i>	(Optional) status
<i>fcot_info</i>	(Optional) fcot info
<i>bind_info</i>	(Optional) bind interface
<i>bind_type</i>	(Optional) bind type
<i>bind_mac</i>	(Optional) bind mac address
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>port_channel</i>	(Optional) port channel number
<i>ip_addr1</i>	(Optional) IP address
<i>brief_san_pc</i>	(Optional) show interface brief for san-po
<i>interface_san</i>	(Optional) san_po interface
<i>vsan_brief</i>	(Optional) vsan brief
<i>admin_trunk_mode</i>	(Optional) admin trunk mode
<i>status</i>	(Optional) status
<i>port_rate_mode</i>	(Optional) rate mode
<i>oper_speed</i>	(Optional) speed
<i>ip_addr</i>	(Optional) IP address
<i>TABLE_secondary_vlan</i>	(Optional) Secondary vlan
<i>sec_vlan</i>	(Optional) Secondary vlan ID
<i>sec_vlan_type</i>	(Optional) Secondary vlan type
<i>svi_admin_state</i>	(Optional) svi admin state
<i>svi_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface brief

show interface <ifloop_brf> brief [__readonly__ TABLE_interface <interface> <state> [<desc>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>desc</i>	(Optional) Interface description

Command Mode

- /exec

show interface brief

```
show interface <iftunnel_brf> brief [ __readonly__ TABLE_interface <interface> <state> [ <admin-state> ]
[ { <tunnel-ipv4> | <tunnel-ipv6> } ] [ <bandwidth> ] [ <encap-type> ] [ <mtu> ] [ <keepalive-period> ] [
<keepalive-retries> ] [ { <src-ipv4> | <src-ipv6> } ] [ <src-intf> ] [ { <dest-ipv4> | <dest-ipv6> } ] [
<dest-hostname> ] [ <vrf_name> ] [ <tunnel_vrf_name> ] [ <wccp_header> ] [ <ttl_val> ] [
<tunnel_pmtud_age_time> ] [ <tunnel_pmtud_min_mtu> ] [ <tunnel_pmtud> ] [ <tunnel_pgm_mtu> ] [
<tunnel_clear_counter> ] [ <tunnel_tx_pkt_count> ] [ <tunnel_tx_byte_count> ] [ <tunnel_tx_rate> ] [
<tunnel_rx_pkt_count> ] [ <tunnel_rx_byte_count> ] [ <tunnel_rx_rate> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftunnel_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>admin-state</i>	(Optional)
<i>tunnel-ipv4</i>	(Optional) interface IPv4 address
<i>mtu</i>	(Optional) interface Maximum Transmission Unit
<i>bandwidth</i>	(Optional) interface Bandwidth in kilobits
<i>encap-type</i>	(Optional)
<i>keepalive-period</i>	(Optional) keealive period
<i>keepalive-retries</i>	(Optional) number of retries
<i>src-ipv4</i>	(Optional) tunnel source IPv4 address
<i>src-intf</i>	(Optional) tunnel source interface
<i>dest-ipv4</i>	(Optional) tunnel destination IPv4 address
<i>dest-hostname</i>	(Optional) tunnel destination hostname
<i>vrf_name</i>	(Optional) transport VRF name
<i>tunnel_vrf_name</i>	(Optional) tunnel VRF name
<i>wccp_header</i>	(Optional) wccp header

<i>ttl_val</i>	(Optional) tunnel time to live value
<i>tunnel_pmtud_age_time</i>	(Optional) tunnel path MTU discovery age time
<i>tunnel_pmtud_min_mtu</i>	(Optional) tunnel path MTU discovery min mtu
<i>tunnel_pmtud</i>	(Optional) tunnel path MTU discovered
<i>tunnel_pgm_mtu</i>	(Optional) tunnel actual programmed MTU
<i>tunnel_rx_pkt_count</i>	(Optional) total number of packets received
<i>tunnel_rx_byte_count</i>	(Optional) total number of bytes received
<i>tunnel_rx_rate</i>	(Optional) packets input rate per 5 minutes
<i>tunnel_tx_pkt_count</i>	(Optional) total number of packets transmitted
<i>tunnel_tx_byte_count</i>	(Optional) total number of bytes transmitted
<i>tunnel_tx_rate</i>	(Optional) packets transmitted per 5 minutes
<i>tunnel_clear_counter</i>	(Optional) Last clearing of show interface counters

Command Mode

- /exec

show interface brief

```
show interface <ifmgmt_brf> brief [ __readonly__ TABLE_interface <interface> [ <vrf> ] <state> [
<ipv6_addr> ] [ <ip_addr> ] <mtu> <speed> [ <duplex> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>vrf</i>	(Optional) Vrf membership
<i>state</i>	(Optional) Interface state
<i>ip_addr</i>	(Optional) IP address
<i>mtu</i>	(Optional) MTU
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex

Command Mode

- /exec

show interface brief

```
show interface <ifeth_brf> brief [ __readonly__ TABLE_interface <interface> [ <vlan> ] <type> <portmode>
<state> <state_rsn_desc> <speed> <ratemode> [ <portchan> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_brf</i>	Enter interface type and number in module/slot format
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vlan</i>	(Optional) Vlan
<i>type</i>	(Optional) Type
<i>portmode</i>	(Optional) Port mode
<i>state</i>	(Optional) Interface state
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>speed</i>	(Optional) Speed
<i>ratemode</i>	(Optional) Interface port speed
<i>portchan</i>	(Optional) Port Channel Membership

Command Mode

- /exec

show interface brief

```
show interface <ifrange> brief [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] [
<state_rsn_desc> ] [ <admin_state> ] [ <nve_addr> ] [ <nve_vcid> ] [ <nve_mtu> ] [ <nve_bandwidth> ] [
<nve_vrf> ] [ <nve_src_addr> ] [ <nve_dst_addr> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
brief	Show brief info of interface
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>admin_state</i>	(Optional) admin state
<i>nve_addr</i>	(Optional) Peer address
<i>nve_vcid</i>	(Optional) VCID
<i>nve_mtu</i>	(Optional) MTU
<i>nve_bandwidth</i>	(Optional) Bandwidth
<i>nve_vrf</i>	(Optional) VRF
<i>nve_src_addr</i>	(Optional) Source address
<i>nve_dst_addr</i>	(Optional) Destination address

Command Mode

- /exec

show interface cable-diagnostics-tdr

```
show interface <ifid_tdr> cable-diagnostics-tdr [ __readonly__ TABLE_interface <interface> <speed>
<distance1> <pair1_status> <distance2> <pair2_status> <distance3> <pair3_status> <distance4> <pair4_status>
]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_tdr</i>	Enter interface type and number in module/slot format
cable-diagnostics-tdr	Show interface tdr test information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>speed</i>	(Optional) Speed
<i>distance1</i>	(Optional) Distance to fault for pair 1
<i>distance2</i>	(Optional) Distance to fault for pair 2
<i>distance3</i>	(Optional) Distance to fault for pair 3
<i>distance4</i>	(Optional) Distance to fault for pair 4
<i>pair1_status</i>	(Optional) Pair1 status
<i>pair2_status</i>	(Optional) Pair2 status
<i>pair3_status</i>	(Optional) Pair3 status
<i>pair4_status</i>	(Optional) Pair4 status

Command Mode

- /exec

show interface capabilities

```
show interface <ifid_cap> capabilities [ __readonly__ { TABLE_interface_capabilities_if <interface> [
<min_speed> ][ <max_speed> ] [ <FC-PH_version_high> ][ <FC-PH_version_low> ] [ <recieve_data_max>
][ <recieve_data_min> ] [ <transmit_data_max> ] [ <transmit_data_min> ] [ <class_service> ] [ <class_2>
][ <class_3> ] [ <hold_time_max> ] [ <hold_time_min> ] [ <BB_state_change> ] [ <max_BB_state_change>
][ <rate_mode_change> ] [ <rate_mode_cap> ] [ <recieve_BB_credit> ] [ <FX_recieve_BB_credit> ] [
<ISL_recieve_BB_credit> ] [ <shared_performance_buf_mod_supp> ] [
<dedicated_performance_buf_mod_supp> ] [ <fx_mode_perf_buf> ] [ <isl_mode_perf_buf> ] [ <out_of_order>
][ <beacon_mode_config> ] [ <extended_B2B> ] [ <on_demand_port> } } ]
```

Syntax Description

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

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

Command Mode

- /exec

show interface capabilities

```
show interface <ifid_eth_cap> capabilities [ __readonly__ TABLE_interface <interface> <model> <type>
<speed> <duplex> <trunk_encap> [ <dce_capable> ] <channel> <bcast_supp> <flo_ctrl> <rate_mode>
<port_mode> [ <fast_start> ] <qos_scheduling> <cos_rewrite> <tos_rewrite> [ <inline_power> ] <span>
<udld> [ <mdix> ] [ <tdr> ] <lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [
<pvlan_trunk_mode> ] [ <port_group> ] [ <port_group_members> ] <eee_capable> <pfc_capable> [
<speed_group_capable> ] <buffer_boost_capable> [ <bkout_capable> ] [ <macsec_capable> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_eth_cap</i>	Enter interface type and number in module/slot format
capabilities	Show interface capabilities information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>model</i>	(Optional) Model
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex
<i>trunk_encap</i>	(Optional) Trunk encap. type
<i>dce_capable</i>	(Optional) DCE mode capable
<i>channel</i>	(Optional) Channel
<i>bcast_supp</i>	(Optional) Broadcast suppression
<i>flo_ctrl</i>	(Optional) Flowcontrol
<i>rate_mode</i>	(Optional) Rate mode
<i>port_mode</i>	(Optional) Port mode
<i>fast_start</i>	(Optional) Fast start
<i>qos_scheduling</i>	(Optional) QOS scheduling
<i>cos_rewrite</i>	(Optional) CoS rewrite
<i>tos_rewrite</i>	(Optional) ToS rewrite

<i>inline_power</i>	(Optional) Inline power
<i>span</i>	(Optional) SPAN
<i>udld</i>	(Optional) UDLD
<i>mdix</i>	(Optional) MDIX
<i>tdr</i>	(Optional) TDR
<i>lnk_debounce</i>	(Optional) Link debounce
<i>lnk_debounce_time</i>	(Optional) Link debounce time
<i>fex_fabric</i>	(Optional) FEX Fabric
<i>dot1q_tunnel</i>	(Optional) dot1q-tunnel
<i>pvlan_trunk_mode</i>	(Optional) Private-vlan trunk mode
<i>port_group</i>	(Optional) Port Group
<i>port_group_members</i>	(Optional) Port Group Members
<i>eee_capable</i>	(Optional) EEE (efficient-eth)
<i>pfc_capable</i>	(Optional) PFC Capable:
<i>bkout_capable</i>	(Optional) Breakout Capable:
<i>buffer_boost_capable</i>	(Optional) Buffer Boost Capable:
<i>speed_group_capable</i>	(Optional) Speed group capable
<i>macsec_capable</i>	(Optional) MACSEC capable

Command Mode

- /exec

show interface capabilities

```
show interface capabilities [ __readonly__ TABLE_interface <interface> <model> <type> <speed> <duplex>
<trunk_encap> [ <dce_capable> ] <channel> <bcast_supp> <flo_ctrl> <rate_mode> <port_mode> [ <fast_start>
] <qos_scheduling> <cos_rewrite> <tos_rewrite> [ <inline_power> ] <span> <udld> [ <mdix> ] [ <tdr> ]
<lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [ <pvlan_trunk_mode> ] [ <port_group>
] [ <port_group_members> ] <eee_capable> <pfc_capable> [ <speed_group_capable> ] <buffer_boost_capable>
[ <bkout_capable> ] [ <macsec_capable> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
capabilities	Show interface capabilities information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>model</i>	(Optional) Model
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>duplex</i>	(Optional) Duplex
<i>trunk_encap</i>	(Optional) Trunk encap. type
<i>dce_capable</i>	(Optional) DCE mode capable
<i>channel</i>	(Optional) Channel
<i>bcast_supp</i>	(Optional) Broadcast suppression
<i>flo_ctrl</i>	(Optional) Flowcontrol
<i>rate_mode</i>	(Optional) Rate mode
<i>port_mode</i>	(Optional) Port mode
<i>fast_start</i>	(Optional) Fast start
<i>qos_scheduling</i>	(Optional) QOS scheduling
<i>cos_rewrite</i>	(Optional) CoS rewrite
<i>tos_rewrite</i>	(Optional) ToS rewrite
<i>inline_power</i>	(Optional) Inline power

<i>span</i>	(Optional) SPAN
<i>udld</i>	(Optional) UDLD
<i>mdix</i>	(Optional) MDIX
<i>tdr</i>	(Optional) TDR
<i>lnk_debounce</i>	(Optional) Link debounce
<i>lnk_debounce_time</i>	(Optional) Link debounce time
<i>fex_fabric</i>	(Optional) FEX Fabric
<i>dot1q_tunnel</i>	(Optional) dot1q-tunnel
<i>pvlan_trunk_mode</i>	(Optional) Private-vlan trunk mode
<i>port_group</i>	(Optional) Port Group
<i>port_group_members</i>	(Optional) Port Group Members
<i>eee_capable</i>	(Optional) EEE (efficient-eth)
<i>pfc_capable</i>	(Optional) PFC Capable:
<i>bkout_capable</i>	(Optional) Breakout Capable:
<i>buffer_boost_capable</i>	(Optional) Buffer Boost Capable:
<i>speed_group_capable</i>	(Optional) Speed group capable
<i>macsec_capable</i>	(Optional) MACSEC capable

Command Mode

- /exec

show interface chassis-info

```
show interface chassis-info [ __readonly__ TABLE_chassis_info <chas_no> <chas_port> <slot_no> <port_no>
<module_side> <chas_vendor> <chas_model> <chas_ser> <mod_vendor> <mod_model> <mod_ser>
<mgmt_inst> <fab_id> <ver> <devtype> <chas_state> <chas_mac> <adapter_mode> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
chassis-info	Show all CHASSIS ports
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_chassis_info</i>	(Optional) Discovered chassis fabric ports
<i>chas_no</i>	(Optional) Configured chassis number
<i>chas_port</i>	(Optional) Interface name
<i>slot_no</i>	(Optional) Remote slot no
<i>port_no</i>	(Optional) Remote port no
<i>module_side</i>	(Optional) Remote module side
<i>chas_vendor</i>	(Optional) Chassis Vendor
<i>chas_model</i>	(Optional) Chassis Model
<i>chas_ser</i>	(Optional) Chassis serial Number
<i>mod_vendor</i>	(Optional) Module Vendor
<i>mod_model</i>	(Optional) Module Model
<i>mod_ser</i>	(Optional) Module serial Number
<i>mgmt_inst</i>	(Optional) Management instance
<i>fab_id</i>	(Optional) Fabric ID
<i>ver</i>	(Optional) Version
<i>devtype</i>	(Optional) Device Type
<i>chas_state</i>	(Optional) Chassis port state
<i>chas_mac</i>	(Optional) Chassis MAC
<i>adapter_mode</i>	(Optional) adapter mode

Command Mode

- /exec

show interface chassis-info detail

```
show interface chassis-info detail [ __readonly__ TABLE_chassis_info <chas_no> <chas_port> <slot_no>
<port_no> <module_side> <chas_vendor> <chas_model> <chas_ser> <mod_vendor> <mod_model>
<mod_ser> <mgmt_inst> <fab_id> <ver> <devtype> <chas_state> <chas_mac> <adapter_mode> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
chassis-info	Show all CHASSIS ports
detail	Show detailed Chassis Info
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_chassis_info</i>	(Optional) Discovered chassis fabric ports
<i>chas_no</i>	(Optional) Configured chassis number
<i>chas_port</i>	(Optional) Interface name
<i>slot_no</i>	(Optional) Remote slot no
<i>port_no</i>	(Optional) Remote port no
<i>module_side</i>	(Optional) Remote module side
<i>chas_vendor</i>	(Optional) Chassis Vendor
<i>chas_model</i>	(Optional) Chassis Model
<i>chas_ser</i>	(Optional) Chassis serial Number
<i>mod_vendor</i>	(Optional) Module Vendor
<i>mod_model</i>	(Optional) Module Model
<i>mod_ser</i>	(Optional) Module serial Number
<i>mgmt_inst</i>	(Optional) Management instance
<i>fab_id</i>	(Optional) Fabric ID
<i>ver</i>	(Optional) Version
<i>devtype</i>	(Optional) Device Type
<i>chas_state</i>	(Optional) Chassis port state
<i>chas_mac</i>	(Optional) Chassis MAC
<i>adapter_mode</i>	(Optional) adapter mode

Command Mode

- /exec

show interface counters

```
show interface <ifeth_ctr_po> counters [ snmp ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_ipv4bytes> ] [
<eth_l3in_ipv4pkts> ] [ <eth_l3in_ipv4ucast_pkts> ] [ <eth_l3in_ipv4mcast_pkts> ] [
<eth_l3in_ipv4bcast_pkts> ] [ <eth_l3in_ipv6bytes> ] [ <eth_l3in_ipv6pkts> ] [ <eth_l3in_ipv6ucast_pkts>
] [ <eth_l3in_ipv6mcast_pkts> ] [ <eth_l3in_ipv6bcast_pkts> ] } { TABLE_tx_counters <interface_tx> [
<eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes> ] [
<eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_ipv4bytes> ] [
<eth_l3out_ipv4pkts> ] [ <eth_l3out_ipv4ucast_pkts> ] [ <eth_l3out_ipv4mcast_pkts> ] [
<eth_l3out_ipv4bcast_pkts> ] [ <eth_l3out_ipv6bytes> ] [ <eth_l3out_ipv6pkts> ] [ <eth_l3out_ipv6ucast_pkts>
] [ <eth_l3out_ipv6mcast_pkts> ] [ <eth_l3out_ipv6bcast_pkts> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_po</i>	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	(Optional) Show SNMP MIB values
<u>__readonly__</u>	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
<i>interface_rx</i>	(Optional) Interface index rx
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts input
<i>eth_inmcast</i>	(Optional) Multicasts input
<i>eth_inbcast</i>	(Optional) Broadcasts input
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3in_ipv4bytes</i>	(Optional) L3 Rx IPv4 bytes
<i>eth_l3in_ipv4pkts</i>	(Optional) L3 Rx IPv4 pkts
<i>eth_l3in_ipv4ucast_pkts</i>	(Optional) L3 Rx IPv4 Ucast pkts

<i>eth_l3in_ipv4mcast_pkts</i>	(Optional) L3 Rx IPv4 Mcast pkts
<i>eth_l3in_ipv4bcast_pkts</i>	(Optional) L3 Rx IPv4 Bcast pkts
<i>eth_l3in_ipv6bytes</i>	(Optional) L3 Rx IPv6 bytes
<i>eth_l3in_ipv6pkts</i>	(Optional) L3 Rx IPv6 pkts
<i>eth_l3in_ipv6ucast_pkts</i>	(Optional) L3 Rx IPv6 Ucast pkts
<i>eth_l3in_ipv6mcast_pkts</i>	(Optional) L3 Rx IPv6 Mcast pkts
<i>eth_l3in_ipv6bcast_pkts</i>	(Optional) L3 Rx IPv6 Bcast pkts
TABLE_tx_counters	(Optional) show Tx counters
<i>interface_tx</i>	(Optional) Interface index tx
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts output
<i>eth_outmcast</i>	(Optional) Multicasts output
<i>eth_outbcast</i>	(Optional) Broadcasts output
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts
<i>eth_l3out_ipv4bytes</i>	(Optional) L3 Tx IPv4 bytes
<i>eth_l3out_ipv4pkts</i>	(Optional) L3 Tx IPv4 pkts
<i>eth_l3out_ipv4ucast_pkts</i>	(Optional) L3 Tx IPv4 Ucast pkts
<i>eth_l3out_ipv4mcast_pkts</i>	(Optional) L3 Tx IPv4 Mcast pkts
<i>eth_l3out_ipv4bcast_pkts</i>	(Optional) L3 Tx IPv4 Bcast pkts
<i>eth_l3out_ipv6bytes</i>	(Optional) L3 Tx IPv6 bytes
<i>eth_l3out_ipv6pkts</i>	(Optional) L3 Tx IPv6 pkts
<i>eth_l3out_ipv6ucast_pkts</i>	(Optional) L3 Tx IPv6 Ucast pkts
<i>eth_l3out_ipv6mcast_pkts</i>	(Optional) L3 Tx IPv6 Mcast pkts
<i>eth_l3out_ipv6bcast_pkts</i>	(Optional) L3 Tx IPv6 Bcast pkts

Command Mode

- /exec

show interface counters

```
show interface <ifid_ctr> counters [ brief ] [ __readonly__ ] [ { TABLE_counters <sfp> { TABLE_input_rate
<bit_per_sec> <bytes_per_sec> <frames_per_sec> } { TABLE_output_rate <bit_per_sec> <bytes_per_sec>
<frames_per_sec> } { TABLE_input <frames> <bytes> [ <class_2_frames> ] [ <class_2_bytes> ] [
<class_3_frames> ] [ <class_3_bytes> ] [ <class_f_frames> ] [ <class_f_bytes> ] [ <class_2_3_frames> ]
<discards> <errors> <crc_fcs> <unknown_class> <too_long> <too_short> } { TABLE_output <frames>
<bytes> [ <class_2_frames> ] [ <class_2_bytes> ] [ <class_3_frames> ] [ <class_3_bytes> ] [ <class_f_frames>
] [ <class_f_bytes> ] [ <class_2_3_frames> ] [ <discards> ] [ <errors> ] [ <crc_fcs> ] } [ <timeout_discards>
] [ <credit_loss> ] [ <input_ols> ] [ <input_lrr> ] [ <input_nos> ] [ <input_loop_inits> ] [ <output_ols> ] [
<output_lrr> ] [ <output_nos> ] [ <output_loop_inits> ] [ <link_faliures> ] [ <sync_loss> ] [ <signal_loss> ]
[ <b2b_transmit> ] [ <b2b_receive> ] [ <txwait> ] [ <tx_credit_unavbl> ] [ <b2b_receive_remain> ] [
<b2b_transmit_remain> ] [ <low_priority_b2b_remain> ] [ <off_seq_err_rcvd> ] [ <broadcast_frames> ] [
<errors> ] [ <queue_drops> ] [ <if_down_drops> ] [ <red_drops> ] [ <bad_ether_type_drops> ] [
<bad_protocol_drops> ] [ <arp_drops> ] [ <reass_frames> ] [ <timestamp_error> ] [ <rx_b2b_perf_buff> ]
[ <rx_b2b_credit> ] [ <tx_b2b_credit> ] [ <tx_b2b_low_pri_cre> ] [ <time_last_cleared> } } ] [ {
TABLE_counters_brief <sfp> <fc_input_rate> <fc_frames_in> <fc_output_rate> <fc_frames_out> } ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
brief	(Optional) Show interface counters in brief
<u>__readonly__</u>	(Optional) Readonly
TABLE_counters	(Optional) Table counters
<i>sfp</i>	(Optional) SFP
TABLE_input_rate	(Optional) Input rate
<i>bit_per_sec</i>	(Optional) Input rate bits per second
<i>bytes_per_sec</i>	(Optional) Input rate bytes per second
<i>frames_per_sec</i>	(Optional) Input rate frames per second
TABLE_output_rate	(Optional) Output rate
<i>bit_per_sec</i>	(Optional) Output rate bits per second
<i>bytes_per_sec</i>	(Optional) Output rate bytes per second
<i>frames_per_sec</i>	(Optional) Output rate frames per second
TABLE_input	(Optional) Input values

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

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

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

Command Mode

- /exec

show interface counters

```
show interface <ifid_ctr> counters [ snmp ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] } { TABLE_tx_counters
<interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast>
] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	(Optional) Show SNMP MIB values
<u>__readonly__</u>	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts

Command Mode

- /exec

show interface counters

```
show interface counters [ module <module> ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <fc_inframes> ] [ <eth_inbytes> ] [ <fc_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [
<eth_inbcast> ] [ <eth_l3in_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts>
] [ <eth_l3in_ipv4bytes> ] [ <eth_l3in_ipv4pkts> ] [ <eth_l3in_ipv4ucast_pkts> ] [ <eth_l3in_ipv4mcast_pkts>
] [ <eth_l3in_ipv4bcast_pkts> ] [ <eth_l3in_ipv6bytes> ] [ <eth_l3in_ipv6pkts> ] [ <eth_l3in_ipv6ucast_pkts>
] [ <eth_l3in_ipv6mcast_pkts> ] [ <eth_l3in_ipv6bcast_pkts> ] } { TABLE_tx_counters <interface_tx> [
<eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [
<eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] [
<eth_l3out_ipv4bytes> ] [ <eth_l3out_ipv4pkts> ] [ <eth_l3out_ipv4ucast_pkts> ] [
<eth_l3out_ipv4mcast_pkts> ] [ <eth_l3out_ipv4bcast_pkts> ] [ <eth_l3out_ipv6bytes> ] [
<eth_l3out_ipv6pkts> ] [ <eth_l3out_ipv6ucast_pkts> ] [ <eth_l3out_ipv6mcast_pkts> ] [
<eth_l3out_ipv6bcast_pkts> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>fc_inframes</i>	(Optional) Frames input fc
<i>eth_inbytes</i>	(Optional) Bytes input
<i>fc_inbytes</i>	(Optional) Bytes input fc
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output

<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3in_ipv4bytes</i>	(Optional) L3 Rx IPv4 bytes
<i>eth_l3in_ipv4pkts</i>	(Optional) L3 Rx IPv4 pkts
<i>eth_l3in_ipv4ucast_pkts</i>	(Optional) L3 Rx IPv4 Ucast pkts
<i>eth_l3in_ipv4mcast_pkts</i>	(Optional) L3 Rx IPv4 Mcast pkts
<i>eth_l3in_ipv4bcast_pkts</i>	(Optional) L3 Rx IPv4 Bcast pkts
<i>eth_l3in_ipv6bytes</i>	(Optional) L3 Rx IPv6 bytes
<i>eth_l3in_ipv6pkts</i>	(Optional) L3 Rx IPv6 pkts
<i>eth_l3in_ipv6ucast_pkts</i>	(Optional) L3 Rx IPv6 Ucast pkts
<i>eth_l3in_ipv6mcast_pkts</i>	(Optional) L3 Rx IPv6 Mcast pkts
<i>eth_l3in_ipv6bcast_pkts</i>	(Optional) L3 Rx IPv6 Bcast pkts
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts
<i>eth_l3out_ipv4bytes</i>	(Optional) L3 Tx IPv4 bytes
<i>eth_l3out_ipv4pkts</i>	(Optional) L3 Tx IPv4 pkts
<i>eth_l3out_ipv4ucast_pkts</i>	(Optional) L3 Tx IPv4 Ucast pkts
<i>eth_l3out_ipv4mcast_pkts</i>	(Optional) L3 Tx IPv4 Mcast pkts
<i>eth_l3out_ipv4bcast_pkts</i>	(Optional) L3 Tx IPv4 Bcast pkts
<i>eth_l3out_ipv6bytes</i>	(Optional) L3 Tx IPv6 bytes
<i>eth_l3out_ipv6pkts</i>	(Optional) L3 Tx IPv6 pkts
<i>eth_l3out_ipv6ucast_pkts</i>	(Optional) L3 Tx IPv6 Ucast pkts

<i>eth_l3out_ipv6mcast_pkts</i>	(Optional) L3 Tx IPv6 Mcast pkts
<i>eth_l3out_ipv6bcast_pkts</i>	(Optional) L3 Tx IPv6 Bcast pkts

Command Mode

- /exec

show interface counters

```
show interface counters [ non-zero ] [ __readonly__ { TABLE_rx_counters <interface_rx> [ <eth_inpkts> ]
[ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_ipv4bytes> ] [
<eth_l3in_ipv4pkts> ] [ <eth_l3in_ipv4ucast_pkts> ] [ <eth_l3in_ipv4mcast_pkts> ] [
<eth_l3in_ipv4bcast_pkts> ] [ <eth_l3in_ipv6bytes> ] [ <eth_l3in_ipv6pkts> ] [ <eth_l3in_ipv6ucast_pkts> ]
] [ <eth_l3in_ipv6mcast_pkts> ] [ <eth_l3in_ipv6bcast_pkts> ] } { TABLE_tx_counters <interface_tx> [
<eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [
<eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] [
<eth_l3out_ipv4bytes> ] [ <eth_l3out_ipv4pkts> ] [ <eth_l3out_ipv4ucast_pkts> ] [
<eth_l3out_ipv4mcast_pkts> ] [ <eth_l3out_ipv4bcast_pkts> ] [ <eth_l3out_ipv6bytes> ] [
<eth_l3out_ipv6pkts> ] [ <eth_l3out_ipv6ucast_pkts> ] [ <eth_l3out_ipv6mcast_pkts> ] [
<eth_l3out_ipv6bcast_pkts> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
non-zero	(Optional) To display only the non-zero counter values
__readonly__	(Optional) Read Only
<i>interface_rx</i>	(Optional) Interface index rx
<i>interface_tx</i>	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts

<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3in_ipv4bytes</i>	(Optional) L3 Rx IPv4 bytes
<i>eth_l3in_ipv4pkts</i>	(Optional) L3 Rx IPv4 pkts
<i>eth_l3in_ipv4ucast_pkts</i>	(Optional) L3 Rx IPv4 Ucast pkts
<i>eth_l3in_ipv4mcast_pkts</i>	(Optional) L3 Rx IPv4 Mcast pkts
<i>eth_l3in_ipv4bcast_pkts</i>	(Optional) L3 Rx IPv4 Bcast pkts
<i>eth_l3in_ipv6bytes</i>	(Optional) L3 Rx IPv6 bytes
<i>eth_l3in_ipv6pkts</i>	(Optional) L3 Rx IPv6 pkts
<i>eth_l3in_ipv6ucast_pkts</i>	(Optional) L3 Rx IPv6 Ucast pkts
<i>eth_l3in_ipv6mcast_pkts</i>	(Optional) L3 Rx IPv6 Mcast pkts
<i>eth_l3in_ipv6bcast_pkts</i>	(Optional) L3 Rx IPv6 Bcast pkts
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts
<i>eth_l3out_ipv4bytes</i>	(Optional) L3 Tx IPv4 bytes
<i>eth_l3out_ipv4pkts</i>	(Optional) L3 Tx IPv4 pkts
<i>eth_l3out_ipv4ucast_pkts</i>	(Optional) L3 Tx IPv4 Ucast pkts
<i>eth_l3out_ipv4mcast_pkts</i>	(Optional) L3 Tx IPv4 Mcast pkts
<i>eth_l3out_ipv4bcast_pkts</i>	(Optional) L3 Tx IPv4 Bcast pkts
<i>eth_l3out_ipv6bytes</i>	(Optional) L3 Tx IPv6 bytes
<i>eth_l3out_ipv6pkts</i>	(Optional) L3 Tx IPv6 pkts
<i>eth_l3out_ipv6ucast_pkts</i>	(Optional) L3 Tx IPv6 Ucast pkts
<i>eth_l3out_ipv6mcast_pkts</i>	(Optional) L3 Tx IPv6 Mcast pkts
<i>eth_l3out_ipv6bcast_pkts</i>	(Optional) L3 Tx IPv6 Bcast pkts

Command Mode

- /exec

show interface counters

```
show interface <ifeth_ctr> counters [ __readonly__ { TABLE_rx_counters <interface_rx> [ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_ipv4bytes> ] [ <eth_l3in_ipv4pkts> ] [ <eth_l3in_ipv4ucast_pkts> ] [ <eth_l3in_ipv4mcast_pkts> ] [ <eth_l3in_ipv4bcast_pkts> ] [ <eth_l3in_ipv6bytes> ] [ <eth_l3in_ipv6pkts> ] [ <eth_l3in_ipv6ucast_pkts> ] [ <eth_l3in_ipv6mcast_pkts> ] [ <eth_l3in_ipv6bcast_pkts> ] } { TABLE_tx_counters <interface_tx> [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_ipv4bytes> ] [ <eth_l3out_ipv4pkts> ] [ <eth_l3out_ipv4ucast_pkts> ] [ <eth_l3out_ipv4mcast_pkts> ] [ <eth_l3out_ipv4bcast_pkts> ] [ <eth_l3out_ipv6bytes> ] [ <eth_l3out_ipv6pkts> ] [ <eth_l3out_ipv6ucast_pkts> ] [ <eth_l3out_ipv6mcast_pkts> ] [ <eth_l3out_ipv6bcast_pkts> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
<i>__readonly__</i>	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
<i>interface_rx</i>	(Optional) Interface index rx
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts input
<i>eth_inmcast</i>	(Optional) Multicasts input
<i>eth_inbcast</i>	(Optional) Broadcasts input
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3in_ipv4bytes</i>	(Optional) L3 Rx IPv4 bytes
<i>eth_l3in_ipv4pkts</i>	(Optional) L3 Rx IPv4 pkts
<i>eth_l3in_ipv4ucast_pkts</i>	(Optional) L3 Rx IPv4 Ucast pkts
<i>eth_l3in_ipv4mcast_pkts</i>	(Optional) L3 Rx IPv4 Mcast pkts

<i>eth_l3in_ipv4bcast_pkts</i>	(Optional) L3 Rx IPv4 Bcast pkts
<i>eth_l3in_ipv6bytes</i>	(Optional) L3 Rx IPv6 bytes
<i>eth_l3in_ipv6pkts</i>	(Optional) L3 Rx IPv6 pkts
<i>eth_l3in_ipv6ucast_pkts</i>	(Optional) L3 Rx IPv6 Ucast pkts
<i>eth_l3in_ipv6mcast_pkts</i>	(Optional) L3 Rx IPv6 Mcast pkts
<i>eth_l3in_ipv6bcast_pkts</i>	(Optional) L3 Rx IPv6 Bcast pkts
TABLE_tx_counters	(Optional) show Tx counters
<i>interface_tx</i>	(Optional) Interface index tx
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts output
<i>eth_outmcast</i>	(Optional) Multicasts output
<i>eth_outbcast</i>	(Optional) Broadcasts output
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts
<i>eth_l3out_ipv4bytes</i>	(Optional) L3 Tx IPv4 bytes
<i>eth_l3out_ipv4pkts</i>	(Optional) L3 Tx IPv4 pkts
<i>eth_l3out_ipv4ucast_pkts</i>	(Optional) L3 Tx IPv4 Ucast pkts
<i>eth_l3out_ipv4mcast_pkts</i>	(Optional) L3 Tx IPv4 Mcast pkts
<i>eth_l3out_ipv4bcast_pkts</i>	(Optional) L3 Tx IPv4 Bcast pkts
<i>eth_l3out_ipv6bytes</i>	(Optional) L3 Tx IPv6 bytes
<i>eth_l3out_ipv6pkts</i>	(Optional) L3 Tx IPv6 pkts
<i>eth_l3out_ipv6ucast_pkts</i>	(Optional) L3 Tx IPv6 Ucast pkts
<i>eth_l3out_ipv6mcast_pkts</i>	(Optional) L3 Tx IPv6 Mcast pkts
<i>eth_l3out_ipv6bcast_pkts</i>	(Optional) L3 Tx IPv6 Bcast pkts

Command Mode

- /exec

show interface counters

```
show interface <ifrange> counters [ __readonly__ TABLE_interface <interface> [ <overlay_load_interval>
] [ <overlay_rx_ucastpkts> ] [ <overlay_rx_ucastbytes> ] [ <overlay_rx_mcastpkts> ] [
<overlay_rx_mcastbytes> ] [ <overlay_rx_pkts> ] [ <overlay_rx_bytes> ] [ <overlay_rx_bcastpkts> ] [
<overlay_rx_bcastbytes> ] [ <overlay_rx_bitrate> ] [ <overlay_rx_pktrate> ] [ <overlay_tx_ucastpkts> ] [
<overlay_tx_ucastbytes> ] [ <overlay_tx_mcastpkts> ] [ <overlay_tx_mcastbytes> ] [ <overlay_tx_bcastpkts>
] [ <overlay_tx_bcastbytes> ] [ <overlay_tx_pkts> ] [ <overlay_tx_bytes> ] [ <overlay_tx_bitrate> ] [
<overlay_tx_pktrate> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
counters	Show interface counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>overlay_load_interval</i>	(Optional) Load interval
<i>overlay_rx_ucastpkts</i>	(Optional) Received ucast pkts
<i>overlay_rx_ucastbytes</i>	(Optional) Received ucast bytes
<i>overlay_rx_mcastpkts</i>	(Optional) Received mcast pkts
<i>overlay_rx_mcastbytes</i>	(Optional) Received mcast bytes
<i>overlay_rx_bcastpkts</i>	(Optional) Received bcast pkts
<i>overlay_rx_bcastbytes</i>	(Optional) Received bcast bytes
<i>overlay_rx_pkts</i>	(Optional) Total received pkts
<i>overlay_rx_bytes</i>	(Optional) Total received bytes
<i>overlay_rx_bitrate</i>	(Optional) Receive bit rate
<i>overlay_rx_pktrate</i>	(Optional) Receive pkt rate
<i>overlay_tx_ucastpkts</i>	(Optional) Trasnmitted ucast pkts
<i>overlay_tx_ucastbytes</i>	(Optional) Trasnmitted ucast bytes
<i>overlay_tx_mcastpkts</i>	(Optional) Trasnmitted mcast pkts
<i>overlay_tx_mcastbytes</i>	(Optional) Trasnmitted mcast bytes

<i>overlay_tx_bcastpkts</i>	(Optional) Trasnmitted beast pkts
<i>overlay_tx_bcastbytes</i>	(Optional) Trasnmitted beast bytes
<i>overlay_tx_pkts</i>	(Optional) Total transmitted pkts
<i>overlay_tx_bytes</i>	(Optional) Total transmitted bytes
<i>overlay_tx_bitrate</i>	(Optional) Transmit bit rate
<i>overlay_tx_pktrate</i>	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface counters

```
show interface <ifrange> counters [ __readonly__ { TABLE_nve_counters <interface> [ <ucast_inbytes> ]
[ <ucast_inpkts> ] [ <ucast_outbytes> ] [ <ucast_outpkts> ] [ <mcast_inbytes> ] [ <mcast_inpkts> ] [
<mcast_outbytes> ] [ <mcast_outpkts> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number
counters	Show interface counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_nve_counters	(Optional) show interface
<i>ucast_inbytes</i>	(Optional) ucast bytes input
<i>ucast_inpkts</i>	(Optional) ucast packets input
<i>ucast_outbytes</i>	(Optional) ucast bytes output
<i>ucast_outpkts</i>	(Optional) ucast packets output
<i>mcast_inbytes</i>	(Optional) mcast bytes input
<i>mcast_inpkts</i>	(Optional) mcast packets input
<i>mcast_outbytes</i>	(Optional) mcast bytes output
<i>mcast_outpkts</i>	(Optional) mcast packets output

Command Mode

- /exec

show interface counters brief

```
show interface counters brief [ <counter_val> ] [ __readonly__ TABLE_interface <interface> [ <eth_inrate1> ] [ <eth_inframes1> ] [ <eth_outrate1> ] [ <eth_outframes1> ] [ <eth_load_intv1> ] [ <eth_inrate2> ] [ <eth_inframes2> ] [ <eth_outrate2> ] [ <eth_outframes2> ] [ <eth_load_intv2> ] [ <eth_inrate3> ] [ <eth_inframes3> ] [ <eth_outrate3> ] [ <eth_outframes3> ] [ <eth_load_intv3> ] [ <fc_input_rate> ] [ <fc_frames_in> ] [ <fc_output_rate> ] [ <fc_frames_out> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
brief	Show interface counters in brief
<i>counter_val</i>	(Optional) Specify a single load interval id to show the rates
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_inrate1</i>	(Optional) interval 1 input rate in mbps
<i>eth_inframes1</i>	(Optional) interval 1 input rate in frames (pkts)
<i>eth_outrate1</i>	(Optional) interval 1 output rate in mbps
<i>eth_outframes1</i>	(Optional) interval 1 output rate in output frames (pkts)
<i>eth_load_intv1</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate2</i>	(Optional) interval 2 input rate in mbps
<i>eth_inframes2</i>	(Optional) interval 2 input rate in frames (pkts)
<i>eth_outrate2</i>	(Optional) interval 2 output rate in mbps
<i>eth_outframes2</i>	(Optional) interval 2 output rate in output frames (pkts)
<i>eth_load_intv2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate3</i>	(Optional) interval 3 input rate in mbps
<i>eth_inframes3</i>	(Optional) interval 3 input rate in frames (pkts)
<i>eth_outrate3</i>	(Optional) interval 3 output rate in mbps
<i>eth_outframes3</i>	(Optional) interval 3 output rate in output frames (pkts)
<i>eth_load_intv3</i>	(Optional) interval 3 timer value in sec

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

Command Mode

- /exec

show interface counters brief

```
show interface <ifeth_ctr_brf> counters brief [ <counter_val> ] [ __readonly__ TABLE_interface <interface>
<eth_inrate1> <eth_inframes1> <eth_outrate1> <eth_outframes1> <eth_load_intv1> <eth_inrate2>
<eth_inframes2> <eth_outrate2> <eth_outframes2> <eth_load_intv2> [ <eth_inrate3> <eth_inframes3>
<eth_outrate3> <eth_outframes3> <eth_load_intv3> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_brf</i>	Enter interface type and number in module/slot format
counters	Show interface counters
brief	Show interface counters in brief
<i>counter_val</i>	(Optional) Specify a single load interval id to show the rates
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>eth_inrate1</i>	(Optional) interval 1 input rate in mbps
<i>eth_inframes1</i>	(Optional) interval 1 input rate in frames (pkts)
<i>eth_outrate1</i>	(Optional) interval 1 output rate in mbps
<i>eth_outframes1</i>	(Optional) interval 1 output rate in output frames (pkts)
<i>eth_load_intv1</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate2</i>	(Optional) interval 2 input rate in mbps
<i>eth_inframes2</i>	(Optional) interval 2 input rate in frames (pkts)
<i>eth_outrate2</i>	(Optional) interval 2 output rate in mbps
<i>eth_outframes2</i>	(Optional) interval 2 output rate in output frames (pkts)
<i>eth_load_intv2</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate3</i>	(Optional) interval 3 input rate in mbps
<i>eth_inframes3</i>	(Optional) interval 3 input rate in frames (pkts)
<i>eth_outrate3</i>	(Optional) interval 3 output rate in mbps
<i>eth_outframes3</i>	(Optional) interval 3 output rate in output frames (pkts)

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

Command Mode

- /exec

show interface counters detailed

```
show interface <ifloop_ctr_dtl> counters detailed [ __readonly__ TABLE_interface <interface> [
<loop_in_pkts> ] [ <loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ]
[ <loop_in_frame> ] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [
<loop_out_underruns> ] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [
<loop_out_carriers> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop_ctr_dtl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors

Command Mode

- /exec

show interface counters detailed

```

show interface counters detailed [ snmp ] [ __readonly__ TABLE_interface <interface> [ <vdc_lvl_in_pkts>
] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [ <vdc_lvl_in_bcast> ] [
<vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_in_avg_pkts> ] [ <vdc_lvl_in_avg_bytes> ] [
<vdc_lvl_out_pkts> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_ucast> ] [ <vdc_lvl_out_mcast> ] [
<vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] [ <vdc_lvl_out_avg_pkts> ] [
<vdc_lvl_out_avg_bytes> ] [ <mgmt_in_pkts> ] [ <mgmt_in_bytes> ] [ <mgmt_in_mcast> ] [
<mgmt_in_compressed> ] [ <mgmt_in_errors> ] [ <mgmt_in_frame> ] [ <mgmt_in_overrun> ] [
<mgmt_in_fifo> ] [ <mgmt_out_pkts> ] [ <mgmt_out_bytes> ] [ <mgmt_out_underruns> ] [
<mgmt_out_errors> ] [ <mgmt_out_collisions> ] [ <mgmt_out_fifo> ] [ <mgmt_out_carrier> ] [
<mgmt_align_err> ] [ <mgmt_fcs_err> ] [ <mgmt_xmit_err> ] [ <mgmt_rcv_err> ] [ <mgmt_undersize> ] [
<mgmt_outdisc> ] [ <mgmt_single_coll> ] [ <mgmt_multi_coll> ] [ <mgmt_late_coll> ] [ <mgmt_excess_coll>
] [ <mgmt_carri_sen> ] [ <mgmt_runs> ] [ <mgmt_giants> ] [ <mgmt_sqetest_err> ] [ <mgmt_deferred_tx>
] [ <mgmt_inmactx_err> ] [ <mgmt_inmacrx_err> ] [ <mgmt_symbol_err> ] [ <loop_in_pkts> ] [
<loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame>
] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns>
] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] [
<eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [ <eth_load_interval1_tx> ] [
<eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits> ] [ <eth_inrate1_summary_pkts>
] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [ <eth_load_interval2_rx> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [ <eth_outrate2_bits> ] [
<eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ] [
<eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_inpkts> ] [ <eth_inucast> ] [
<eth_inmcast> ] [ <eth_inbcast> ] [ <eth_ingiants> ] [ <eth_inbytes> ] [ <eth_storm_supp> ] [ <eth_inb64>
] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [
<eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_inb1519_2500> ] [ <eth_intrunk> ] [ <eth_outpkts>
] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outgiants> ] [ <eth_outbytes> ] [
<eth_outb64> ] [ <eth_outb65_127> ] [ <eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023>
] [ <eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [ <eth_outb1519_2500> ] [ <eth_outtrunk> ] [
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] [ <eth_bad_eth> ] [ <eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_coll> ] [ <eth_latecoll> ] [
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] [ <eth_outerr> ] [ <eth_deferred> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_single_coll> ] [
<eth_multi_coll> ] [ <eth_excess_coll> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [
<eth_symbol> ] [ <eth_out_drops> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [
<eth_cos2_outlost> ] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost>
] [ <eth_cos7_outlost> ] [ <eth_inpause> ] [ <eth_outpause> ] [ <eth_resets> ] [ <eth_sqetest> ] [
<eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [
<eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [
<eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ]
] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [
<eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [
<eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [
<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [
<eth_insw_switched> ] [ <eth_throtles> ] [ <eth_frame> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched>
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_fcoe_in_pkts>

```

```

][ <eth_fcoe_in_octets> ][ <eth_fcoe_out_pkts> ][ <eth_fcoe_out_octets> ][ <eth_nfcoe_in_pkts> ][
<eth_nfcoe_in_octets> ][ <eth_nfcoe_out_pkts> ][ <eth_nfcoe_out_octets> ][ <svi_routed_pkts_in> ][
<svi_routed_bytes_in> ][ <svi_routed_pkts_out> ][ <svi_routed_bytes_out> ][ <svi_ucast_pkts_in> ][
<svi_ucast_bytes_in> ][ <svi_mcast_pkts_in> ][ <svi_mcast_bytes_in> ][ <svi_ucast_pkts_out> ][
<svi_ucast_bytes_out> ][ <svi_mcast_pkts_out> ][ <svi_mcast_bytes_out> ][ <svi_ipv4_ucast_pkts_in> ][
<svi_ipv4_ucast_bytes_in> ][ <svi_ipv4_ucast_pkts_out> ][ <svi_ipv4_ucast_bytes_out> ][
<svi_ipv4_mcast_pkts_in> ][ <svi_ipv4_mcast_bytes_in> ][ <svi_ipv4_mcast_pkts_out> ][
<svi_ipv4_mcast_bytes_out> ][ <svi_ipv6_ucast_pkts_in> ][ <svi_ipv6_ucast_bytes_in> ][
<svi_ipv6_ucast_pkts_out> ][ <svi_ipv6_ucast_bytes_out> ][ <svi_ipv6_mcast_pkts_in> ][
<svi_ipv6_mcast_bytes_in> ][ <svi_ipv6_mcast_pkts_out> ][ <svi_ipv6_mcast_bytes_out> ][
<svi_average_input_bits> ][ <svi_average_input_packets> ][ <svi_average_output_bits> ][
<svi_average_output_packets> ][ <svi_rate_in_mins> ][ <svi_time_last_cleared> ][ <svi_tx_load> ][
<svi_rx_load> ][ <svi_reliability> ][ <input_rate_bit_per_sec> ][ <input_rate_bytes_per_sec> ][
<input_rate_frames_per_sec> ][ <output_rate_bit_per_sec> ][ <output_rate_bytes_per_sec> ][
<output_rate_frames_per_sec> ][ <in_frames> ][ <in_bytes> ][ <class_2_in_frames> ][ <class_2_in_bytes>
][ <class_3_in_frames> ][ <class_3_in_bytes> ][ <class_f_in_frames> ][ <class_f_in_bytes> ][
<class_2_3_in_frames> ][ <in_discards> ][ <in_errors> ][ <in_crc_fcs> ][ <in_unknown_class> ][
<in_too_long> ][ <in_too_short> ][ <out_frames> ][ <out_bytes> ][ <class_2_out_frames> ][
<class_2_out_bytes> ][ <class_3_out_frames> ][ <class_3_out_bytes> ][ <class_f_out_frames> ][
<class_f_out_bytes> ][ <class_2_3_out_frames> ][ <out_discards> ][ <out_errors> ][ <out_crc_fcs> ][
<timeout_discards> ][ <credit_loss> ][ <input_ols> ][ <input_lrr> ][ <input_nos> ][ <input_loop_inits> ][
<output_ols> ][ <output_lrr> ][ <output_nos> ][ <output_loop_inits> ][ <link_faliures> ][ <sync_loss>
][ <signal_loss> ][ <b2b_transmit> ][ <b2b_receive> ][ <txwait> ][ <tx_credit_unavbl> ][
<b2b_receive_remain> ][ <b2b_transmit_remain> ][ <low_priority_b2b_remain> ][ <off_seq_err_rcvd> ][
<broadcast_frames> ][ <errors> ][ <queue_drops> ][ <if_down_drops> ][ <red_drops> ][
<bad_ether_type_drops> ][ <bad_protocol_drops> ][ <arp_drops> ][ <reass_frames> ][ <timestamp_error>
][ <rx_b2b_perf_buff> ][ <rx_b2b_credit> ][ <tx_b2b_credit> ][ <tx_b2b_low_pri_cre> ][
<time_last_cleared> ] ]

```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
detailed	Show only non-zero counters
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
vdc_lvl_in_pkts	(Optional) VDC level input packets
vdc_lvl_in_bytes	(Optional) VDC level input bytes
vdc_lvl_in_ucast	(Optional) VDC level input unicast packets
vdc_lvl_in_mcast	(Optional) VDC level input multicast packets

<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors

<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets
<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns

<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec

<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_inb1519_2500</i>	(Optional) input pkts between 1519 and 2500 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes

<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outb1519_2500</i>	(Optional) output pkts between 1519 and 2500 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_runts</i>	(Optional) runts
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_coll</i>	(Optional) collisions
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_inerr</i>	(Optional) input errors
<i>eth_outerr</i>	(Optional) output errors
<i>eth_deferred</i>	(Optional) deferred
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames

<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_resets</i>	(Optional) interface resets
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes

<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_throtles</i>	(Optional) throttles
<i>eth_frame</i>	(Optional) frame
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops

<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_reliability</i>	(Optional) Reliability
<i>input_rate_bit_per_sec</i>	(Optional) Input rate bits per second
<i>input_rate_bytes_per_sec</i>	(Optional) Input rate bytes per second
<i>input_rate_frames_per_sec</i>	(Optional) Input rate frames per second
<i>output_rate_bit_per_sec</i>	(Optional) Output rate bits per second
<i>output_rate_bytes_per_sec</i>	(Optional) Output rate bytes per second
<i>output_rate_frames_per_sec</i>	(Optional) Output rate frames per second
<i>in_frames</i>	(Optional) Frames
<i>in_bytes</i>	(Optional) Bytes
<i>class_2_in_frames</i>	(Optional) Class 2 frames
<i>class_2_in_bytes</i>	(Optional) Class 2 bytes
<i>class_3_in_frames</i>	(Optional) Class 3 frames
<i>class_3_in_bytes</i>	(Optional) Class 3 bytes
<i>class_f_in_frames</i>	(Optional) Class f frames
<i>class_f_in_bytes</i>	(Optional) Class f bytes
<i>class_2_3_in_frames</i>	(Optional) Class 2/3 Frames
<i>in_discards</i>	(Optional) Discards
<i>in_errors</i>	(Optional) Errors

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

<i>b2b_transmit</i>	(Optional) B2B transmit
<i>b2b_receive</i>	(Optional) B2B receive
<i>txwait</i>	(Optional) TxWait
<i>tx_credit_unavbl</i>	(Optional) Tx credit unavaliable
<i>b2b_receive_remain</i>	(Optional) B2B receive remain
<i>b2b_transmit_remain</i>	(Optional) B2B transmit remain
<i>low_priority_b2b_remain</i>	(Optional) Low priority B2B credit remaining
<i>off_seq_err_rcvd</i>	(Optional) Offset Sequence Error Received
<i>broadcast_frames</i>	(Optional) Broadcast frames
<i>errors</i>	(Optional) Errors
<i>queue_drops</i>	(Optional) Queue drops
<i>if_down_drops</i>	(Optional) If down drops
<i>red_drops</i>	(Optional) Red drops
<i>bad_ether_type_drops</i>	(Optional) Bad ether type drops
<i>bad_protocol_drops</i>	(Optional) Bad Protocol Drops
<i>arp_drops</i>	(Optional) Arp Drops
<i>timestamp_error</i>	(Optional) Timestamp Error
<i>reass_frames</i>	(Optional) Reass Frames
<i>rx_b2b_perf_buff</i>	(Optional) RX B2B performance buffer
<i>rx_b2b_credit</i>	(Optional) RX B2B credit remaining
<i>tx_b2b_credit</i>	(Optional) TX B2B credit remaining
<i>tx_b2b_low_pri_cre</i>	(Optional) TX B2B low priority Credit
<i>time_last_cleared</i>	(Optional) Last time cleared

Command Mode

- /exec

show interface counters detailed

```
show interface <ifmgmt_ctr_dtl> counters detailed [ __readonly__ TABLE_interface <interface> [
<vdc_lvl_in_pkts> ] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [
<vdc_lvl_in_bcast> ] [ <vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_in_avg_pkts> ] [
<vdc_lvl_in_avg_bytes> ] [ <vdc_lvl_out_pkts> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_ucast> ] [
<vdc_lvl_out_mcast> ] [ <vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] [
<vdc_lvl_out_avg_pkts> ] [ <vdc_lvl_out_avg_bytes> ] [ <mgmt_in_pkts> ] [ <mgmt_in_bytes> ] [
<mgmt_in_mcast> ] [ <mgmt_in_compressed> ] [ <mgmt_in_errors> ] [ <mgmt_in_frame> ] [
<mgmt_in_overrun> ] [ <mgmt_in_fifo> ] [ <mgmt_out_pkts> ] [ <mgmt_out_bytes> ] [
<mgmt_out_underruns> ] [ <mgmt_out_errors> ] [ <mgmt_out_collisions> ] [ <mgmt_out_fifo> ] [
<mgmt_out_carrier> ] [ <mgmt_align_err> ] [ <mgmt_fcs_err> ] [ <mgmt_xmit_err> ] [ <mgmt_rcv_err> ] [
<mgmt_undersize> ] [ <mgmt_outdisc> ] [ <mgmt_single_col> ] [ <mgmt_multi_col> ] [ <mgmt_late_col> ] [
<mgmt_excess_col> ] [ <mgmt_carri_sen> ] [ <mgmt_runs> ] [ <mgmt_giants> ] [ <mgmt_sqetest_err> ] [
<mgmt_deferred_tx> ] [ <mgmt_inmactx_err> ] [ <mgmt_inmacrx_err> ] [ <mgmt_symbol_err> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_ctr_dtl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes
<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets

<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overrun</i>	(Optional) Input overrun
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize
<i>mgmt_outdisc</i>	(Optional) Out discard

<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error

Command Mode

- /exec

<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE <i>interface</i>	(Optional) show interface
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec

<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_inb1519_2500</i>	(Optional) input pkts between 1519 and 2500 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes

<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outb1519_2500</i>	(Optional) output pkts between 1519 and 2500 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_runts</i>	(Optional) runts
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_overrun</i>	(Optional) overrun
<i>eth_underrun</i>	(Optional) underruns
<i>eth_ignored</i>	(Optional) ignored
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_coll</i>	(Optional) collisions
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_babbles</i>	(Optional) babbles
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_inerr</i>	(Optional) input errors
<i>eth_outerr</i>	(Optional) output errors
<i>eth_deferred</i>	(Optional) deferred
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_single_coll</i>	(Optional) single collisions

<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_inpause</i>	(Optional) pause input
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_resets</i>	(Optional) interface resets
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) L3 in switched mcast pkts

<i>eth_l3in_mcastbytes</i>	(Optional) L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_throtles</i>	(Optional) throttles
<i>eth_frame</i>	(Optional) frame
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts

<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifrange> counters detailed all [ snmp ] [ __readonly__ TABLE_interface <interface> [
<svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out> ] [ <svi_routed_bytes_out> ] [
<svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [ <svi_mcast_bytes_in> ] [
<svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [ <svi_mcast_bytes_out> ] [
<svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [ <svi_ipv4_ucast_pkts_out> ] [
<svi_ipv4_ucast_bytes_out> ] [ <svi_ipv4_mcast_pkts_in> ] [ <svi_ipv4_mcast_bytes_in> ] [
<svi_ipv4_mcast_pkts_out> ] [ <svi_ipv4_mcast_bytes_out> ] [ <svi_ipv6_ucast_pkts_in> ] [
<svi_ipv6_ucast_bytes_in> ] [ <svi_ipv6_ucast_pkts_out> ] [ <svi_ipv6_ucast_bytes_out> ] [
<svi_ipv6_mcast_pkts_in> ] [ <svi_ipv6_mcast_bytes_in> ] [ <svi_ipv6_mcast_pkts_out> ] [
<svi_ipv6_mcast_bytes_out> ] [ <svi_average_input_bits> ] [ <svi_average_input_packets> ] [
<svi_average_output_bits> ] [ <svi_average_output_packets> ] [ <svi_rate_in_mins> ] [
<svi_time_last_cleared> ] [ <svi_tx_load> ] [ <svi_rx_load> ] [ <svi_reliability> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	everything
snmp	(Optional) Show SNMP MIB values
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>svi_time_last_cleared</i>	(Optional) Time last cleared
<i>svi_tx_load</i>	(Optional) Tx Load
<i>svi_rx_load</i>	(Optional) Rx Load
<i>svi_reliability</i>	(Optional) Reliability

Command Mode

- /exec

show interface counters detailed all

show interface <ifid_ctr_dtl_all> counters detailed all [snmp]

Syntax Description

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

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifmgmt_ctr_dtl_all> counters detailed all [ __readonly__ TABLE_interface <interface> [
<vdc_lvl_in_pkts> ] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [
<vdc_lvl_in_bcast> ] [ <vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_in_avg_pkts> ] [
<vdc_lvl_in_avg_bytes> ] [ <vdc_lvl_out_pkts> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_ucast> ] [
<vdc_lvl_out_mcast> ] [ <vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] [
<vdc_lvl_out_avg_pkts> ] [ <vdc_lvl_out_avg_bytes> ] [ <mgmt_in_pkts> ] [ <mgmt_in_bytes> ] [
<mgmt_in_mcast> ] [ <mgmt_out_pkts> ] [ <mgmt_out_bytes> ] [ <mgmt_in_errors> ] [ <mgmt_out_errors> ] [
<mgmt_in_fifo> ] [ <mgmt_out_fifo> ] [ <mgmt_in_compressed> ] [ <mgmt_in_frame> ] [
<mgmt_in_overrun> ] [ <mgmt_out_underruns> ] [ <mgmt_out_collisions> ] [ <mgmt_out_carrier> ] [
<mgmt_align_err> ] [ <mgmt_fcs_err> ] [ <mgmt_xmit_err> ] [ <mgmt_rcv_err> ] [ <mgmt_undersize> ] [
<mgmt_outdisc> ] [ <mgmt_single_col> ] [ <mgmt_multi_col> ] [ <mgmt_late_col> ] [ <mgmt_excess_col> ] [
<mgmt_carri_sen> ] [ <mgmt_runs> ] [ <mgmt_giants> ] [ <mgmt_sqetest_err> ] [ <mgmt_deferred_tx> ] [
<mgmt_inmactx_err> ] [ <mgmt_inmacrx_err> ] [ <mgmt_symbol_err> ] ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifmgmt_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>vdc_lvl_in_pkts</i>	(Optional) VDC level input packets
<i>vdc_lvl_in_bytes</i>	(Optional) VDC level input bytes
<i>vdc_lvl_in_ucast</i>	(Optional) VDC level input unicast packets
<i>vdc_lvl_in_mcast</i>	(Optional) VDC level input multicast packets
<i>vdc_lvl_in_bcast</i>	(Optional) VDC level input broadcast packets
<i>vdc_lvl_in_bps</i>	(Optional) VDC level input bytes per second
<i>vdc_lvl_in_pps</i>	(Optional) VDC level input packets per second
<i>vdc_lvl_in_avg_pkts</i>	(Optional) VDC level average input packets
<i>vdc_lvl_in_avg_bytes</i>	(Optional) VDC level average input bytes

<i>vdc_lvl_out_pkts</i>	(Optional) VDC level output packets
<i>vdc_lvl_out_bytes</i>	(Optional) VDC level output bytes
<i>vdc_lvl_out_ucast</i>	(Optional) VDC level output unicast packets
<i>vdc_lvl_out_mcast</i>	(Optional) VDC level output multicast packets
<i>vdc_lvl_out_bcast</i>	(Optional) VDC level output broadcast packets
<i>vdc_lvl_out_bps</i>	(Optional) VDC level output bytes per second
<i>vdc_lvl_out_pps</i>	(Optional) VDC level output packets per second
<i>vdc_lvl_out_avg_pkts</i>	(Optional) VDC level average output packets
<i>vdc_lvl_out_avg_bytes</i>	(Optional) VDC level average output bytes
<i>mgmt_in_pkts</i>	(Optional) Input packets
<i>mgmt_in_bytes</i>	(Optional) Input bytes
<i>mgmt_in_mcast</i>	(Optional) Input multicast frames
<i>mgmt_out_pkts</i>	(Optional) Output packets
<i>mgmt_out_bytes</i>	(Optional) Output bytes
<i>mgmt_in_errors</i>	(Optional) Input errors
<i>mgmt_out_errors</i>	(Optional) Output errors
<i>mgmt_in_fifo</i>	(Optional) Input fifo
<i>mgmt_out_fifo</i>	(Optional) Output fifo
<i>mgmt_in_compressed</i>	(Optional) Input compressed
<i>mgmt_in_frame</i>	(Optional) Input frame errors
<i>mgmt_in_overnrun</i>	(Optional) Input overrun
<i>mgmt_out_underruns</i>	(Optional) Output overruns
<i>mgmt_out_collisions</i>	(Optional) Output collisions
<i>mgmt_out_carrier</i>	(Optional) Output carrier errors
<i>mgmt_align_err</i>	(Optional) Align error
<i>mgmt_fcs_err</i>	(Optional) FCS error
<i>mgmt_xmit_err</i>	(Optional) Transmit error
<i>mgmt_rcv_err</i>	(Optional) Receive error
<i>mgmt_undersize</i>	(Optional) Undersize

<i>mgmt_outdisc</i>	(Optional) Out discard
<i>mgmt_single_col</i>	(Optional) Single collision
<i>mgmt_multi_col</i>	(Optional) Multiple collision
<i>mgmt_late_col</i>	(Optional) Late collision
<i>mgmt_excess_col</i>	(Optional) Excess collision
<i>mgmt_carri_sen</i>	(Optional) Carrier sense
<i>mgmt_runts</i>	(Optional) Runts
<i>mgmt_giants</i>	(Optional) Giants
<i>mgmt_sqetest_err</i>	(Optional) SQETest error
<i>mgmt_deferred_tx</i>	(Optional) Deferred tx
<i>mgmt_inmactx_err</i>	(Optional) In MAC tx
<i>mgmt_inmacrx_err</i>	(Optional) In MAC rx
<i>mgmt_symbol_err</i>	(Optional) Symbol error

Command Mode

- /exec

show interface counters detailed all

```
show interface <ifloop_ctr_dtl_all> counters detailed all [ __readonly__ TABLE_interface <interface> [
<rx_total_pkts> ] [ <tx_total_pkts> ] [ <rx_mcast_pkts> ] [ <rx_octets> ] [ <tx_octets> ] [ <loop_in_pkts> ]
[ <loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame>
] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns>
] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifloop_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>rx_total_pkts</i>	(Optional) total input packets
<i>tx_total_pkts</i>	(Optional) total output packets
<i>rx_mcast_pkts</i>	(Optional) input multicasts
<i>rx_octets</i>	(Optional) input bytes
<i>tx_octets</i>	(Optional) output bytes
<i>loop_in_pkts</i>	(Optional) Input packets
<i>loop_in_bytes</i>	(Optional) Input bytes
<i>loop_in_mcast</i>	(Optional) Input multicast
<i>loop_in_compressed</i>	(Optional) Input compressed
<i>loop_in_errors</i>	(Optional) Input errors
<i>loop_in_frame</i>	(Optional) Input frame errors
<i>loop_in_overrun</i>	(Optional) Input overrun
<i>loop_in_fifo</i>	(Optional) Input fifo
<i>loop_out_pkts</i>	(Optional) Output packets

<i>loop_out_bytes</i>	(Optional) Output bytes
<i>loop_out_underruns</i>	(Optional) Output underruns
<i>loop_out_errors</i>	(Optional) Output errors
<i>loop_out_collisions</i>	(Optional) Output collisions
<i>loop_out_fifo</i>	(Optional) Output fifo
<i>loop_out_carriers</i>	(Optional) Output carrier errors

Command Mode

- /exec

show interface counters detailed all

```

show interface <ifeth_ctr_dtl_all> counters detailed all [ snmp ] [ __readonly__ TABLE interface <interface>
[ <rx_total_pkts> ] [ <tx_total_pkts> ] [ <rx_ucast_pkts> ] [ <rx_mcast_pkts> ] [ <rx_bcast_pkts> ] [
<rx_octets> ] [ <tx_ucast_pkts> ] [ <tx_mcast_pkts> ] [ <tx_bcast_pkts> ] [ <tx_octets> ] [
<rxtx_pkts_64octets> ] [ <rxtx_pkts_65_127octets> ] [ <rxtx_pkts_128_255octets> ] [
<rxtx_pkts_256_511octets> ] [ <rxtx_pkts_512_1023octets> ] [ <rxtx_pkts_1024_1518octets> ] [
<rxtx_pkts_1519_1548octets> ] [ <rxtx_pkts_1519_2500octets> ] [ <rx_trunk_frames> ] [ <tx_trunk_frames>
] [ <rx_drop_events> ] [ <rxtx_giants> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts>
] [ <eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits>
] [ <eth_inrate1_summary_pkts> ] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts>
] [ <eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes>
] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [
<eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [
<eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes>
] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [
<eth_l3avg2_inbytes> ] [ <eth_l3avg2_inpkts> ] [ <eth_l3avg2_outbytes> ] [ <eth_l3avg2_outpkts> ] [
<eth_l3avg3_inbytes> ] [ <eth_l3avg3_inpkts> ] [ <eth_l3avg3_outbytes> ] [ <eth_l3avg3_outpkts> ] [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_nobuf> ] [ <eth_inbcast> ] [ <eth_inmcast> ] [ <eth_inucast> ] [
<eth_ingiants> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [ <eth_insw_switched> ] [ <eth_runts> ] [
<eth_storm_supp> ] [ <eth_throtles> ] [ <eth_inerr> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_frame> ] [
<eth_overrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_outbcast> ] [ <eth_outmcast> ] [ <eth_outucast>
] [ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ] [ <eth_in_ifdown_drops> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_underrun> ] [ <eth_outhw_switched> ] [
<eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_resets> ] [ <eth_babbles> ] [ <eth_latecoll> ]
[ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_outpause> ] [ <eth_buffail> ] [
<eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_single_coll> ] [ <eth_multi_coll>
] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [
<eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ] [ <eth_inb64> ] [ <eth_inb65_127>
] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [ <eth_inb1024_1518> ] [
<eth_inb1519_1548> ] [ <eth_inb1519_2500> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ] [
<eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [
<eth_outb1519_1548> ] [ <eth_outb1519_2500> ] [ <eth_outtrunk> ] [ <eth_bpdu_outlost> ] [
<eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost> ] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost>
] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [ <eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [
<eth_fcoe_in_octets> ] [ <eth_fcoe_out_pkts> ] [ <eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [
<eth_nfcoe_in_octets> ] [ <eth_nfcoe_out_pkts> ] [ <eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [
<eth_eee_arcv_lpi_msec> ] [ <eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [
<eth_phy_ber_count> ] [ <eth_phy_errblks_count> ] [ <eth_tx_frm_error> ] [ <eth_rx_toolong> ] [
<eth_rx_undersize> ] [ <eth_rx_fragment> ] [ <eth_rx_crcerr_not_stomped> ] [ <eth_rx_crcerr_stomped> ]
[ <eth_rx_inrangeerr> ] ]

```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	everything
snmp	(Optional) Show SNMP MIB values
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>rx_total_pkts</i>	(Optional) total input packets
<i>tx_total_pkts</i>	(Optional) total output packets
<i>rx_ucast_pkts</i>	(Optional) input unicasts
<i>rx_mcast_pkts</i>	(Optional) input multicasts
<i>rx_bcast_pkts</i>	(Optional) input broadcasts
<i>rx_octets</i>	(Optional) input bytes
<i>tx_ucast_pkts</i>	(Optional) output unicasts
<i>tx_mcast_pkts</i>	(Optional) output multicasts
<i>tx_bcast_pkts</i>	(Optional) output broadcasts
<i>tx_octets</i>	(Optional) output bytes
<i>rxtx_pkts_64octets</i>	(Optional) all pkts between 0 and 64 bytes
<i>rxtx_pkts_65_127octets</i>	(Optional) all pkts between 65 and 127 bytes
<i>rxtx_pkts_128_255octets</i>	(Optional) all pkts between 128 and 255 bytes
<i>rxtx_pkts_256_511octets</i>	(Optional) all pkts between 256 and 511 bytes
<i>rxtx_pkts_512_1023octets</i>	(Optional) all pkts between 512 and 1023 bytes
<i>rxtx_pkts_1024_1518octets</i>	(Optional) all pkts between 1024 and 1518 bytes
<i>rxtx_pkts_1519_1548octets</i>	(Optional) all pkts between 1519 and 1548 bytes
<i>rxtx_pkts_1519_2500octets</i>	(Optional) all pkts between 1519 and 2500 bytes
<i>rx_trunk_frames</i>	(Optional) input trunk pkts

<i>tx_trunk_frames</i>	(Optional) output trunk pkts
<i>rx_drop_events</i>	(Optional) dropped pkts
<i>rxtx_giants</i>	(Optional) giants
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec

<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary
<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes

<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts
<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog

<i>eth_outbroadcast</i>	(Optional) Broadcasts
<i>eth_outmulticast</i>	(Optional) Multicasts
<i>eth_outunicast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions

<i>eth_excess_coll</i>	(Optional) excessive collisions
<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_inb1519_2500</i>	(Optional) input pkts between 1519 and 2500 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outb1519_2500</i>	(Optional) output pkts between 1519 and 2500 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts

<i>eth_cos1_outlost</i>	(Optional) output pkts
<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter
<i>eth_tx_frm_error</i>	(Optional) tx frame error
<i>eth_rx_toolong</i>	(Optional) rx toolong error
<i>eth_rx_undersize</i>	(Optional) rx undersize
<i>eth_rx_fragment</i>	(Optional) rx fragment
<i>eth_rx_crcerr_not_stomped</i>	(Optional) rx crcerr not stomped
<i>eth_rx_crcerr_stomped</i>	(Optional) rx crcerr stomped
<i>eth_rx_inrangeerr</i>	(Optional) rx inrange error

Command Mode

show interface counters detailed all

- /exec

show interface counters detailed cached

```

show interface <ifeth_ctr_dtl_all> counters detailed cached [ __readonly__ TABLE interface <interface> [
<rx_total_pkts>][<tx_total_pkts>][<rx_ucast_pkts>][<rx_mcast_pkts>][<rx_bcast_pkts>][<rx_octets>]
][<tx_ucast_pkts>][<tx_mcast_pkts>][<tx_bcast_pkts>][<tx_octets>][<rxtx_pkts_64octets>][
<rxtx_pkts_65_127octets>][<rxtx_pkts_128_255octets>][<rxtx_pkts_256_511octets>][
<rxtx_pkts_512_1023octets>][<rxtx_pkts_1024_1518octets>][<rxtx_pkts_1519_1548octets>][
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[<eth_inrate1_summary_pkts>][<eth_outrate1_summary_bits>][<eth_outrate1_summary_pkts>][
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][<eth_l2_mcastpkts>][<eth_l2_mcastbytes>][<eth_l2_bcastpkts>][<eth_l2_bcastbytes>][
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][<eth_outgiants>][<eth_inpause>][<eth_dribble>][<eth_in_ifdown_drops>][<eth_bad_eth>][
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][<eth_cos5_outlost>][<eth_cos6_outlost>][<eth_cos7_outlost>][<eth_fcoe_in_pkts>][
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[<eth_rx_inrangeerr>]]

```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_dtl_all</i>	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
cached	everything cached
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>rx_total_pkts</i>	(Optional) total input packets
<i>tx_total_pkts</i>	(Optional) total output packets
<i>rx_ucast_pkts</i>	(Optional) input unicasts
<i>rx_mcast_pkts</i>	(Optional) input multicasts
<i>rx_bcast_pkts</i>	(Optional) input broadcasts
<i>rx_octets</i>	(Optional) input bytes
<i>tx_ucast_pkts</i>	(Optional) output unicasts
<i>tx_mcast_pkts</i>	(Optional) output multicasts
<i>tx_bcast_pkts</i>	(Optional) output broadcasts
<i>tx_octets</i>	(Optional) output bytes
<i>rxtx_pkts_64octets</i>	(Optional) all pkts between 0 and 64 bytes
<i>rxtx_pkts_65_127octets</i>	(Optional) all pkts between 65 and 127 bytes
<i>rxtx_pkts_128_255octets</i>	(Optional) all pkts between 128 and 255 bytes
<i>rxtx_pkts_256_511octets</i>	(Optional) all pkts between 256 and 511 bytes
<i>rxtx_pkts_512_1023octets</i>	(Optional) all pkts between 512 and 1023 bytes
<i>rxtx_pkts_1024_1518octets</i>	(Optional) all pkts between 1024 and 1518 bytes
<i>rxtx_pkts_1519_1548octets</i>	(Optional) all pkts between 1519 and 1548 bytes
<i>rxtx_pkts_1519_2500octets</i>	(Optional) all pkts between 1519 and 2500 bytes
<i>rx_trunk_frames</i>	(Optional) input trunk pkts
<i>tx_trunk_frames</i>	(Optional) output trunk pkts

<i>rx_drop_events</i>	(Optional) dropped pkts
<i>rxtx_giants</i>	(Optional) giants
<i>eth_load_interval1_rx</i>	(Optional) interval 1 timer value in sec
<i>eth_inrate1_bits</i>	(Optional) interval 1 input rate bits/sec
<i>eth_inrate1_pkts</i>	(Optional) interval 1 input rate pkts/sec
<i>eth_load_interval1_tx</i>	(Optional) interval 1 timer value in sec
<i>eth_outrate1_bits</i>	(Optional) interval 1 output rate bits/sec
<i>eth_outrate1_pkts</i>	(Optional) interval 1 output rate pkts/sec
<i>eth_inrate1_summary_bits</i>	(Optional) interval 1 input rate bit summary
<i>eth_inrate1_summary_pkts</i>	(Optional) interval 1 input rate pkt summary
<i>eth_outrate1_summary_bits</i>	(Optional) interval 1 output rate bit summary
<i>eth_outrate1_summary_pkts</i>	(Optional) interval 1 output rate pkt summary
<i>eth_load_interval2_rx</i>	(Optional) interval 2 timer value in sec
<i>eth_inrate2_bits</i>	(Optional) interval 2 input rate bits/sec
<i>eth_inrate2_pkts</i>	(Optional) interval 2 input rate pkts/sec
<i>eth_load_interval2_tx</i>	(Optional) interval 2 timer value in sec
<i>eth_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_inrate2_summary_bits</i>	(Optional) interval 2 input rate bit summary
<i>eth_inrate2_summary_pkts</i>	(Optional) interval 2 input rate pkt summary
<i>eth_outrate2_summary_bits</i>	(Optional) interval 2 output rate bit summary
<i>eth_outrate2_summary_pkts</i>	(Optional) interval 2 output rate pkt summary
<i>eth_load_interval3_rx</i>	(Optional) interval 3 timer value in sec
<i>eth_inrate3_bits</i>	(Optional) interval 3 input rate bits/sec
<i>eth_inrate3_pkts</i>	(Optional) interval 3 input rate pkts/sec
<i>eth_load_interval3_tx</i>	(Optional) interval 3 timer value in sec
<i>eth_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<i>eth_inrate3_summary_bits</i>	(Optional) interval 3 input rate bit summary

<i>eth_inrate3_summary_pkts</i>	(Optional) interval 3 input rate pkt summary
<i>eth_outrate3_summary_bits</i>	(Optional) interval 3 output rate bit summary
<i>eth_outrate3_summary_pkts</i>	(Optional) interval 3 output rate pkt summary
<i>eth_l2_ucastpkts</i>	(Optional) L2 switched ucast pkts
<i>eth_l2_ucastbytes</i>	(Optional) L2 switched ucast bytes
<i>eth_l2_mcastpkts</i>	(Optional) L2 switched mcast pkts
<i>eth_l2_mcastbytes</i>	(Optional) L2 switched mcast bytes
<i>eth_l2_bcastpkts</i>	(Optional) L2 switched bcast pkts
<i>eth_l2_bcastbytes</i>	(Optional) L2 switched bcast bytes
<i>eth_l3in_ucastpkts</i>	(Optional) IPv4 L3 in switched ucast pkts
<i>eth_l3in_ucastbytes</i>	(Optional) IPv4 L3 in switched ucast bytes
<i>eth_l3in_mcastpkts</i>	(Optional) IPv4 L3 in switched mcast pkts
<i>eth_l3in_mcastbytes</i>	(Optional) IPv4 L3 in switched mcast bytes
<i>eth_l3in_bcastpkts</i>	(Optional) L3 in switched bcast pkts
<i>eth_l3in_bcastbytes</i>	(Optional) L3 in switched bcast bytes
<i>eth_l3out_ucastpkts</i>	(Optional) IPv4 L3 out switched ucast pkts
<i>eth_l3out_ucastbytes</i>	(Optional) IPv4 L3 out switched ucast bytes
<i>eth_l3out_mcastpkts</i>	(Optional) IPv4 L3 out switched mcast pkts
<i>eth_l3out_mcastbytes</i>	(Optional) IPv4 L3 out switched mcast bytes
<i>eth_l3out_bcastpkts</i>	(Optional) L3 out switched bcast pkts
<i>eth_l3out_bcastbytes</i>	(Optional) L3 out switched bcast bytes
<i>eth_l3in_routed_pkts</i>	(Optional) L3 in routed pkts
<i>eth_l3in_routed_bytes</i>	(Optional) L3 in routed bytes
<i>eth_l3out_routed_pkts</i>	(Optional) L3 out routed pkts
<i>eth_l3out_routed_bytes</i>	(Optional) L3 out routed bytes
<i>eth_l3avg1_inbytes</i>	(Optional) Load interval 1 L3 average in switched bytes
<i>eth_l3avg1_inpkts</i>	(Optional) Load interval 1 L3 average in switched pkts
<i>eth_l3avg1_outbytes</i>	(Optional) Load interval 1 L3 average out switched bytes
<i>eth_l3avg1_outpkts</i>	(Optional) Load interval 1 L3 average out switched pkts

<i>eth_l3avg2_inbytes</i>	(Optional) Load interval 2 L3 average in switched bytes
<i>eth_l3avg2_inpkts</i>	(Optional) Load interval 2 L3 average in switched pkts
<i>eth_l3avg2_outbytes</i>	(Optional) Load interval 2 L3 average out switched bytes
<i>eth_l3avg2_outpkts</i>	(Optional) Load interval 2 L3 average out switched pkts
<i>eth_l3avg3_inbytes</i>	(Optional) Load interval 3 L3 average in switched bytes
<i>eth_l3avg3_inpkts</i>	(Optional) Load interval 3 L3 average in switched pkts
<i>eth_l3avg3_outbytes</i>	(Optional) Load interval 3 L3 average out switched bytes
<i>eth_l3avg3_outpkts</i>	(Optional) Load interval 3 L3 average out switched pkts
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_nobuf</i>	(Optional) No buffer received
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_ingiants</i>	(Optional) giants
<i>eth_ipmcast</i>	(Optional) IP multicast
<i>eth_inhw_switched</i>	(Optional) Input H/W Switched
<i>eth_insw_switched</i>	(Optional) Input S/W Switched
<i>eth_runts</i>	(Optional) runts
<i>eth_storm_supp</i>	(Optional) storm suppression
<i>eth_throtles</i>	(Optional) throttles
<i>eth_inerr</i>	(Optional) input errors
<i>eth_crc</i>	(Optional) CRC
<i>eth_ecc</i>	(Optional) ECC
<i>eth_frame</i>	(Optional) frame
<i>eth_overrun</i>	(Optional) overrun
<i>eth_ignored</i>	(Optional) ignored
<i>eth_watchdog</i>	(Optional) watchdog
<i>eth_outbcast</i>	(Optional) Broadcasts

<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outgiants</i>	(Optional) giants
<i>eth_inpause</i>	(Optional) pause input
<i>eth_dribble</i>	(Optional) input packets with dribble condition
<i>eth_in_ifdown_drops</i>	(Optional) Input if-down drops
<i>eth_bad_eth</i>	(Optional) bad ether type drop
<i>eth_bad_proto</i>	(Optional) bad protocol drops
<i>eth_outpkts</i>	(Optional) packets output
<i>eth_outbytes</i>	(Optional) bytes output
<i>eth_underrun</i>	(Optional) underruns
<i>eth_outhw_switched</i>	(Optional) Out H/W Switched
<i>eth_outsw_switched</i>	(Optional) Out S/W Switched
<i>eth_outerr</i>	(Optional) output errors
<i>eth_coll</i>	(Optional) collisions
<i>eth_resets</i>	(Optional) interface resets
<i>eth_babbles</i>	(Optional) babbles
<i>eth_latecoll</i>	(Optional) late collision
<i>eth_deferred</i>	(Optional) deferred
<i>eth_lostcarrier</i>	(Optional) lost carrier
<i>eth_nocarrier</i>	(Optional) no carrier
<i>eth_outpause</i>	(Optional) PAUSE output
<i>eth_buffail</i>	(Optional) output buffer failures
<i>eth_bufswapped</i>	(Optional) output buffers swapped out
<i>eth_arpdrops</i>	(Optional) arp drops
<i>eth_out_ifdown_drops</i>	(Optional) Output if-down drops
<i>eth_single_coll</i>	(Optional) single collisions
<i>eth_multi_coll</i>	(Optional) multi collisions
<i>eth_excess_coll</i>	(Optional) excessive collisions

<i>eth_jabbers</i>	(Optional) jabbers
<i>eth_shortframe</i>	(Optional) short frames
<i>eth_indiscard</i>	(Optional) discards
<i>eth_bad_encap</i>	(Optional) bad encapsulation
<i>eth_outcrc</i>	(Optional) Output CRC
<i>eth_symbol</i>	(Optional) symbol errors
<i>eth_out_drops</i>	(Optional) output drops
<i>eth_sqetest</i>	(Optional) SQE test
<i>eth_inb64</i>	(Optional) input pkts between 0 and 64 bytes
<i>eth_inb65_127</i>	(Optional) input pkts between 65 and 127 bytes
<i>eth_inb128_255</i>	(Optional) input pkts between 128 and 255 bytes
<i>eth_inb256_511</i>	(Optional) input pkts between 256 and 511 bytes
<i>eth_inb512_1023</i>	(Optional) input pkts between 512 and 1023 bytes
<i>eth_inb1024_1518</i>	(Optional) input pkts between 1024 and 1518 bytes
<i>eth_inb1519_1548</i>	(Optional) input pkts between 1519 and 1548 bytes
<i>eth_inb1519_2500</i>	(Optional) input pkts between 1519 and 2500 bytes
<i>eth_intrunk</i>	(Optional) input trunk pkts
<i>eth_outb64</i>	(Optional) output pkts between 0 and 64 bytes
<i>eth_outb65_127</i>	(Optional) output pkts between 65 and 127 bytes
<i>eth_outb128_255</i>	(Optional) output pkts between 128 and 255 bytes
<i>eth_outb256_511</i>	(Optional) output pkts between 256 and 511 bytes
<i>eth_outb512_1023</i>	(Optional) output pkts between 512 and 1023 bytes
<i>eth_outb1024_1518</i>	(Optional) output pkts between 1024 and 1518 bytes
<i>eth_outb1519_1548</i>	(Optional) output pkts between 1519 and 1548 bytes
<i>eth_outb1519_2500</i>	(Optional) output pkts between 1519 and 2500 bytes
<i>eth_outtrunk</i>	(Optional) output trunk pkts
<i>eth_bpdu_outlost</i>	(Optional) BPDU output lost
<i>eth_cos0_outlost</i>	(Optional) output pkts
<i>eth_cos1_outlost</i>	(Optional) output pkts

<i>eth_cos2_outlost</i>	(Optional) output pkts
<i>eth_cos3_outlost</i>	(Optional) output pkts
<i>eth_cos4_outlost</i>	(Optional) output pkts
<i>eth_cos5_outlost</i>	(Optional) output pkts
<i>eth_cos6_outlost</i>	(Optional) output pkts
<i>eth_cos7_outlost</i>	(Optional) output pkts
<i>eth_fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>eth_fcoe_in_octets</i>	(Optional) fcoe in octets
<i>eth_fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>eth_fcoe_out_octets</i>	(Optional) fcoe out octets
<i>eth_nfcoe_in_pkts</i>	(Optional) nfcoe in pkts
<i>eth_nfcoe_in_octets</i>	(Optional) nfcoe in octets
<i>eth_nfcoe_out_pkts</i>	(Optional) nfcoe out pkts
<i>eth_nfcoe_out_octets</i>	(Optional) nfcoe out octets
<i>eth_eee_atx_lpi_msec</i>	(Optional) Tx Lpi usec
<i>eth_eee_arcv_lpi_msec</i>	(Optional) Rx Lpi usec
<i>eth_eee_atx_lpi_transitions</i>	(Optional) Tx Lpi requests
<i>eth_eee_arcv_lpi_transitions</i>	(Optional) Rx Lpi indications
<i>eth_phy_ber_count</i>	(Optional) Bit error rate counter
<i>eth_phy_errblks_count</i>	(Optional) Errored blocks counter
<i>eth_tx_frm_error</i>	(Optional) tx frame error
<i>eth_rx_toolong</i>	(Optional) rx toolong error
<i>eth_rx_undersize</i>	(Optional) rx undersize
<i>eth_rx_fragment</i>	(Optional) rx fragment
<i>eth_rx_crcerr_not_stomped</i>	(Optional) rx crcerr not stomped
<i>eth_rx_crcerr_stomped</i>	(Optional) rx crcerr stomped
<i>eth_rx_inrangeerr</i>	(Optional) rx inrange error

Command Mode

- /exec

show interface counters details

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

Syntax Description

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

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

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

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

Command Mode

- /exec

show interface counters details

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

Syntax Description

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

Command Mode

- /exec

show interface counters errors

```
show interface counters errors [ module <module> ] [ non-zero ] [ __readonly__ TABLE_interface <interface>
[ <eth_align_err> ] [ <eth_fcs_err> ] [ <eth_xmit_err> ] [ <eth_rcv_err> ] [ <eth_undersize> ] [ <eth_outdisc>
] [ <eth_single_col> ] [ <eth_multi_col> ] [ <eth_late_col> ] [ <eth_excess_col> ] [ <eth_carri_sen> ] [
<eth_runts> ] [ <eth_giants> ] [ <eth_sqetest_err> ] [ <eth_deferred_tx> ] [ <eth_inmactx_err> ] [
<eth_inmacrx_err> ] [ <eth_symbol_err> ] [ <eth_indisc> ] [ <eth_stomped_crc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
errors	Show interface error counters
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
non-zero	(Optional) Display only the non-zero error values
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_align_err</i>	(Optional) Align error
<i>eth_fcs_err</i>	(Optional) FCS error
<i>eth_xmit_err</i>	(Optional) Transmit error
<i>eth_rcv_err</i>	(Optional) Receive error
<i>eth_undersize</i>	(Optional) Undersize
<i>eth_outdisc</i>	(Optional) Out discard
<i>eth_single_col</i>	(Optional) Single collision
<i>eth_multi_col</i>	(Optional) Multiple collision
<i>eth_late_col</i>	(Optional) Late collision
<i>eth_excess_col</i>	(Optional) Excess collision
<i>eth_carri_sen</i>	(Optional) Carrier sense
<i>eth_runts</i>	(Optional) Runts
<i>eth_giants</i>	(Optional) Giants

<i>eth_sqetest_err</i>	(Optional) SQETest error
<i>eth_deferred_tx</i>	(Optional) Deferred tx
<i>eth_inmactx_err</i>	(Optional) In MAC tx
<i>eth_inmacrx_err</i>	(Optional) In MAC rx
<i>eth_symbol_err</i>	(Optional) Symbol error
<i>eth_indisc</i>	(Optional) In discards
<i>eth_stomped_crc</i>	(Optional) Stomped CRC

Command Mode

- /exec

show interface counters errors

```
show interface <ifeth_ctr_errs> counters errors [ snmp ] [ __readonly__ TABLE_interface <interface> [
<eth_align_err> ] [ <eth_fcs_err> ] [ <eth_xmit_err> ] [ <eth_rcv_err> ] [ <eth_undersize> ] [ <eth_outdisc>
] [ <eth_single_col> ] [ <eth_multi_col> ] [ <eth_late_col> ] [ <eth_excess_col> ] [ <eth_carri_sen> ] [
<eth_runts> ] [ <eth_giants> ] [ <eth_sqetest_err> ] [ <eth_deferred_tx> ] [ <eth_inmactx_err> ] [
<eth_inmacrx_err> ] [ <eth_symbol_err> ] [ <eth_indisc> ] [ <eth_stomped_crc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_errs</i>	Enter interface type and number in module/slot format
counters	Show interface counters
errors	Show interface error counters
snmp	(Optional) Show SNMP MIB values
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_align_err</i>	(Optional) Align error
<i>eth_fcs_err</i>	(Optional) FCS error
<i>eth_xmit_err</i>	(Optional) Transmit error
<i>eth_rcv_err</i>	(Optional) Receive error
<i>eth_undersize</i>	(Optional) Undersize
<i>eth_outdisc</i>	(Optional) Out discard
<i>eth_single_col</i>	(Optional) Single collision
<i>eth_multi_col</i>	(Optional) Multiple collision
<i>eth_late_col</i>	(Optional) Late collision
<i>eth_excess_col</i>	(Optional) Excess collision
<i>eth_carri_sen</i>	(Optional) Carrier sense
<i>eth_runts</i>	(Optional) Runts
<i>eth_giants</i>	(Optional) Giants
<i>eth_sqetest_err</i>	(Optional) SQETest error

<i>eth_deferred_tx</i>	(Optional) Deferred tx
<i>eth_inmactx_err</i>	(Optional) In MAC tx
<i>eth_inmacrx_err</i>	(Optional) In MAC rx
<i>eth_symbol_err</i>	(Optional) Symbol error
<i>eth_indisc</i>	(Optional) In discards
<i>eth_stomped_crc</i>	(Optional) Stomped CRC

Command Mode

- /exec

show interface counters errors

show interface <loop_ctr_errs> counters errors

Syntax Description

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

Command Mode

- /exec

show interface counters fc

```
show interface counters fc [ brief ] [ __readonly__ [ { TABLE_counters <sfp> { TABLE_input_rate
<bit_per_sec> <bytes_per_sec> <frames_per_sec> } { TABLE_output_rate <bit_per_sec> <bytes_per_sec>
<frames_per_sec> } { TABLE_input <frames> <bytes> [ <class_2_frames> ] [ <class_2_bytes> ] [
<class_3_frames> ] [ <class_3_bytes> ] [ <class_f_frames> ] [ <class_f_bytes> ] [ <class_2_3_frames> ]
<discards> <errors> <crc_fcs> <unknown_class> <too_long> <too_short> } { TABLE_output <frames>
<bytes> [ <class_2_frames> ] [ <class_2_bytes> ] [ <class_3_frames> ] [ <class_3_bytes> ] [ <class_f_frames>
] [ <class_f_bytes> ] [ <class_2_3_frames> ] [ <discards> ] [ <errors> ] [ <crc_fcs> ] } [ <timeout_discards>
] [ <credit_loss> ] [ <input_ols> ] [ <input_lrr> ] [ <input_nos> ] [ <input_loop_inits> ] [ <output_ols> ] [
<output_lrr> ] [ <output_nos> ] [ <output_loop_inits> ] [ <link_faliures> ] [ <sync_loss> ] [ <signal_loss> ]
[ <b2b_transmit> ] [ <b2b_receive> ] [ <txwait> ] [ <tx_credit_unavbl> ] [ <b2b_receive_remain> ] [
<b2b_transmit_remain> ] [ <low_priority_b2b_remain> ] [ <off_seq_err_rcvd> ] [ <broadcast_frames> ] [
<errors> ] [ <queue_drops> ] [ <if_down_drops> ] [ <red_drops> ] [ <bad_ether_type_drops> ] [
<bad_protocol_drops> ] [ <arp_drops> ] [ <reass_frames> ] [ <timestamp_error> ] [ <rx_b2b_perf_buff> ]
[ <rx_b2b_credit> ] [ <tx_b2b_credit> ] [ <tx_b2b_low_pri_cre> ] [ <time_last_cleared> } } ] [ {
TABLE_counters_brief <sfp> <fc_input_rate> <fc_frames_in> <fc_output_rate> <fc_frames_out> } ] [ {
TABLE_interface <interface> [ <fcoe_in_pkts> ] [ <fcoe_in_octets> ] [ <fcoe_out_pkts> ] [ <fcoe_out_octets>
} ] ] ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
fc	Show interface counters for fc interfaces
brief	(Optional) Show interface counters for fc interfaces in brief
__readonly__	(Optional) Readonly
TABLE_counters	(Optional) Table counters
sfp	(Optional) SFP
TABLE_input_rate	(Optional) Input rate
bit_per_sec	(Optional) Input rate bits per second
bytes_per_sec	(Optional) Input rate bytes per second
frames_per_sec	(Optional) Input rate frames per second
TABLE_output_rate	(Optional) Output rate
bit_per_sec	(Optional) Output rate bits per second
bytes_per_sec	(Optional) Output rate bytes per second
frames_per_sec	(Optional) Output rate frames per second

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

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

<i>timestamp_error</i>	(Optional) Timestamp Error
<i>reass_frames</i>	(Optional) Reass Frames
<i>rx_b2b_perf_buff</i>	(Optional) RX B2B performance buffer
<i>rx_b2b_credit</i>	(Optional) RX B2B credit remaining
<i>tx_b2b_credit</i>	(Optional) TX B2B credit remaining
<i>tx_b2b_low_pri_cre</i>	(Optional) TX B2B low priority Credit
<i>off_seq_err_rcvd</i>	(Optional) Offset Sequence Error Received
TABLE_counters_brief	(Optional) Table counters brief
<i>sfp</i>	(Optional) FC id
<i>fc_input_rate</i>	(Optional) Input rate
<i>fc_frames_in</i>	(Optional) Frames in
<i>fc_output_rate</i>	(Optional) Output rate
<i>fc_frames_out</i>	(Optional) Frames out
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) interface
<i>fcoe_in_pkts</i>	(Optional) fcoe in pkts
<i>fcoe_in_octets</i>	(Optional) fcoe in octets
<i>fcoe_out_pkts</i>	(Optional) fcoe out pkts
<i>fcoe_out_octets</i>	(Optional) fcoe out octets

Command Mode

- /exec

show interface counters snmp

```
show interface counters snmp [ module <module> ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ]
[ <eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_ipv4bytes> ] [
<eth_l3in_ipv4pkts> ] [ <eth_l3in_ipv4ucast_pkts> ] [ <eth_l3in_ipv4mcast_pkts> ] [
<eth_l3in_ipv4bcast_pkts> ] [ <eth_l3in_ipv6bytes> ] [ <eth_l3in_ipv6pkts> ] [ <eth_l3in_ipv6ucast_pkts>
] [ <eth_l3in_ipv6mcast_pkts> ] [ <eth_l3in_ipv6bcast_pkts> ] } { TABLE_tx_counters <interface_tx> [
<eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [
<eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] [
<eth_l3out_ipv4bytes> ] [ <eth_l3out_ipv4pkts> ] [ <eth_l3out_ipv4ucast_pkts> ] [
<eth_l3out_ipv4mcast_pkts> ] [ <eth_l3out_ipv4bcast_pkts> ] [ <eth_l3out_ipv6bytes> ] [
<eth_l3out_ipv6pkts> ] [ <eth_l3out_ipv6ucast_pkts> ] [ <eth_l3out_ipv6mcast_pkts> ] [
<eth_l3out_ipv6bcast_pkts> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
snmp	Show SNMP MIB values
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
<i>interface_rx</i>	(Optional) Interface index
<i>eth_inpkts</i>	(Optional) Packets input
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts
<i>eth_inmcast</i>	(Optional) Multicasts
<i>eth_inbcast</i>	(Optional) Broadcasts
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3in_ipv4bytes</i>	(Optional) L3 Rx IPv4 bytes

<i>eth_l3in_ipv4pkts</i>	(Optional) L3 Rx IPv4 pkts
<i>eth_l3in_ipv4ucast_pkts</i>	(Optional) L3 Rx IPv4 Ucast pkts
<i>eth_l3in_ipv4mcast_pkts</i>	(Optional) L3 Rx IPv4 Mcast pkts
<i>eth_l3in_ipv4bcast_pkts</i>	(Optional) L3 Rx IPv4 Bcast pkts
<i>eth_l3in_ipv6bytes</i>	(Optional) L3 Rx IPv6 bytes
<i>eth_l3in_ipv6pkts</i>	(Optional) L3 Rx IPv6 pkts
<i>eth_l3in_ipv6ucast_pkts</i>	(Optional) L3 Rx IPv6 Ucast pkts
<i>eth_l3in_ipv6mcast_pkts</i>	(Optional) L3 Rx IPv6 Mcast pkts
<i>eth_l3in_ipv6bcast_pkts</i>	(Optional) L3 Rx IPv6 Bcast pkts
TABLE_tx_counters	(Optional) show Tx counters
<i>interface_tx</i>	(Optional) Interface index
<i>eth_outpkts</i>	(Optional) Packets output
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts
<i>eth_outmcast</i>	(Optional) Multicasts
<i>eth_outbcast</i>	(Optional) Broadcasts
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts
<i>eth_l3out_ipv4bytes</i>	(Optional) L3 Tx IPv4 bytes
<i>eth_l3out_ipv4pkts</i>	(Optional) L3 Tx IPv4 pkts
<i>eth_l3out_ipv4ucast_pkts</i>	(Optional) L3 Tx IPv4 Ucast pkts
<i>eth_l3out_ipv4mcast_pkts</i>	(Optional) L3 Tx IPv4 Mcast pkts
<i>eth_l3out_ipv4bcast_pkts</i>	(Optional) L3 Tx IPv4 Bcast pkts
<i>eth_l3out_ipv6bytes</i>	(Optional) L3 Tx IPv6 bytes
<i>eth_l3out_ipv6pkts</i>	(Optional) L3 Tx IPv6 pkts
<i>eth_l3out_ipv6ucast_pkts</i>	(Optional) L3 Tx IPv6 Ucast pkts
<i>eth_l3out_ipv6mcast_pkts</i>	(Optional) L3 Tx IPv6 Mcast pkts

<i>eth_l3out_ipv6bcast_pkts</i>	(Optional) L3 Tx IPv6 Bcast pkts
---------------------------------	----------------------------------

Command Mode

- /exec

show interface counters snmp

```
show interface <ifeth_ctr> counters snmp [ __readonly__ { TABLE_rx_counters <interface_rx> [ <eth_inbytes>
] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [ <eth_l3in_ucastpkts> ] [
<eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_ipv4bytes> ] [ <eth_l3in_ipv4pkts> ] [
<eth_l3in_ipv4ucast_pkts> ] [ <eth_l3in_ipv4mcast_pkts> ] [ <eth_l3in_ipv4bcast_pkts> ] [
<eth_l3in_ipv6bytes> ] [ <eth_l3in_ipv6pkts> ] [ <eth_l3in_ipv6ucast_pkts> ] [ <eth_l3in_ipv6mcast_pkts>
] [ <eth_l3in_ipv6bcast_pkts> ] } { TABLE_tx_counters <interface_tx> [ <eth_outbytes> ] [ <eth_outucast>
] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_ipv4bytes> ] [ <eth_l3out_ipv4pkts> ] [
<eth_l3out_ipv4ucast_pkts> ] [ <eth_l3out_ipv4mcast_pkts> ] [ <eth_l3out_ipv4bcast_pkts> ] [
<eth_l3out_ipv6bytes> ] [ <eth_l3out_ipv6pkts> ] [ <eth_l3out_ipv6ucast_pkts> ] [
<eth_l3out_ipv6mcast_pkts> ] [ <eth_l3out_ipv6bcast_pkts> ] } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr</i>	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	Show SNMP MIB values
<u>__readonly__</u>	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
<i>interface_rx</i>	(Optional) Interface index rx
<i>eth_inbytes</i>	(Optional) Bytes input
<i>eth_inucast</i>	(Optional) Unicasts input
<i>eth_inmcast</i>	(Optional) Multicasts input
<i>eth_inbcast</i>	(Optional) Broadcasts input
<i>eth_l3in_bytes</i>	(Optional) L3 Rx bytes
<i>eth_l3in_ucastpkts</i>	(Optional) L3 Rx Unicast pkts
<i>eth_l3in_mcastpkts</i>	(Optional) L3 Rx Multicast pkts
<i>eth_l3in_bcastpkts</i>	(Optional) L3 Rx Broadcast pkts
<i>eth_l3in_ipv4bytes</i>	(Optional) L3 Rx IPv4 bytes
<i>eth_l3in_ipv4pkts</i>	(Optional) L3 Rx IPv4 pkts
<i>eth_l3in_ipv4ucast_pkts</i>	(Optional) L3 Rx IPv4 Ucast pkts

<i>eth_l3in_ipv4mcast_pkts</i>	(Optional) L3 Rx IPv4 Mcast pkts
<i>eth_l3in_ipv4bcast_pkts</i>	(Optional) L3 Rx IPv4 Bcast pkts
<i>eth_l3in_ipv6bytes</i>	(Optional) L3 Rx IPv6 bytes
<i>eth_l3in_ipv6pkts</i>	(Optional) L3 Rx IPv6 pkts
<i>eth_l3in_ipv6ucast_pkts</i>	(Optional) L3 Rx IPv6 Ucast pkts
<i>eth_l3in_ipv6mcast_pkts</i>	(Optional) L3 Rx IPv6 Mcast pkts
<i>eth_l3in_ipv6bcast_pkts</i>	(Optional) L3 Rx IPv6 Bcast pkts
TABLE_tx_counters	(Optional) show Tx counters
<i>interface_tx</i>	(Optional) Interface index tx
<i>eth_outbytes</i>	(Optional) Bytes output
<i>eth_outucast</i>	(Optional) Unicasts output
<i>eth_outmcast</i>	(Optional) Multicasts output
<i>eth_outbcast</i>	(Optional) Broadcasts output
<i>eth_l3out_bytes</i>	(Optional) L3 Tx bytes
<i>eth_l3out_ucastpkts</i>	(Optional) L3 Tx Unicast pkts
<i>eth_l3out_mcastpkts</i>	(Optional) L3 Tx Multicast pkts
<i>eth_l3out_bcastpkts</i>	(Optional) L3 Tx Broadcast pkts
<i>eth_l3out_ipv4bytes</i>	(Optional) L3 Tx IPv4 bytes
<i>eth_l3out_ipv4pkts</i>	(Optional) L3 Tx IPv4 pkts
<i>eth_l3out_ipv4ucast_pkts</i>	(Optional) L3 Tx IPv4 Ucast pkts
<i>eth_l3out_ipv4mcast_pkts</i>	(Optional) L3 Tx IPv4 Mcast pkts
<i>eth_l3out_ipv4bcast_pkts</i>	(Optional) L3 Tx IPv4 Bcast pkts
<i>eth_l3out_ipv6bytes</i>	(Optional) L3 Tx IPv6 bytes
<i>eth_l3out_ipv6pkts</i>	(Optional) L3 Tx IPv6 pkts
<i>eth_l3out_ipv6ucast_pkts</i>	(Optional) L3 Tx IPv6 Ucast pkts
<i>eth_l3out_ipv6mcast_pkts</i>	(Optional) L3 Tx IPv6 Mcast pkts
<i>eth_l3out_ipv6bcast_pkts</i>	(Optional) L3 Tx IPv6 Bcast pkts

Command Mode

- /exec

show interface counters storm-control

```
show interface <ifeth_ctr_stm_ctrl> counters storm-control [ details ] [ __readonly__ TABLE_interface
<interface> [ <eth_ucast_supp> ] [ <eth_mcast_supp> ] [ <eth_bcast_supp> ] [ <eth_total_supp> ] [ <eth_type>
] [ <eth_pps> ] [ <eth_threshold> ] [ <eth_supp_ucast> ] [ <eth_supp_mcast> ] [ <eth_supp_bcast> ] [
<supp_action> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_stm_ctrl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
storm-control	Show interface storm-control counters
details	(Optional) Show interface storm-control counters details
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_ucast_supp</i>	(Optional) Unicast suppression percentage
<i>eth_mcast_supp</i>	(Optional) Multicast suppression percentage
<i>eth_bcast_supp</i>	(Optional) Broadcast suppression percentage
<i>eth_total_supp</i>	(Optional) Total discarded due to suppression
<i>eth_type</i>	(Optional) cast type
<i>eth_pps</i>	(Optional) PPS enabled
<i>eth_threshold</i>	(Optional) Threshold
<i>eth_supp_ucast</i>	(Optional) Unicast suppression
<i>eth_supp_mcast</i>	(Optional) Multicast suppression
<i>eth_supp_bcast</i>	(Optional) Broadcast suppression
<i>supp_action</i>	(Optional) Action to be taken on suppression

Command Mode

- /exec

show interface counters storm-control

```
show interface counters storm-control [ details | module <module> ] [ __readonly__ TABLE_interface
<interface> [ <eth_ucast_supp> ] [ <eth_mcast_supp> ] [ <eth_bcast_supp> ] [ <eth_total_supp> ] [ <eth_type>
] [ <eth_pps> ] [ <eth_threshold> ] [ <eth_supp_ucast> ] [ <eth_supp_mcast> ] [ <eth_supp_bcast> ] [
<supp_action> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
storm-control	Show interface storm-control counters
module	(Optional) Limit display to interfaces on module
details	(Optional) Show interface storm-control counters details
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_ucast_supp</i>	(Optional) Unicast suppression percentage
<i>eth_mcast_supp</i>	(Optional) Multicast suppression percentage
<i>eth_bcast_supp</i>	(Optional) Broadcast suppression percentage
<i>eth_total_supp</i>	(Optional) Total discarded due to suppression
<i>eth_type</i>	(Optional) cast type
<i>eth_pps</i>	(Optional) PPS enabled
<i>eth_threshold</i>	(Optional) Threshold
<i>eth_supp_ucast</i>	(Optional) Unicast suppression
<i>eth_supp_mcast</i>	(Optional) Multicast suppression
<i>eth_supp_bcast</i>	(Optional) Broadcast suppression
<i>supp_action</i>	(Optional) Action to be taken on suppression

Command Mode

- /exec

show interface counters storm-control multi-threshold

```
show interface <ifeth_ctr_stm_ctrl> counters storm-control multi-threshold [ unicast | broadcast | multicast ]
[ __readonly__ TABLE_interface <interface> [ <eth_ucast_level1> ] [ <eth_mcast_level1> ] [
<eth_bcast_level1> ] [ <eth_ucast_supp_level1> ] [ <eth_mcast_supp_level1> ] [ <eth_bcast_supp_level1> ] [
<supp_action1> ] [ <eth_ucast_level2> ] [ <eth_mcast_level2> ] [ <eth_bcast_level2> ] [
<eth_ucast_supp_level2> ] [ <eth_mcast_supp_level2> ] [ <eth_bcast_supp_level2> ] [ <supp_action2> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_stm_ctrl</i>	Enter interface type and number in module/slot format
counters	Show interface counters
storm-control	Show interface storm-control counters
multi-threshold	multi-level storm control
unicast	(Optional) Unicast traffic information
broadcast	(Optional) Broadcast traffic information
multicast	(Optional) Multicast traffic information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_ucast_level1</i>	(Optional) Unicast suppression percentage level 1
<i>eth_ucast_level2</i>	(Optional) Unicast suppression percentage level 2
<i>eth_mcast_level1</i>	(Optional) Multicast suppression percentage level 1
<i>eth_mcast_level2</i>	(Optional) Multicast suppression percentage level 2
<i>eth_bcast_level1</i>	(Optional) Broadcast suppression percentage level 1
<i>eth_bcast_level2</i>	(Optional) Broadcast suppression percentage level 2
<i>supp_action1</i>	(Optional) Action to be taken on suppression level 1
<i>supp_action2</i>	(Optional) Action to be taken on suppression level 2
<i>eth_ucast_supp_level1</i>	(Optional) ucast level1 supp
<i>eth_mcast_supp_level1</i>	(Optional) mcast level1 supp
<i>eth_bcast_supp_level1</i>	(Optional) bcast level1 supp

<i>eth_ucast_supp_lvl2</i>	(Optional) ucast level2 supp
<i>eth_mcast_supp_lvl2</i>	(Optional) mcast level2 supp
<i>eth_bcast_supp_lvl2</i>	(Optional) bcast level2 supp

Command Mode

- /exec

show interface counters table

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

Syntax Description

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

Command Mode

- /exec

show interface counters table verbose

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

Syntax Description

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

Command Mode

- /exec

show interface counters trunk

```
show interface <ifeth_ctr_trnk> counters trunk [ __readonly__ TABLE_interface <interface> [
<eth_trunk_frames_tx> ] [ <eth_trunk_frames_rx> ] [ <eth_wrong_encap> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_ctr_trnk</i>	Enter interface type and number in module/slot format
counters	Show interface counters
trunk	Show interface trunk counters
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_trunk_frames_tx</i>	(Optional) Trunk frame transmitted
<i>eth_trunk_frames_rx</i>	(Optional) Trunk frames received
<i>eth_wrong_encap</i>	(Optional) Wrong encapsulation

Command Mode

- /exec

show interface dampening

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

Syntax Description

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

Command Mode

- /exec

show interface debounce

```
show interface <ifeth_dbnc> debounce [ __readonly__ TABLE_interface <interface> <debounce>
<debounce_val> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_dbnc</i>	Enter interface type and number in module/slot format
debounce	Show interface debounce time information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>debounce</i>	(Optional) Debounce time
<i>debounce_val</i>	(Optional) Value(ms)

Command Mode

- /exec

show interface debounce

```
show interface debounce [ __readonly__ TABLE_interface <interface> <debounce> <debounce_val> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
debounce	Show interface debounce time information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>debounce</i>	(Optional) Debounce time
<i>debounce_val</i>	(Optional) Value(ms)

Command Mode

- /exec

show interface description

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

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
description	Show interface description
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <ifid_desc1> description [ __readonly__ TABLE_interface <interface_fc> [ <desc_fc> ] ]
```

Syntax Description

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

Command Mode

- /exec

show interface description

show interface <ifid> description [__readonly__ <start> <if_index> <LINE>]

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
description	Interface specific description
__readonly__	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>if_index</i>	(Optional) Interface
<i>LINE</i>	(Optional) Description

Command Mode

- /exec

show interface description

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

Syntax Description

show	Show running system information
interface	Show interface status and information
description	Show interface description
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

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

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_mgmt_loop</i>	Enter interface type and number in module/slot format
description	Show interface description
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

```
show interface <ifid_eth> description [ __readonly__ TABLE_interface <interface> [ <state> ] [ <type> ] [ <speed> ] [ <protocol> ] [ <desc> ] ]
```

Syntax Description

<code>show</code>	Show running system information
<code>interface</code>	Show interface status and information
<i>ifid_eth</i>	Enter interface type and number in module/slot format
<code>description</code>	Show interface description
<code>__readonly__</code>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<code>TABLE_interface</code>	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>type</i>	(Optional) Type
<i>speed</i>	(Optional) Speed
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

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

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_desc</i>	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface description

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

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>state</i>	(Optional) Interface state
<i>protocol</i>	(Optional) Protocol
<i>desc</i>	(Optional) Description

Command Mode

- /exec

show interface detail-counters

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

Syntax Description

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

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

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

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

Command Mode

- /exec

show interface fcoe

```
show interface <ifeth_fcoe> fcoe [ __readonly__ TABLE_interface <interface> [ <state> ] [ <vfc> ] [ <vfc_bound> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_fcoe</i>	Enter interface type and number in module/slot format
fcoe	Show interface fcoe information
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>state</i>	(Optional) State of interface
<i>vfc</i>	(Optional) VFC
<i>vfc_bound</i>	(Optional) Binding information

Command Mode

- /exec

show interface fec

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

Syntax Description

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

Command Mode

- /exec

show interface flowcontrol

```
show interface <ifeth_fl_ctrl> flowcontrol [ __readonly__ TABLE_interface <interface> <send_admin>
<send_oper> <recv_admin> <recv_oper> <rxpause> <txpause> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_fl_ctrl</i>	Enter interface type and number in module/slot format
flowcontrol	Show interface flowcontrol information
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>send_admin</i>	(Optional) Send flowcontrol admin
<i>send_oper</i>	(Optional) Send flowcontrol oper
<i>recv_admin</i>	(Optional) Receive flowcontrol admin
<i>recv_oper</i>	(Optional) Receive flowcontrol oper
<i>rxpause</i>	(Optional) RxPause
<i>txpause</i>	(Optional) TxPause

Command Mode

- /exec

show interface flowcontrol

```
show interface flowcontrol [ module <module> ] [ __readonly__ TABLE_interface <interface> <send_admin>
<send_oper> <recv_admin> <recv_oper> <rxpause> <txpause> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
flowcontrol	Show interface flowcontrol information
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>send_admin</i>	(Optional) Send flowcontrol admin
<i>send_oper</i>	(Optional) Send flowcontrol oper
<i>recv_admin</i>	(Optional) Receive flowcontrol admin
<i>recv_oper</i>	(Optional) Receive flowcontrol oper
<i>rxpause</i>	(Optional) RxPause
<i>txpause</i>	(Optional) TxPause

Command Mode

- /exec

show interface hardware-mappings

show interface hardware-mappings [json]

Syntax Description

show	Show running system information
interface	Interface
hardware-mappings	Show hardware port number and unit information for interfaces
json	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

Command Mode

- /exec

show interface mac-address

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

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_macaddr</i>	Enter interface type and number in module/slot format
mac-address	Show interface MAC address
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>address</i>	(Optional) MAC Address
<i>bia_address</i>	(Optional) Burn-In MAC Address

Command Mode

- /exec

show interface mac-address

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

Syntax Description

show	Show running system information
interface	Show interface status and information
mac-address	Show interface MAC address
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>address</i>	(Optional) MAC Address
<i>bia_address</i>	(Optional) Burn-In MAC Address

Command Mode

- /exec

show interface priority-flow-control

```
show interface [ <if_list> ] priority-flow-control [ detail ] [ module <module> ] [ __readonly__ [
TABLE_pfc_interface <if_name_str> <admin> <oper> [ <oper_vl_bmap> ] [ <cos-list> ] <rx-stats> <tx-stats>
[ <rx_ppp_cos_0> ] [ <rx_ppp_cos_1> ] [ <rx_ppp_cos_2> ] [ <rx_ppp_cos_3> ] [ <rx_ppp_cos_4> ] [
<rx_ppp_cos_5> ] [ <rx_ppp_cos_6> ] [ <rx_ppp_cos_7> ] [ <tx_ppp_cos_0> ] [ <tx_ppp_cos_1> ] [
<tx_ppp_cos_2> ] [ <tx_ppp_cos_3> ] [ <tx_ppp_cos_4> ] [ <tx_ppp_cos_5> ] [ <tx_ppp_cos_6> ] [
<tx_ppp_cos_7> ] ] ]
```

Syntax Description

show	commands to display
interface	Interface for displaying pfc information
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
priority-flow-control	Show interface PFC information
detail	(Optional) Show detailed per priority Tx/Rx PFC statistics
<i>__readonly__</i>	(Optional)
<i>if_name_str</i>	(Optional) interface name
TABLE_pfc_interface	(Optional) PFC information of an interface
<i>admin</i>	(Optional) PFC admin
<i>oper</i>	(Optional) PFC oper
<i>oper_vl_bmap</i>	(Optional) vl bitmap value
<i>cos-list</i>	(Optional) List of class-of-service values

Command Mode

- /exec

show interface private-vlan mapping

```
show interface [ <if> ] private-vlan mapping [ __readonly__ [ <output-filtered> ] [ { TABLE_interf_mapp
<interface-id> [ <secondary-vlan> + ] [ <pvlan-type> } } ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>if</i>	(Optional) Vlan Interface number
private-vlan	Show interface private vlan information
mapping	Show interface private vlan information
<i>__readonly__</i>	(Optional) Read Only
<i>output-filtered</i>	(Optional) the output is filtered for specified ifs
TABLE_interf_mapp	(Optional) Pvlan interface mapping table
<i>interface-id</i>	(Optional) Interface
<i>secondary-vlan</i>	(Optional) Secondary Vlan
<i>pvlan-type</i>	(Optional) PVLAN Type

Command Mode

- /exec

show interface pruning

```
show interface pruning [ __readonly__ <start> { TABLE_interface_pruning1 <if_index1> <rx_join> } {
TABLE_interface_pruning2 <if_index2> <cur_join> } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
pruning	Show interface trunk VTP pruning information
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
TABLE_interface_pruning1	(Optional) Interface pruning information in table format
<i>if_index1</i>	(Optional) Trunk
<i>rx_join</i>	(Optional) Vlans pruned for lack of request by neighbor
TABLE_interface_pruning2	(Optional) Interface pruning information in table format
<i>if_index2</i>	(Optional) Trunk
<i>cur_join</i>	(Optional) Vlan traffic requested of neighbor

Command Mode

- /exec

show interface queuing-drop history brief

```
show interface [ <ifindex> ] queuing-drop history brief <type> [ __readonly__
<show-interface-queuing-drop-history-brief-start> <show-hdr> <show-timestamp> <tbl-data> <show-cr>
<show-end> ]
```

Syntax Description

show	Show running system information
interface	Show interface interface
<i>ifindex</i>	(Optional) Enter interface type and number in module/slot format
queuing-drop	Show interface queuing-drop
history	Show interface queuing-drop history
brief	Show interface queuing-drop history brief
<i>type</i>	Show interface queuing-drop history detail type
__readonly__	(Optional) Read Only
<i>show-interface-queuing-drop-history-brief-start</i>	(Optional) show interface queuing-drop hist brief
<i>show-hdr</i>	(Optional) Show header
<i>show-timestamp</i>	(Optional) Show timestamp
<i>tbl-data</i>	(Optional) Show table data
<i>show-cr</i>	(Optional) Show carriage return
<i>show-end</i>	(Optional) Show end marker

Command Mode

- /exec

show interface queuing-drop history detail

```
show interface <ifindex> queuing-drop history detail <type> [ __readonly__
<show-interface-queuing-drop-history-detail-start> <show-hdr> <show-timestamp> <show-portnum> <tbl-data>
<show-cr> <show-end> ]
```

Syntax Description

show	Show running system information
interface	Show interface interface
<i>ifindex</i>	Enter interface type and number in module/slot format
queuing-drop	Show interface queuing-drop
history	Show interface queuing-drop history
detail	Show interface queuing-drop history detail
<i>type</i>	Show interface queuing-drop history detail type
<i>__readonly__</i>	(Optional) Read Only
<i>show-interface-queuing-drop-history-detail-start</i>	(Optional) show interface queuing-drop hist detail
<i>show-hdr</i>	(Optional) Show header
<i>show-timestamp</i>	(Optional) Show timestamp
<i>show-portnum</i>	(Optional) Show portnum
<i>tbl-data</i>	(Optional) Show table data
<i>show-cr</i>	(Optional) Show carriage return
<i>show-end</i>	(Optional) Show end marker

Command Mode

- /exec

show interface server-info interface

```
show interface server-info interface { all | <ifname> } [ __readonly__ TABLE_server_info <server_type> <port> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
server-info	Show all SERVER ports
interface	interface
all	all interfaces
<i>ifname</i>	Interface name
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_server_info</i>	(Optional) Discovered server fabric ports
<i>server_type</i>	(Optional) Server Type
<i>port</i>	(Optional) Port

Command Mode

- /exec

show interface snmp-ifindex

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

Syntax Description

show	Show running system information
interface	Show interface status and information
snmp-ifindex	Show snmp ifindex list
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>ifindex-hex</i>	(Optional) If Index in Hex
<i>snmp-ifindex</i>	(Optional) If Index in Dec

Command Mode

- /exec

show interface status

```
show interface <iftun_status> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name>
<state> <state_rsn> <state_rsn_desc> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>iftun_status</i>	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status

```
show interface <ifid> status [ __readonly__ <start> <if_index> <admin-state> <line-proto> ]
```

Syntax Description

<code>show</code>	Show running system information
<code>interface</code>	Show interface status and information
<i>ifid</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<code>status</code>	Interface status
<code>__readonly__</code>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>if_index</i>	(Optional) Interface
<i>admin-state</i>	(Optional)
<i>line-proto</i>	(Optional)

Command Mode

- /exec

show interface status

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

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
down	(Optional) Show interface down state
inactive	(Optional) Show interface inactive state
auto-column	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
up	(Optional) Show interface up state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_san</i>	(Optional) SAN Port State
<i>vlan</i>	(Optional) Vlan
<i>vsan</i>	(Optional) Vsan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type
<i>state_reason</i>	(Optional) Interface state reason
<i>bind_info</i>	(Optional) bind interface
<i>bind_type</i>	(Optional) bind type
<i>bind_mac</i>	(Optional) bind mac

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

Command Mode

- /exec

show interface status

```
show interface <ifid_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [
<vlan> ] [ <duplex> ] [ <speed> ] [ <type> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_status</i>	Enter interface type and number in module/slot format
status	Show interface line status
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>vlan</i>	(Optional) Vlan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

Command Mode

- /exec

show interface status

```
show interface <ifeth_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [
<vlan> ] <duplex> <speed> [ <type> ] ]
```

Syntax Description

<code>show</code>	Show running system information
<code>interface</code>	Show interface status and information
<i>ifeth_status</i>	Enter interface type and number in module/slot format
<code>status</code>	Show interface line status
<code>__readonly__</code>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<code>TABLE_interface</code>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>vlan</i>	(Optional) Vlan
<i>duplex</i>	(Optional) Duplex
<i>speed</i>	(Optional) Speed
<i>type</i>	(Optional) Type

Command Mode

- /exec

show interface status

```
show interface <ifrange> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name> <state>
[ <state_rsn> ] [ <state_rsn_desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status

```
show interface <ifrange> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name> <state>
<state_rsn> <state_rsn_desc> <admin_state> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifrange</i>	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed
<i>admin_state</i>	(Optional) admin state

Command Mode

- /exec

show interface status err-disabled

```
show interface <ifeth_errdis> status err-disabled [ __readonly__ TABLE_interface <interface> [ <name> ]
<state> [ <state_rsn> ] [ <state_rsn_desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
<i>ifeth_errdis</i>	Enter interface type and number in module/slot format
err-disabled	Show interface error disabled state
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status err-disabled

```
show interface status err-disabled [ __readonly__ TABLE_interface <interface> [ <name> ] <state> [
<state_rsn> ] [ <state_rsn_desc> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
err-disabled	Show interface error disabled state
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>state</i>	(Optional) Interface state
<i>state_rsn</i>	(Optional) Interface state reason
<i>state_rsn_desc</i>	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status err-vlans

```
show interface <ifeth_errvlans> status err-vlans [ __readonly__ TABLE_interface <interface> [ <name> ] [
{ TABLE_vlan [ <err_vlan> ] [ <err_vlan_status> ] [ <err_vlan_syserr> } } ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_errvlans</i>	Enter interface type and number in module/slot format
status	Show interface line status
err-vlans	Show errored vlans
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>TABLE_vlan</i>	(Optional) show vlan
<i>err_vlan</i>	(Optional) Errored vlan
<i>err_vlan_status</i>	(Optional) Errored vlan status
<i>err_vlan_syserr</i>	(Optional) Errored vlan syserr name

Command Mode

- /exec

show interface status err-vlans

```
show interface status err-vlans [ __readonly__ TABLE_interface <interface> [ <name> ] { TABLE_vlan
<err_vlan> <err_vlan_status> <err_vlan_syserr> } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
err-vlans	Show errored vlans
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(Optional) show interface
<i>name</i>	(Optional) Name
<i>TABLE_vlan</i>	(Optional) show vlan
<i>err_vlan</i>	(Optional) Errored vlan
<i>err_vlan_status</i>	(Optional) Errored vlan status
<i>err_vlan_syserr</i>	(Optional) Errored vlan syserr name

Command Mode

- /exec

show interface storm-control multi-threshold

```
show interface storm-control multi-threshold [ __readonly__ TABLE_interface <interface> <eth_ucast_level1>
<eth_ucast_level2> <eth_mcast_level1> <eth_mcast_level2> <eth_bcast_level1> <eth_bcast_level2>
<supp_action1> <supp_action2> ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
storm-control	Show interface storm-control counters
multi-threshold	multi-level storm control
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>eth_ucast_level1</i>	(Optional) Unicast suppression percentage level 1
<i>eth_ucast_level2</i>	(Optional) Unicast suppression percentage level 2
<i>eth_mcast_level1</i>	(Optional) Multicast suppression percentage level 1
<i>eth_mcast_level2</i>	(Optional) Multicast suppression percentage level 2
<i>eth_bcast_level1</i>	(Optional) Broadcast suppression percentage level 1
<i>eth_bcast_level2</i>	(Optional) Broadcast suppression percentage level 2
<i>supp_action1</i>	(Optional) Action to be taken on suppression level 1
<i>supp_action2</i>	(Optional) Action to be taken on suppression level 2

Command Mode

- /exec

show interface switchport

```
show interface <ifeth_swth> switchport [ __readonly__ TABLE_interface <interface> <switchport> [
<switchport_monitor> ] [ <switchport_isolated> ] [ <switchport_block_multicast> ] [
<switchport_block_unicast> ] [ <mac_address_static_only> ] [ <mac_learning> ] [ <oper_mode> ] [
<access_vlan> ] [ <access_vlan_name> ] [ <native_vlan> ] [ <native_vlan_name> ] [ <trunk_vlans> ] [
<fabricpath_topologies> ] [ <pruning_vlans> ] [ <voice_vlan> ] [ <voice_vlan_name> ] [ <extended_trust>
] [ <extended_trust_name> ] [ <admin_pvlan_pri_assoc> ] [ <admin_pvlan_sec_assoc> ] [
<admin_pvlan_pri_mapping> ] [ <admin_pvlan_sec_mapping> ] [ <admin_pvlan_trunk_native> ] [
<admin_pvlan_trunk_encap> ] [ <admin_pvlan_trunk_normal> ] [ <admin_pvlan_trunk_private> ] [
<oper_pvlan> ] [ <autostate_mode> ] [ <encap_vlan> ] [ <provider_vlan> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_swth</i>	Enter interface type and number in module/slot format
switchport	Show interface switchport information
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_interface</i>	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>switchport</i>	(Optional) Switchport enabled
<i>switchport_monitor</i>	(Optional) Switchport monitor enabled
<i>switchport_isolated</i>	(Optional) Switchport isolated enabled
<i>switchport_block_multicast</i>	(Optional) Switchport monitor enabled
<i>switchport_block_unicast</i>	(Optional) Switchport monitor enabled
<i>mac_address_static_only</i>	(Optional) Static mac-address only enabled/disabled
<i>mac_learning</i>	(Optional) Mac learning enabled/disabled
<i>oper_mode</i>	(Optional) Operational mode
<i>access_vlan</i>	(Optional) Access mode VLAN
<i>access_vlan_name</i>	(Optional) Access mode VLAN name
<i>native_vlan</i>	(Optional) Trunking native mode VLAN
<i>native_vlan_name</i>	(Optional) Trunking native mode VLAN name
<i>trunk_vlans</i>	(Optional) Trunking VLANs Allowed

<i>fabricpath_topologies</i>	(Optional) FabricPath Topologies Allowed
<i>pruning_vlans</i>	(Optional) Pruning eligible VLANs
<i>voice_vlan</i>	(Optional) Voice VLAN
<i>voice_vlan_name</i>	(Optional) Voice VLAN name
<i>extended_trust</i>	(Optional) Extended Trust
<i>extended_trust_name</i>	(Optional) Extended Trust name
<i>admin_pvlan_pri_assoc</i>	(Optional) Administrative private-vlan primary host-association
<i>admin_pvlan_sec_assoc</i>	(Optional) Administrative private-vlan secondary host-association
<i>admin_pvlan_pri_mapping</i>	(Optional) Administrative private-vlan primary mapping
<i>admin_pvlan_sec_mapping</i>	(Optional) Administrative private-vlan secondary mapping
<i>admin_pvlan_trunk_native</i>	(Optional) Administrative private-vlan trunk native VLAN
<i>admin_pvlan_trunk_encap</i>	(Optional) Administrative private-vlan trunk encapsulation
<i>admin_pvlan_trunk_normal</i>	(Optional) Administrative private-vlan trunk normal VLANs
<i>admin_pvlan_trunk_private</i>	(Optional) Administrative private-vlan trunk private VLANs
<i>oper_pvlan</i>	(Optional) Operational private-vlan
<i>autostate_mode</i>	(Optional) SVI Autostate Exclude Info
<i>encap_vlan</i>	(Optional) L2 sub-interface dot1q VLAN
<i>provider_vlan</i>	(Optional) L2 sub-interface provider VLAN

Command Mode

- /exec

show interface switchport

```
show interface switchport [ __readonly__ TABLE_interface <interface> <switchport> [ <switchport_monitor>
] [ <switchport_isolated> ] [ <switchport_block_multicast> ] [ <switchport_block_unicast> ] [
<mac_address_static_only> ] [ <mac_learning> ] [ <oper_mode> ] [ <access_vlan> ] [ <access_vlan_name>
] [ <native_vlan> ] [ <native_vlan_name> ] [ <trunk_vlans> ] [ <fabricpath_topologies> ] [ <pruning_vlans>
] [ <voice_vlan> ] [ <voice_vlan_name> ] [ <extended_trust> ] [ <extended_trust_name> ] [
<admin_pvlan_pri_assoc> ] [ <admin_pvlan_sec_assoc> ] [ <admin_pvlan_pri_mapping> ] [
<admin_pvlan_sec_mapping> ] [ <admin_pvlan_trunk_native> ] [ <admin_pvlan_trunk_encap> ] [
<admin_pvlan_trunk_normal> ] [ <admin_pvlan_trunk_private> ] [ <oper_pvlan> ] [ <autostate_mode> ] [
<encap_vlan> ] [ <provider_vlan> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
switchport	Show interface switchport information
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>switchport</i>	(Optional) Switchport enabled
<i>switchport_monitor</i>	(Optional) Switchport monitor enabled
<i>switchport_isolated</i>	(Optional) Switchport isolated enabled
<i>mac_address_static_only</i>	(Optional) Static mac-address only enabled/disabled
<i>mac_learning</i>	(Optional) Mac learning enabled/disabled
<i>switchport_block_multicast</i>	(Optional) Switchport monitor enabled
<i>switchport_block_unicast</i>	(Optional) Switchport monitor enabled
<i>oper_mode</i>	(Optional) Operational mode
<i>access_vlan</i>	(Optional) Access mode VLAN
<i>access_vlan_name</i>	(Optional) Access mode VLAN name
<i>native_vlan</i>	(Optional) Trunking native mode VLAN
<i>native_vlan_name</i>	(Optional) Trunking native mode VLAN name
<i>trunk_vlans</i>	(Optional) Trunking VLANs Allowed
<i>fabricpath_topologies</i>	(Optional) FabricPath Topologies Allowed

<i>pruning_vlans</i>	(Optional) Pruning eligible VLANs
<i>voice_vlan</i>	(Optional) Voice VLAN
<i>voice_vlan_name</i>	(Optional) Voice VLAN name
<i>extended_trust</i>	(Optional) Extended Trust
<i>extended_trust_name</i>	(Optional) Extended Trust name
<i>admin_pvlan_pri_assoc</i>	(Optional) Administrative private-vlan primary host-association
<i>admin_pvlan_sec_assoc</i>	(Optional) Administrative private-vlan secondary host-association
<i>admin_pvlan_pri_mapping</i>	(Optional) Administrative private-vlan primary mapping
<i>admin_pvlan_sec_mapping</i>	(Optional) Administrative private-vlan secondary mapping
<i>admin_pvlan_trunk_native</i>	(Optional) Administrative private-vlan trunk native VLAN
<i>admin_pvlan_trunk_encap</i>	(Optional) Administrative private-vlan trunk encapsulation
<i>admin_pvlan_trunk_normal</i>	(Optional) Administrative private-vlan trunk normal VLANs
<i>admin_pvlan_trunk_private</i>	(Optional) Administrative private-vlan trunk private VLANs
<i>oper_pvlan</i>	(Optional) Operational private-vlan
<i>autostate_mode</i>	(Optional) SVI Autostate Exclude Info
<i>encap_vlan</i>	(Optional) L2 sub-interface dot1q VLAN
<i>provider_vlan</i>	(Optional) L2 sub-interface provider VLAN

Command Mode

- /exec

show interface switchport backup

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

Syntax Description

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

Command Mode

show interface switchport backup

- /exec

show interface transceiver

```

show interface <ifid_transceiver> transceiver [ calibrations | details | sprom ] [ __readonly__ TABLE_interface
<interface> [ <sfp> ] [ <qsfp_or_cfp> ] [ <type> ] [ <name> ] [ <partnum> ] [ <rev> ] [ <serialnum> ] [
<nom_bitrate> ] [ <len_9> ] [ <len_9_2> ] [ <len_50> ] [ <len_625> ] [ <len_cu> ] [ <len_50_OM3> ] [
<txcvr_type> ] [ <connector_type> ] [ <bit_encoding> ] [ <protocol_type> ] [ <10gbe_code> ] [
<fiber_type_byte0> ] [ <fiber_type_byte1> ] [ <tx_range> ] [ <cable_type> ] [ <ciscoid> ] [ <ciscoid_1> ] [
<cisco_part_number> ] [ <cisco_product_id> ] [ <cisco_version_id> ] [ <cisco_vendor_id> ] [
<firmware_version> ] [ <length_smf> ] [ <length_om5> ] [ <length_om4> ] [ <length_om3> ] [ <length_om2> ]
] [ <wave_length> ] [ <wave_len_tolerance> ] [ <host_lane_count> ] [ <med_lane_count> ] [ <max_mod_temp> ]
] [ <min_mod_temp> ] [ <min_op_volt> ] [ <vendor_oui> ] [ <date_code> ] [ <clei_code> ] [ <power_class> ]
] [ <max_power> ] [ <cable_attenuation> ] [ <near_end_lanes> ] [ <far_end_lanes> ] [ <media_interface> ]
] [ <adv_code> ] [ <host_elt_intf_code> ] [ <med_intf_adv_code> ] [ <cable_length> ] [ <cmis_version> ] [
<identifier> ] [ <ext_identifier> ] [ <connector> ] [ <infiniband_compliance_code> ] [
<sonet_compliance_code> ] [ <gigabit_ethernet_compliance_code> ] [ <fibre_chan_link_length> ] [
<fibre_chan_trans_technology> ] [ <fibre_chan_trans_tech_reserved> ] [ <fibre_chan_transmission_media> ]
] [ <fibre_chan_speed> ] [ <encoding> ] [ <br_nominal> ] [ <reserved1> ] [ <length_om1> ] [ <length_9u_1> ]
] [ <length_9u_2> ] [ <length_50u> ] [ <length_60u> ] [ <length_copper> ] [ <reserved3> ] [ <vendor_part_no> ]
] [ <vendor_revision> ] [ <reserved4> ] [ <check_code_id> ] [ <options> ] [ <br_max> ] [ <br_min> ] [
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<sff8472compliance> ] [ <check_code_ext> ] [ <vendor_specific_data_id_data> ] [ <sfp_calibration_internal> ]
] [ <sfp_calibration_invalid> ] [ <info_not_available> ] [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ]
] [ <volt_offset> ] [ <curr_slope> ] [ <curr_offset> ] [ <tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ]
] [ <rx_pwr_3> ] [ <rx_pwr_2> ] [ <rx_pwr_1> ] [ <rx_pwr_0> ] [ TABLE_lane [ <lane_number> ] [
<temperature> ] [ <temp_flag> ] [ <temp_alm_hi> ] [ <temp_alm_lo> ] [ <temp_warn_hi> ] [
<temp_warn_lo> ] [ <voltage> ] [ <volt_flag> ] [ <volt_alm_hi> ] [ <volt_alm_lo> ] [ <volt_warn_hi> ] [
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<current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [ <tx_pwr_flag> ] [ <tx_pwr_alm_hi> ] [
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] [ <pam_alm_hi> ] [ <pam_alm_lo> ] [ <pam_warn_hi> ] [ <pam_warn_lo> ] [ <pre_fec_ber> ] [
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<tec_current_warn_lo> ] [ <laser_freq> ] [ <laser_freq_flag> ] [ <laser_freq_alm_hi> ] [ <laser_freq_alm_lo> ]
] [ <laser_freq_warn_hi> ] [ <laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [
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<pre_fec_ber_acc> ] [ <pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alm_hi> ] [ <pre_fec_ber_acc_alm_lo> ]
] [ <pre_fec_ber_acc_warn_hi> ] [ <pre_fec_ber_acc_warn_lo> ] [ <pre_fec_ber_min> ] [
<pre_fec_ber_min_flag> ] [ <pre_fec_ber_min_alm_hi> ] [ <pre_fec_ber_min_alm_lo> ] [
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<pre_fec_ber_max_warn_hi> ] [ <pre_fec_ber_max_warn_lo> ] [ <pre_fec_ber_cur> ] [
<pre_fec_ber_cur_flag> ] [ <pre_fec_ber_cur_alm_hi> ] [ <pre_fec_ber_cur_alm_lo> ] [
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<uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [ <uncorrect_ber_min> ] [

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<uncorrect_ber_min_flag> ][ <uncorrect_ber_min_alarm_hi> ][ <uncorrect_ber_min_alarm_lo> ][
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<uncorrect_ber_cur_flag> ][ <uncorrect_ber_cur_alarm_hi> ][ <uncorrect_ber_cur_alarm_lo> ][
<uncorrect_ber_cur_warn_hi> ][ <uncorrect_ber_cur_warn_lo> ] ] ] ]

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Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_transceiver</i>	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
sprom	(Optional) Show interface transceiver sprom information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>qsfp_or_cfp</i>	(Optional) qsfp_or_cfp
<i>type</i>	(Optional) type
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in Mbits/sec
<i>len_9</i>	(Optional) Link length supported for 9/125um fiber in Km
<i>len_9_2</i>	(Optional) Link length supported for 9/125um fiber in m
<i>len_50</i>	(Optional) Link length supported for 50/125um fiber in m
<i>len_625</i>	(Optional) Link length supported for 62.5/125um fiber in m
<i>len_cu</i>	(Optional) Link length supported for copper sfp in m
<i>len_50_OM3</i>	(Optional) Link length supported for 50/125um fiber in m

<i>txcvr_type</i>	(Optional)
<i>connector_type</i>	(Optional)
<i>bit_encoding</i>	(Optional)
<i>protocol_type</i>	(Optional)
<i>10gbe_code</i>	(Optional)
<i>fiber_type_byte0</i>	(Optional)
<i>fiber_type_byte1</i>	(Optional)
<i>tx_range</i>	(Optional)
<i>cable_type</i>	(Optional)
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>cisco_part_number</i>	(Optional) Cisco part number
<i>cisco_product_id</i>	(Optional) Cisco product identifier
<i>cisco_version_id</i>	(Optional) Cisco version identifier
<i>cisco_vendor_id</i>	(Optional) Cisco vendor identifier
<i>firmware_version</i>	(Optional) Firmware version
<i>length_smf</i>	(Optional) Length_SMF
<i>length_om5</i>	(Optional) Length_OM5
<i>length_om4</i>	(Optional) Length_OM4
<i>length_om3</i>	(Optional) Length_OM3
<i>length_om2</i>	(Optional) Length_OM2
<i>wave_length</i>	(Optional) Nominal transmitter output wavelength
<i>wave_len_tolerance</i>	(Optional) Wavelength tolerance
<i>host_lane_count</i>	(Optional) Host Lane Count
<i>med_lane_count</i>	(Optional) Media Lane Count
<i>max_mod_temp</i>	(Optional) Maximum Module Temperature
<i>min_mod_temp</i>	(Optional) Minimum Module Temperature
<i>min_op_volt</i>	(Optional) Minimum Operating Voltage
<i>vendor_oui</i>	(Optional) 3-octet canonical vendor IEEE company ID

<i>date_code</i>	(Optional) date code and lot code
<i>clei_code</i>	(Optional) 10-character CLEI code
<i>power_class</i>	(Optional) power class
<i>max_power</i>	(Optional) maximum power consumption
<i>cable_attenuation</i>	(Optional) copper cable attenuation
<i>near_end_lanes</i>	(Optional) near end lane information
<i>far_end_lanes</i>	(Optional) far end lane information
<i>media_interface</i>	(Optional) media interface technology
<i>adv_code</i>	(Optional) Module Advertising Code
<i>host_elt_intf_code</i>	(Optional) Module Host Electrical Interfaces Code
<i>med_intf_adv_code</i>	(Optional) Media Interface Advertising Code
<i>cable_length</i>	(Optional) Cable Assembly Length
<i>cmis_version</i>	(Optional) CMIS version
<i>identifier</i>	(Optional) SFP Identifier
<i>ext_identifier</i>	(Optional) SFP Ext Identifier
<i>connector</i>	(Optional) SFP connector
<i>infiniband_compliance_code</i>	(Optional) SFP Infiniband Compliance Code
<i>sonet_compliance_code</i>	(Optional) Sonet Compliance Code
<i>gigabit_ethernet_compliance_code</i>	(Optional) Gigabit Ethernet Compliance Code
<i>fibre_chan_link_length</i>	(Optional) Fibre Chan Link Length
<i>fibre_chan_trans_technology</i>	(Optional) Fibre Chan Trans Technology
<i>fibre_chan_trans_tech_reserved</i>	(Optional) Fibre Chan Trans Tech Reserved
<i>fibre_chan_transmission_media</i>	(Optional) Fibre Chan Transmission Media
<i>fibre_chan_speed</i>	(Optional) Fibre Chan Speed
<i>encoding</i>	(Optional) Encoding
<i>br_nominal</i>	(Optional) BR Nominal
<i>reserved1</i>	(Optional) Reserved1
<i>length_om1</i>	(Optional) Length_OM1
<i>length_9u_1</i>	(Optional) Length_9u_1

<i>length_9u_2</i>	(Optional) Length 9u 2
<i>length_50u</i>	(Optional) Length 50u
<i>length_60u</i>	(Optional) Length 60u
<i>length_copper</i>	(Optional) Length Copper
<i>reserved3</i>	(Optional) Reserved3
<i>vendor_part_no</i>	(Optional) Vendor Part No
<i>vendor_revision</i>	(Optional) Vendor Revision
<i>reserved4</i>	(Optional) Reserved4
<i>check_code_id</i>	(Optional) Check Code ID
<i>options</i>	(Optional) Options
<i>br_max</i>	(Optional) BR max
<i>br_min</i>	(Optional) BR min
<i>vendor_serial_no</i>	(Optional) Vendor Serial No
<i>data_code</i>	(Optional) Data code
<i>diagnostic_monitoring_type</i>	(Optional) Diagnostic Monitoring Type
<i>enhanced_options</i>	(Optional) Enhanced Options
<i>sff8472compliance</i>	(Optional) SFF8472Compliance
<i>check_code_ext</i>	(Optional) Check code ext
<i>vendor_specific_data_id_data</i>	(Optional) Vendor Specific Data Id Data
<i>sfp_calibration_internal</i>	(Optional) Checking whether sfp is internally calibrated
<i>sfp_calibration_invalid</i>	(Optional) Checking whether spf calibration is invalid
<i>info_not_available</i>	(Optional) Info not available
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope

<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0
TABLE_lane	(Optional) show lane
<i>lane_number</i>	(Optional) Lane number
<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_alrm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alrm_lo</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi</i>	(Optional) Temperature Warning High
<i>temp_warn_lo</i>	(Optional) Temperature Warning Low
<i>voltage</i>	(Optional) Voltage
<i>volt_flag</i>	(Optional) Voltage Flag
<i>volt_alrm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alrm_lo</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi</i>	(Optional) Voltage Warning High
<i>volt_warn_lo</i>	(Optional) Voltage Warning Low
<i>current</i>	(Optional) Current
<i>current_flag</i>	(Optional) Current Flag
<i>current_alrm_hi</i>	(Optional) Current Alarm High
<i>current_alrm_lo</i>	(Optional) Current Alarm Low
<i>current_warn_hi</i>	(Optional) Current Warning High
<i>current_warn_lo</i>	(Optional) Current Warning Low
<i>tx_pwr</i>	(Optional) Tx Power
<i>tx_pwr_flag</i>	(Optional) Tx Power Flag
<i>tx_pwr_alrm_hi</i>	(Optional) Tx Power Alarm High

<i>tx_pwr_alm_lo</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo</i>	(Optional) Tx Power Warning Low
<i>rx_pwr</i>	(Optional) Rx Power
<i>rx_pwr_flag</i>	(Optional) Rx Power Flag
<i>rx_pwr_alm_hi</i>	(Optional) Rx Power Alarm High
<i>rx_pwr_alm_lo</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi</i>	(Optional) Rx Power Warning High
<i>rx_pwr_warn_lo</i>	(Optional) Rx Power Warning Low
<i>xmit_faults</i>	(Optional) Transmit Fault Count
<i>snr</i>	(Optional) RX Signal-to-Noise Ratio (SNR)
<i>snr_flag</i>	(Optional) SNR Flag
<i>snr_alm_hi</i>	(Optional) SNR Alarm High
<i>snr_alm_lo</i>	(Optional) SNR Alarm Low
<i>snr_warn_hi</i>	(Optional) SNR Warning High
<i>snr_warn_lo</i>	(Optional) SNR Warning Low
<i>isi</i>	(Optional) Residual-Dispersion(ISI)
<i>isi_flag</i>	(Optional) ISI Flag
<i>isi_alm_hi</i>	(Optional) ISI alarm high
<i>isi_alm_lo</i>	(Optional) ISI alarm low
<i>isi_warn_hi</i>	(Optional) ISI warning high
<i>isi_warn_lo</i>	(Optional) ISI warning low
<i>pam</i>	(Optional) PAM Transition
<i>pam_flag</i>	(Optional) PAM Flag
<i>pam_alm_hi</i>	(Optional) PAM alarm high
<i>pam_alm_lo</i>	(Optional) PAM alarm low
<i>pam_warn_hi</i>	(Optional) PAM warning high
<i>pam_warn_lo</i>	(Optional) PAM warning low
<i>pre_fec_ber</i>	(Optional) Pre-FEC BER

<i>pre_fec_ber_flag</i>	(Optional) Pre-FEC BER flag
<i>pre_fec_ber_alm_hi</i>	(Optional) Pre-FEC BER alarm high
<i>pre_fec_ber_alm_lo</i>	(Optional) Pre-FEC BER alarm low
<i>pre_fec_ber_warn_hi</i>	(Optional) Pre-FEC BER warning high
<i>pre_fec_ber_warn_lo</i>	(Optional) Pre-FEC BER warning low
<i>uncorrect_ber</i>	(Optional) Uncorrected BER
<i>uncorrect_ber_flag</i>	(Optional) Uncorrected BER flag
<i>uncorrect_ber_alm_hi</i>	(Optional) Uncorrected BER alarm high
<i>uncorrect_ber_alm_lo</i>	(Optional) Uncorrected BER alarm low
<i>uncorrect_ber_warn_hi</i>	(Optional) Uncorrected BER warning high
<i>uncorrect_ber_warn_lo</i>	(Optional) Uncorrected BER warning low
<i>tec_current</i>	(Optional) TEC Current
<i>tec_current_flag</i>	(Optional) TEC Current flag
<i>tec_current_alm_hi</i>	(Optional) TEC Current Alarm High
<i>tec_current_alm_lo</i>	(Optional) TEC Current Alarm Low
<i>tec_current_warn_hi</i>	(Optional) TEC Current Warning High
<i>tec_current_warn_lo</i>	(Optional) TEC Current Warning Low
<i>laser_freq</i>	(Optional) Laser Frequency
<i>laser_freq_flag</i>	(Optional) Laser Frequency flag
<i>laser_freq_alm_hi</i>	(Optional) Laser Frequency Alarm High
<i>laser_freq_alm_lo</i>	(Optional) Laser Frequency Alarm Low
<i>laser_freq_warn_hi</i>	(Optional) Laser Frequency Warning High
<i>laser_freq_warn_lo</i>	(Optional) Laser Frequency Warning Low
<i>laser_temp</i>	(Optional) Laser Temperature
<i>laser_temp_flag</i>	(Optional) Laser Temperature flag
<i>laser_temp_alm_hi</i>	(Optional) Laser Temperature Alarm High
<i>laser_temp_alm_lo</i>	(Optional) Laser Temperature Alarm Low
<i>laser_temp_warn_hi</i>	(Optional) Laser Temperature Warning High
<i>laser_temp_warn_lo</i>	(Optional) Laser Temperature Warning Low

<i>pre_fec_ber_acc</i>	(Optional) Pre-FEC BER Acc
<i>pre_fec_ber_acc_flag</i>	(Optional) Pre-FEC BER Acc flag
<i>pre_fec_ber_acc_alm_hi</i>	(Optional) Pre-FEC BER Acc alarm high
<i>pre_fec_ber_acc_alm_lo</i>	(Optional) Pre-FEC BER Acc alarm low
<i>pre_fec_ber_acc_warn_hi</i>	(Optional) Pre-FEC BER Acc warning high
<i>pre_fec_ber_acc_warn_lo</i>	(Optional) Pre-FEC BER Acc warning low
<i>pre_fec_ber_min</i>	(Optional) Pre-FEC BER Min
<i>pre_fec_ber_min_flag</i>	(Optional) Pre-FEC BER Min flag
<i>pre_fec_ber_min_alm_hi</i>	(Optional) Pre-FEC BER Min alarm high
<i>pre_fec_ber_min_alm_lo</i>	(Optional) Pre-FEC BER Min alarm low
<i>pre_fec_ber_min_warn_hi</i>	(Optional) Pre-FEC BER Min warning high
<i>pre_fec_ber_min_warn_lo</i>	(Optional) Pre-FEC BER Min warning low
<i>pre_fec_ber_max</i>	(Optional) Pre-FEC BER Max
<i>pre_fec_ber_max_flag</i>	(Optional) Pre-FEC BER Max flag
<i>pre_fec_ber_max_alm_hi</i>	(Optional) Pre-FEC BER Max alarm high
<i>pre_fec_ber_max_alm_lo</i>	(Optional) Pre-FEC BER Max alarm low
<i>pre_fec_ber_max_warn_hi</i>	(Optional) Pre-FEC BER Max warning high
<i>pre_fec_ber_max_warn_lo</i>	(Optional) Pre-FEC BER Max warning low
<i>pre_fec_ber_cur</i>	(Optional) Pre-FEC BER Cur
<i>pre_fec_ber_cur_flag</i>	(Optional) Pre-FEC BER Cur flag
<i>pre_fec_ber_cur_alm_hi</i>	(Optional) Pre-FEC BER Cur alarm high
<i>pre_fec_ber_cur_alm_lo</i>	(Optional) Pre-FEC BER Cur alarm low
<i>pre_fec_ber_cur_warn_hi</i>	(Optional) Pre-FEC BER Cur warning high
<i>pre_fec_ber_cur_warn_lo</i>	(Optional) Pre-FEC BER Cur warning low
<i>uncorrect_ber_acc</i>	(Optional) Uncorrected BER Acc
<i>uncorrect_ber_acc_flag</i>	(Optional) Uncorrected BER Acc flag
<i>uncorrect_ber_acc_alm_hi</i>	(Optional) Uncorrected BER Acc alarm high
<i>uncorrect_ber_acc_alm_lo</i>	(Optional) Uncorrected BER Acc alarm low
<i>uncorrect_ber_acc_warn_hi</i>	(Optional) Uncorrected BER Acc warning high

<i>uncorrect_ber_acc_warn_lo</i>	(Optional) Uncorrected BER Acc warning low
<i>uncorrect_ber_min</i>	(Optional) Uncorrected BER Min
<i>uncorrect_ber_min_flag</i>	(Optional) Uncorrected BER Min flag
<i>uncorrect_ber_min_alm_hi</i>	(Optional) Uncorrected BER Min alarm high
<i>uncorrect_ber_min_alm_lo</i>	(Optional) Uncorrected BER Min alarm low
<i>uncorrect_ber_min_warn_hi</i>	(Optional) Uncorrected BER Min warning high
<i>uncorrect_ber_min_warn_lo</i>	(Optional) Uncorrected BER Min warning low
<i>uncorrect_ber_max</i>	(Optional) Uncorrected BER Max
<i>uncorrect_ber_max_flag</i>	(Optional) Uncorrected BER Max flag
<i>uncorrect_ber_max_alm_hi</i>	(Optional) Uncorrected BER Max alarm high
<i>uncorrect_ber_max_alm_lo</i>	(Optional) Uncorrected BER Max alarm low
<i>uncorrect_ber_max_warn_hi</i>	(Optional) Uncorrected BER Max warning high
<i>uncorrect_ber_max_warn_lo</i>	(Optional) Uncorrected BER Max warning low
<i>uncorrect_ber_cur</i>	(Optional) Uncorrected BER Cur
<i>uncorrect_ber_cur_flag</i>	(Optional) Uncorrected BER Cur flag
<i>uncorrect_ber_cur_alm_hi</i>	(Optional) Uncorrected BER Cur alarm high
<i>uncorrect_ber_cur_alm_lo</i>	(Optional) Uncorrected BER Cur alarm low
<i>uncorrect_ber_cur_warn_hi</i>	(Optional) Uncorrected BER Cur warning high
<i>uncorrect_ber_cur_warn_lo</i>	(Optional) Uncorrected BER Cur warning low

Command Mode

- /exec

show interface transceiver

```
show interface <ifid_trns_fc> transceiver [ calibrations | details ] [ __readonly__ TABLE_interface
<interface_fc> [ <sfp_fc> ] [ <type_fc> ] [ <name_fc> ] [ <partnum_fc> ] [ <rev_fc> ] [ <serialnum_fc> ] [
<cisco_partnum_fc> ] [ <cisco_pid_fc> ] [ <tx_type_fc> ] [ <tx_len_fc> ] [ <tx_medium_fc> ] [ <tx_speeds_fc> ] [
<nom_bitrate_fc> ] [ <len_9_fc> ] [ <len_50_fc> ] [ <len_625_fc> ] [ <len_50_OM3_fc> ] [
<cisco_ext_id_fc> ] [ <txcvr_type_fc> ] [ <connector_type_fc> ] [ <bit_encoding_fc> ] [ <protocol_type_fc> ] [
<10gbe_code_fc> ] [ <fiber_type_byte0_fc> ] [ <fiber_type_byte1_fc> ] [ <tx_range_fc> ] [
<temp_slope_fc> ] [ <temp_offset_fc> ] [ <volt_slope_fc> ] [ <volt_offset_fc> ] [ <curr_slope_fc> ] [
<curr_offset_fc> ] [ <tx_pwr_slope_fc> ] [ <tx_pwr_offset_fc> ] [ <rx_pwr_4_fc> ] [ <rx_pwr_3_fc> ] [
<rx_pwr_2_fc> ] [ <rx_pwr_1_fc> ] [ <rx_pwr_0_fc> ] [ <temperature_fc> ] [ <temp_flag_fc> ] [
<temp_alm_hi_fc> ] [ <temp_alm_lo_fc> ] [ <temp_warn_hi_fc> ] [ <temp_warn_lo_fc> ] [ <voltage_fc> ] [
<volt_flag_fc> ] [ <volt_alm_hi_fc> ] [ <volt_alm_lo_fc> ] [ <volt_warn_hi_fc> ] [ <volt_warn_lo_fc> ] [
<current_fc> ] [ <current_flag_fc> ] [ <current_alm_hi_fc> ] [ <current_alm_lo_fc> ] [
<current_warn_hi_fc> ] [ <current_warn_lo_fc> ] [ <tx_pwr_fc> ] [ <tx_pwr_flag_fc> ] [ <tx_pwr_alm_hi_fc> ] [
<tx_pwr_alm_lo_fc> ] [ <tx_pwr_warn_hi_fc> ] [ <tx_pwr_warn_lo_fc> ] [ <rx_pwr_fc> ] [
<rx_pwr_flag_fc> ] [ <rx_pwr_alm_hi_fc> ] [ <rx_pwr_alm_lo_fc> ] [ <rx_pwr_warn_hi_fc> ] [
<rx_pwr_warn_lo_fc> ] [ <xmit_faults_fc> ] [ <sfp_calibration> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_trns_fc</i>	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
<u>__readonly__</u>	(Optional) Read Only
<i>interface_fc</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp_fc</i>	(Optional) sfp
<i>type_fc</i>	(Optional) type
<i>name_fc</i>	(Optional) Name
<i>partnum_fc</i>	(Optional) part number
<i>rev_fc</i>	(Optional) revision
<i>serialnum_fc</i>	(Optional) serial number
<i>cisco_partnum_fc</i>	(Optional) Cisco part number
<i>cisco_pid_fc</i>	(Optional) Cisco PID

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

<i>rx_pwr_1_fc</i>	(Optional) Rx power 1
<i>rx_pwr_0_fc</i>	(Optional) Rx power 0
<i>temperature_fc</i>	(Optional) Temperature
<i>temp_flag_fc</i>	(Optional) Temperature Flag
<i>temp_alrm_hi_fc</i>	(Optional) Temperature Alarm High
<i>temp_alrm_lo_fc</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi_fc</i>	(Optional) Temperature Warning High
<i>temp_warn_lo_fc</i>	(Optional) Temperature Warning Low
<i>voltage_fc</i>	(Optional) Voltage
<i>volt_flag_fc</i>	(Optional) Voltage Flag
<i>volt_alrm_hi_fc</i>	(Optional) Voltage Alarm High
<i>volt_alrm_lo_fc</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi_fc</i>	(Optional) Voltage Warning High
<i>volt_warn_lo_fc</i>	(Optional) Voltage Warning Low
<i>current_fc</i>	(Optional) Current
<i>current_flag_fc</i>	(Optional) Current Flag
<i>current_alrm_hi_fc</i>	(Optional) Current Alarm High
<i>current_alrm_lo_fc</i>	(Optional) Current Alarm Low
<i>current_warn_hi_fc</i>	(Optional) Current Warning High
<i>current_warn_lo_fc</i>	(Optional) Current Warning Low
<i>tx_pwr_fc</i>	(Optional) Tx Power
<i>tx_pwr_flag_fc</i>	(Optional) Tx Power Flag
<i>tx_pwr_alrm_hi_fc</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alrm_lo_fc</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi_fc</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo_fc</i>	(Optional) Tx Power Warning Low
<i>rx_pwr_fc</i>	(Optional) Rx Power
<i>rx_pwr_flag_fc</i>	(Optional) Rx Power Flag
<i>rx_pwr_alrm_hi_fc</i>	(Optional) Rx Power Alarm High

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

Command Mode

- /exec

show interface transceiver

```

show interface transceiver [ calibrations | details ] [ __readonly__ TABLE_interface <interface> [ <sfp> ] [
<qsfp_or_cfp> ] [ <type> ] [ <name> ] [ <partnum> ] [ <rev> ] [ <serialnum> ] [ <nom_bitrate> ] [ <len_9>
] [ <len_50> ] [ <len_625> ] [ <len_cu> ] [ <len_50_OM3> ] [ <txcvr_type> ] [ <connector_type> ] [
<bit_encoding> ] [ <protocol_type> ] [ <10gbe_code> ] [ <fiber_type_byte0> ] [ <fiber_type_byte1> ] [
<tx_type> ] [ <tx_len> ] [ <tx_medium> ] [ <tx_speeds> ] [ <tx_range> ] [ <cable_type> ] [ <ciscoid> ] [
<ciscoid_1> ] [ <cisco_part_number> ] [ <cisco_product_id> ] [ <cisco_version_id> ] [ <cisco_vendor_id>
] [ <cisco_ext_id> ] [ <firmware_version> ] [ <length_smf> ] [ <length_om5> ] [ <length_om4> ] [
<length_om3> ] [ <length_om2> ] [ <wave_length> ] [ <wave_len_tolerance> ] [ <host_lane_count> ] [
<med_lane_count> ] [ <max_mod_temp> ] [ <min_mod_temp> ] [ <min_op_volt> ] [ <vendor_oui> ] [
<date_code> ] [ <clei_code> ] [ <power_class> ] [ <max_power> ] [ <cable_attenuation> ] [ <near_end_lanes>
] [ <far_end_lanes> ] [ <media_interface> ] [ <adv_code> ] [ <host_elt_intf_code> ] [ <med_intf_adv_code>
] [ <cable_length> ] [ <cmis_version> ] [ <identifier> ] [ <ext_identifier> ] [ <connector> ] [
<infiniband_compliance_code> ] [ <sonet_compliance_code> ] [ <gigabit_ethernet_compliance_code> ] [
<fibre_chan_link_length> ] [ <fibre_chan_trans_technology> ] [ <fibre_chan_trans_tech_reserved> ] [
<fibre_chan_transmission_media> ] [ <fibre_chan_speed> ] [ <encoding> ] [ <br_nominal> ] [ <reserved1>
] [ <length_om1> ] [ <length_9u_1> ] [ <length_9u_2> ] [ <length_50u> ] [ <length_60u> ] [ <length_copper>
] [ <reserved3> ] [ <vendor_part_no> ] [ <vendor_revision> ] [ <reserved4> ] [ <check_code_id> ] [ <options>
] [ <br_max> ] [ <br_min> ] [ <vendor_serial_no> ] [ <data_code> ] [ <diagnostic_monitoring_type> ] [
<enhanced_options> ] [ <sff8472compliance> ] [ <check_code_ext> ] [ <vendor_specific_data_id_data> ] [
<sfp_calibration_internal> ] [ <sfp_calibration_invalid> ] [ <info_not_available> ] [ <temp_slope> ] [
<temp_offset> ] [ <volt_slope> ] [ <volt_offset> ] [ <curr_slope> ] [ <curr_offset> ] [ <tx_pwr_slope> ] [
<tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ] [ <rx_pwr_2> ] [ <rx_pwr_1> ] [ <rx_pwr_0> ] [
TABLE_lane [ <lane_number> ] [ <temperature> ] [ <temp_flag> ] [ <temp_alm_hi> ] [ <temp_alm_lo> ] [
<temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag> ] [ <volt_alm_hi> ] [ <volt_alm_lo>
] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag> ] [ <current_alm_hi> ] [
<current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [ <tx_pwr_flag> ] [
<tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ] [ <rx_pwr> ] [
<rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [ <rx_pwr_warn_lo> ] [
<xmit_faults> ] [ <snr> ] [ <snr_flag> ] [ <snr_alm_hi> ] [ <snr_alm_lo> ] [ <snr_warn_hi> ] [
<snr_warn_lo> ] [ <isi> ] [ <isi_flag> ] [ <isi_alm_hi> ] [ <isi_alm_lo> ] [ <isi_warn_hi> ] [ <isi_warn_lo>
] [ <pam> ] [ <pam_flag> ] [ <pam_alm_hi> ] [ <pam_alm_lo> ] [ <pam_warn_hi> ] [ <pam_warn_lo> ] [
<pre_fec_ber> ] [ <pre_fec_ber_flag> ] [ <pre_fec_ber_alm_hi> ] [ <pre_fec_ber_alm_lo> ] [
<pre_fec_ber_warn_hi> ] [ <pre_fec_ber_warn_lo> ] [ <uncorrect_ber> ] [ <uncorrect_ber_flag> ] [
<uncorrect_ber_alm_hi> ] [ <uncorrect_ber_alm_lo> ] [ <uncorrect_ber_warn_hi> ] [
<uncorrect_ber_warn_lo> ] [ <tec_current> ] [ <tec_current_flag> ] [ <tec_current_alm_hi> ] [
<tec_current_alm_lo> ] [ <tec_current_warn_hi> ] [ <tec_current_warn_lo> ] [ <laser_freq> ] [
<laser_freq_flag> ] [ <laser_freq_alm_hi> ] [ <laser_freq_alm_lo> ] [ <laser_freq_warn_hi> ] [
<laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [ <laser_temp_alm_hi> ] [
<laser_temp_alm_lo> ] [ <laser_temp_warn_hi> ] [ <laser_temp_warn_lo> ] [ <pre_fec_ber_acc> ] [
<pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alm_hi> ] [ <pre_fec_ber_acc_alm_lo> ] [
<pre_fec_ber_acc_warn_hi> ] [ <pre_fec_ber_acc_warn_lo> ] [ <pre_fec_ber_min> ] [ <pre_fec_ber_min_flag>
] [ <pre_fec_ber_min_alm_hi> ] [ <pre_fec_ber_min_alm_lo> ] [ <pre_fec_ber_min_warn_hi> ] [
<pre_fec_ber_min_warn_lo> ] [ <pre_fec_ber_max> ] [ <pre_fec_ber_max_flag> ] [
<pre_fec_ber_max_alm_hi> ] [ <pre_fec_ber_max_alm_lo> ] [ <pre_fec_ber_max_warn_hi> ] [
<pre_fec_ber_max_warn_lo> ] [ <pre_fec_ber_cur> ] [ <pre_fec_ber_cur_flag> ] [ <pre_fec_ber_cur_alm_hi>
] [ <pre_fec_ber_cur_alm_lo> ] [ <pre_fec_ber_cur_warn_hi> ] [ <pre_fec_ber_cur_warn_lo> ] [
<uncorrect_ber_acc> ] [ <uncorrect_ber_acc_flag> ] [ <uncorrect_ber_acc_alm_hi> ] [
<uncorrect_ber_acc_alm_lo> ] [ <uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [

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<uncorrect_ber_min> ][ <uncorrect_ber_min_flag> ][ <uncorrect_ber_min_alm_hi> ][
<uncorrect_ber_min_alm_lo> ][ <uncorrect_ber_min_warn_hi> ][ <uncorrect_ber_min_warn_lo> ][
<uncorrect_ber_max> ][ <uncorrect_ber_max_flag> ][ <uncorrect_ber_max_alm_hi> ][
<uncorrect_ber_max_alm_lo> ][ <uncorrect_ber_max_warn_hi> ][ <uncorrect_ber_max_warn_lo> ][
<uncorrect_ber_cur> ][ <uncorrect_ber_cur_flag> ][ <uncorrect_ber_cur_alm_hi> ][
<uncorrect_ber_cur_alm_lo> ][ <uncorrect_ber_cur_warn_hi> ][ <uncorrect_ber_cur_warn_lo> ] ] ]

```

Syntax Description

show	Show running system information
interface	Show interface status and information
transceiver	Show interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
__readonly__	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>qsfp_or_cfp</i>	(Optional) qsfp_or_cfp
<i>type</i>	(Optional) type
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_9</i>	(Optional) Link length supported for 9/125um fiber
<i>len_50</i>	(Optional) Link length supported for 50/125um fiber
<i>len_625</i>	(Optional) Link length supported for 62.5/125um fiber
<i>len_cu</i>	(Optional) Link length supported for copper
<i>len_50_OM3</i>	(Optional) Link length supported for 50/125um fiber in m
<i>txcvr_type</i>	(Optional)
<i>connector_type</i>	(Optional)
<i>bit_encoding</i>	(Optional)

<i>protocol_type</i>	(Optional)
<i>10gbe_code</i>	(Optional)
<i>fiber_type_byte0</i>	(Optional)
<i>fiber_type_byte1</i>	(Optional)
<i>tx_type</i>	(Optional) FC Transmitter type
<i>tx_len</i>	(Optional) FC Transmitter length
<i>tx_medium</i>	(Optional) FC Transmitter medium
<i>tx_speeds</i>	(Optional) Transmission speeds
<i>tx_range</i>	(Optional) Transmission range
<i>cable_type</i>	(Optional)
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>cisco_part_number</i>	(Optional) Cisco part number
<i>cisco_product_id</i>	(Optional) Cisco product identifier
<i>cisco_version_id</i>	(Optional) Cisco version identifier
<i>cisco_vendor_id</i>	(Optional) Cisco vendor identifier
<i>cisco_ext_id</i>	(Optional) Cisco extended ID
<i>firmware_version</i>	(Optional) Firmware version
<i>length_smf</i>	(Optional) Length_SMF
<i>length_om5</i>	(Optional) Length_OM5
<i>length_om4</i>	(Optional) Length_OM4
<i>length_om3</i>	(Optional) Length_OM3
<i>length_om2</i>	(Optional) Length_OM2
<i>wave_length</i>	(Optional) Nominal transmitter output wavelength
<i>wave_len_tolerance</i>	(Optional) Wavelength tolerance
<i>host_lane_count</i>	(Optional) Host Lane Count
<i>med_lane_count</i>	(Optional) Media Lane Count
<i>max_mod_temp</i>	(Optional) Maximum Module Temperature
<i>min_mod_temp</i>	(Optional) Minimum Module Temperature

<i>min_op_volt</i>	(Optional) Minimum Operating Voltage
<i>vendor_oui</i>	(Optional) 3-octet canonical vendor IEEE company ID
<i>date_code</i>	(Optional) date code and lot code
<i>clei_code</i>	(Optional) 10-character CLEI code
<i>power_class</i>	(Optional) power class
<i>max_power</i>	(Optional) maximum power consumption
<i>cable_attenuation</i>	(Optional) copper cable attenuation
<i>near_end_lanes</i>	(Optional) near end lane information
<i>far_end_lanes</i>	(Optional) far end lane information
<i>media_interface</i>	(Optional) media interface technology
<i>adv_code</i>	(Optional) Module Advertising Code
<i>host_elt_intf_code</i>	(Optional) Module Host Electrical Interfaces Code
<i>med_intf_adv_code</i>	(Optional) Media Interface Advertising Code
<i>cable_length</i>	(Optional) Cable Assembly Length
<i>cmis_version</i>	(Optional) CMIS version
<i>identifier</i>	(Optional) SFP Identifier
<i>ext_identifier</i>	(Optional) SFP Ext Identifier
<i>connector</i>	(Optional) SFP connector
<i>infiniband_compliance_code</i>	(Optional) SFP Infiniband Compliance Code
<i>sonet_compliance_code</i>	(Optional) Sonet Compliance Code
<i>gigabit_ethernet_compliance_code</i>	(Optional) Gigabit Ethernet Compliance Code
<i>fibre_chan_link_length</i>	(Optional) Fibre Chan Link Length
<i>fibre_chan_trans_technology</i>	(Optional) Fibre Chan Trans Technology
<i>fibre_chan_trans_tech_reserved</i>	(Optional) Fibre Chan Trans Tech Reserved
<i>fibre_chan_transmission_media</i>	(Optional) Fibre Chan Transmission Media
<i>fibre_chan_speed</i>	(Optional) Fibre Chan Speed
<i>encoding</i>	(Optional) Encoding
<i>br_nominal</i>	(Optional) BR Nominal
<i>reserved1</i>	(Optional) Reserved1

<i>length_om1</i>	(Optional) Length_OM1
<i>length_9u_1</i>	(Optional) Length 9u 1
<i>length_9u_2</i>	(Optional) Length 9u 2
<i>length_50u</i>	(Optional) Length 50u
<i>length_60u</i>	(Optional) Length 60u
<i>length_copper</i>	(Optional) Length Copper
<i>reserved3</i>	(Optional) Reserved3
<i>vendor_part_no</i>	(Optional) Vendor Part No
<i>vendor_revision</i>	(Optional) Vendor Revision
<i>reserved4</i>	(Optional) Reserved4
<i>check_code_id</i>	(Optional) Check Code ID
<i>options</i>	(Optional) Options
<i>br_max</i>	(Optional) BR max
<i>br_min</i>	(Optional) BR min
<i>vendor_serial_no</i>	(Optional) Vendor Serial No
<i>data_code</i>	(Optional) Data code
<i>diagnostic_monitoring_type</i>	(Optional) Diagnostic Monitoring Type
<i>enhanced_options</i>	(Optional) Enhanced Options
<i>sff8472compliance</i>	(Optional) SFF8472Compliance
<i>check_code_ext</i>	(Optional) Check code ext
<i>vendor_specific_data_id_data</i>	(Optional) Vendor Specific Data Id Data
<i>sfp_calibration_internal</i>	(Optional) Checking whether sfp is internally calibrated
<i>sfp_calibration_invalid</i>	(Optional) Checking whether sfp calibration is invalid
<i>info_not_available</i>	(Optional) No info available for this transceiver
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope
<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope

<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0
TABLE_lane	(Optional) show lane
<i>lane_number</i>	(Optional) Lane number
<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_alarm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alarm_lo</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi</i>	(Optional) Temperature Warning High
<i>temp_warn_lo</i>	(Optional) Temperature Warning Low
<i>voltage</i>	(Optional) Voltage
<i>volt_flag</i>	(Optional) Voltage Flag
<i>volt_alarm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alarm_lo</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi</i>	(Optional) Voltage Warning High
<i>volt_warn_lo</i>	(Optional) Voltage Warning Low
<i>current</i>	(Optional) Current
<i>current_flag</i>	(Optional) Current Flag
<i>current_alarm_hi</i>	(Optional) Current Alarm High
<i>current_alarm_lo</i>	(Optional) Current Alarm Low
<i>current_warn_hi</i>	(Optional) Current Warning High
<i>current_warn_lo</i>	(Optional) Current Warning Low
<i>tx_pwr</i>	(Optional) Tx Power

<i>tx_pwr_flag</i>	(Optional) Tx Power Flag
<i>tx_pwr_alarm_hi</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alarm_lo</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo</i>	(Optional) Tx Power Warning Low
<i>rx_pwr</i>	(Optional) Rx Power
<i>rx_pwr_flag</i>	(Optional) Rx Power Flag
<i>rx_pwr_alarm_hi</i>	(Optional) Rx Power Alarm High
<i>rx_pwr_alarm_lo</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi</i>	(Optional) Rx Power Warning High
<i>rx_pwr_warn_lo</i>	(Optional) Rx Power Warning Low
<i>xmit_faults</i>	(Optional) Transmit Fault Count
<i>snr</i>	(Optional) RX Signal-to-Noise Ratio (SNR)
<i>snr_flag</i>	(Optional) SNR Flag
<i>snr_alarm_hi</i>	(Optional) SNR Alarm High
<i>snr_alarm_lo</i>	(Optional) SNR Alarm Low
<i>snr_warn_hi</i>	(Optional) SNR Warning High
<i>snr_warn_lo</i>	(Optional) SNR Warning Low
<i>isi</i>	(Optional) Residual-Dispersion(ISI)
<i>isi_flag</i>	(Optional) ISI Flag
<i>isi_alarm_hi</i>	(Optional) ISI alarm high
<i>isi_alarm_lo</i>	(Optional) ISI alarm low
<i>isi_warn_hi</i>	(Optional) ISI warning high
<i>isi_warn_lo</i>	(Optional) ISI warning low
<i>pam</i>	(Optional) PAM Transition
<i>pam_flag</i>	(Optional) PAM Flag
<i>pam_alarm_hi</i>	(Optional) PAM alarm high
<i>pam_alarm_lo</i>	(Optional) PAM alarm low
<i>pam_warn_hi</i>	(Optional) PAM warning high

<i>pam_warn_lo</i>	(Optional) PAM warning low
<i>pre_fec_ber</i>	(Optional) Pre-FEC BER
<i>pre_fec_ber_flag</i>	(Optional) Pre-FEC BER flag
<i>pre_fec_ber_alm_hi</i>	(Optional) Pre-FEC BER alarm high
<i>pre_fec_ber_alm_lo</i>	(Optional) Pre-FEC BER alarm low
<i>pre_fec_ber_warn_hi</i>	(Optional) Pre-FEC BER warning high
<i>pre_fec_ber_warn_lo</i>	(Optional) Pre-FEC BER warning low
<i>uncorrect_ber</i>	(Optional) Uncorrected BER
<i>uncorrect_ber_flag</i>	(Optional) Uncorrected BER flag
<i>uncorrect_ber_alm_hi</i>	(Optional) Uncorrected BER alarm high
<i>uncorrect_ber_alm_lo</i>	(Optional) Uncorrected BER alarm low
<i>uncorrect_ber_warn_hi</i>	(Optional) Uncorrected BER warning high
<i>uncorrect_ber_warn_lo</i>	(Optional) Uncorrected BER warning low
<i>tec_current</i>	(Optional) TEC Current
<i>tec_current_flag</i>	(Optional) TEC Current flag
<i>tec_current_alm_hi</i>	(Optional) TEC Current Alarm High
<i>tec_current_alm_lo</i>	(Optional) TEC Current Alarm Low
<i>tec_current_warn_hi</i>	(Optional) TEC Current Warning High
<i>tec_current_warn_lo</i>	(Optional) TEC Current Warning Low
<i>laser_freq</i>	(Optional) Laser Frequency
<i>laser_freq_flag</i>	(Optional) Laser Frequency flag
<i>laser_freq_alm_hi</i>	(Optional) Laser Frequency Alarm High
<i>laser_freq_alm_lo</i>	(Optional) Laser Frequency Alarm Low
<i>laser_freq_warn_hi</i>	(Optional) Laser Frequency Warning High
<i>laser_freq_warn_lo</i>	(Optional) Laser Frequency Warning Low
<i>laser_temp</i>	(Optional) Laser Temperature
<i>laser_temp_flag</i>	(Optional) Laser Temperature flag
<i>laser_temp_alm_hi</i>	(Optional) Laser Temperature Alarm High
<i>laser_temp_alm_lo</i>	(Optional) Laser Temperature Alarm Low

<i>laser_temp_warn_hi</i>	(Optional) Laser Temperature Warning High
<i>laser_temp_warn_lo</i>	(Optional) Laser Temperature Warning Low
<i>pre_fec_ber_acc</i>	(Optional) Pre-FEC BER Acc
<i>pre_fec_ber_acc_flag</i>	(Optional) Pre-FEC BER Acc flag
<i>pre_fec_ber_acc_alm_hi</i>	(Optional) Pre-FEC BER Acc alarm high
<i>pre_fec_ber_acc_alm_lo</i>	(Optional) Pre-FEC BER Acc alarm low
<i>pre_fec_ber_acc_warn_hi</i>	(Optional) Pre-FEC BER Acc warning high
<i>pre_fec_ber_acc_warn_lo</i>	(Optional) Pre-FEC BER Acc warning low
<i>pre_fec_ber_min</i>	(Optional) Pre-FEC BER Min
<i>pre_fec_ber_min_flag</i>	(Optional) Pre-FEC BER Min flag
<i>pre_fec_ber_min_alm_hi</i>	(Optional) Pre-FEC BER Min alarm high
<i>pre_fec_ber_min_alm_lo</i>	(Optional) Pre-FEC BER Min alarm low
<i>pre_fec_ber_min_warn_hi</i>	(Optional) Pre-FEC BER Min warning high
<i>pre_fec_ber_min_warn_lo</i>	(Optional) Pre-FEC BER Min warning low
<i>pre_fec_ber_max</i>	(Optional) Pre-FEC BER Max
<i>pre_fec_ber_max_flag</i>	(Optional) Pre-FEC BER Max flag
<i>pre_fec_ber_max_alm_hi</i>	(Optional) Pre-FEC BER Max alarm high
<i>pre_fec_ber_max_alm_lo</i>	(Optional) Pre-FEC BER Max alarm low
<i>pre_fec_ber_max_warn_hi</i>	(Optional) Pre-FEC BER Max warning high
<i>pre_fec_ber_max_warn_lo</i>	(Optional) Pre-FEC BER Max warning low
<i>pre_fec_ber_cur</i>	(Optional) Pre-FEC BER Cur
<i>pre_fec_ber_cur_flag</i>	(Optional) Pre-FEC BER Cur flag
<i>pre_fec_ber_cur_alm_hi</i>	(Optional) Pre-FEC BER Cur alarm high
<i>pre_fec_ber_cur_alm_lo</i>	(Optional) Pre-FEC BER Cur alarm low
<i>pre_fec_ber_cur_warn_hi</i>	(Optional) Pre-FEC BER Cur warning high
<i>pre_fec_ber_cur_warn_lo</i>	(Optional) Pre-FEC BER Cur warning low
<i>uncorrect_ber_acc</i>	(Optional) Uncorrected BER Acc
<i>uncorrect_ber_acc_flag</i>	(Optional) Uncorrected BER Acc flag
<i>uncorrect_ber_acc_alm_hi</i>	(Optional) Uncorrected BER Acc alarm high

<i>uncorrect_ber_acc_alm_lo</i>	(Optional) Uncorrected BER Acc alarm low
<i>uncorrect_ber_acc_warn_hi</i>	(Optional) Uncorrected BER Acc warning high
<i>uncorrect_ber_acc_warn_lo</i>	(Optional) Uncorrected BER Acc warning low
<i>uncorrect_ber_min</i>	(Optional) Uncorrected BER Min
<i>uncorrect_ber_min_flag</i>	(Optional) Uncorrected BER Min flag
<i>uncorrect_ber_min_alm_hi</i>	(Optional) Uncorrected BER Min alarm high
<i>uncorrect_ber_min_alm_lo</i>	(Optional) Uncorrected BER Min alarm low
<i>uncorrect_ber_min_warn_hi</i>	(Optional) Uncorrected BER Min warning high
<i>uncorrect_ber_min_warn_lo</i>	(Optional) Uncorrected BER Min warning low
<i>uncorrect_ber_max</i>	(Optional) Uncorrected BER Max
<i>uncorrect_ber_max_flag</i>	(Optional) Uncorrected BER Max flag
<i>uncorrect_ber_max_alm_hi</i>	(Optional) Uncorrected BER Max alarm high
<i>uncorrect_ber_max_alm_lo</i>	(Optional) Uncorrected BER Max alarm low
<i>uncorrect_ber_max_warn_hi</i>	(Optional) Uncorrected BER Max warning high
<i>uncorrect_ber_max_warn_lo</i>	(Optional) Uncorrected BER Max warning low
<i>uncorrect_ber_cur</i>	(Optional) Uncorrected BER Cur
<i>uncorrect_ber_cur_flag</i>	(Optional) Uncorrected BER Cur flag
<i>uncorrect_ber_cur_alm_hi</i>	(Optional) Uncorrected BER Cur alarm high
<i>uncorrect_ber_cur_alm_lo</i>	(Optional) Uncorrected BER Cur alarm low
<i>uncorrect_ber_cur_warn_hi</i>	(Optional) Uncorrected BER Cur warning high
<i>uncorrect_ber_cur_warn_lo</i>	(Optional) Uncorrected BER Cur warning low

Command Mode

- /exec

show interface transceiver fex-fabric

```
show interface transceiver fex-fabric [ calibrations | details ] [ __readonly__ TABLE_interface <interface> ] [ <sfp> ] [ <type> ] [ <name> ] [ <partnum> ] [ <rev> ] [ <serialnum> ] [ <nom_bitrate> ] [ <len_50> ] [ <len_625> ] [ <len_50_OM3> ] [ <ciscoid> ] [ <ciscoid_1> ] [ <info_not_available> ] [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ] [ <volt_offset> ] [ <curr_slope> ] [ <curr_offset> ] [ <tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ] [ <rx_pwr_2> ] [ <rx_pwr_1> ] [ <rx_pwr_0> ] [ TABLE_lane [ <lane_number> ] [ <temperature> ] [ <temp_flag> ] [ <temp_alm_hi> ] [ <temp_alm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag> ] [ <volt_alm_hi> ] [ <volt_alm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag> ] [ <current_alm_hi> ] [ <current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [ <tx_pwr_flag> ] [ <tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ] [ <rx_pwr> ] [ <rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [ <rx_pwr_warn_lo> ] [ <xmit_faults> ] [ <snr> ] [ <snr_flag> ] [ <snr_alm_hi> ] [ <snr_alm_lo> ] [ <snr_warn_hi> ] [ <snr_warn_lo> ] [ <isi> ] [ <isi_flag> ] [ <isi_alm_hi> ] [ <isi_alm_lo> ] [ <isi_warn_hi> ] [ <isi_warn_lo> ] [ <pam> ] [ <pam_flag> ] [ <pam_alm_hi> ] [ <pam_alm_lo> ] [ <pam_warn_hi> ] [ <pam_warn_lo> ] [ <pre_fec_ber> ] [ <pre_fec_ber_flag> ] [ <pre_fec_ber_alm_hi> ] [ <pre_fec_ber_alm_lo> ] [ <pre_fec_ber_warn_hi> ] [ <pre_fec_ber_warn_lo> ] [ <uncorrect_ber> ] [ <uncorrect_ber_flag> ] [ <uncorrect_ber_alm_hi> ] [ <uncorrect_ber_alm_lo> ] [ <uncorrect_ber_warn_hi> ] [ <uncorrect_ber_warn_lo> ] [ <tec_current> ] [ <tec_current_flag> ] [ <tec_current_alm_hi> ] [ <tec_current_alm_lo> ] [ <tec_current_warn_hi> ] [ <tec_current_warn_lo> ] [ <laser_freq> ] [ <laser_freq_flag> ] [ <laser_freq_alm_hi> ] [ <laser_freq_alm_lo> ] [ <laser_freq_warn_hi> ] [ <laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [ <laser_temp_alm_hi> ] [ <laser_temp_alm_lo> ] [ <laser_temp_warn_hi> ] [ <laser_temp_warn_lo> ] [ <pre_fec_ber_acc> ] [ <pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alm_hi> ] [ <pre_fec_ber_acc_alm_lo> ] [ <pre_fec_ber_acc_warn_hi> ] [ <pre_fec_ber_acc_warn_lo> ] [ <pre_fec_ber_min> ] [ <pre_fec_ber_min_flag> ] [ <pre_fec_ber_min_alm_hi> ] [ <pre_fec_ber_min_alm_lo> ] [ <pre_fec_ber_min_warn_hi> ] [ <pre_fec_ber_min_warn_lo> ] [ <pre_fec_ber_max> ] [ <pre_fec_ber_max_flag> ] [ <pre_fec_ber_max_alm_hi> ] [ <pre_fec_ber_max_alm_lo> ] [ <pre_fec_ber_max_warn_hi> ] [ <pre_fec_ber_max_warn_lo> ] [ <pre_fec_ber_cur> ] [ <pre_fec_ber_cur_flag> ] [ <pre_fec_ber_cur_alm_hi> ] [ <pre_fec_ber_cur_alm_lo> ] [ <pre_fec_ber_cur_warn_hi> ] [ <pre_fec_ber_cur_warn_lo> ] [ <uncorrect_ber_acc> ] [ <uncorrect_ber_acc_flag> ] [ <uncorrect_ber_acc_alm_hi> ] [ <uncorrect_ber_acc_alm_lo> ] [ <uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [ <uncorrect_ber_min> ] [ <uncorrect_ber_min_flag> ] [ <uncorrect_ber_min_alm_hi> ] [ <uncorrect_ber_min_alm_lo> ] [ <uncorrect_ber_min_warn_hi> ] [ <uncorrect_ber_min_warn_lo> ] [ <uncorrect_ber_max> ] [ <uncorrect_ber_max_flag> ] [ <uncorrect_ber_max_alm_hi> ] [ <uncorrect_ber_max_alm_lo> ] [ <uncorrect_ber_max_warn_hi> ] [ <uncorrect_ber_max_warn_lo> ] [ <uncorrect_ber_cur> ] [ <uncorrect_ber_cur_flag> ] [ <uncorrect_ber_cur_alm_hi> ] [ <uncorrect_ber_cur_alm_lo> ] [ <uncorrect_ber_cur_warn_hi> ] [ <uncorrect_ber_cur_warn_lo> ] ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
transceiver	Show interface transceiver information
fex-fabric	Show FEX interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information

details	(Optional) Show interface transceiver detail information
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
sfp	(Optional) sfp
type	(Optional) type
name	(Optional) Name
partnum	(Optional) part number
rev	(Optional) revision
serialnum	(Optional) serial number
nom_bitrate	(Optional) Nominal bit rate in MBits/sec
len_50	(Optional) Link length supported for 50/125mm fiber
len_625	(Optional) Link length supported for 62.5/125mm fiber
len_50_OM3	(Optional) Link length supported for 50/125um fiber in m
ciscoid	(Optional) Cisco extended id
ciscoid_1	(Optional) Cisco extended id number
info_not_available	(Optional) Error case if sfp info not available
temp_slope	(Optional) Temperature slope
temp_offset	(Optional) Temperature offset
volt_slope	(Optional) Voltage slope
volt_offset	(Optional) Voltage offset
curr_slope	(Optional) Current slope
curr_offset	(Optional) Current offset
tx_pwr_slope	(Optional) Tx power slope
tx_pwr_offset	(Optional) Tx power offset
rx_pwr_4	(Optional) Rx power 4
rx_pwr_3	(Optional) Rx power 3
rx_pwr_2	(Optional) Rx power 2
rx_pwr_1	(Optional) Rx power 1

<i>rx_pwr_0</i>	(Optional) Rx power 0
TABLE_lane	(Optional) show lane
<i>lane_number</i>	(Optional) Lane number
<i>temperature</i>	(Optional) Temperature
<i>temp_flag</i>	(Optional) Temperature Flag
<i>temp_alrm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alrm_lo</i>	(Optional) Temperature Alarm Low
<i>temp_warn_hi</i>	(Optional) Temperature Warning High
<i>temp_warn_lo</i>	(Optional) Temperature Warning Low
<i>voltage</i>	(Optional) Voltage
<i>volt_flag</i>	(Optional) Voltage Flag
<i>volt_alrm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alrm_lo</i>	(Optional) Voltage Alarm Low
<i>volt_warn_hi</i>	(Optional) Voltage Warning High
<i>volt_warn_lo</i>	(Optional) Voltage Warning Low
<i>current</i>	(Optional) Current
<i>current_flag</i>	(Optional) Current Flag
<i>current_alrm_hi</i>	(Optional) Current Alarm High
<i>current_alrm_lo</i>	(Optional) Current Alarm Low
<i>current_warn_hi</i>	(Optional) Current Warning High
<i>current_warn_lo</i>	(Optional) Current Warning Low
<i>tx_pwr</i>	(Optional) Tx Power
<i>tx_pwr_flag</i>	(Optional) Tx Power Flag
<i>tx_pwr_alrm_hi</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alrm_lo</i>	(Optional) Tx Power Alarm Low
<i>tx_pwr_warn_hi</i>	(Optional) Tx Power Warning High
<i>tx_pwr_warn_lo</i>	(Optional) Tx Power Warning Low
<i>rx_pwr</i>	(Optional) Rx Power
<i>rx_pwr_flag</i>	(Optional) Rx Power Flag

<i>rx_pwr_alm_hi</i>	(Optional) Rx Power Alarm High
<i>rx_pwr_alm_lo</i>	(Optional) Rx Power Alarm Low
<i>rx_pwr_warn_hi</i>	(Optional) Rx Power Warning High
<i>rx_pwr_warn_lo</i>	(Optional) Rx Power Warning Low
<i>xmit_faults</i>	(Optional) Transmit Fault Count
<i>snr</i>	(Optional) RX Signal-to-Noise Ratio (SNR)
<i>snr_flag</i>	(Optional) SNR Flag
<i>snr_alm_hi</i>	(Optional) SNR Alarm High
<i>snr_alm_lo</i>	(Optional) SNR Alarm Low
<i>snr_warn_hi</i>	(Optional) SNR Warning High
<i>snr_warn_lo</i>	(Optional) SNR Warning Low
<i>isi</i>	(Optional) Residual-Dispersion(ISI)
<i>isi_flag</i>	(Optional) ISI Flag
<i>isi_alm_hi</i>	(Optional) ISI alarm high
<i>isi_alm_lo</i>	(Optional) ISI alarm low
<i>isi_warn_hi</i>	(Optional) ISI warning high
<i>isi_warn_lo</i>	(Optional) ISI warning low
<i>pam</i>	(Optional) PAM Transition
<i>pam_flag</i>	(Optional) PAM Flag
<i>pam_alm_hi</i>	(Optional) PAM alarm high
<i>pam_alm_lo</i>	(Optional) PAM alarm low
<i>pam_warn_hi</i>	(Optional) PAM warning high
<i>pam_warn_lo</i>	(Optional) PAM warning low
<i>pre_fec_ber</i>	(Optional) Pre-FEC BER
<i>pre_fec_ber_flag</i>	(Optional) Pre-FEC BER flag
<i>pre_fec_ber_alm_hi</i>	(Optional) Pre-FEC BER alarm high
<i>pre_fec_ber_alm_lo</i>	(Optional) Pre-FEC BER alarm low
<i>pre_fec_ber_warn_hi</i>	(Optional) Pre-FEC BER warning high
<i>pre_fec_ber_warn_lo</i>	(Optional) Pre-FEC BER warning low

<i>uncorrect_ber</i>	(Optional) Uncorrected BER
<i>uncorrect_ber_flag</i>	(Optional) Uncorrected BER flag
<i>uncorrect_ber_alm_hi</i>	(Optional) Uncorrected BER alarm high
<i>uncorrect_ber_alm_lo</i>	(Optional) Uncorrected BER alarm low
<i>uncorrect_ber_warn_hi</i>	(Optional) Uncorrected BER warning high
<i>uncorrect_ber_warn_lo</i>	(Optional) Uncorrected BER warning low
<i>tec_current</i>	(Optional) TEC Current
<i>tec_current_flag</i>	(Optional) TEC Current flag
<i>tec_current_alm_hi</i>	(Optional) TEC Current Alarm High
<i>tec_current_alm_lo</i>	(Optional) TEC Current Alarm Low
<i>tec_current_warn_hi</i>	(Optional) TEC Current Warning High
<i>tec_current_warn_lo</i>	(Optional) TEC Current Warning Low
<i>laser_freq</i>	(Optional) Laser Frequency
<i>laser_freq_flag</i>	(Optional) Laser Frequency flag
<i>laser_freq_alm_hi</i>	(Optional) Laser Frequency Alarm High
<i>laser_freq_alm_lo</i>	(Optional) Laser Frequency Alarm Low
<i>laser_freq_warn_hi</i>	(Optional) Laser Frequency Warning High
<i>laser_freq_warn_lo</i>	(Optional) Laser Frequency Warning Low
<i>laser_temp</i>	(Optional) Laser Temperature
<i>laser_temp_flag</i>	(Optional) Laser Temperature flag
<i>laser_temp_alm_hi</i>	(Optional) Laser Temperature Alarm High
<i>laser_temp_alm_lo</i>	(Optional) Laser Temperature Alarm Low
<i>laser_temp_warn_hi</i>	(Optional) Laser Temperature Warning High
<i>laser_temp_warn_lo</i>	(Optional) Laser Temperature Warning Low
<i>pre_fec_ber_acc</i>	(Optional) Pre-FEC BER Acc
<i>pre_fec_ber_acc_flag</i>	(Optional) Pre-FEC BER Acc flag
<i>pre_fec_ber_acc_alm_hi</i>	(Optional) Pre-FEC BER Acc alarm high
<i>pre_fec_ber_acc_alm_lo</i>	(Optional) Pre-FEC BER Acc alarm low
<i>pre_fec_ber_acc_warn_hi</i>	(Optional) Pre-FEC BER Acc warning high

<i>pre_fec_ber_acc_warn_lo</i>	(Optional) Pre-FEC BER Acc warning low
<i>pre_fec_ber_min</i>	(Optional) Pre-FEC BER Min
<i>pre_fec_ber_min_flag</i>	(Optional) Pre-FEC BER Min flag
<i>pre_fec_ber_min_alm_hi</i>	(Optional) Pre-FEC BER Min alarm high
<i>pre_fec_ber_min_alm_lo</i>	(Optional) Pre-FEC BER Min alarm low
<i>pre_fec_ber_min_warn_hi</i>	(Optional) Pre-FEC BER Min warning high
<i>pre_fec_ber_min_warn_lo</i>	(Optional) Pre-FEC BER Min warning low
<i>pre_fec_ber_max</i>	(Optional) Pre-FEC BER Max
<i>pre_fec_ber_max_flag</i>	(Optional) Pre-FEC BER Max flag
<i>pre_fec_ber_max_alm_hi</i>	(Optional) Pre-FEC BER Max alarm high
<i>pre_fec_ber_max_alm_lo</i>	(Optional) Pre-FEC BER Max alarm low
<i>pre_fec_ber_max_warn_hi</i>	(Optional) Pre-FEC BER Max warning high
<i>pre_fec_ber_max_warn_lo</i>	(Optional) Pre-FEC BER Max warning low
<i>pre_fec_ber_cur</i>	(Optional) Pre-FEC BER Cur
<i>pre_fec_ber_cur_flag</i>	(Optional) Pre-FEC BER Cur flag
<i>pre_fec_ber_cur_alm_hi</i>	(Optional) Pre-FEC BER Cur alarm high
<i>pre_fec_ber_cur_alm_lo</i>	(Optional) Pre-FEC BER Cur alarm low
<i>pre_fec_ber_cur_warn_hi</i>	(Optional) Pre-FEC BER Cur warning high
<i>pre_fec_ber_cur_warn_lo</i>	(Optional) Pre-FEC BER Cur warning low
<i>uncorrect_ber_acc</i>	(Optional) Uncorrected BER Acc
<i>uncorrect_ber_acc_flag</i>	(Optional) Uncorrected BER Acc flag
<i>uncorrect_ber_acc_alm_hi</i>	(Optional) Uncorrected BER Acc alarm high
<i>uncorrect_ber_acc_alm_lo</i>	(Optional) Uncorrected BER Acc alarm low
<i>uncorrect_ber_acc_warn_hi</i>	(Optional) Uncorrected BER Acc warning high
<i>uncorrect_ber_acc_warn_lo</i>	(Optional) Uncorrected BER Acc warning low
<i>uncorrect_ber_min</i>	(Optional) Uncorrected BER Min
<i>uncorrect_ber_min_flag</i>	(Optional) Uncorrected BER Min flag
<i>uncorrect_ber_min_alm_hi</i>	(Optional) Uncorrected BER Min alarm high
<i>uncorrect_ber_min_alm_lo</i>	(Optional) Uncorrected BER Min alarm low

<i>uncorrect_ber_min_warn_hi</i>	(Optional) Uncorrected BER Min warning high
<i>uncorrect_ber_min_warn_lo</i>	(Optional) Uncorrected BER Min warning low
<i>uncorrect_ber_max</i>	(Optional) Uncorrected BER Max
<i>uncorrect_ber_max_flag</i>	(Optional) Uncorrected BER Max flag
<i>uncorrect_ber_max_alm_hi</i>	(Optional) Uncorrected BER Max alarm high
<i>uncorrect_ber_max_alm_lo</i>	(Optional) Uncorrected BER Max alarm low
<i>uncorrect_ber_max_warn_hi</i>	(Optional) Uncorrected BER Max warning high
<i>uncorrect_ber_max_warn_lo</i>	(Optional) Uncorrected BER Max warning low
<i>uncorrect_ber_cur</i>	(Optional) Uncorrected BER Cur
<i>uncorrect_ber_cur_flag</i>	(Optional) Uncorrected BER Cur flag
<i>uncorrect_ber_cur_alm_hi</i>	(Optional) Uncorrected BER Cur alarm high
<i>uncorrect_ber_cur_alm_lo</i>	(Optional) Uncorrected BER Cur alarm low
<i>uncorrect_ber_cur_warn_hi</i>	(Optional) Uncorrected BER Cur warning high
<i>uncorrect_ber_cur_warn_lo</i>	(Optional) Uncorrected BER Cur warning low

Command Mode

- /exec

show interface transceiver fex-fabric

```
show interface <ifeth_trans> transceiver fex-fabric [ calibrations | details ] [ __readonly__ TABLE_interface
<interface> <sfp> <name> <partnum> <rev> <serialnum> <nom_bitrate> <len_50> <len_625> <ciscoid>
<ciscoid_1> [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ] [ <volt_offset> ] [ <curr_slope> ] [
<curr_offset> ] [ <tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ] [ <rx_pwr_2> ] [
<rx_pwr_1> ] [ <rx_pwr_0> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_trans</i>	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
fex-fabric	Show FEX interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
<u>__readonly__</u>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>sfp</i>	(Optional) sfp
<i>name</i>	(Optional) Name
<i>partnum</i>	(Optional) part number
<i>rev</i>	(Optional) revision
<i>serialnum</i>	(Optional) serial number
<i>nom_bitrate</i>	(Optional) Nominal bit rate in MBits/sec
<i>len_50</i>	(Optional) Link length supported for 50/125mm fiber
<i>len_625</i>	(Optional) Link length supported for 62.5/125mm fiber
<i>ciscoid</i>	(Optional) Cisco extended id
<i>ciscoid_1</i>	(Optional) Cisco extended id number
<i>temp_slope</i>	(Optional) Temperature slope
<i>temp_offset</i>	(Optional) Temperature offset
<i>volt_slope</i>	(Optional) Voltage slope

<i>volt_offset</i>	(Optional) Voltage offset
<i>curr_slope</i>	(Optional) Current slope
<i>curr_offset</i>	(Optional) Current offset
<i>tx_pwr_slope</i>	(Optional) Tx power slope
<i>tx_pwr_offset</i>	(Optional) Tx power offset
<i>rx_pwr_4</i>	(Optional) Rx power 4
<i>rx_pwr_3</i>	(Optional) Rx power 3
<i>rx_pwr_2</i>	(Optional) Rx power 2
<i>rx_pwr_1</i>	(Optional) Rx power 1
<i>rx_pwr_0</i>	(Optional) Rx power 0

Command Mode

- /exec

show interface trunk

```
show interface trunk [ module <module> | vlan <vlan_id> | fex <fex_num> ] [ __readonly__ [ {
TABLE_interface <interface> [ <native> ] <status> <portchannel> } ] [ { TABLE_allowed_vlans <interface>
<allowedvlans> } ] [ { TABLE_errored_vlans <interface> <erroredvlans> } ] [ { TABLE_stp_forward
<interface> <stp_fwd_vlans> } ] [ { TABLE_fabricpath_vlans <interface> <fabricpath_vlans> } ] [ {
TABLE_vtp_pruning <interface> <vtp pruning_vlans> } ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
trunk	Show interface trunk information
module	(Optional) Limit display to interfaces on module
<i>module</i>	(Optional) Enter module number
fex	(Optional) Limit display to interfaces on a FEX
<i>fex_num</i>	(Optional) Enter FEX number
vlan	(Optional) Show per vlan information for trunk
<i>vlan_id</i>	(Optional) Enter vlan range
<i>interface</i>	(Optional) Interface index
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>native</i>	(Optional) Native VLAN
<i>status</i>	(Optional) Status
<i>portchannel</i>	(Optional) Port Channel
TABLE_allowed_vlans	(Optional) show allowed vlans
<i>interface</i>	(Optional) Interface index
<i>allowedvlans</i>	(Optional) VLANs allowed and active in management domain
TABLE_errored_vlans	(Optional) show errored vlans
<i>interface</i>	(Optional) Interface index
<i>erroredvlans</i>	(Optional) Errored VLANs
TABLE_stp_forward	(Optional) show STP forwarding VLANs

<i>interface</i>	(Optional) Interface index
<i>stp fwd_vlans</i>	(Optional) STP Forwarding VLANs
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs
<i>interface</i>	(Optional) Interface index
<i>fabricpath_vlans</i>	(Optional) FabricPath VLANs
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs
<i>vtp pruning_vlans</i>	(Optional) VTP Pruning VLANs

Command Mode

- /exec

show interface trunk

```
show interface <ifeth_trnk> trunk [ __readonly__ { TABLE_interface <interface> [ <native> ] <status>
<portchannel> } { TABLE_allowed_vlans <interface> <allowedvlans> } { TABLE_errored_vlans <interface>
<erroredvlans> } { TABLE_stp_forward <interface> <stpfwd_vlans> } [ { TABLE_fabricpath_vlans
<interface> <fabricpath_vlans> } ] { TABLE_vtp_pruning <interface> <vtp pruning_vlans> } ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifeth_trnk</i>	Enter interface type and number in module/slot format
trunk	Show interface trunk information
<i>__readonly__</i>	(Optional) Read Only
TABLE_interface	(Optional) show interface
<i>interface</i>	(Optional) Interface index
<i>native</i>	(Optional) Native VLAN
<i>status</i>	(Optional) Status
<i>portchannel</i>	(Optional) Port Channel
TABLE_allowed_vlans	(Optional) show allowed vlans
<i>interface</i>	(Optional) Interface index
<i>allowedvlans</i>	(Optional) VLANs allowed and active in management domain
TABLE_errored_vlans	(Optional) show errored vlans
<i>interface</i>	(Optional) Interface index
<i>erroredvlans</i>	(Optional) Errored VLANs
TABLE_stp_forward	(Optional) show STP forwarding VLANs
<i>interface</i>	(Optional) Interface index
<i>stpfwd_vlans</i>	(Optional) STP Forwarding VLANs
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs
<i>interface</i>	(Optional) Interface index
<i>fabricpath_vlans</i>	(Optional) FabricPath VLANs
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs

<i>interface</i>	(Optional) Interface index
<i>vtp pruning vlans</i>	(Optional) VTP Pruning VLANs

Command Mode

- /exec

show interface trunk vsan

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

Syntax Description

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

Command Mode

- /exec

show interface trunk vsan

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

Syntax Description

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

Command Mode

- /exec

show interface untagged-cos

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

Syntax Description

show	Show running system information
interface	Show interface status and information
untagged-cos	Show interface untagged CoS information
module	(Optional) Limit display to interfaces on module
<i>mod_num</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional)
<i>interface</i>	(Optional) Interface index
TABLE_interface	(Optional) show interface
<i>ucos-value</i>	(Optional) COS value
<i>portmode</i>	(Optional) Port mode

Command Mode

- /exec

show interface vlan mapping

```
show interface <ifindex> vlan mapping [ __readonly__ <if-index-id> { TABLE_vlan_xlt <orig-vlan-id> [
<inner-vlan-id> ] <xlt-vlan-id> } <show-end> [ <true-end> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifindex</i>	Enter interface type and number in module/slot format
vlan	Show VLAN information
mapping	VLAN translation mapping
<i>__readonly__</i>	(Optional) Read Only
TABLE_vlan_xlt	(Optional) Vlan translation table
<i>if-index-id</i>	(Optional) Interface index id
<i>orig-vlan-id</i>	(Optional) Original Vlan Id
<i>inner-vlan-id</i>	(Optional) Inner Vlan Id
<i>xlt-vlan-id</i>	(Optional) Translated Vlan Id
<i>show-end</i>	(Optional) Show vlan end marker
<i>true-end</i>	(Optional) Show vlan end marker

Command Mode

- /exec

show inventory

```
show inventory [ chassis | fans | power_supply | module [ <module> ] | <s0> [ <santa-cruz-range> ] | all ] [
__readonly__ TABLE_inv <name> <desc> <productid> <vendorid> <serialnum> ]
```

Syntax Description

show	Show running system information
inventory	system inventory information
chassis	(Optional) system inventory chassis information
fans	(Optional) system inventory fan information
power_supply	(Optional) system inventory power supply information
module	(Optional) system inventory module information
<i>module</i>	(Optional) please enter the module number
<i>s0</i>	(Optional) please enter the module number
<i>santa-cruz-range</i>	(Optional) please enter the xbar number
all	(Optional) system and transceiver inventory information
<i>__readonly__</i>	(Optional)
TABLE_inv	(Optional) Inventory table
<i>name</i>	(Optional) Name of inventory
<i>desc</i>	(Optional) Description of inventory
<i>productid</i>	(Optional) Product ID
<i>vendorid</i>	(Optional) Vendor ID
<i>serialnum</i>	(Optional) Serial Number

Command Mode

- /exec

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

Command Mode

- /exec

show ip amt relay

```
show { ip | ipv6 } amt relay [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf>
<tut> <ra> <nds> <ldn> <nts> <lrn> <lra> <lq> <uc> <rc4> <rc6> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
amt	AMT show commands
relay	Display status information about the AMT Relay
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>tut</i>	(Optional)
<i>ra</i>	(Optional)
<i>vrf</i>	(Optional)
<i>nds</i>	(Optional)
<i>ldn</i>	(Optional)
<i>nts</i>	(Optional)
<i>lrn</i>	(Optional)
<i>lra</i>	(Optional)
<i>lq</i>	(Optional)
<i>uc</i>	(Optional)
<i>rc4</i>	(Optional)
<i>rc6</i>	(Optional)

Command Mode

- /exec

show ip amt route

```
show { ip | ipv6 } amt route [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf>
<rc4> <rc6> { TABLE_route <addrs> <if> <nbr> <gwa> <gw_exp> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
amt	AMT show commands
route	Display multicast routes learned via AMT
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>rc4</i>	(Optional)
<i>rc6</i>	(Optional)
TABLE_route	(Optional)
<i>addrs</i>	(Optional)
<i>if</i>	(Optional)
<i>nbr</i>	(Optional)
<i>gwa</i>	(Optional)
<i>gw_exp</i>	(Optional)

Command Mode

- /exec

show ip amt tunnel

```
show ip amt tunnel [ <address4> <port> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__
TABLE_vrf <vrf> <tc4> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route
<source> <group> <rexp> } } ]
```

Syntax Description

show	Show running system information
amt	AMT show commands
ip	Display IP information
tunnel	Display tunnel information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>address4</i>	(Optional) IP address of tunnel endpoint
<i>port</i>	(Optional) UDP port number of gateway
detail	(Optional) Display routes joined by tunnel endpoint
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>tc4</i>	(Optional)
TABLE_tunnel	(Optional)
<i>gwa</i>	(Optional)
<i>gwp</i>	(Optional)
<i>ut</i>	(Optional)
<i>ld</i>	(Optional)
<i>lr</i>	(Optional)
<i>rc</i>	(Optional)
<i>exp</i>	(Optional)
TABLE_route	(Optional)
<i>source</i>	(Optional)

<i>group</i>	(Optional)
<i>rexp</i>	(Optional)

Command Mode

- /exec

show ip arp

```
show ip arp [ [ [ <ip-address> | [ sync-entries | fhrp-non-active-learn ] [ detail ] | static | summary | [ summary
] <interface> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ] [ __readonly__ TABLE_vrf <vrf-name-out>
[ <cnt-resolved> ] [ <cnt-incomplete> ] [ <cnt-thrld-incomplete> ] [ <cnt-unknown> ] [ <cnt-total> ] [
TABLE_adj <intf-out> <ip-addr-out> [ <time-stamp> ] { <mac> | <unknown> | <incomplete> } [ <phy-intf>
] [ <flags> ] [ <adj-vrf-name> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
summary	(Optional) Display ARP adjacency summary
detail	(Optional) Display detailed information
sync-entries	(Optional) Display ARP table learnt only due to arp table sync
fhrp-non-active-learn	(Optional) Display ARP table learnt only due to request for non-active FHRP address
<i>interface</i>	(Optional) ARP interface
<i>ip-address</i>	(Optional) IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP entries for all vrfs
static	(Optional) Display Static ARP entries
__readonly__	(Optional)
TABLE_vrf	(Optional) Show VRF table
<i>vrf-name-out</i>	(Optional) Show VRF name
<i>cnt-resolved</i>	(Optional) Show total resolved ARP entries
<i>cnt-incomplete</i>	(Optional) Show total incomplete ARP entreis
<i>cnt-thrld-incomplete</i>	(Optional) Show total incomplete throttled entries
<i>cnt-unknown</i>	(Optional) Show total unknow entris
<i>cnt-total</i>	(Optional) Show total

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

Command Mode

- /exec

show ip arp anycast topo-info

```
show ip arp anycast topo-info [ <topo-id> ] [ __readonly__ { TABLE_ip_arp_anycast_topo_info [
<ip_arp_anycat_topo_id> ] [ <ip_arp_anycast_feature> ] [ <ip_arp_anycast_mode> ] } ]
```

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
anycast	anycast feature info
topo-info	Per topology specific information
<i>topo-id</i>	(Optional) Topology ID (VLAN-ID or BD-ID)
<i>__readonly__</i>	(Optional)
TABLE_ip_arp_anycast_topo_info	(Optional) Show ip arp anycast topo-info
<i>ip_arp_anycat_topo_id</i>	(Optional) Show ARP anycast topo-id
<i>ip_arp_anycast_feature</i>	(Optional) Show ARP anycast feature
<i>ip_arp_anycast_mode</i>	(Optional) Show ARP anycast mode

Command Mode

- /exec

show ip arp client

```
show ip arp client [ __readonly__ { <arp-clients> } [ TABLE_arp_client_list { <arp-cli-uuid> <l2-client-type>
<client-flg> <mts-addr-sap> <cli-msg-cnt> [ <l2-cli-func-name> ] [ <l2-cli-dbg-func> ] [
<l2-cli-dbg-un-init-func> ] } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
client	Display ARP Client table
<i>__readonly__</i>	(Optional)
<i>arp-clients</i>	(Optional) Number of ARP Clients
<i>TABLE_arp_client_list</i>	(Optional) Show ip arp client
<i>arp-cli-uuid</i>	(Optional) Protocol uuid
<i>l2-client-type</i>	(Optional) Client type
<i>client-flg</i>	(Optional) Flags
<i>mts-addr-sap</i>	(Optional) SAP
<i>cli-msg-cnt</i>	(Optional) Client message count
<i>l2-cli-func-name</i>	(Optional) Received function
<i>l2-cli-dbg-func</i>	(Optional) Debug init function
<i>l2-cli-dbg-un-init-func</i>	(Optional) Debug Un-init function

Command Mode

- /exec

show ip arp controller-statistics

```
show ip arp controller-statistics [ __readonly__ { TABLE_ip_arp_controller_statistics [
<arp_adj_controller_add_count> ] [ <arp_adj_controller_del_count> ] [ <arp_adj_controller_add_err_count>
] [ <arp_adj_controller_del_err> ] } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
controller-statistics	Controller statistics
__readonly__	(Optional)
TABLE_ip_arp_controller_statistics	(Optional) Show controller-statistics
<i>arp_adj_controller_add_count</i>	(Optional)
<i>arp_adj_controller_del_count</i>	(Optional)
<i>arp_adj_controller_add_err_count</i>	(Optional)
<i>arp_adj_controller_del_err</i>	(Optional)

Command Mode

- /exec

show ip arp inspection

```
show ip arp inspection [ __readonly__ <src_mac_valid> <dest_mac_valid> <ip_addr_valid> TABLE_entry
<active_vlan_id> <is_insp_enabled> <oper_state> [ <acl_name> ] [ [ <acl_logging> ] <dhcp_logging> ] [
<req_fwded> <res_fwded> <req_dropped> <res_dropped> <dhcp_drops> [ <acl_drops> ] <dhcp_permits>
[ <acl_permits> ] <req_smac_fails> <res_smac_fails> <res_dmac_fails> <req_ip_fails> <res_ip_fails> ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
<i>__readonly__</i>	(Optional) read only
<i>src_mac_valid</i>	(Optional) source ethernet address in header must be same as sender mac address in arp payload
<i>dest_mac_valid</i>	(Optional) destination ethernet address in header must be same as target mac address in arp payload
<i>ip_addr_valid</i>	(Optional) validate the target ip address to filter broadcast/multicast address in arp payload
TABLE_entry	(Optional)
<i>active_vlan_id</i>	(Optional) active vlan id
<i>is_insp_enabled</i>	(Optional)
<i>oper_state</i>	(Optional)
<i>acl_name</i>	(Optional)
<i>acl_logging</i>	(Optional)
<i>dhcp_logging</i>	(Optional)

Command Mode

- /exec

show ip arp inspection interfaces

```
show ip arp inspection interfaces [ <intf1> ] [ __readonly__ <intf_header> [ TABLE_intf <intf2> <trust_state> ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
interfaces	Trust status of all interfaces
<i>intf1</i>	(Optional) interface
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional)
<i>intf_header</i>	(Optional)
<i>intf2</i>	(Optional)
<i>trust_state</i>	(Optional)

Command Mode

- /exec

show ip arp inspection log

```
show ip arp inspection log [ __readonly__ <log_buff_size> <log_rate_entries> <log_rate_interval> [
<log_frame> ] + ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
log	Log Buffer
<i>__readonly__</i>	(Optional)
<i>log_buff_size</i>	(Optional) number of entries per log buffer
<i>log_rate_entries</i>	(Optional) number of entries into log buffer per sec
<i>log_rate_interval</i>	(Optional) time after which log buffer is updated in sec
<i>log_frame</i>	(Optional) log frames in buffer

Command Mode

- /exec

show ip arp inspection statistics

```
show ip arp inspection statistics [ vlan <vlan-range> ] [ __readonly__ TABLE_stats <vlanid> <req_fwded>
<res_fwded> <req_dropped> <res_dropped> <dhcp_drops> [ <acl_drops> ] <dhcp_permits> [ <acl_permits>
] <req_smac_fails> <res_smac_fails> <res_dmac_fails> <req_ip_fails> <res_ip_fails> ]
```

Syntax Description

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

Command Mode

- /exec

show ip arp inspection vlan

```
show ip arp inspection { vlan <vlan-range> } [ __readonly__ <src_vlan_mac_valid> <dest_vlan_mac_valid>
<ip_vlan_addr_valid> TABLE_vlan <active_vlan_id> <is_insp_enabled> <oper_state> [ <dhcp_logging> ]
[ <acl_name> ] [ <acl_logging> ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
vlan	Selected vlan range
<i>vlan-range</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
<i>__readonly__</i>	(Optional)
<i>src_vlan_mac_valid</i>	(Optional) validates header source mac address with sender mac address in arp payload
<i>dest_vlan_mac_valid</i>	(Optional) validates header destination mac address with target mac address in arp payload
<i>ip_vlan_addr_valid</i>	(Optional) filters invalid ip addresses like multicast/broadcast in arp requests/responses
TABLE_vlan	(Optional)
<i>active_vlan_id</i>	(Optional) active vlan id
<i>is_insp_enabled</i>	(Optional) ip arp inspection on vlan
<i>oper_state</i>	(Optional) operational on vlan
<i>acl_name</i>	(Optional) arp inspection access list name
<i>acl_logging</i>	(Optional) acl logging options
<i>dhcp_logging</i>	(Optional) ip arp inspection dhcp-binding logging options

Command Mode

- /exec

show ip arp l2 statistics interface

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

Syntax Description

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

Command Mode

- /exec

show ip arp multihoming-statistics

```
show ip arp multihoming-statistics [ <interface> ] [ interface-all ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] [ __readonly__ TABLE_vrf <vrf-name-out2> TABLE_stat <ps-recv-add-l2rib> <ps-proc-add-l2rib>
<ps-recv-del-l2rib> <ps-proc-del-l2rib> <ps-recv-pc-shut-l2rib> <ps-proc-pc-shut-l2rib>
<ps-recv-remote-upd-l2rib> <ps-proc-remote-upd-l2rib> <ps-add-err-invalid-flags> <ps-del-err-invalid-flags>
<ps-add-err-invalid-curr-state> <ps-del-err-invalid-curr-state> <ps-del-err-mac-mismatch> <ps-del-err-sec-del>
<ps-del-err-tl-route> <tl-del-err-psro-route> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
multihoming-statistics	Display ARP Multihoming stats
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP Multihoming statistics for all vrfs
interface-all	(Optional) Display ARP Multihoming statistics for all interface
<i>interface</i>	(Optional) ARP interface
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name-out2</i>	(Optional) VRF name
TABLE_stat	(Optional) Show ip arp multihoming statistics
<i>ps-recv-add-l2rib</i>	(Optional) Received ADD from L2RIB
<i>ps-recv-del-l2rib</i>	(Optional) Received DEL from L2RIB
<i>ps-recv-remote-upd-l2rib</i>	(Optional) Received remote UPD from L2RIB
<i>ps-recv-pc-shut-l2rib</i>	(Optional) Received PC shut from L2RIB
<i>ps-proc-add-l2rib</i>	(Optional) Processed ADD from L2RIB
<i>ps-proc-del-l2rib</i>	(Optional) Processed DEL from L2RIB
<i>ps-proc-remote-upd-l2rib</i>	(Optional) Processed remote UPD from L2RIB
<i>ps-proc-pc-shut-l2rib</i>	(Optional) Processed PC shut from L2RIB

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

Command Mode

- /exec

show ip arp off-list

```
show ip arp off-list [ { vlan | bdi } <vlan-id> ] [ __readonly__ [ <offlist-vlan-id> <vlan-adj-cnt> ] [
<arp-sync-adj-cnt> ] { TABLE_arp_vlan_list <adj-vlan-id> <off-adj-ip-addr> <time-stamp> <arp-mac-addr>
<off-adj-flags> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
off-list	Show adjacencies in off-list arp database
vlan	(Optional) Vlan id
bdi	(Optional) Bridge Domain Name/Id
<i>vlan-id</i>	(Optional) Show information for specified vlan
<i>__readonly__</i>	(Optional)
<i>offlist-vlan-id</i>	(Optional) Show ip arp offlist vlan-id
<i>vlan-adj-cnt</i>	(Optional) Show ip arp vlan adjacency count
<i>arp-sync-adj-cnt</i>	(Optional) Show arp sync adjacency count
TABLE_arp_vlan_list	(Optional) Show ip arp vlan list
<i>adj-vlan-id</i>	(Optional) Show ip arp adjacency vlan id
<i>off-adj-ip-addr</i>	(Optional) Show arp offlist adjacency ip address
<i>time-stamp</i>	(Optional) Show duration
<i>arp-mac-addr</i>	(Optional) Show mac address
<i>off-adj-flags</i>	(Optional) show offlist adjacency flgs

Command Mode

- /exec

show ip arp open-flow error-statistics

```
show ip arp open-flow error-statistics [ __readonly__ <arp_ofa_total_err_cnt> <arp_ofa_dp_adj_err_on_del>
<arp_ofa_cp_mac_mismatch_err_on_del> <arp_ofa_cp_null_mac_err_on_del>
<arp_ofa_cp_no_adj_err_on_del_flag> <arp_ofa_cp_cp_nh_mismatch_err_on_del>
<arp_ofa_cp_adj_del_failure_err> <arp_ofa_cp_null_mac_err_on_add>
<arp_ofa_cp_dp_mac_mismatch_err_on_add> <arp_ofa_cp_cp_mac_mismatch_err_on_add>
<arp_ofa_cp_added_first_err> <arp_ofa_dp_overwrite_cp_err> <arp_ofa_dp_cp_nh_mismatch_err_on_add>
<arp_ofa_cp_cp_nh_mismatch_err_on_add> <arp_ofa_cp_dp_nh_mismatch_err_on_add>
<arp_ofa_cp_adj_add_failure_err> <arp_ofa_peer_ip_lookup_rec_phy_iod_err>
<arp_ofa_peer_ip_ipv6_rec_phy_iod_err> <arp_ofa_peer_ip_lookup_adj_phy_iod_err>
<arp_ofa_peer_ip_ipv6_adj_phy_iod_err> <arp_ofa_barrier_response_err> ]
```

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
open-flow	open flow
error-statistics	IR mode specific adjacency statistics
<i>__readonly__</i>	(Optional)
<i>arp_ofa_total_err_cnt</i>	(Optional) OFA total error count
<i>arp_ofa_dp_adj_err_on_del</i>	(Optional) Controller Deleting DP adjacency error
<i>arp_ofa_cp_mac_mismatch_err_on_del</i>	(Optional) CP adjacency MAC mismatch error while delete
<i>arp_ofa_cp_null_mac_err_on_del</i>	(Optional) CP adjacency NULL mac error while delete
<i>arp_ofa_cp_no_adj_err_on_del_flag</i>	(Optional) No adjacency found while delete
<i>arp_ofa_cp_cp_nh_mismatch_err_on_del</i>	(Optional) CP adjacency NH mismatch error while delete
<i>arp_ofa_cp_adj_del_failure_err</i>	(Optional) Other errors while deleting
<i>arp_ofa_cp_null_mac_err_on_add</i>	(Optional) CP adjacency NULL mac error while Adding
<i>arp_ofa_cp_dp_mac_mismatch_err_on_add</i>	(Optional) DP adjacency present with different mac
<i>arp_ofa_cp_cp_mac_mismatch_err_on_add</i>	(Optional) CP adjacency present with different mac
<i>arp_ofa_cp_added_first_err</i>	(Optional) CP adjacency added first
<i>arp_ofa_dp_overwrite_cp_err</i>	(Optional) Overwriting CP adjacency with DP
<i>arp_ofa_dp_cp_nh_mismatch_err_on_add</i>	(Optional) DP adjacency already present with different NH
<i>arp_ofa_cp_cp_nh_mismatch_err_on_add</i>	(Optional) CP adjacency already present with different NH

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

Command Mode

- /exec

show ip arp statistics

```
show ip arp statistics [ <interface> ] [ interface-all ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_vrf <vrf-name-out1> [ TABLE_stat <tx-total> <tx-rewrite-pkt> <tx-req> <tx-reply>
<tx-req-l2> <tx-reply-l2> <tx-grat> <tx-tunnel> <tx-drop> <tx-rewrite-drop> [ <tx-srvrport> ] [ <tx-fbrport>
] [ <tx-fixup-core> ] [ <tx-fixup-server> ] [ <tx-fixup-rarp> ] [ <tx-anycast-glean> ] <tx-mbuf-fail>
<tx-ctxt-not-crted> <tx-bad-ctxt-id> <tx-invalid-ifindex> <tx-invalid-sip> <tx-invalid-dip> <tx-own-ip>
<tx-unattached-ip> <tx-adj-create-fail> <tx-null-sip> <tx-null-smac> <tx-client-enq-fail>
<tx-dest-unreachable-proxy-arp> <tx-dest-unreachable-enhanced-proxy> <tx-dest-l2port-track>
<tx-invalid-local-proxy> <tx-invalid-proxy> <tx-vip-not-active>
<tx-skip-refresh-over-core-and-flood-to-server> <rx-total> <rx-req> <rx-reply> <rx-req-l2> <rx-reply-l2>
<rx-proxy> <rx-local-proxy> <rx-enhanced-proxy> <rx-enhanced-proxy-anycast>
<rx-enhanced-proxy-l2port-track> <rx-tunnel> <rx-fastpath> <rx-snoop> <rx-drop> <rx-srvrport> <bad-if>
<bad-len> <invalid-opcode> <invalid-prot> <invalid-hrd-type> <invalid-ctxt> <ctxt-not-crted> <invalid-l2>
<invalid-l3> <invalid-sip> <our-sip> <arp-if-no-mem> <subnet-mismatch> <dir-bcast> <invalid-dip>
<non-local-dst> <non-active-fhrp> <invalid-smac> <our-smac> <not-init> <l2-prxy-en> <l2-port-untrusted>
<stdby-fhrp-vip> <grat-prxy-en> <arp-req-ignore> <l2-intf> <l2fm-query-fail> <tunnel_fail> [
<hsrp-active-vmac> ] [ <rx-intf-down> ] <recv-glean-count> <refresh-req-from-clients> <l2rib-signals>
<skip-dyn-add> <adds> <dels> <timeouts> <del-dyn-stat-add> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
statistics	Display ARP statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP statistics for all vrfs
interface-all	(Optional) Display ARP statistics for all interface
<i>interface</i>	(Optional) ARP interface
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional) Table Vrf
<i>vrf-name-out1</i>	(Optional) Show VRF name
TABLE_stat	(Optional) Show IP ARP statistics
<i>tx-total</i>	(Optional) Sent: total
<i>tx-rewrite-pkt</i>	(Optional) Sent: rewrite pkt

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

<i>tx-invalid-local-proxy</i>	(Optional) Sent:Invalid Local proxy arp
<i>tx-invalid-proxy</i>	(Optional) Sent:Invalid proxy arp
<i>tx-vip-not-active</i>	(Optional) Sent:VIP is not active
<i>tx-skip-refresh-over-core-and-flood-to-server</i>	(Optional) ARP refresh skipped over core and sent on server side
<i>rx-total</i>	(Optional) Received: total
<i>rx-req</i>	(Optional) Received: Requests
<i>rx-reply</i>	(Optional) Received: Replies
<i>rx-req-l2</i>	(Optional) Received: Requests on L2
<i>rx-reply-l2</i>	(Optional) Received: Replies on L2
<i>rx-proxy</i>	(Optional) Received: Proxy arp
<i>rx-local-proxy</i>	(Optional) Received: Local-Proxy arp
<i>rx-enhanced-proxy</i>	(Optional) Received: Enhanced Proxy arp
<i>rx-enhanced-proxy-anycast</i>	(Optional) Received: Anycast proxy Proxy arp
<i>rx-enhanced-proxy-l2port-track</i>	(Optional) Received: L2 Port-track Proxy arp
<i>rx-tunnel</i>	(Optional) Received: Tunneled
<i>rx-fastpath</i>	(Optional) Received: Fastpath
<i>rx-snoop</i>	(Optional) Received: Snooped
<i>rx-drop</i>	(Optional) Received: Dropped
<i>rx-srvrport</i>	(Optional) Received: on Server Port
<i>bad-if</i>	(Optional) Appeared on a wrong interface
<i>bad-len</i>	(Optional) Incorrect length
<i>invalid-opcode</i>	(Optional) Invalid OPCODE packet
<i>invalid-prot</i>	(Optional) Invalid protocol packet
<i>invalid-hrd-type</i>	(Optional) Invalid Hardware type
<i>invalid-ctxt</i>	(Optional) Invalid context
<i>ctxt-not-crtd</i>	(Optional) Context not yet created
<i>invalid-l2</i>	(Optional) Invalid layer 2 address length
<i>invalid-l3</i>	(Optional) Invalid layer 3 address length
<i>invalid-sip</i>	(Optional) Invalid source IP address

<i>our-sip</i>	(Optional) Source IP address is our own
<i>arp-if-no-mem</i>	(Optional) No mem to create per intf structure
<i>subnet-mismatch</i>	(Optional) Source address mismatch with subnet
<i>dir-bcast</i>	(Optional) Directed broadcast source
<i>invalid-dip</i>	(Optional) Invalid destination IP address
<i>non-local-dst</i>	(Optional) Non-local destination IP address
<i>non-active-fhrp</i>	(Optional) Non-active FHRP dest IP address. Learn and drop
<i>invalid-smac</i>	(Optional) Invalid source MAC address
<i>our-smac</i>	(Optional) Source MAC address is our own
<i>not-init</i>	(Optional) Received before arp initialization
<i>l2-prxy-en</i>	(Optional) L2 packet on proxy-arp-enabled interface
<i>l2-port-untrusted</i>	(Optional) L2 packet on untrusted L2 port
<i>stdby-fhrp-vip</i>	(Optional) Packet with VIP on standby FHRP
<i>grat-prxy-en</i>	(Optional) Grat arp received on proxy-arp-enabled interface
<i>arp-req-ignore</i>	(Optional) Requests came for existing entries
<i>l2-intf</i>	(Optional) Requests came on a L2 interface
<i>l2fm-query-fail</i>	(Optional) L2FM query failed for a L2 Address
<i>tunnel_fail</i>	(Optional) Dropping due to tunneling failures
<i>hsrp-active-vmac</i>	(Optional) Dropping due to HSRP standby receiving HSRP active vmac
<i>rx-intf-down</i>	(Optional) Received Interface Down
<i>recv-glean-count</i>	(Optional) Glean requests recv count
<i>refresh-req-from-clients</i>	(Optional) Refresh requests received from clients
<i>l2rib-signals</i>	(Optional) Signals received from L2rib
<i>skip-dyn-add</i>	(Optional) Skip Dynamic Adj Learning
<i>adds</i>	(Optional) Adds
<i>dels</i>	(Optional) Deletes
<i>timeouts</i>	(Optional) Timeouts
<i>del-dyn-stat-add</i>	(Optional) Delete Dynamic Adj on Static Add

Command Mode

- /exec

show ip arp suppression-cache

```
show ip arp suppression-cache { detail [ vlan <vlan_id> ] | summary | statistics | vlan <vlan_id> | local [ vlan
<vlan_id> ] | remote [ vlan <vlan_id> ] } [ __readonly__ TABLE_arp-suppression [ TABLE_entries <ip-addr>
<age> <mac> <vlan> <physical-iod> <flag> [ <remote-vtep-addr> | <remote-vtep-v6addr> ] ] [
TABLE_summary <remote-count> <local-count> <total-count> ] [ TABLE_stats TABLE_suppressed <total>
<requests> <requests-on-l2> <gratuitous> <gratuitous-on-l2> TABLE_forwarded <total-sent> <requests-sent>
<replies-sent> <requests-on-core-sent> <replies-on-core-sent> <arp-probe-flood> <dropped-sent>
<requests-on-l2-sent> <replies-on-l2-sent> <requests-on-core-l2-sent> <replies-on-core-l2-sent>
<arp-probe-flood-l2> <dropped-l2-sent> TABLE_received <total-recv> <requests-recv> <replies-recv>
<local-requests-recv> <local-replies-recv> <gratuitous-recv> <dropped-recv> <requests-on-l2-recv>
<replies-on-l2-recv> <gratuitous-l2-recv> <dropped-l2-recv> TABLE_entrystats <adds> <dels> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
suppression-cache	arp-suppression-cache
detail	show details
summary	show summary
statistics	show statistics
local	show local entries
remote	show remote entries
vlan	(Optional) L2vlan
<i>vlan_id</i>	(Optional) Vlan
<i>__readonly__</i>	(Optional)
TABLE_arp-suppression	(Optional) IP ARP suppression-cache
TABLE_entries	(Optional) IP ARP suppression entries
<i>ip-addr</i>	(Optional) IP address
<i>age</i>	(Optional) Age
<i>mac</i>	(Optional) MAC address
<i>vlan</i>	(Optional) vlan id
<i>physical-iod</i>	(Optional) Physical iod
<i>flag</i>	(Optional) Flags

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

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

Command Mode

- /exec

show ip arp suppression topo-info

show ip arp suppression topo-info [<topo-id>] [__readonly__ { TABLE_ip_arp_suppression_topo_info [<ip_arp_suppression_topo_id>] [<ip_arp_suppression_mode>] [<ip_arp_suppression_hmm_mode>] }]

Syntax Description

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

Command Mode

- /exec

show ip arp tunnel-statistics

```
show ip arp tunnel-statistics [ __readonly__ { TABLE_ip_arp_tunnel_stat [ <arp-tun-pkt-rcv-cnt> ] [
<arp-tun-pkt-rcv-ing-vpc> ] [ <arp-tun-pkt-rcv-ing-gpc> ] [ <arp-tun-pkt-rcv-ing-orp-vpc> ] [
<arp-tun-pkt-rcv-ing-orp-vpc-pl> ] [ <arp-tun-pkt-snd-cnt> ] [ <arp-tun-pkt-snd-snoop-cnt> ] [
<arp-tun-pkt-snd-non-local-vip-cnt> ] [ <arp-tun-pkt-snd-peer-gate-cnt> ] [ <arp-tun-pkt-snd-ing-vpc> ] [
<arp-tun-pkt-snd-ing-gpc> ] [ <arp-tun-pkt-snd-ing-orp-vpc> ] [ <arp-tun-pkt-snd-ing-orp-vpc-pl> ] [
<arp-tun-pkt-rcv-drp-cnt> ] [ <arp-tun-pkt-snd-drp-cnt> ] [ <arp-tun-pkt-snd-drp-snd-fail-cnt> ] [
<arp-tun-pkt-rcv-drp-ver-cnt> ] [ <arp-tun-pkt-rcv-drp-pl-cnt> ] [ <arp-tun-pkt-rcv-drp-ing-non-mct> ] [
<arp-tun-pkt-rcv-drp-inv-ing-intf> ] [ <arp-tun-pkt-snd-drp-inv-ing-intf> ] [
<arp-tun-pkt-rcvdrp-inv-gpc-core-sw> ] [ <arp-tun-pkt-rcvdrp-inv-gpc-peer-sw> ] [ <arp-tun-pkt-drp-inv-mcecm>
] [ <arp-tun-pkt-im-api-fail> ] [ <arp-tun-pkt-drp-ctxt-inv> ] [ <arp-tun-pkt-drp-mct-dwn> ] [
<arp-tun-pkt-rcv-drp-mbuf-op-fail> ] [ <arp-tun-pkt-snd-drp-mbuf-op-fail> ] [ <arp-tun-pkt-snd-drp-tunnel>
] [ <arp-tun-pkt-snd-drp-ce> ] [ <arp-tun-pkt-snd-drp-inv-gpc> ] [ <arp-tun-pkt-rcv-drp-inv-gpc> ] [
<arp-tun-pkt-sys-mcecm-key-not-found> ] } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
tunnel-statistics	Display ARP statistics for tunneled packets
__readonly__	(Optional)
TABLE_ip_arp_tunnel_stat	(Optional) ARP Tunnel statistics
arp-tun-pkt-rcv-cnt	(Optional) Total tunneled packets received
arp-tun-pkt-rcv-ing-vpc	(Optional) Tunneled packets rx for ingress vPC
arp-tun-pkt-rcv-ing-gpc	(Optional) Tunneled packets rx for ingress GPC
arp-tun-pkt-rcv-ing-orp-vpc	(Optional) Tunneled Packets rx for ingress orphan vPC
arp-tun-pkt-rcv-ing-orp-vpc-pl	(Optional) Tunneled Packets rx for ingress orphan vPC+
arp-tun-pkt-snd-cnt	(Optional) Total tunneled packets sent
arp-tun-pkt-snd-snoop-cnt	(Optional) Tunneled packets Sent for ARP Snoop
arp-tun-pkt-snd-non-local-vip-cnt	(Optional) Tunneled packets sent for Non-Local VIP
arp-tun-pkt-snd-peer-gate-cnt	(Optional) Tunneled Packets sent for Peer Gateway
arp-tun-pkt-snd-ing-vpc	(Optional) Tunneled packets tx for ingress vPC
arp-tun-pkt-snd-ing-gpc	(Optional) Tunneled packets tx for ingress GPC
arp-tun-pkt-snd-ing-orp-vpc	(Optional) Tunneled Packets tx for ingress orphan vPC

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

Command Mode

- /exec

show ip arp vpc-statistics

```
show ip arp vpc-statistics [ __readonly__ { TABLE_arp_vpc_stats [ <arp-pro-drp-pull-disable> ] [
<arp-pro-drp-push-msg-disable> ] [ <arp-pro-ign-snd-pull-disable> ] [ <arp-ign-snd-push-disable> ] [
<arp-drp-im-fail> ] [ <arp-drp-mcecm-fail> ] [ <arp-drp-invalid-pc-iod> ] [ <arp-drp-pt-lookup-fail> ] [
<arp-drp-resp-fail-no-mct> ] [ <arp-drp-resp-fail> ] [ <arp-mcecm-ifidx-vpc-fail> ] [
<arp-mcecm-vpc-ifidx-fail> ] [ <arp-periodic-mcecm-ifidx-vpc-fail> ] [ <arp-resp-sent> ] [ <arp-resp-recvd>
] [ <arp-resp-recv-err> ] [ <arp-rcvd-msg> ] [ <arp-send-fail> ] [ <arp-cfs-rel-dlvry-fail> ] [
<arp-cfs-rel-dnvry-suc> ] [ <arp-pkt-vmct-drop-count> ] [ <arp-drp-pt-add-fail> ] [ <arp-drp-no-mem> ] [
<arp-drp-tmr-cre-fail> ] [ <arp-drp-add-adj-fail> ] [ <arp-off-drp-pt-lookup-fail> ] [ <arp-dont-drp-vlan-mismat>
] [ <arp-drp-svi-invalid> ] [ <arp-dont-drop-sv-down> ] [ <arp-drp-mct-down> ] [ <arp-drp-ctxt-invalid> ] [
<arp-drp-vrf-invalid> ] [ <arp-drp-l3addr-invalid> ] [ <arp-drp-l3addr-sanity-fail> ] [ <arp-drp-mac-sanity-fail>
] [ <arp-own-rtr-mac> ] [ <arp-drp-own-ipaddr> ] [ <arp-drp-own-vipaddr> ] [ <arp-drp-adj-fail> ] [
<arp-drp-subnet-mismatch> ] [ <arp-drp-adj-exist> ] [ <arp-dont-drp-ip-not-enable> ] [ <arp-drp-total-cnt>
] [ <arp-dont-drop-total-cnt> ] [ <arp-drp-inval-phy-iod> ] [ <arp-add-adj> ] [ <arp-del-adj> ] [
<arp-adj-already-exist> ] [ <arp-sync-recv-op-add-adj> ] [ <arp-sync-recv-op-del-adj> ] [
<arp-sync-push-msg-adj-cnt> ] [ <arp-sync-send-op-add-adj> ] [ <arp-sync-send-op-del-adj> ] [
<arp-sync-adj-cnt> ] [ <arp-sync-addadj-fail> ] [ <arp-sync-drp-svi-inv> ] [ <arp-sync-drp-svi-dwn> ] [
<arp-sync-drp-ctxt-inv> ] [ <arp-sync-null-adj> ] [ <arp-sync-invalid-ip> ] [ <arp-periodic-sync-adj-l2-suppl-cnt>
] [ <arp-periodic-sync-stop-bcast-pkt-sync-count> ] [ <arp-periodic-sync-vmct-stop-orphan-sync-count> ] ]
]
```

Syntax Description

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

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

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

Command Mode

- /exec

show ip as-path-access-list

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

Syntax Description

show	Show running system information
ip	Display IP information
as-path-access-list	List AS path access lists
<i>aspl-name</i>	(Optional) AS path access list name
<i>aspl-cfg-name</i>	(Optional) Known as-path access-list name
<i>__readonly__</i>	(Optional)
TABLE_aspl	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip client

```
show ip client [ <client-name> ] [ __readonly__ [ TABLE_ip_clnt [ TABLE_clnt { <clnt-name> <clnt-uuid>
<clnt-pid> <clnt-ext-pid> [ <clnt-proto> ] <clnt-ind> <clnt-cntxt-id> <clnt-mts-sap> <clnt-flg>
<clnt-msg-succ-cnt> <clnt-msg-fail-cnt> [ <clnt-recv-fn-name> <clnt-recv-fn> ] } ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
client	Display clients registered with the IP process
<i>client-name</i>	(Optional) Display information for a single IP client
<i>__readonly__</i>	(Optional)
TABLE_ip_clnt	(Optional)
TABLE_clnt	(Optional)
<i>clnt-name</i>	(Optional)
<i>clnt-uuid</i>	(Optional)
<i>clnt-pid</i>	(Optional)
<i>clnt-ext-pid</i>	(Optional)
<i>clnt-proto</i>	(Optional)
<i>clnt-ind</i>	(Optional)
<i>clnt-cntxt-id</i>	(Optional)
<i>clnt-mts-sap</i>	(Optional)
<i>clnt-flg</i>	(Optional)
<i>clnt-msg-succ-cnt</i>	(Optional)
<i>clnt-msg-fail-cnt</i>	(Optional)
<i>clnt-recv-fn-name</i>	(Optional)
<i>clnt-recv-fn</i>	(Optional)

Command Mode

- /exec

show ip community-list

```
show ip community-list [ <cl_name> ] [ __readonly__ TABLE_cl <name> <seq> <action> <rule> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
community-list	List community-list
<i>cl_name</i>	(Optional) Standard or expanded community-list name
<i>__readonly__</i>	(Optional)
<i>TABLE_cl</i>	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip dhcp global statistics

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

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
global	DHCP global stats
statistics	Statistics related to DHCP
<i>__readonly__</i>	(Optional) Read only
<i>pkts_processed</i>	(Optional) Packets processed
<i>pkts_recvd_through_cfsoe</i>	(Optional) Packets received through cfsoe
<i>pkts_fwded</i>	(Optional) Packets forwarded
<i>pkts_cfsoe_fwded</i>	(Optional) Packets forwarded on cfsoe
<i>pkts_dropped</i>	(Optional) Total packets dropped
<i>pkts_dropped_from_untrusted_ports</i>	(Optional) Packets dropped from untrusted ports
<i>pkts_dropped_src_mac_chk_fail</i>	(Optional) Packets dropped due to MAC address check failure
<i>pkts_dropped_opt82_ins_fail</i>	(Optional) Packets dropped due to Option 82 insertion failure
<i>pkts_dropped_unknown_op_intf</i>	(Optional) Packets dropped due to o/p intf unknown
<i>pkts_dropped_unknown_pkt</i>	(Optional) Packets dropped which were unknown
<i>pkts_dropped_no_trust_inf</i>	(Optional) Packets dropped due to no trusted ports
<i>pkts_dropped_relay_disable</i>	(Optional) Packets dropped due to dhcp relay not enabled
<i>pkts_dropped_no_binding_entry</i>	(Optional) Packets dropped due to no binding entry
<i>pkts_dropped_interface_error</i>	(Optional) Packets dropped due to interface error/no interface
<i>pkts_dropped_max_hops_exceeded</i>	(Optional) Packets dropped due to max hops exceeded
<i>pkts_dropped_queue_full</i>	(Optional) Packets dropped due to queue full

Command Mode

- /exec

show ip dhcp option82 suboption info interface

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

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
option82	DHCP option82
suboption	DHCP option82 suboption
info	DHCP option82 suboption information
interface	DHCP option82 suboption information of all interfaces
<i>intf</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>intf_header</i>	(Optional)
TABLE_intf_option82	(Optional)
<i>intf_name</i>	(Optional)
<i>option82_status</i>	(Optional)
<i>suboption_string</i>	(Optional)
<i>tx_count</i>	(Optional)

Command Mode

- /exec

show ip dhcp relay

```
show ip dhcp relay [ __readonly__ <relay_service_enable> <relay_opt82_enable> <relay_opt82_customize>
<relay_subopt_format_tlv_enable> <relay_subopt_VPN_enable> <relay_subopt_type_cisco_enable>
<global_smart-relay_enable> <global_relay_trusted_enable> <relay_trusted_port_enable>
<global_src_addr_hsrp_enable> <server_id_override> <smart_relay_intf_hdr> [ TABLE_intf
<smart_relay_enabled_intf> ] <subnet_bcast_intf_hdr> [ TABLE_intf <subnet_bcast_enabled_intf> ]
<trusted_port_intf_hdr> [ TABLE_intf <trusted_port_enabled_intf> ] <relay_src_addr_hsrp_hdr> [
TABLE_intf <src_addr_hsrp_enabled_intf> ] <relay_address_hdr> [ TABLE_intf <intf> <relay_address>
<vrf_name> ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
relay	DHCP relay
<i>__readonly__</i>	(Optional) Read only
<i>relay_service_enable</i>	(Optional)
<i>relay_opt82_enable</i>	(Optional)
<i>relay_opt82_customize</i>	(Optional)
<i>relay_subopt_format_tlv_enable</i>	(Optional)
<i>relay_subopt_VPN_enable</i>	(Optional)
<i>relay_subopt_type_cisco_enable</i>	(Optional)
<i>global_smart-relay_enable</i>	(Optional)
<i>global_relay_trusted_enable</i>	(Optional)
<i>relay_trusted_port_enable</i>	(Optional)
<i>global_src_addr_hsrp_enable</i>	(Optional) V4 Relay src-addr hsrp is globally enabled or not
<i>server_id_override</i>	(Optional)
<i>smart_relay_intf_hdr</i>	(Optional) Smart relay interfaces header
TABLE_intf	(Optional)
<i>smart_relay_enabled_intf</i>	(Optional) smart-relay enabled interfaces
<i>subnet_bcast_intf_hdr</i>	(Optional) Subnet broadcast interfaces header
TABLE_intf	(Optional)

<i>subnet_bcast_enabled_intfs</i>	(Optional) subnet_bcast enabled interfaces
<i>trusted_port_intfs_hdr</i>	(Optional) Trusted port interfaces header
TABLE_intf	(Optional)
<i>trusted_port_enabled_intfs</i>	(Optional) trusted_port enabled interfaces
<i>relay_src_addr_hsrp_hdr</i>	(Optional) Header for V4 Relay src-addr enabled interfaces
TABLE_intf	(Optional)
<i>src_addr_hsrp_enabled_intfs</i>	(Optional) source-address hsrp enabled interfaces
<i>relay_address_hdr</i>	(Optional) relay address header
TABLE_intf	(Optional) Table for list of interfaces
<i>intf</i>	(Optional) interface name
<i>relay_address</i>	(Optional) helper address
<i>vrf_name</i>	(Optional) vrf name

Command Mode

- /exec

show ip dhcp relay address

```
show ip dhcp relay address [ interface <intf-range> ] [ __readonly__ <intf_header> [ TABLE_intf <intf2>
<relay_address> <vrf_name> ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show DHCP
relay	relay address of the interface
address	DHCP relay address
interface	(Optional) DHCP relay address of the interface
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>intf_header</i>	(Optional) interface header
TABLE_intf	(Optional)
<i>intf2</i>	(Optional) interface name
<i>relay_address</i>	(Optional) helper address
<i>vrf_name</i>	(Optional) VRF name

Command Mode

- /exec

show ip dhcp relay information trusted-sources

```
show ip dhcp relay information trusted-sources [ __readonly__ <header> [ TABLE_intf <intf> ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show DHCP
relay	DHCP Relay
information	Relay information
trusted-sources	Relay Trusted Sources
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_intf</i>	(Optional) trusted interface table
<i>header</i>	(Optional) interface header
<i>intf</i>	(Optional) interface name

Command Mode

- /exec

show ip dhcp relay statistics

```
show ip dhcp relay statistics [ interface <intf> | { interface <intf> serverip <ip-addr-val> [ use-vrf <vrf-name>
] } ] [ __readonly__ [ <msg_stats_hdr> <msg_type_str> <rx_pkts> <tx_pkts> <drops> <msg_type_str_offer>
<offer_rx_pkts> <offer_tx_pkts> <offer_drops> <msg_type_str_request> <request_rx_pkts> <request_tx_pkts>
<request_drops> <msg_type_str_ack> <ack_rx_pkts> <ack_tx_pkts> <ack_drops> <msg_type_str_release>
<release_rx_pkts> <release_tx_pkts> <release_drops> <msg_type_str_decline> <decline_rx_pkts>
<decline_tx_pkts> <decline_drops> <msg_type_str_inform> <inform_rx_pkts> <inform_tx_pkts>
<inform_drops> <msg_type_str_nack> <nack_rx_pkts> <nack_tx_pkts> <nack_drops> <line>
<msg_type_str_total> <total_rx_pkts> <total_tx_pkts> <total_drops> <line_x> ] [ <server_consolidated_hdr>
[ TABLE_server_info <server_helper_addr> <server_vrf> <server_total_request> <server_total_response>
] <line_y> ] [ <l3_fwd_hdr> <l3_fwd_rx_pkts> <l3_fwd_tx_pkts> <l3_fwd_drops> <non_dhcp_hdr>
<non_dhcp_rx_pkts> <non_dhcp_tx_pkts> <non_dhcp_drops> <drop_hdr> <drop_validation_fail>
<drop_relay_disable> <drop_invalid_msg_type> <drop_intf_err> <drop_tx_sock_err>
<drop_tx_fail_client_intf> <drop_unknown_op_intf> <drop_l3_unknown_op_intf> <drop_max_hops>
<drop_opt82_insert_fail> <drop_malformed> <drop_mct_drop> <drop_untrusted_relay_intf> ] [
<server_discover> <server_request> <server_decline> <server_release> <server_inform> <server_ack>
<server_nack> <server_offer> <server_resp_hdr> <drop_unknown> <server_req_hdr> ] <footer> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
relay	DHCP Relay
statistics	Statistics related to DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
serverip	(Optional) Helper address
<i>ip-addr-val</i>	(Optional) IP address
use-vrf	(Optional) helper address VRF membership
<i>vrf-name</i>	(Optional) VRF name
<i>__readonly__</i>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional) dhcp message statistics header
<i>msg_type_str</i>	(Optional) dhcp message type
<i>rx_pkts</i>	(Optional) received dhcp packets
<i>tx_pkts</i>	(Optional) forwarded dhcp packets
<i>drops</i>	(Optional) dhcp packet drops

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

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

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

Command Mode

- /exec

show ip dhcp snooping

```
show ip dhcp snooping [ __readonly__ [ <snoop_service_enable> ] <snoop_gbl_enable> [ <snoop_vlan_enable>
] [ <snoop_oper_vlan_enable> ] <snoop_opt82_enable> <snoop_subopt_format_tlv_enable>
<snoop_hwaddr_verify_enable> <snoop_hdr> [ { TABLE_intf_entry <intf_entry_if_index>
<intf_entry_trust_dhcp> <intf_entry_pkt_limit> } ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
snooping	DHCP snooping
<i>__readonly__</i>	(Optional) Read only
<i>snoop_service_enable</i>	(Optional)
<i>snoop_gbl_enable</i>	(Optional)
<i>snoop_vlan_enable</i>	(Optional)
<i>snoop_oper_vlan_enable</i>	(Optional)
<i>snoop_opt82_enable</i>	(Optional)
<i>snoop_subopt_format_tlv_enable</i>	(Optional)
<i>snoop_hwaddr_verify_enable</i>	(Optional)
<i>snoop_hdr</i>	(Optional)
TABLE_intf_entry	(Optional)
<i>intf_entry_if_index</i>	(Optional)
<i>intf_entry_trust_dhcp</i>	(Optional) is DHCP snooping trusted on the interface
<i>intf_entry_pkt_limit</i>	(Optional) limit for DHCP packets per second on the interface

Command Mode

- /exec

show ip dhcp snooping binding

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

Syntax Description

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

Command Mode

- /exec

show ip dhcp snooping statistics

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

Syntax Description

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

Command Mode

- /exec

show ip dhcp status

```
show ip dhcp status [ __readonly__ [ <current_cli_op> ] [ <last_cli_op> <last_cli_stat> ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
status	Current CLI command and execution status of the last command
<i>__readonly__</i>	(Optional) Read only
<i>current_cli_op</i>	(Optional) current cli operation
<i>last_cli_op</i>	(Optional) last cli operation
<i>last_cli_stat</i>	(Optional) last cli status

Command Mode

- /exec

show ip dns source-interface

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

Syntax Description

show	Show running system information
ip	Display IP information
dns	Display domain-lookup information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipdnsvrf	(Optional) source interface of dns given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip dns source-interface vrf all

```
show ip dns source-interface vrf all [ __readonly__ [ { TABLE_ipdns <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
dns	Display domain-lookup information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipdns	(Optional) source interface of dns
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip eigrp

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_asn <asn> <router_id> TABLE_vrf <vrf> <eigrp_ptag> <instance_num> <state> <authen_md5>
<authen_keychain> <metric_weight_k1> <metric_weight_k2> <metric_weight_k3> <metric_weight_k4>
<metric_weight_k5> [ <metric_weight_k6> <metric_rib_scale> ] <metric_version> <eigrp_proto> {
<multicast_group> | <multicast_groupv6> } <int_distance> <ext_distance> <max_paths> <active_interval>
<num_interfaces> <num_lo_interfaces> <num_pass_interfaces> <num_peers> [ { TABLE_redist
<redist_srcproto> <redist_routemap> } ] <tmap_route_map> [ <tmap_filter_configured> ]
<default_info_originate> [ <default_info_route_map> <default_info_originate_always> ] <graceful_restart>
<stub_configured> [ <stub_option_connected> <stub_option_static> <stub_option_summary>
<stub_option_redist> <stub_option_leak_map> <stub_option_receive_only> ] <isolate> <nsf_converge_time>
<nsf_converge_expires> <nsf_route_hold_time> <nsf_route_hold_expires> <nsf_signal_time>
<nsf_signal_expires> <redist_max_prefix> [ <redist_max_prefix_mode> <redist_prefix_count>
<redist_prefix_max> <redist_limit_threshold> <redist_limit_retry_count> <redist_limit_retry_max>
<redist_limit_timer_left> <redist_limit_timeout> ] <bfd_enabled> <eigrp_mode> [ { TABLE_command_q
<addr> <mask> } ] <await_redist_proto_converge> <suppress_fib_pending> <nsf_in_progress> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
__readonly__	(Optional)
TABLE_asn	(Optional) AS Number table
<i>asn</i>	(Optional) AS number
<i>router_id</i>	(Optional) Router-ID
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>eigrp_ptag</i>	(Optional) Process-tag for EIGRP
<i>instance_num</i>	(Optional) EIGRP Instance Number

<i>state</i>	(Optional) EIGRP Process Status
<i>authen_md5</i>	(Optional) Authentication Mode
<i>authen_keychain</i>	(Optional) Authentication Key-Chain
<i>metric_weight_k1</i>	(Optional) DUAL metric k1
<i>metric_weight_k2</i>	(Optional) DUAL metric k2
<i>metric_weight_k3</i>	(Optional) DUAL metric k3
<i>metric_weight_k4</i>	(Optional) DUAL metric k4
<i>metric_weight_k5</i>	(Optional) DUAL metric k5
<i>metric_weight_k6</i>	(Optional) DUAL metric k6
<i>metric_rib_scale</i>	(Optional) RIB Scale
<i>metric_version</i>	(Optional) Metric version
<i>eigrp_proto</i>	(Optional) IP Protocol number
<i>multicast_group</i>	(Optional) Multicast Group Address
<i>int_distance</i>	(Optional) Internal Administrative Distance
<i>ext_distance</i>	(Optional) External Administrative Distance
<i>max_paths</i>	(Optional) Maximum paths allowed for a dndb
<i>active_interval</i>	(Optional) Active Interval in minutes
<i>num_interfaces</i>	(Optional) Number of EIGRP interfaces configured under this AS
<i>num_lo_interfaces</i>	(Optional) Number of EIGRP loopback interfaces configured under this AS
<i>num_pass_interfaces</i>	(Optional) Number of EIGRP Passive interfaces configured under this AS
<i>num_peers</i>	(Optional) Number of EIGRP peers
TABLE_redist	(Optional) Redistribution Table
<i>redist_srcproto</i>	(Optional) Source protocol of the redistributed route
<i>redist_routemap</i>	(Optional) Route-map used in this redistribution
<i>tmap_route_map</i>	(Optional) Tablemap Policy name
<i>tmap_filter_configured</i>	(Optional) Tablemap filter configured?
<i>default_info_originate</i>	(Optional) Default-info Policy Originate?

<i>default_info_route_map</i>	(Optional) Default-info Policy name
<i>default_info_originate_always</i>	(Optional) Default-info Originate always?
<i>graceful_restart</i>	(Optional) Graceful restart configured?
<i>stub_configured</i>	(Optional) Stub-Routing configured?
<i>stub_option_connected</i>	(Optional) Advertise connected routes?
<i>stub_option_static</i>	(Optional) Advertise static routes?
<i>stub_option_summary</i>	(Optional) Advertise summary routes?
<i>stub_option_redist</i>	(Optional) Advertise redistributed routes?
<i>stub_option_leak_map</i>	(Optional) Allow routes permitted by leak-map?
<i>stub_option_receive_only</i>	(Optional) Configured as receive only?
<i>isolate</i>	(Optional) Isolate is enabled
<i>nsf_converge_time</i>	(Optional) NSF converge time limit
<i>nsf_converge_expires</i>	(Optional) NSF converge time expires
<i>nsf_route_hold_time</i>	(Optional) NSF route-hold time limit
<i>nsf_route_hold_expires</i>	(Optional) NSF route-hold time expires
<i>nsf_signal_time</i>	(Optional) NSF signal time limit
<i>nsf_signal_expires</i>	(Optional) NSF signal time expires
<i>redist_max_prefix</i>	(Optional) Redistributed max-prefix enabled?
<i>redist_max_prefix_mode</i>	(Optional) Redistributed max-prefix mode
<i>redist_prefix_count</i>	(Optional) Redistributed prefix count
<i>redist_prefix_max</i>	(Optional) Redistributed prefix max
<i>redist_limit_threshold</i>	(Optional) Redistributed max-prefix warning threshold
<i>redist_limit_retry_count</i>	(Optional) Redistributed max-prefix retries attempted
<i>redist_limit_retry_max</i>	(Optional) Redistributed max-prefix retries allowed
<i>redist_limit_timer_left</i>	(Optional) Redistributed max-prefix timer left
<i>redist_limit_timeout</i>	(Optional) Redistributed max-prefix timeout
<i>bfd_enabled</i>	(Optional) Is BFD enabled?
<i>eigrp_mmode</i>	(Optional) EIGRP MMODE initialized?
TABLE_command_q	(Optional) Network commands table

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

Command Mode

- /exec

show ip eigrp accounting

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] accounting [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_asn <asn> <router_id> TABLE_vrf <vrf> <total_prefix> <redist_state> <redist_count>
<restart_count> <acct_timer> [ TABLE_peer { <p_ipaddr> | <p_ipv6addr> } <p_state> <p_ifname>
<p_prefix_count> <p_restart_count> <p_acct_timer> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
accounting	IP-EIGRP Accounting
<i>__readonly__</i>	(Optional)
TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
<i>router_id</i>	(Optional) Router-ID
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>total_prefix</i>	(Optional) Total prefix count (Aggregate)
<i>redist_state</i>	(Optional) State of redistributed prefixes
<i>redist_count</i>	(Optional) Number of redistributed prefixes
<i>restart_count</i>	(Optional) Number of times the prefix was suspended
<i>acct_timer</i>	(Optional) Accounting timer
TABLE_peer	(Optional) Peer (Prefix) table
<i>p_ipaddr</i>	(Optional) Peer IP addr

<i>p_state</i>	(Optional) Peer state
<i>p_ifname</i>	(Optional) Peering interface
<i>p_prefix_count</i>	(Optional) Number of Prefixes learnt from the peer
<i>p_restart_count</i>	(Optional) Number of times the prefix was suspended
<i>p_acct_timer</i>	(Optional) Peer accounting timer

Command Mode

- /exec

show ip eigrp interfaces

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] interfaces [ detail ] [ <interface> ] [ brief ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_asn <asn> TABLE_vrf <vrf> [ TABLE_if <ifname>
<peer_count> <xmitq_unrel> <xmitq_rel> <mean_srtt> <send_intvl_unrel> <send_intvl_rel>
<mcast_flow_delay> <pending_routes> [ <hello_intvl> <holdtime_intvl> <next_xmit_serno>
<packetize_pending> <mcasts_sent_unrel> <mcasts_sent_rel> <ucasts_sent_unrel> <ucasts_sent_rel>
<mcast_exceptions> <cr_packets> <acks_suppressed> <retrans_sent> <out_of_seq_rcvd> <stub_interface>
<nexthop_self> <auth_mode_md5> <auth_key_chain> <use_multicast> <classic_metric_peers>
<wide_metric_peers> <bfd_enabled> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
interfaces	IP-EIGRP interfaces
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>interface</i>	(Optional) Interface
brief	(Optional) Show summary information only
__readonly__	(Optional)
TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
TABLE_if	(Optional) Interface table
<i>ifname</i>	(Optional) Interface name
<i>peer_count</i>	(Optional) Number of Peer on this interface

<i>xmitq_unrel</i>	(Optional) Xmit Q (unreliable) count
<i>xmitq_rel</i>	(Optional) Xmit Q (reliable) count
<i>mean_srtt</i>	(Optional) Mean of all peer SRTTs
<i>send_intvl_unrel</i>	(Optional) Base packet gap, per queue (unreliable)
<i>send_intvl_rel</i>	(Optional) Base packet gap, per queue (reliable)
<i>mcast_flow_delay</i>	(Optional) Last delay for Multicast flow control timer
<i>pending_routes</i>	(Optional) Pending routes on the interface
<i>hello_intvl</i>	(Optional) Configured hello interval for interface
<i>holdtime_intvl</i>	(Optional) Configured holdtime interval for interface
<i>next_xmit_serno</i>	(Optional) Next xmit serial number
<i>packetize_pending</i>	(Optional) Packetization pending?
<i>mcasts_sent_unrel</i>	(Optional) Number of Multicasts sent (unreliable)
<i>mcasts_sent_rel</i>	(Optional) Number of Multicasts sent (reliable)
<i>ucasts_sent_unrel</i>	(Optional) Number of Unicasts sent (unreliable)
<i>ucasts_sent_rel</i>	(Optional) Number of Unicasts sent (reliable)
<i>mcast_exceptions</i>	(Optional) Multicast exceptions (Count of multicasts sent as unicasts)
<i>cr_packets</i>	(Optional) Count of Multicasts sent with CR
<i>acks_suppressed</i>	(Optional) Count of suppressed ACK packets
<i>retrans_sent</i>	(Optional) Count of Retransmissions sent
<i>out_of_seq_rcvd</i>	(Optional) Count of packets received Out-of-Sequence
<i>stub_interface</i>	(Optional) All Peers are stubbed?
<i>nexthop_self</i>	(Optional) should retain next-hop?
<i>auth_mode_md5</i>	(Optional) MD5 Authentication enabled?
<i>auth_key_chain</i>	(Optional) Authentication key-chain
<i>use_multicast</i>	(Optional) Use Multicast?
<i>classic_metric_peers</i>	(Optional) Classical metric peers
<i>wide_metric_peers</i>	(Optional) Wide metric peers
<i>bfd_enabled</i>	(Optional) BFD enabled

Command Mode

show ip eigrp interfaces

- /exec

show ip eigrp traffic

```
show { ip | ipv6 } eigrp [ <eigrp-ptag> ] traffic [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_asn <asn> TABLE_vrf <vrf> <hellos_sent> <hellos_rcvd> <updates_sent> <updates_rcvd>
<queries_sent> <queries_rcvd> <replies_sent> <replies_rcvd> <acks_sent> <acks_rcvd> <max_inqueue_depth>
<inqueue_drops> <sia_queries_sent> <sia_queries_rcvd> <sia_replies_sent> <sia_replies_rcvd> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>eigrp-ptag</i>	(Optional) Process tag
traffic	IP-EIGRP Traffic Statistics
<u>__readonly__</u>	(Optional)
TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>hellos_sent</i>	(Optional) Number of Hellos sent
<i>hellos_rcvd</i>	(Optional) Number of Hellos received
<i>updates_sent</i>	(Optional) Number of Updates sent
<i>updates_rcvd</i>	(Optional) Number of Updates received
<i>queries_sent</i>	(Optional) Number of Queries sent
<i>queries_rcvd</i>	(Optional) Number of Queries received
<i>replies_sent</i>	(Optional) Number of Replies sent
<i>replies_rcvd</i>	(Optional) Number of Replies received

<i>acks_sent</i>	(Optional) Number of ACKs sent
<i>acks_rcvd</i>	(Optional) Number of ACKs received
<i>max_inqueue_depth</i>	(Optional) Input queue high water mark
<i>inqueue_drops</i>	(Optional) Input queue drops
<i>sia_queries_sent</i>	(Optional) Number of SIA queries sent
<i>sia_queries_rcvd</i>	(Optional) Number of SIA queries received
<i>sia_replies_sent</i>	(Optional) Number of SIA replies sent
<i>sia_replies_rcvd</i>	(Optional) Number of SIA replies received

Command Mode

- /exec

show ip extcommunity-list

```
show ip extcommunity-list [ <extcl_name> ] [ __readonly__ TABLE_extcl <name> <action> <rule> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
extcommunity-list	List extcommunity-list
<i>extcl_name</i>	(Optional) Standard or expanded community-list name
<i>__readonly__</i>	(Optional)
<i>TABLE_extcl</i>	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip fib distribution

show ip fib distribution [pauz | rezum]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution information
pauz	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
rezum	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

Command Mode

- /exec

show ip fib distribution clients

show ip fib distribution clients [__readonly__ <id><pid><name><shms><shme><shmn>]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution info
clients	unicast client information
__readonly__	(Optional)

Command Mode

- /exec

show ip fib distribution mroute

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

Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
mroute	MFDM IP multicast routing table
<i>group</i>	(Optional) IPv4 Multicast Group Address
<i>gprefix</i>	(Optional) IPv4 Multicast Group Prefix
<i>source</i>	(Optional) IPv4 Source Address
table	(Optional) Specify Multicast Routing Table
<i>id</i>	(Optional) Multicast Routing Table Identifier
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>table-name</i>	(Optional)
<i>table-id</i>	(Optional)
<i>table-wildcard</i>	(Optional)
<i>total-num-groups</i>	(Optional)
TABLE_route_summary	(Optional)
<i>total-num-routes</i>	(Optional)
<i>num-star-g-route</i>	(Optional)
<i>num-sg-route</i>	(Optional)
<i>num-star-g-prfx</i>	(Optional)

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

Command Mode

- /exec

show ip fib distribution multicast

```
show ip fib distribution multicast [ messages ] [ __readonly__ <fibstate> <slot> <accepting_routes>
<num_accepting_routes> ]
```

Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
messages	(Optional) Outstanding Message Information
<i>__readonly__</i>	(Optional)
<i>fibstate</i>	(Optional) IP Multicast FIB process state
<i>slot</i>	(Optional) Slot
<i>accepting_routes</i>	(Optional) Indicates whether FIB is accepting routes
<i>num_accepting_routes</i>	(Optional) Number of fibs accepting routes

Command Mode

- /exec

show ip fib distribution state

```
show ip fib distribution state [ __readonly__ <slot> <state><tc><tpre><tv4ac><tv6ac> { TABLE_fib_state
<tid><tafi><prc><pc><tname> } ]
```

Syntax Description

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

Command Mode

- /exec

show ip fib mroute

```
show ip fib mroute [ { <group> | <gprefix> } [ <source> ] ] [ table <table-id> ] [ module <module> ] [
__readonly__ <table_type> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal> <rpfif>
<rpf_ifindex> <flag> <flag_value> <route_pkts> <route_bytes> <oiflist_id> <platform_id> <oif_count>
<refcount> <oifname> <oifindex> <oif_pkts> <oif_bytes> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	Multicast IPv4 routes
<i>group</i>	(Optional) Multicast IPv4 Group Address
<i>gprefix</i>	(Optional) Multicast IPv4 Group Prefix
<i>source</i>	(Optional) Multicast IPv4 Source Address
table	(Optional) display info per vpn-id
<i>table-id</i>	(Optional) table-id
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>table_type</i>	(Optional) Table Type
<i>num_groups</i>	(Optional) Number of group entries in the table
<i>num_sources</i>	(Optional) Number of (S, G) entries for the group address
<i>src_len</i>	(Optional) Source Address Mask
<i>grp_len</i>	(Optional) Group address Mask
<i>df_ordinal</i>	(Optional) DF ordinal
<i>rpfif</i>	(Optional) RPF interface
<i>rpf_ifindex</i>	(Optional) RPF Interface ifIndex
<i>flag</i>	(Optional) Route type flag
<i>flag_value</i>	(Optional) hex value of route flag
<i>route_pkts</i>	(Optional) Route packet count

<i>route_bytes</i>	(Optional) Route bytes
<i>oiflist_id</i>	(Optional) OIF list Identifier
<i>platform_id</i>	(Optional) Platform-index
<i>oif_count</i>	(Optional) Number of OIFs
<i>refcount</i>	(Optional) OIF list Reference Count
<i>oifname</i>	(Optional) OIF Interface name
<i>oifindex</i>	(Optional) OIF Interface ifIndex
<i>oif_pkts</i>	(Optional) OIF packets
<i>oif_bytes</i>	(Optional) OIF bytes

Command Mode

- /exec

show ip fib route

```
show ip fib route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ table <table_id> ] [ summary | <prefix>
[ longer-prefixes ] | <address> | interface <interface> | next-hop <nh> | attached | unresolved | adjacency {
<aif> <anh> | drop | glean | punt } ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ <header> <vrfname> <tableid> <prefix-count> <pfx> { <nexthop> | <special> } <intf>
<route-count> <path-count> <mask-length> <routes-per-mask> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
route	display IP routing table
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>table_id</i>	(Optional) table number
summary	(Optional) display route counts
<i>prefix</i>	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
<i>address</i>	(Optional) display single longest match route
interface	(Optional) display routes with this output i/f only
<i>interface</i>	(Optional) output interface
next-hop	(Optional) display routes with this next-hop only
<i>nh</i>	(Optional) next hop address
attached	(Optional) display directly connected routes
unresolved	(Optional) display unresolved routes
adjacency	(Optional) display adjacency information
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next-hop address

<i>drop</i>	(Optional) display routes via drop adjacency
<i>glean</i>	(Optional) display routes via glean adjacency
<i>punt</i>	(Optional) display routes via punt adjacency
<i>module</i>	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>header</i>	(Optional) header string
<i>vrfname</i>	(Optional) VRF name
<i>tableid</i>	(Optional) table identifier
<i>prefix-count</i>	(Optional) total number of prefix in VRF
<i>px</i>	(Optional) ipv4 prefix
<i>nexthop</i>	(Optional) next hop address
<i>special</i>	(Optional) special adjacencies
<i>intf</i>	(Optional) output interface
<i>route-count</i>	(Optional) total number of routes in VRF
<i>path-count</i>	(Optional) total number of paths in VRF
<i>mask-length</i>	(Optional) length of mask
<i>routes-per-mask</i>	(Optional)

Command Mode

- /exec

show ip ftp source-interface

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

Syntax Description

show	Show running system information
ip	Display IP information
ftp	Display FTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipftpvrf	(Optional) source interface of ftp given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip ftp source-interface vrf all

```
show ip ftp source-interface vrf all [ __readonly__ [ { TABLE_ipftp <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ftp	Display FTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipftp	(Optional) source interface of ftp
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip http source-interface

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

Syntax Description

show	Show running system information
ip	Display IP information
http	Display HTTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_iphttpvrf	(Optional) source interface of http given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip http source-interface vrf all

```
show ip http source-interface vrf all [ __readonly__ [ { TABLE_iphttp <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
http	Display HTTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iphttp	(Optional) source interface of http
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip igmp groups

```
show ip igmp { groups | route } [ <source> [ <group> ] | <group> [ <source> ] ] [ <interface> ] [ summary ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ summary-old ] [ serialize ] [ __readonly__ ] [ TABLE_vrf ]
[ <if-name> ] [ <vrfname> ] [ <entry-count> ] [ <group-addr> ] [ <sourceaddress> ] [ TABLE_group ]
[ <group-addr> ] [ <group-type> ] [ <if-name> ] [ <uptime> ] [ <expires> ] [ <reporter> ] [ TABLE_source ]
[ <source-addr> ] [ <group-type> ] [ <translate> ] [ <if-name> ] [ <uptime> ] [ <expires> ] [ <reporter> ] ] ] [
<vrf-cntxt> ] [ <g-count> ] [ <sg-count> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
groups	Display IGMP attached group membership information
route	Display IGMP attached group membership information
<i>group</i>	(Optional) Multicast IP address of single group to display
<i>source</i>	(Optional) Source IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>interface</i>	(Optional) Display group membership on single interface name
summary	(Optional) Display group summary
summary-old	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
serialize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrfname</i>	(Optional)
<i>if-name</i>	(Optional)
<i>group-addr</i>	(Optional)
<i>entry-count</i>	(Optional)
<i>sourceaddress</i>	(Optional)

TABLE_group	(Optional)
<i>group-addr</i>	(Optional)
<i>group-type</i>	(Optional)
<i>if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>reporter</i>	(Optional)
TABLE_source	(Optional)
<i>source-addr</i>	(Optional)
<i>group-type</i>	(Optional)
<i>translate</i>	(Optional)
<i>if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>reporter</i>	(Optional)
<i>vrf-cntxt</i>	(Optional)
<i>g-count</i>	(Optional)
<i>sg-count</i>	(Optional)

Command Mode

- /exec

show ip igmp interface

```
show ip igmp interface [ <interface> ] [ brief ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
serialize ] [ __readonly__ TABLE_vrf <vrf> [ <entry-count> ] [ [ TABLE_brief [ <if-name> ] [ <addr> ] [
<querier> ] [ <mc> ] [ <ver> ] ] [ TABLE_if <if-name> [ <if-status> ] [ <ip-sum> ] [ <addr> ] [ <querier> ]
[ <q-ver> ] [ <next-query> ] [ <expires> ] [ <mc> ] [ <ver> ] [ <host-ver> ] [ <qi> ] [ <cqi> ] [ <mrt> ] [
<cmrt> ] [ <sqi> ] [ <csqi> ] [ <sqc> ] [ <lmrt> ] [ <lmqc> ] [ <gt> ] [ <cgt> ] [ <qt> ] [ <cqt> ] [ <uri> ] [
<rv> ] [ <crv> ] [ <rl> ] [ <rc> ] [ <il> ] [ <report-policy> ] [ <join-group-map> ] [ <static-group-map> ] [
<host-proxy> ] [ <host-sg-proxy> ] [ <host-proxy-group-map> ] [ <un-solicited> ] [ <unsoint> ] [ <v1rr> ] [
<v2qs> ] [ <v2qr> ] [ <v2rs> ] [ <v2rr> ] [ <v2ls> ] [ <v2lr> ] [ <v3qs> ] [ <v3qr> ] [ <v3rs> ] [ <v3rr> ] [
<v2gqdest> ] [ <v3gqdest> ] [ <cse> ] [ <ple> ] [ <lsip> ] [ <scf> ] [ <qnq> ] [ <rvm> ] [ <qvm> ] [ <uit> ]
[ <v1gdam> ] [ <v2gdam> ] [ <v3dai> ] [ <ra> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
interface	Display IGMP interface related information
<i>interface</i>	(Optional) Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
serialize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf</i>	(Optional)
<i>entry-count</i>	(Optional)
<i>TABLE_brief</i>	(Optional)
<i>if-name</i>	(Optional)
<i>addr</i>	(Optional)
<i>querier</i>	(Optional)

<i>mc</i>	(Optional)
<i>ver</i>	(Optional)
TABLE_if	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>ip-sum</i>	(Optional)
<i>addr</i>	(Optional)
<i>querier</i>	(Optional)
<i>q-ver</i>	(Optional)
<i>next-query</i>	(Optional)
<i>expires</i>	(Optional)
<i>mc</i>	(Optional)
<i>ver</i>	(Optional)
<i>host-ver</i>	(Optional)
<i>qi</i>	(Optional)
<i>cqi</i>	(Optional)
<i>mrt</i>	(Optional)
<i>cmrt</i>	(Optional)
<i>sqi</i>	(Optional)
<i>csqi</i>	(Optional)
<i>sqc</i>	(Optional)
<i>lmmrt</i>	(Optional)
<i>lmqc</i>	(Optional)
<i>gt</i>	(Optional)
<i>cgt</i>	(Optional)
<i>qt</i>	(Optional)
<i>cqt</i>	(Optional)
<i>uri</i>	(Optional)
<i>rv</i>	(Optional)

<i>crv</i>	(Optional)
<i>rll</i>	(Optional)
<i>rc</i>	(Optional)
<i>v1rr</i>	(Optional)
<i>v2qs</i>	(Optional)
<i>v2qr</i>	(Optional)
<i>v2rs</i>	(Optional)
<i>v2rr</i>	(Optional)
<i>v2ls</i>	(Optional)
<i>v2lr</i>	(Optional)
<i>v3qs</i>	(Optional)
<i>v3qr</i>	(Optional)
<i>v3rs</i>	(Optional)
<i>v3rr</i>	(Optional)
<i>v2ggdest</i>	(Optional)
<i>v3ggdest</i>	(Optional)
<i>cse</i>	(Optional)
<i>ple</i>	(Optional)
<i>lsip</i>	(Optional)
<i>scf</i>	(Optional)
<i>qnq</i>	(Optional)
<i>rvm</i>	(Optional)
<i>qvm</i>	(Optional)
<i>uit</i>	(Optional)
<i>v1gdam</i>	(Optional)
<i>v2gdam</i>	(Optional)
<i>v3dai</i>	(Optional)
<i>ra</i>	(Optional)
<i>static-group-map</i>	(Optional)

<i>join-group-map</i>	(Optional)
<i>host-proxy-group-map</i>	(Optional)
<i>il</i>	(Optional)
<i>report-policy</i>	(Optional)
<i>host-proxy</i>	(Optional)
<i>host-sg-proxy</i>	(Optional)
<i>un-solicited</i>	(Optional)
<i>unsoint</i>	(Optional)

Command Mode

- /exec

show ip igmp local-groups

```
show ip igmp local-groups [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf [ <vrf-name> ] [ TABLE_if [ <if-name> ] [ TABLE_grp [ <group-addr> ] [ TABLE_src [
<source-addr> ] [ <last-reported> ] [ <local-group> ] [ <static-oif> ] [ <report-only> ] [ <host-proxy> ] ] ] ]
] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
local-groups	Display IGMP local group membership information
<i>interface</i>	(Optional) Display group membership on single interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
TABLE_if	(Optional)
<i>if-name</i>	(Optional)
TABLE_grp	(Optional)
<i>group-addr</i>	(Optional)
TABLE_src	(Optional)
<i>source-addr</i>	(Optional)
<i>last-reported</i>	(Optional)
<i>local-group</i>	(Optional)
<i>static-oif</i>	(Optional)
<i>report-only</i>	(Optional)
<i>host-proxy</i>	(Optional)

Command Mode

- /exec

show ip igmp policy statistics reports

```
show ip igmp policy statistics reports [ <interface> ] [ __readonly__ [ TABLE_interface [ <if> ] [
TABLE_routemap [ <name> ] [ <action> ] [ <seq_num> ] [ TABLE_cmd [ <command> ] [ <compare_count>
] [ <match_count> ] ] ] [ <total_accept_count> ] [ <total_reject_count> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Show IGMP related information
policy	Policy related information
statistics	Policy statistics
reports	IGMP reports
<i>interface</i>	(Optional) Interface to display statistics for
<i>__readonly__</i>	(Optional)
<i>TABLE_interface</i>	(Optional)
<i>if</i>	(Optional)
<i>TABLE_routemap</i>	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
<i>TABLE_cmd</i>	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping

```
show ip igmp snooping [ { vlan <vlan> | bridge-domain <bdid> } ] [ serialize ] [ __readonly__ [ <vdc> ] [
<enabled> ] [ <omf> ] [ <grepsup> ] [ <gv3repsup> ] [ <glinklocalgrpsup> ] { TABLE_vlan <vlan-id> [
<description> ] [ <snoop-on> ] [ <qa> ] [ <qv> ] [ <qv> ] [ <qv> ] [ <qlmqi> ] [ <rv> ] [ <sq> ] [ <sqr> ] [ <eht> ] [
<fl> ] [ <repsup> ] [ <v3repsup> ] [ <vlinklocalgrpsup> ] [ <rpc> ] [ <gc> ] [ TABLE_active_ports [ <actvports>
] ] [ <lkupmode> ] [ <omf_enabled> ] [ <reportfloodenable> ] [ <reportfloodall> ] [ TABLE_intf <if-name>
] [ <leavegroupaddress> ] } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
vlan	(Optional) Display VLAN IGMP snooping membership information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping membership information
<i>bdid</i>	(Optional) Specify BD
serialize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
<i>vdc</i>	(Optional)
<i>enabled</i>	(Optional)
<i>omf</i>	(Optional)
<i>grepsup</i>	(Optional)
<i>gv3repsup</i>	(Optional)
<i>glinklocalgrpsup</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>description</i>	(Optional) description, if any
<i>snoop-on</i>	(Optional)
<i>qa</i>	(Optional)
<i>qv</i>	(Optional)

<i>qi</i>	(Optional)
<i>qlmqi</i>	(Optional)
<i>rv</i>	(Optional)
<i>sq</i>	(Optional)
<i>sqr</i>	(Optional)
<i>eht</i>	(Optional)
<i>fl</i>	(Optional)
<i>repsup</i>	(Optional)
<i>v3repsup</i>	(Optional)
<i>vlinklocalgrpsup</i>	(Optional)
<i>rpc</i>	(Optional)
<i>gc</i>	(Optional)
TABLE_active_ports	(Optional)
<i>actvports</i>	(Optional)
<i>lkupmode</i>	(Optional)
<i>omf_enabled</i>	(Optional)
<i>reportfloodenable</i>	(Optional)
<i>reportfloodall</i>	(Optional)
TABLE_intf	(Optional)
<i>if-name</i>	(Optional)
<i>leavegroupaddress</i>	(Optional)

Command Mode

- /exec

<i>expires</i>	(Optional)
<i>version</i>	(Optional)
<i>num_of_reports</i>	(Optional)
<i>cfs-flag</i>	(Optional)
<i>native-flag</i>	(Optional)
<i>delete-pending</i>	(Optional)
<i>cfs-update-pending</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping filter details

```
show ip igmp snooping filter [ vlan <vlan_id> ] details [ __readonly__ { TABLE_vlanid <vlan-id>
<access-group> <group-channels-limit> <igmp-min-ver> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
filter	Shows filter policy configuration
vlan	(Optional) Only for the specified VLAN
<i>vlan_id</i>	(Optional) VLAN ID
details	Shows different Filter configurations
<i>__readonly__</i>	(Optional)
TABLE_vlanid	(Optional)
<i>vlan-id</i>	(Optional)
<i>access-group</i>	(Optional)
<i>group-channels-limit</i>	(Optional)
<i>igmp-min-ver</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping groups

```
show ip igmp snooping [ otv | remote ] groups [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ vlan
<vlan> | bridge-domain <bdid> ] [ detail ] [ summary ] [ serialize ] [ __readonly__ [ TABLE_vlan [ <vlan-id>
] [ <rports> ] [ <rtrPortFlag> ] [ TABLE_port <if-name> ] [ TABLE_rtrports <rport-if-name> ] [ <raddr> ]
[ TABLE_source <source> ] [ TABLE_group <addr> [ <g-mfdm> ] [ <ver> ] [ <old-host> ] [ <raddr> ] [
<static> ] [ <dynamic> ] [ TABLE_static_ports <static-if-name> ] [ TABLE_v2_ports <v2-if-name> [ <uptime>
] [ <expires> ] [ <gq-missed> ] ] [ TABLE_star_g_ports <star-g-if-name> [ <uptime> ] [ <expires> ] ] [
<g-vpc> ] [ <rsf> ] [ <js> ] [ TABLE_source <source> [ <srsf> ] [ <s-mfdm> ] [ <src-static> ] [ <src-dynamic>
] [ TABLE_src_static_ports <src-static-if-name> ] [ TABLE_src_dynamic [ <oifs> ] <dyn-if-name> [
<src-uptime> ] [ <src-expires> ] ] [ <s-vpc> ] ] ] [ <snoop-enabled> ] [ <omf-enabled> ] [ <group-count> ] [
<s-g-count> ] [ <total_star_g_count> ] [ <total_sg_count> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
otv	(Optional) IGMP Snooping OTV information
remote	(Optional) IGMP Snooping remote information
groups	Display snooping information for group address
summary	(Optional) Display snooping group summary
<i>group</i>	(Optional) Multicast IP address of single group to display
<i>source</i>	(Optional) Source IP address
vlan	(Optional) Display VLAN IGMP snooping membership information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping membership information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) Display detailed information for the group
serialize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>rports</i>	(Optional)

<i>rtrPortFlag</i>	(Optional)
<i>snoop-enabled</i>	(Optional)
<i>omf-enabled</i>	(Optional)
<i>group-count</i>	(Optional)
<i>s-g-count</i>	(Optional)
<i>total_star_g_count</i>	(Optional)
<i>total_sg_count</i>	(Optional)
TABLE_port	(Optional)
<i>if-name</i>	(Optional)
TABLE_rtrports	(Optional)
<i>rport-if-name</i>	(Optional)
<i>raddr</i>	(Optional)
TABLE_group	(Optional)
<i>addr</i>	(Optional)
<i>ver</i>	(Optional)
<i>raddr</i>	(Optional)
TABLE_source	(Optional)
<i>source</i>	(Optional)
<i>rsf</i>	(Optional)
<i>js</i>	(Optional)
<i>g-mfdm</i>	(Optional)
<i>old-host</i>	(Optional)
<i>g-vpc</i>	(Optional)
<i>static</i>	(Optional)
<i>dynamic</i>	(Optional)
TABLE_static_ports	(Optional)
<i>static-if-name</i>	(Optional)
TABLE_v2_ports	(Optional)
<i>v2-if-name</i>	(Optional)

<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>gq-missed</i>	(Optional)
TABLE_star_g_ports	(Optional)
<i>star-g-if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
TABLE_source	(Optional)
<i>source</i>	(Optional)
<i>srsf</i>	(Optional)
<i>s-mfdm</i>	(Optional)
<i>s-vpc</i>	(Optional)
<i>src-static</i>	(Optional)
<i>src-dynamic</i>	(Optional)
TABLE_src_static_ports	(Optional)
<i>src-static-if-name</i>	(Optional)
TABLE_src_dynamic	(Optional)
<i>oifs</i>	(Optional)
<i>dyn-if-name</i>	(Optional)
<i>src-uptime</i>	(Optional)
<i>src-expires</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping lookup-mode

```
show ip igmp snooping lookup-mode [ vlan <vlan> | bridge-domain <bidid> ] [ __readonly__ [ <configured> ] [ <operational> ] [ TABLE_vlan [ <vlan-id> ] [ <lookup> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
lookup-mode	IGMP Snooping lkup mode information
vlan	(Optional) Display VLAN information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD information
<i>bidid</i>	(Optional) Specify BD
<i>__readonly__</i>	(Optional)
<i>configured</i>	(Optional)
<i>operational</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>lookup</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping mac-oif

```
show ip igmp snooping mac-oif [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__ [ <totaloif> ] [ TABLE_vlan [ <vlan-id> ] [ <count> ] [ TABLE_mac [ <mac-addr> ] [ TABLE_oif [ <oifs> ] ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
mac-oif	IGMP Snooping static mac oif information
vlan	(Optional) Display VLAN information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) static mac oif detail, M2RIB oif info
<i>__readonly__</i>	(Optional)
<i>totaloif</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>count</i>	(Optional)
TABLE_mac	(Optional)
<i>mac-addr</i>	(Optional)
TABLE_oif	(Optional)
<i>oifs</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping mrouter

```
show ip igmp snooping mrouter [ otv ] [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ serialize ] [
__readonly__ TABLE_vlan <vlan-id> TABLE_intf <if-name> <static> <dynamic> <vpc>
<fabricpath-core-port> <co-learned> <user-configured> <learnt-by-peer> <uptime> <expires> <internal> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
mrouter	Display multicast routers detected
otv	(Optional) IGMP Snooping OTV information
vlan	(Optional) Display VLAN multicast router information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD multicast router information
<i>bdid</i>	(Optional) Specify BD
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
serialize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
TABLE_intf	(Optional)
<i>if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>static</i>	(Optional)
<i>dynamic</i>	(Optional)
<i>internal</i>	(Optional)
<i>vpc</i>	(Optional)
<i>fabricpath-core-port</i>	(Optional)

<i>co-learned</i>	(Optional)
<i>user-configured</i>	(Optional)
<i>learnt-by-peer</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping otv vlan brief

```
show ip igmp snooping otv vlan brief [ __readonly__ <vlan-id> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
otv	IGMP Snooping OTV information
vlan	Display VLAN/BD information
brief	Brief output
<i>__readonly__</i>	(Optional)
<i>vlan-id</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping pw vlan brief

show ip igmp snooping pw vlan brief [__readonly__ <vlan-id>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
pw	IGMP Snooping PW information
vlan	Display VLAN/BD information
brief	Brief output
__readonly__	(Optional)
<i>vlan-id</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping querier

```
show ip igmp snooping querier [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__ [ TABLE_vlan
<vlan-id> <qa> <qv> [ <expires> ] <qiod> <qname> <int> [ <last_member_query_count> ] [
<config_last_member_query_count> ] [ <snooping_version> ] [ <config_qv> ] [ <robust> ] [ <config_robust>
] [ <startup_query_count> ] [ <config_startup_query_count> ] [ <startup_query_interval> ] [
<config_startup_query_interval> ] [ <mbr_query_interval> ] [ <config_mbr_query_interval> ] [
<snooping_query_intvl> ] [ <config_snooping_query_intvl> ] [ <gquery_response_time> ] [
<config_gquery_response_time> ] [ <querier_timeout> ] [ <querier_timeout_flag> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
querier	Display snooping querier information
vlan	(Optional) Display VLAN IGMP snooping querier information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping querier information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>qa</i>	(Optional)
<i>expires</i>	(Optional)
<i>qv</i>	(Optional)
<i>qiod</i>	(Optional)
<i>qname</i>	(Optional)
<i>int</i>	(Optional)
<i>last_member_query_count</i>	(Optional)
<i>config_last_member_query_count</i>	(Optional)
<i>snooping_version</i>	(Optional)

<i>config_qv</i>	(Optional)
<i>robust</i>	(Optional)
<i>config_robust</i>	(Optional)
<i>startup_query_count</i>	(Optional)
<i>config_startup_query_count</i>	(Optional)
<i>startup_query_interval</i>	(Optional)
<i>config_startup_query_interval</i>	(Optional)
<i>mbr_query_interval</i>	(Optional)
<i>config_mbr_query_interval</i>	(Optional)
<i>snooping_query_intvl</i>	(Optional)
<i>config_snooping_query_intvl</i>	(Optional)
<i>gquery_response_time</i>	(Optional)
<i>config_gquery_response_time</i>	(Optional)
<i>querier_timeout</i>	(Optional)
<i>querier_timeout_flag</i>	(Optional)

Command Mode

- /exec

show ip igmp snooping report statistics

```
show ip igmp snooping { report-policy | access-group } statistics [ vlan <vlan> ] [ __readonly__ [
TABLE_vlanid { <vlan-id> <rpm-type> <policy-name> } ] [ TABLE_filtervlanid { <filter-vlan-id>
<filter-policy-name> } ] ]
```

Syntax Description

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

Command Mode

- /exec

show ip igmp snooping statistics

```
show ip igmp snooping statistics [ global | vlan <vlan> | bridge-domain <bdid> ] [ serialize ] [ __readonly__
[ <pr> ] [ <inv_pkt> ] [ <inv_pkt_bd> ] [ <inv_pkt_no_fd_vxlan> ] [ <pnv> ] [ <loopbkpkt> ] [ <mrdloopbk>
] [ <pf> ] [ <vpcdrqs> ] [ <vpcdrqr> ] [ <vpcdrqf> ] [ <vpcdrus> ] [ <vpcdur> ] [ <vpcdruf> ] [ <vpccfssf>
] [ <vpccfsrs> ] [ <vpccfsrr> ] [ <vpccfsrf> ] [ <vpccfsrfp> ] [ <vpccfsurls> ] [ <vpccfsurlr> ] [ <vpccfsurlf>
] [ <vpccfsrls> ] [ <vpccfsrlr> ] [ <vpccfsrlf> ] [ <stptcnr> ] [ <imapif> ] [ <mfreq> ] [ <mfcmps> ] [ <inv_iod>
] [ <mfdbgmps> ] [ <bufsnt> ] [ <bufackr> ] [ <vpcmismatch> ] [ { TABLE_vlan [ <vlan-id> ] [ <ut> ] [
<vpr> ] [ <v1rr> ] [ <v2rr> ] [ <v3rr> ] [ <v1qr> ] [ <v2qr> ] [ <v3qr> ] [ <v2lr> ] [ <phr> ] [ <irr> ] [ <illgr>
] [ <iqr> ] [ <v1rs> ] [ <v2rs> ] [ <v2ls> ] [ <v2lsv1> ] [ <v3gs> ] [ <qo> ] [ <v2ro> ] [ <v2lo> ] [ <v3ro> ]
] [ <vps> ] [ <str> ] [ <vmr> ] [ <upr> ] [ <cps> ] [ <cpr> ] [ <cpe> ] [ <mps> ] [ <mpr> ] [ <mpe> ] [
<repflooded> ] [ <repfwded> ] [ <agd> ] [ <egd> ] [ <lvd> ] [ <qd> ] [ <pmd> ] } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
statistics	Display packet/error counter statistics
global	(Optional) Display global statistics
vlan	(Optional) Display VLAN statistics
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD statistics
<i>bdid</i>	(Optional) Specify BD
serialize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
<i>pr</i>	(Optional)
<i>inv_pkt</i>	(Optional)
<i>inv_pkt_bd</i>	(Optional)
<i>inv_pkt_no_fd_vxlan</i>	(Optional)
<i>pnv</i>	(Optional)
<i>loopbkpkt</i>	(Optional)
<i>mrdloopbk</i>	(Optional)
<i>pf</i>	(Optional)

<i>vpcdrqs</i>	(Optional)
<i>vpcdrqr</i>	(Optional)
<i>vpcdrqf</i>	(Optional)
<i>vpcdrus</i>	(Optional)
<i>vpcdrur</i>	(Optional)
<i>vpcdruf</i>	(Optional)
<i>vpccfssf</i>	(Optional)
<i>vpccfsrs</i>	(Optional)
<i>vpccfsrr</i>	(Optional)
<i>vpccfsrf</i>	(Optional)
<i>vpccfsrjf</i>	(Optional)
<i>vpccfsurl</i>	(Optional)
<i>vpccfsurlr</i>	(Optional)
<i>vpccfsurlf</i>	(Optional)
<i>vpccfsrsl</i>	(Optional)
<i>vpccfsrlr</i>	(Optional)
<i>vpccfsrlf</i>	(Optional)
<i>stptcnr</i>	(Optional)
<i>imapif</i>	(Optional)
<i>mfreqr</i>	(Optional)
<i>mfcmps</i>	(Optional)
<i>inv_iod</i>	(Optional)
<i>mfdgcmps</i>	(Optional)
<i>bufsnt</i>	(Optional)
<i>bufackr</i>	(Optional)
<i>vpcmismatch</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>ut</i>	(Optional)

<i>vpr</i>	(Optional)
<i>v1rr</i>	(Optional)
<i>v2rr</i>	(Optional)
<i>v3rr</i>	(Optional)
<i>v1qr</i>	(Optional)
<i>v2qr</i>	(Optional)
<i>v3qr</i>	(Optional)
<i>v2lr</i>	(Optional)
<i>phr</i>	(Optional)
<i>irr</i>	(Optional)
<i>illgr</i>	(Optional)
<i>iqr</i>	(Optional)
<i>v1rs</i>	(Optional)
<i>v2rs</i>	(Optional)
<i>v2ls</i>	(Optional)
<i>v2lsv1</i>	(Optional)
<i>v3gs</i>	(Optional)
<i>vmr</i>	(Optional)
<i>upr</i>	(Optional)
<i>qo</i>	(Optional)
<i>v2ro</i>	(Optional)
<i>v2lo</i>	(Optional)
<i>v3ro</i>	(Optional)
<i>vpsr</i>	(Optional)
<i>str</i>	(Optional)
<i>cps</i>	(Optional)
<i>cpr</i>	(Optional)
<i>cpe</i>	(Optional)
<i>mps</i>	(Optional)

<i>mpr</i>	(Optional)
<i>mpe</i>	(Optional)
<i>repflooded</i>	(Optional)
<i>repfwded</i>	(Optional)
<i>agd</i>	(Optional)
<i>egd</i>	(Optional)
<i>lvd</i>	(Optional)
<i>qd</i>	(Optional)
<i>pmd</i>	(Optional)

Command Mode

- /exec

show ip igmp vrf all

```
show ip igmp vrf all [ __readonly__ { TABLE_vrfname <vrf-name> <vrf-id> <instance> <work-in-txlist> [
<global-mcast-bndry> ] } { TABLE_vrfid <vrf-name-i> <vrf-id-i> <instance-i> <work-in-txlist-i> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
vrf	Display per-VRF information
all	Display information for all VRFs
__readonly__	(Optional)
TABLE_vrfname	(Optional)
<i>vrf-name</i>	(Optional)
<i>vrf-id</i>	(Optional)
<i>instance</i>	(Optional)
<i>work-in-txlist</i>	(Optional)
<i>global-mcast-bndry</i>	(Optional)
TABLE_vrfid	(Optional)
<i>vrf-name-i</i>	(Optional)
<i>vrf-id-i</i>	(Optional)
<i>instance-i</i>	(Optional)
<i>work-in-txlist-i</i>	(Optional)

Command Mode

- /exec

show ip interface

```
show ip interface { { { brief [ include-secondary ] } | [ <interface> ] | [ <ip-addr> ] } [ operational ] [ vaddr ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_intf [ <vrf-name-out> ] [
<intf-name> ] [ <proto-state> ] [ <link-state> ] [ <admin-state> ] [ <iod> ] [ <first_unnum_iod> ] [
TABLE_unnuminf <unnum-child-inf> ] [ <prefix> ] [ <subnet> ] [ <masklen> ] [ TABLE_secondary_address
<prefix1> <subnet1> <masklen1> ] [ <num-addr> ] [ <vaddr-client> ] [ <vaddr-prefix> ] [ <vaddr-subnet>
] [ <vaddr-masklen> ] [ <num-vaddr> ] [ <unnum-intf> ] [ <ip-disabled> ] [ <bcast-addr> ] [ <maddr> ] + [
<num-maddr> ] [ <mtu> ] [ <pref> ] [ <tag> ] [ <proxy-arp> ] [ <lcl-proxy-arp> ] [ <mrouting> ] [
<icmp-redirect> ] [ <dir-bcast> ] [ <ip-forwarding> ] [ <ip-unreach> ] [ <port-unreach> ] [ <urpf-mode> ] [
<ip-ls-type> ] [ <urpf-acl> ] [ <pbr-in> ] [ <pbr-out> ] [ <acl-in> ] [ <acl-out> ] [ <stats-last-reset> ] [
<upkt-sent> ] [ <upkt-recv> ] [ <upkt-fwd> ] [ <upkt-orig> ] [ <upkt-consumed> ] [ <ubyte-sent> ] [
<ubyte-recv> ] [ <ubyte-fwd> ] [ <ubyte-orig> ] [ <ubyte-consumed> ] [ <mpkt-sent> ] [ <mpkt-recv> ] [
<mpkt-fwd> ] [ <mpkt-orig> ] [ <mpkt-consumed> ] [ <mbyte-sent> ] [ <mbyte-recv> ] [ <mbyte-fwd> ] [
<mbyte-orig> ] [ <mbyte-consumed> ] [ <bpkt-sent> ] [ <bpkt-recv> ] [ <bpkt-fwd> ] [ <bpkt-orig> ] [
<bpkt-consumed> ] [ <bbyte-sent> ] [ <bbyte-recv> ] [ <bbyte-fwd> ] [ <bbyte-orig> ] [ <bbyte-consumed>
] [ <lpkt-sent> ] [ <lpkt-recv> ] [ <lpkt-fwd> ] [ <lpkt-orig> ] [ <lpkt-consumed> ] [ <lbyte-sent> ] [
<lbyte-recv> ] [ <lbyte-fwd> ] [ <lbyte-orig> ] [ <lbyte-consumed> ] [ <wccp-outbound> ] [ <wccp-inbound>
] [ <wccp-exclude> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
interface	Display IP related interface information
brief	Display summary of IP interface status and configuration
include-secondary	(Optional) Display summary of all IP addresses
operational	(Optional) Display only interfaces that are administratively enabled
<i>interface</i>	(Optional) Interface name to display
<i>ip-addr</i>	(Optional) Display interface for local IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
vaddr	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)

<i>intf-name</i>	(Optional)
<i>iod</i>	(Optional)
<i>first_unnum_iod</i>	(Optional)
<i>prefix</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>subnet</i>	(Optional)
<i>masklen</i>	(Optional)
TABLE_unnuminf	(Optional)
<i>unnum-child-inf</i>	(Optional)
TABLE_secondary_address	(Optional)
<i>prefix1</i>	(Optional)
<i>subnet1</i>	(Optional)
<i>masklen1</i>	(Optional)
<i>num-addr</i>	(Optional)
<i>vaddr-client</i>	(Optional)
<i>vaddr-prefix</i>	(Optional)
<i>vaddr-subnet</i>	(Optional)
<i>vaddr-masklen</i>	(Optional)
<i>num-vaddr</i>	(Optional)
<i>unnum-intf</i>	(Optional)
<i>ip-disabled</i>	(Optional)
<i>bcast-addr</i>	(Optional)
<i>maddr</i>	(Optional)
<i>num-maddr</i>	(Optional)
<i>mtu</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)

<i>proxy-arp</i>	(Optional)
<i>lcl-proxy-arp</i>	(Optional)
<i>mrouting</i>	(Optional)
<i>icmp-redirect</i>	(Optional)
<i>dir-bcast</i>	(Optional)
<i>ip-forwarding</i>	(Optional)
<i>ip-unreach</i>	(Optional)
<i>port-unreach</i>	(Optional)
<i>urpf-mode</i>	(Optional)
<i>ip-ls-type</i>	(Optional)
<i>urpf-acl</i>	(Optional)
<i>pbr-in</i>	(Optional)
<i>pbr-out</i>	(Optional)
<i>acl-in</i>	(Optional)
<i>acl-out</i>	(Optional)
<i>stats-last-reset</i>	(Optional)
<i>upkt-sent</i>	(Optional)
<i>upkt-recv</i>	(Optional)
<i>upkt-fwd</i>	(Optional)
<i>upkt-orig</i>	(Optional)
<i>upkt-consumed</i>	(Optional)
<i>ubyte-sent</i>	(Optional)
<i>ubyte-recv</i>	(Optional)
<i>ubyte-fwd</i>	(Optional)
<i>ubyte-orig</i>	(Optional)
<i>ubyte-consumed</i>	(Optional)
<i>mpkt-sent</i>	(Optional)
<i>mpkt-recv</i>	(Optional)
<i>mpkt-fwd</i>	(Optional)

<i>mpkt-orig</i>	(Optional)
<i>mpkt-consumed</i>	(Optional)
<i>mbyte-sent</i>	(Optional)
<i>mbyte-recv</i>	(Optional)
<i>mbyte-fwd</i>	(Optional)
<i>mbyte-orig</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>bpkt-sent</i>	(Optional)
<i>bpkt-recv</i>	(Optional)
<i>bpkt-fwd</i>	(Optional)
<i>bpkt-orig</i>	(Optional)
<i>bpkt-consumed</i>	(Optional)
<i>bbyte-sent</i>	(Optional)
<i>bbyte-recv</i>	(Optional)
<i>bbyte-fwd</i>	(Optional)
<i>bbyte-orig</i>	(Optional)
<i>bbyte-consumed</i>	(Optional)
<i>lpkt-sent</i>	(Optional)
<i>lpkt-recv</i>	(Optional)
<i>lpkt-fwd</i>	(Optional)
<i>lpkt-orig</i>	(Optional)
<i>lpkt-consumed</i>	(Optional)
<i>lbyte-sent</i>	(Optional)
<i>lbyte-recv</i>	(Optional)
<i>lbyte-fwd</i>	(Optional)
<i>lbyte-orig</i>	(Optional)
<i>lbyte-consumed</i>	(Optional)
<i>wccp-outbound</i>	(Optional)
<i>wccp-inbound</i>	(Optional)

<i>wccp-exclude</i>	(Optional)
---------------------	------------

Command Mode

- /exec

show ip large-community-list

```
show ip large-community-list [ <lgcl_name> ] [ __readonly__ TABLE_lgcl <name> <seq> <action> <rule> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
large-community-list	List large-community-list
<i>lgcl_name</i>	(Optional) Standard or expanded large-community-list name
<i>__readonly__</i>	(Optional)
<i>TABLE_lgcl</i>	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip lisp

```
show { ip | ipv6 } lisp [ database ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
database	(Optional) Show EID-prefixes configured for site
vrf	(Optional) Display information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp data-cache

```
show ip lisp data-cache [ <eid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
lisp	LISP show commands
data-cache	Display EID-to-RLOC data cache mapping in this ITR
<i>eid</i>	(Optional) Display mapping for IP destination EID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp locator-hash

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

Syntax Description

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

Command Mode

- /exec

show ip lisp map-cache

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

Syntax Description

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

Command Mode

- /exec

show ip lisp statistics

```
show { ip | ipv6 } lisp statistics [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
statistics	Display global LISP statistics
vrf	(Optional) Display statistics information for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp translate-cache

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

Syntax Description

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

Command Mode

- /exec

show ip load-sharing

```
show ip load-sharing [ __readonly__ { <univer-id-ran-seed> [ <l3-msg-load> ] [ <l34-msg-load> ] [
<dest-addr-load> ] [ <src-dst-ip-gre> ] [ <bad-load> ] [ <gre-outer-hash> ] [ <concatenation> ] [ <rotate> ] [
<src-dst-ip-gtpu> ] [ <src-dst-ip-ipv6-flowlabel> ] [ <src-dst-ip-ttl> ] [ { <src-dst-ip-udf> [ <offset> ] } ] [
<src-dst-ip-inner-all-infra> ] [ <src-dst-ip-inner-all> ] } ]
```

Syntax Description

show	Show running system information
ip	Configure IP features
load-sharing	Display global loadbalance info
<i>__readonly__</i>	(Optional)
<i>univer-id-ran-seed</i>	(Optional)
<i>l3-msg-load</i>	(Optional)
<i>l34-msg-load</i>	(Optional)
<i>dest-addr-load</i>	(Optional)
<i>src-dst-ip-gre</i>	(Optional)
<i>bad-load</i>	(Optional)
<i>gre-outer-hash</i>	(Optional)
<i>concatenation</i>	(Optional)
<i>rotate</i>	(Optional)
<i>src-dst-ip-gtpu</i>	(Optional)
<i>src-dst-ip-ipv6-flowlabel</i>	(Optional)
<i>src-dst-ip-ttl</i>	(Optional)
<i>src-dst-ip-udf</i>	(Optional)
<i>src-dst-ip-inner-all-infra</i>	(Optional)
<i>src-dst-ip-inner-all</i>	(Optional)
<i>offset</i>	(Optional)

Command Mode

- /exec

show ip local policy

```
show ip local policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_pbr [ <interface> ] [ <rmap> ] [ <status> ] [ <vrf_name> ] } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
local	IP local options
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

Command Mode

- /exec

show ip logging

show ip logging [hash] [__readonly__]

Syntax Description

show	Show running system information
ip	Display IP information
logging	Display IP policy logging table
hash	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)

Command Mode

- /exec

show ip mbgp

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

Syntax Description

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

Command Mode

- /exec

show ip mbgp

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] ] } { route-map { <rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | {
community-list { <commlist-name> | <test_pol_name> } | extcommunity-list { <extcommmlist-name> |
<test_pol_name> } } [ exact-match ] } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

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

Command Mode

- /exec

show ip mbgp community

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

Syntax Description

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

Command Mode

- /exec

show ip mbgp dampening

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

Syntax Description

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

Command Mode

- /exec

show ip mbgp extcommunity

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

Syntax Description

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

Command Mode

- /exec

show ip mbgp flap-statistics

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

Syntax Description

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

Command Mode

- /exec

show ip mbgp neighbors

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

Syntax Description

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

Command Mode

- /exec

show ip mbgp nexthop-database

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

Syntax Description

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

Command Mode

- /exec

show ip mbgp nexthop

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

Syntax Description

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

Command Mode

- /exec

show ip mbgp prefix-list

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

Syntax Description

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

Command Mode

- /exec

show ip mbgp received-paths

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

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
received-paths	Display paths stored for soft-reconfig
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

Command Mode

- /exec

sr	(Optional) Display Service Reflect Routes only
umnat	(Optional) Display Service Reflect UMNAT Routes only
mofrr	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>group</i>	(Optional) Display multicast group/source address for route
<i>source</i>	(Optional) Display group/source address for route
<i>destination</i>	(Optional) Display destination address for route
<i>gprefix</i>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
count	(Optional) Display route counts only
bitfield	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
detail	(Optional) Display detailed route attributes
flags	(Optional) Display detailed route attributes
exact	(Optional) Exactly match the given mask length
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>expry_timer</i>	(Optional)
<i>route_count</i>	(Optional)
<i>star_g_cnt</i>	(Optional)
<i>sg_cnt</i>	(Optional)
<i>star_g_prfx_cnt</i>	(Optional)
TABLE_summary_source	(Optional)
<i>group_addr</i>	(Optional)
<i>group_mask_len</i>	(Optional)
<i>source_count</i>	(Optional)
TABLE_one_sg	(Optional)
<i>sgroup_addr</i>	(Optional)
<i>source_addr</i>	(Optional)
<i>packets</i>	(Optional)
<i>bytes</i>	(Optional)

<i>aps</i>	(Optional)
<i>pps</i>	(Optional)
<i>rate_buf</i>	(Optional)
<i>oifs</i>	(Optional)
<i>sr_type</i>	(Optional)
<i>software_fwd</i>	(Optional)
<i>rpf-failed-pkts</i>	(Optional)
<i>rpf-failed-bytes</i>	(Optional)
TABLE_one_route	(Optional)
<i>mcast-addr</i> s	(Optional)
<i>source_addr</i> s_um	(Optional)
<i>dest_addr</i> s_um	(Optional)
<i>source_addr</i> s	(Optional)
<i>group_addr</i> s	(Optional)
<i>mcast-addr</i> s-um	(Optional)
<i>udp-src-port-um</i>	(Optional)
<i>udp-dst-port-um</i>	(Optional)
<i>bidir</i>	(Optional)
<i>pending</i>	(Optional)
<i>mofrr</i>	(Optional)
<i>uptime</i>	(Optional)
<i>vlan-dci-core</i>	(Optional)
<i>vlan-src-dci-remote</i>	(Optional)
<i>vlan-src-vipr</i>	(Optional)
<i>uptime_detailed</i>	(Optional)
TABLE_mpib	(Optional)
<i>mpib-name</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>stale-route</i>	(Optional)

<i>mdt-encap</i>	(Optional)
<i>mdt-decap</i>	(Optional)
<i>mdt-last-hop</i>	(Optional)
<i>mdt-encap-index</i>	(Optional)
<i>stats-pkts</i>	(Optional)
<i>stats-bytes</i>	(Optional)
<i>stats-rate-buf</i>	(Optional)
<i>lisp-src-rloc</i>	(Optional)
<i>nat-mode</i>	(Optional)
<i>nat-route-type</i>	(Optional)
<i>route-iif</i>	(Optional)
<i>rpf-nbr</i>	(Optional)
<i>mofrr-iif</i>	(Optional)
<i>mofrr-nbr</i>	(Optional)
<i>internal</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>fabric-oif</i>	(Optional)
<i>fabric-loser</i>	(Optional)
<i>num-vpc-svi-oifs</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>oif-uptime</i>	(Optional)
<i>oif-uptime-detailed</i>	(Optional)
TABLE_oif_mpib	(Optional)
<i>oif-mpib-name</i>	(Optional)
<i>stale-oif</i>	(Optional)
<i>omd-vpc-svi</i>	(Optional)
<i>core-interest</i>	(Optional)
<i>fabric-interest</i>	(Optional)

<i>rpf</i>	(Optional)
<i>route-mdt-iod</i>	(Optional)
<i>oif-list-bitfield</i>	(Optional)
TABLE_route_summary	(Optional)
<i>total-num-routes</i>	(Optional)
<i>star-g-route</i>	(Optional)
<i>sg-route</i>	(Optional)
<i>star-g-prfx</i>	(Optional)
<i>group-count</i>	(Optional)
<i>avg</i>	(Optional)
<i>rem</i>	(Optional)
<i>stats-pndg</i>	(Optional)
<i>sr-routes</i>	(Optional)
<i>pre-routes</i>	(Optional)
<i>post-routes</i>	(Optional)
<i>ingress-routes</i>	(Optional)
<i>egress-routes</i>	(Optional)
<i>sr-count</i>	(Optional)
TABLE_sr	(Optional)
<i>translated-route-src</i>	(Optional)
<i>translated-route-grp</i>	(Optional)
<i>udp-src-port</i>	(Optional)
<i>udp-dst-port</i>	(Optional)
<i>sr-oif</i>	(Optional)
TABLE_extranet	(Optional)
<i>extranet_vrf_name</i>	(Optional)
<i>extranet_addr</i>	(Optional)
<i>extranet_oif_count</i>	(Optional)

Command Mode

- /exec

show ip msdp count

```
show ip msdp count [ <asn> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf
[ <out-vrf> ] [ <total-cnt> ] [ TABLE_asn [ <out-asn> ] [ <src-cnt> ] [ <grp-cnt> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
count	Display SA cache counters
<i>asn</i>	(Optional) AS number
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out-vrf</i>	(Optional)
<i>total-cnt</i>	(Optional)
TABLE_asn	(Optional)
<i>out-asn</i>	(Optional)
<i>src-cnt</i>	(Optional)
<i>grp-cnt</i>	(Optional)

Command Mode

- /exec

show ip msdp mesh-group

```
show ip msdp mesh-group [ <mesh-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
[ TABLE_vrf [ <out-vrf> ] [ TABLE_meshgroup [ <meshgroup-name> ] [ TABLE_peer [ <peer-ipaddr> ] [
<peer-asn> ] [ <peer-description> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
mesh-group	Display members of mesh-group
<i>mesh-group</i>	(Optional) Display single mesh-group
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_meshgroup	(Optional)
<i>meshgroup-name</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-ipaddr</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>peer-description</i>	(Optional)

Command Mode

- /exec

show ip msdp peer

```
show ip msdp peer [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_peer [ <peer-ipaddr> ] [ <out-vrf> ] [ <peer-asn> ] [ <local-ipaddr> ] [ <local-iface> ] [
<fully-configured> ] [ <peer-description> ] [ <connection-status> ] [ <peer-listening> ] [ <state-duration> ]
[ <peer-uptime> ] [ <peer-rr> ] [ <peer-password> ] [ <peer-ki> ] [ <peer-kt> ] [ <peer-ri> ] [ <sa-in-policy>
] [ <sa-out-policy> ] [ <sa-limit> ] [ <mesh-name> ] [ <last-rcvd> ] [ <sa-rcvd> ] [ <sa-sent> ] [ <sa-req-rcvd>
] [ <sa-req-sent> ] [ <sa-resp-rcvd> ] [ <sa-resp-sent> ] [ <in-ctrl-msgs> ] [ <out-ctrl-msgs> ] [ <in-data-msgs>
] [ <out-data-msgs> ] [ <sa-ka-rcvd> ] [ <sa-ka-sent> ] [ <sa-notif-rcvd> ] [ <sa-notif-sent> ] [ <rem-port> ]
[ <local-port> ] [ <rpf-failures> ] [ <cache-lifetime> ] [ <estb-transitions> ] [ <conn-attempts> ] [ <discont-time>
] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
peer	Display MSDP peer information
<i>peer-address</i>	(Optional) IP address of MSDP peer
__readonly__	(Optional)
TABLE_peer	(Optional)
<i>peer-ipaddr</i>	(Optional)
<i>out-vrf</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>local-ipaddr</i>	(Optional)
<i>local-iface</i>	(Optional)
<i>fully-configured</i>	(Optional)
<i>peer-description</i>	(Optional)
<i>connection-status</i>	(Optional)
<i>state-duration</i>	(Optional)

<i>peer-listening</i>	(Optional)
<i>peer-uptime</i>	(Optional)
<i>peer-password</i>	(Optional)
<i>peer-ki</i>	(Optional)
<i>peer-kt</i>	(Optional)
<i>peer-ri</i>	(Optional)
<i>peer-rr</i>	(Optional)
<i>sa-in-policy</i>	(Optional)
<i>sa-out-policy</i>	(Optional)
<i>sa-limit</i>	(Optional)
<i>mesh-name</i>	(Optional)
<i>last-rcvd</i>	(Optional)
<i>sa-rcvd</i>	(Optional)
<i>sa-sent</i>	(Optional)
<i>sa-req-rcvd</i>	(Optional)
<i>sa-req-sent</i>	(Optional)
<i>sa-resp-rcvd</i>	(Optional)
<i>sa-resp-sent</i>	(Optional)
<i>out-ctrl-msgs</i>	(Optional)
<i>in-ctrl-msgs</i>	(Optional)
<i>out-data-msgs</i>	(Optional)
<i>in-data-msgs</i>	(Optional)
<i>sa-ka-rcvd</i>	(Optional)
<i>sa-ka-sent</i>	(Optional)
<i>sa-notif-rcvd</i>	(Optional)
<i>sa-notif-sent</i>	(Optional)
<i>rem-port</i>	(Optional)
<i>local-port</i>	(Optional)
<i>rpf-failures</i>	(Optional)

<i>cache-lifetime</i>	(Optional)
<i>estb-transitions</i>	(Optional)
<i>conn-attempts</i>	(Optional)
<i>discont-time</i>	(Optional)

Command Mode

- /exec

show ip msdp policy statistics sa-policy in

```
show ip msdp policy statistics sa-policy <peer-address> { in | out } [ vrf { <vrf-name> | <vrf-known-name>
} ] [ __readonly__ [ TABLE_routemap [ <name> ] [ <action> ] [ <seq_num> ] [ TABLE_cmd [ <command>
] [ <compare_count> ] [ <match_count> ] ] ] [ <total_accept_count> ] [ <total_reject_count> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	MSDP global configuration commands
policy	Policy information
statistics	Policy statistics
sa-policy	Configured SA policy for MSDP peer
<i>peer-address</i>	IP address of MSDP peer for SA policy
in	Input policy
out	Output policy
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ip msdp rpf

```
show ip msdp rpf <rp-address> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_rp
[ <out-rp-address> ] [ <out-vrf> ] [ TABLE_mesh [ <peer-addr> ] [ <mesh-name> ] ] [ <is-peer-cnt-one> ] [
<is-rp-peer> ] [ <is-bgp-alive> ] [ <bgp-peer-addr> ] [ <peer-asn> ] [ <origin-asn> ] [ <is-mbgp> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
rpf	Display RPF-peer for RP address
<i>rp-address</i>	IP address of RP
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_rp	(Optional)
<i>out-rp-address</i>	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_mesh	(Optional)
<i>peer-addr</i>	(Optional)
<i>mesh-name</i>	(Optional)
<i>is-peer-cnt-one</i>	(Optional)
<i>is-rp-peer</i>	(Optional)
<i>is-bgp-alive</i>	(Optional)
<i>bgp-peer-addr</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>origin-asn</i>	(Optional)
<i>is-mbgp</i>	(Optional)

Command Mode

- /exec

show ip msdp sa

```
show ip msdp { sa-cache | route } [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <asn> ] [ peer
<peer> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf [ <out-vrf>
] [ <total-sa-count> ] [ TABLE_sa [ <src-addr> ] [ <grp-addr> ] [ <rp-addr> ] [ <out-asn> ] [ <uptime> ] [
<in-mrib> ] [ <peer-addr> ] [ <expire> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Display MSDP SA route cache
sa-cache	Display MSDP SA route cache
<i>source</i>	(Optional) Display group/source address for SA
<i>group</i>	(Optional) Display group/source address for SA
<i>asn</i>	(Optional) AS number
detail	(Optional) Display detailed information
peer	(Optional) Display MSDP SA received from single peer
<i>peer</i>	(Optional) IP address of peer for SA
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out-vrf</i>	(Optional)
<i>total-sa-count</i>	(Optional)
TABLE_sa	(Optional)
<i>src-addr</i>	(Optional)
<i>grp-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)

<i>in-mrib</i>	(Optional)
<i>peer-addr</i>	(Optional)
<i>out-asn</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expire</i>	(Optional)

Command Mode

- /exec

show ip msdp sources

```
show ip msdp sources [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_VRF [
<out-vrf> ] [ TABLE_source [ <source-addr> ] [ <count> ] [ <is-count-ge-limit> ] [ <is-limit-valid> ] [ <limit>
] [ <source-prefix> ] [ <violates> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
sources	Display learned sources with their group counts and limits
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_VRF	(Optional)
<i>out-vrf</i>	(Optional)
TABLE_source	(Optional)
<i>source-addr</i>	(Optional)
<i>is-count-ge-limit</i>	(Optional)
<i>count</i>	(Optional)
<i>is-limit-valid</i>	(Optional)
<i>limit</i>	(Optional)
<i>source-prefix</i>	(Optional)
<i>violates</i>	(Optional)

Command Mode

- /exec

show ip msdp statistics

```
show ip msdp statistics [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf [ <out-vrf> ] [ <select-err> ] [ <rcv-sel-err> ] [ TABLE_peer [ <peer-address> ] [ <buffer-full>
] [ <rcv-buf-full> ] [ <fatal-err> ] [ <rcv-fat-err> ] [ <would-block> ] [ <rcv-would-block> ] [ <sock-exp>
] [ <invalid-type> ] [ <invalid-len> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
statistics	Display internal statistics
<i>peer-address</i>	(Optional) IP address of MSDP peer
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out-vrf</i>	(Optional)
<i>select-err</i>	(Optional)
<i>rcv-sel-err</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-address</i>	(Optional)
<i>buffer-full</i>	(Optional)
<i>rcv-buf-full</i>	(Optional)
<i>fatal-err</i>	(Optional)
<i>rcv-fat-err</i>	(Optional)
<i>would-block</i>	(Optional)
<i>rcv-would-block</i>	(Optional)
<i>sock-exp</i>	(Optional)

<i>invalid-type</i>	(Optional)
<i>invalid-len</i>	(Optional)

Command Mode

- /exec

show ip msdp summary

```
show ip msdp summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_VRF [
<out-vrf> ] [ <local-asn> ] [ <originator-id> ] [ <config-peer-count> ] [ <estb-peer-count> ] [ <shut-peer-count>
] [ <global-mcast-bndry> ] [ TABLE_peer [ <peer-address> ] [ <peer-asn> ] [ <peer-state> ] [ <peer-uptime>
] [ <peer-last-msg> ] [ <peer-sa-rcvd> ] [ <peer-sa-limit> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary	Display MSDP peer summary
<i>__readonly__</i>	(Optional)
TABLE_VRF	(Optional)
<i>out-vrf</i>	(Optional)
<i>local-asn</i>	(Optional)
<i>originator-id</i>	(Optional)
<i>config-peer-count</i>	(Optional)
<i>estb-peer-count</i>	(Optional)
<i>shut-peer-count</i>	(Optional)
<i>global-mcast-bndry</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-address</i>	(Optional)
<i>peer-asn</i>	(Optional)
<i>peer-state</i>	(Optional)
<i>peer-uptime</i>	(Optional)
<i>peer-last-msg</i>	(Optional)

<i>peer-sa-rcvd</i>	(Optional)
<i>peer-sa-limit</i>	(Optional)

Command Mode

- /exec

show ip multicast vrf

```
show ip multicast vrf [ <vrf-name> | <vrf-known-name> | all ] [ detail ] [ __readonly__ <vrf-count> [ {
TABLE_vrf <vrf-name> <cid> <tid> <rc> <gc> <sc> <star_gc> <state> [ <multipath-configuration> ] [
<mrrib-cc-timer-left> ] [ <mrrib-stats-timer-left> ] [ <mrrib-mfdm-timer-left> ] [ <mrrib-lisp-timer-left> ] [
<sr-interface> ] [ <resilient> ] [ TABLE_RPF_SELECT <rpf-ip> <rpf-ip-mask> <rpf-vrf> ] [
<global-mcast-bndry> ] [ <dci-mcast> } } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
multicast	Display multicast routing info
vrf	Display information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
__readonly__	(Optional)
<i>vrf-count</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>cid</i>	(Optional)
<i>tid</i>	(Optional)
<i>rc</i>	(Optional)
<i>gc</i>	(Optional)
<i>sc</i>	(Optional)
<i>star_gc</i>	(Optional)
<i>state</i>	(Optional)
<i>multipath-configuration</i>	(Optional)
<i>mrrib-cc-timer-left</i>	(Optional)
<i>mrrib-stats-timer-left</i>	(Optional)
<i>mrrib-mfdm-timer-left</i>	(Optional)

<i>mrib-lisp-timer-left</i>	(Optional)
<i>sr-interface</i>	(Optional)
<i>resilient</i>	(Optional)
TABLE_RPF_SELECT	(Optional)
<i>rpf-ip</i>	(Optional)
<i>rpf-ip-mask</i>	(Optional)
<i>rpf-vrf</i>	(Optional)
<i>global-mcast-bndry</i>	(Optional)
<i>dci-mcast</i>	(Optional)

Command Mode

- /exec

show ip nat-alias

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

Syntax Description

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

Command Mode

- /exec

show ip nat max

```
show ip nat max [ __readonly__ <max_dyn_translations> <max_all_host> <static_translations>
<dynamic_translations> <icmp_translations> ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
max	IP NAT max values
<i>__readonly__</i>	(Optional)
<i>max_dyn_translations</i>	(Optional) Max Dynamic Translations
<i>max_all_host</i>	(Optional) Max All Hosts
<i>static_translations</i>	(Optional) No. Static Translations
<i>dynamic_translations</i>	(Optional) No. Dynamic Translations
<i>icmp_translations</i>	(Optional) No. ICMP Translations

Command Mode

- /exec

show ip nat statistics

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

Syntax Description

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

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

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

Command Mode

- /exec

show ip nat timeout

```
show ip nat timeout [ __readonly__ <tcp_timeout> <udp_timeout> [ <icmp_timeout> ] <dynamic_timeout>
[ <sampling_timeout> ] [ <syn_timeout> ] [ <finrst_timeout> ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
timeout	IP NAT timeout values
<i>__readonly__</i>	(Optional)
<i>tcp_timeout</i>	(Optional) TCP Timeout
<i>udp_timeout</i>	(Optional) UDP Timeout
<i>icmp_timeout</i>	(Optional) ICMP Timeout
<i>dynamic_timeout</i>	(Optional) Dynamic Timeout
<i>sampling_timeout</i>	(Optional) Sampling Timeout
<i>syn_timeout</i>	(Optional) SYN Timeout
<i>finrst_timeout</i>	(Optional) FINRST Timeout

Command Mode

- /exec

show ip nat translations

```
show ip nat translations [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ verbose ] [ internal-detail ] [
__readonly__ { TABLE_nat_translation [ <Protocol> ] [ <Inside_global_IP_V4_Address> ] [
<Inside_global_port> ] [ <Inside_local_IP_V4_Address> ] [ <Inside_local_port> ] [
<Outside_local_IP_V4_Address> ] [ <Outside_local_port> ] [ <Outside_global_IP_V4_Address> ] [
<Outside_global_port> ] [ <VRF> ] [ <In_stats_count> ] [ <Out_stats_count> ] [ <Group_id> ] [ <Time_left>
] [ <Syn> ] [ <Fin_rst> ] [ <Flags> ] [ <Entry_id> ] [ <State> ] } ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
translations	Translation entries
verbose	(Optional) Show extra information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all vrfs
internal-detail	(Optional) Display internal debugs
<i>__readonly__</i>	(Optional) Readonly
TABLE_nat_translation	(Optional) NAT Translation Table
<i>Protocol</i>	(Optional) Protocol
<i>Inside_global_IP_V4_Address</i>	(Optional) Inside global address
<i>Inside_global_port</i>	(Optional) Inside global port
<i>Inside_local_IP_V4_Address</i>	(Optional) Inside local address
<i>Inside_local_port</i>	(Optional) Inside local port
<i>Outside_local_IP_V4_Address</i>	(Optional) Outside local address
<i>Outside_local_port</i>	(Optional) Outside local port
<i>Outside_global_IP_V4_Address</i>	(Optional) Outside global address
<i>Outside_global_port</i>	(Optional) Outside global port
<i>Flags</i>	(Optional) Flags

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

Command Mode

- /exec

<i>rid</i>	(Optional)
<i>domain_id_type</i>	(Optional)
<i>domain_id_value</i>	(Optional)
<i>domain_tag</i>	(Optional)
<i>dn_bit_ignore</i>	(Optional)
<i>stateful_ha</i>	(Optional)
<i>gr_ha</i>	(Optional)
<i>gr_planned_only</i>	(Optional)
<i>gr_grace_period</i>	(Optional)
<i>gr_state</i>	(Optional)
<i>gr_last_status</i>	(Optional)
<i>gr_helper_mode</i>	(Optional)
<i>support_tos0_only</i>	(Optional)
<i>support_opaque_lsa</i>	(Optional)
<i>low_mem_cond</i>	(Optional)
<i>is_abr</i>	(Optional)
<i>is_asbr</i>	(Optional)
<i>max_lsa_non_self_number</i>	(Optional)
<i>max_lsa_state</i>	(Optional)
<i>max_lsa_warning_only</i>	(Optional)
<i>max_lsa_current_non_self_lsa_number</i>	(Optional)
<i>max_lsa_threshold_pct</i>	(Optional)
<i>max_lsa_ignore_time</i>	(Optional)
<i>max_lsa_reset_time</i>	(Optional)
<i>max_lsa_ignore_count</i>	(Optional)
<i>max_lsa_current_ignore_count</i>	(Optional)
<i>max_lsa_ignore_time_left</i>	(Optional)
<i>max_lsa_reset_time_left</i>	(Optional)
<i>max_lsa_permanent_ignore</i>	(Optional)

TABLE_redist	(Optional)
<i>proto</i>	(Optional)
<i>max_lsas</i>	(Optional)
<i>warning</i>	(Optional)
<i>threshold</i>	(Optional)
<i>current_count</i>	(Optional)
<i>admin_dist</i>	(Optional)
<i>ref_bw</i>	(Optional)
<i>spf_start_time</i>	(Optional)
<i>spf_hold_time</i>	(Optional)
<i>spf_max_time</i>	(Optional)
<i>lsa_start_time</i>	(Optional)
<i>lsa_hold_time</i>	(Optional)
<i>lsa_max_time</i>	(Optional)
<i>min_lsa_arr_time</i>	(Optional)
<i>lsa_aging_pace</i>	(Optional)
<i>spf_max_paths</i>	(Optional)
<i>max_metric_adver</i>	(Optional)
<i>max_metric_time_left</i>	(Optional)
<i>max_metric_wait_bgp</i>	(Optional)
<i>max_metric_timeout</i>	(Optional)
<i>max_metric_always</i>	(Optional)
<i>max_metric_sum_lsa</i>	(Optional)
<i>max_metric_ext_lsa</i>	(Optional)
<i>asext_lsa_cnt</i>	(Optional)
<i>asext_lsa_crc</i>	(Optional)
<i>asopaque_lsa_cnt</i>	(Optional)
<i>asopaque_lsa_crc</i>	(Optional)
<i>area_total</i>	(Optional)

<i>area_normal</i>	(Optional)
<i>area_stub</i>	(Optional)
<i>area_nssa</i>	(Optional)
<i>act_area_total</i>	(Optional)
<i>act_area_normal</i>	(Optional)
<i>act_area_stub</i>	(Optional)
<i>act_area_nssa</i>	(Optional)
<i>name_lookup</i>	(Optional)
<i>no_discard_rt_ext</i>	(Optional)
<i>no_discard_rt_int</i>	(Optional)
<i>passive_dflt</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>segrt_configured</i>	(Optional)
<i>segrt_enabled</i>	(Optional)
<i>srgb_min_label</i>	(Optional)
<i>srgb_max_label</i>	(Optional)
TABLE_area	(Optional)
<i>aname</i>	(Optional)
<i>backbone_active</i>	(Optional)
<i>active</i>	(Optional)
<i>age</i>	(Optional)
<i>total_intf</i>	(Optional)
<i>act_intf</i>	(Optional)
<i>passive_intf</i>	(Optional)
<i>loopback_intf</i>	(Optional)
<i>gr_nbr_cnt</i>	(Optional)
<i>stub</i>	(Optional)
<i>stub_def_cost</i>	(Optional)
<i>nssa</i>	(Optional)

<i>no_redist</i>	(Optional)
<i>nssa_trans</i>	(Optional)
<i>no_summary</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>area_segrrt_configured</i>	(Optional)
<i>area_segrrt_disabled_by_config</i>	(Optional)
<i>area_segrrt_enabled</i>	(Optional)
<i>spf_runs</i>	(Optional)
<i>last_spf_run_time</i>	(Optional)
TABLE_range	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>state</i>	(Optional)
<i>nets</i>	(Optional)
<i>advertise</i>	(Optional)
<i>cost</i>	(Optional)
<i>filter_in</i>	(Optional)
<i>filter_out</i>	(Optional)
<i>lsa_cnt</i>	(Optional)
<i>lsa_crc</i>	(Optional)
<i>num_new_lsa_tx</i>	(Optional)
<i>num_new_lsa_rx</i>	(Optional)

Command Mode

- /exec

show ip ospf border-routers

```
show ip ospf [ <tag> ] border-routers [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> [ TABLE_br <type> <addr> <cost> <asbr> <abr> <area> <spf_inst> [
<vlink_unresolved> ] [ TABLE_br_ubest_nh [ <ubest_nh_addr> ] [ <ubest_nh_intf> ] ] [ TABLE_br_mbest_nh
[ <mbest_nh_addr> ] [ <mbest_nh_intf> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
border-routers	Border routers
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_br	(Optional)
<i>type</i>	(Optional)
<i>addr</i>	(Optional)
<i>cost</i>	(Optional)
<i>asbr</i>	(Optional)
<i>abr</i>	(Optional)
<i>area</i>	(Optional)
<i>spf_inst</i>	(Optional)
<i>vlink_unresolved</i>	(Optional)
TABLE_br_ubest_nh	(Optional)

<i>ubest_nh_addr</i>	(Optional)
<i>ubest_nh_intf</i>	(Optional)
TABLE_br_mbest_nh	(Optional)
<i>mbest_nh_addr</i>	(Optional)
<i>mbest_nh_intf</i>	(Optional)

Command Mode

- /exec

show ip ospf database

```
show ip ospf [ <tag> ] database [ [ [ network | asbr-summary | summary | router | opaque-link | opaque-area
[ type { router-information | ext-prefix | ext-link } ] | nssa-external ] [ area <area-id-ip> ] ] | external [ ext_tag
<tag_val> ] | opaque-as ] [ <lsid> ] [ self-originated | adv-router <advid> | adv-router-name <adv-name> ] ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ _readonly_ TABLE_ctx <rid> <ptag> <cname> [
TABLE_db2_lsa <name> [ <area> ] <id> <advrtr> <age> <seqno> <cksum> [ <opaque_id> ] [ <prefix> ] [
<prefix_mask> ] [ <srgb_base> ] [ <srgb_range> ] [ <corrupt> ] [ <rtr_num_links> ] [ <tag> ] ] ]
```

Syntax Description

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

<i>adv-router-name</i>	(Optional) Restrict display by Advertising router name
<i>adv-name</i>	(Optional) DNS Name of the Advertising router
<i>area</i>	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
<i>ext_tag</i>	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
<i>type</i>	(Optional) Opaque type
<i>router-information</i>	(Optional) Router Information (RI) Opaque LSA
<i>ext-prefix</i>	(Optional) Extended Prefix Opaque LSA
<i>ext-link</i>	(Optional) Extended Link Opaque LSA
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>TABLE_ctx</i>	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>TABLE_db2_lsa</i>	(Optional)
<i>name</i>	(Optional)
<i>area</i>	(Optional)
<i>id</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>age</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>opaque_id</i>	(Optional)
<i>prefix</i>	(Optional)
<i>prefix_mask</i>	(Optional)
<i>srgb_base</i>	(Optional)
<i>srgb_range</i>	(Optional)

<i>corrupt</i>	(Optional)
<i>rtr_num_links</i>	(Optional)

Command Mode

- /exec

show ip ospf database database-summary

```
show ip ospf [ <tag> ] database database-summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_dbsum [ TABLE_dbsum_area <area> [
TABLE_dbsum_area_lsa <area_lsa_name> <area_lsa_count> ] <area_lsa_total> ] [ TABLE_dbsum_all [
TABLE_dbsum_lsa_all <lsa_name> <lsa_count> ] <non_self_lsa_total> <lsa_total> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
database-summary	Summary of database
<u>__readonly__</u>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_dbsum	(Optional)
TABLE_dbsum_area	(Optional)
<i>area</i>	(Optional)
TABLE_dbsum_area_lsa	(Optional)
<i>area_lsa_name</i>	(Optional)
<i>area_lsa_count</i>	(Optional)
<i>area_lsa_total</i>	(Optional)
TABLE_dbsum_all	(Optional)

TABLE_dbsum_lsa_all	(Optional)
<i>lsa_name</i>	(Optional)
<i>lsa_count</i>	(Optional)
<i>non_self_lsa_total</i>	(Optional)
<i>lsa_total</i>	(Optional)

Command Mode

- /exec

show ip ospf database detail

```
show ip ospf [ <tag> ] database [ [ [ network | asbr-summary | summary | router | opaque-link | opaque-area
[ type { router-information | ext-prefix | ext-link } ] | nssa-external ] [ area <area-id-ip> ] ] | external [ ext_tag
<tag_val> ] | opaque-as ] [ <lsid> ] [ self-originated | adv-router <advid> | adv-router-name <adv-name> ]
detail [ private ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <rid> <ptag>
<cname> [ TABLE_db2_lsa <name> [ <area> ] [ <rtr_max_metric> ] [ TABLE_lsdb <age> <maxage>
<options> <options_str> <wrapping> <dummy> <flush_pending> <type> <id> <id_str> [ <opaque_type> ]
[ <opaque_type_str> ] [ <opaque_id> ] [ <prefix> ] [ <prefix_mask> ] [ <srgb_base> ] [ <srgb_range> ]
<advrtr> <seqno> <cksum> <len> [ <corrupt> ] [ <rtr_abr> ] [ <rtr_asbr> ] [ <rtr_translate> ] [ <rtr_vlink_end>
] [ <rtr_num_links> ] [ <rtr_links_mismatch> ] [ TABLE_rlsa [ <rtr_link_type> ] [ <rtr_link_id_str> ] [
<rtr_link_id> ] [ <rtr_link_data_str> ] [ <rtr_link_data> ] [ <rtr_link_num_tos> ] [ <rtr_link_metric> ] [
TABLE_rlinktos [ <rtr_link_tos_id> ] [ <rtr_link_tos_metric> ] ] [ <net_mask> ] [ TABLE_netlsa [ <net_rtr>
] ] [ <sum_mask> ] [ <sum_metric> ] [ TABLE_sumlsa [ <sum_tos_id> ] [ <sum_tos_metric> ] ] [ <nssa_mask>
] [ <nssa_metric_type2> ] [ <nssa_metric> ] [ <nssa_fwd_addr> ] [ <nssa_tag> ] [ TABLE_nssa [
<nssa_tos_metric_type2> ] [ <nssa_tos_id> ] [ <nssa_tos_metric> ] [ <nssa_tos_fwd_addr> ] [ <nssa_tos_tag>
] ] [ <asext_mask> ] [ <asext_metric_type2> ] [ <asext_metric> ] [ <asext_fwd_addr> ] [ <asext_tag> ] [
TABLE_asext [ <asext_tos_metric_type2> ] [ <asext_tos_id> <asext_tos_metric> ] [ <asext_tos_fwd_addr>
] [ <asext_tos_tag> ] ] [ <opaque_link_intf> ] [ <opaque_unknown> ] [ <opaque_data_len> ] [ <opaque_data>
] [ <opaque_corrupt> ] [ <tlv_type> ] [ <tlv_len> ] [ <tlv_data> ] [ <tlv_unknown> ] [ <gr_interval> ] [
<gr_reason> ] [ <gr_addr> ] [ <te_frag_id> ] [ <te_rtr_id> ] [ <te_link_type> ] [ <te_link_id> ] [
<te_link_metric> ] [ <te_link_max_bw> ] [ <te_link_rsv_bw> ] [ <te_link_unrsv_bw> ] [ <te_link_admin>
] [ <te_num_links> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
network	(Optional) Display network LSAs
asbr-summary	(Optional) Display type 4 (asbr-summary) LSAs
external	(Optional) Display type 5 (external) LSAs
router	(Optional) Display router LSAs
nssa-external	(Optional) Display type 7 (NSSA external) LSAs

opaque-link	(Optional) Display Opaque Link-Local LSAs
opaque-area	(Optional) Display Opaque Area LSAs
opaque-as	(Optional) Display Opaque AS LSAs
summary	(Optional) Display type 3 (network-summary) LSAs
self-originated	(Optional) Display only self-originated LSAs
<i>lsid</i>	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
<i>advid</i>	(Optional) Advertising router ID
adv-router-name	(Optional) Restrict display by Advertising router name
<i>adv-name</i>	(Optional) DNS Name of the Advertising router
area	(Optional) Display only LSA's in this area
<i>area-id-ip</i>	(Optional) Area Id as an integer or ip address
ext_tag	(Optional) Restrict display by tag
<i>tag_val</i>	(Optional) 32-bit tag value
type	(Optional) Opaque type
router-information	(Optional) Router Information (RI) Opaque LSA
ext-prefix	(Optional) Extended Prefix Opaque LSA
ext-link	(Optional) Extended Link Opaque LSA
detail	Display LSA in detail
private	(Optional) Developer-only statistics
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>rid</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_db2_lsa	(Optional)
<i>name</i>	(Optional)
<i>area</i>	(Optional)
<i>rtr_max_metric</i>	(Optional)

TABLE_lsdb	(Optional)
<i>age</i>	(Optional)
<i>maxage</i>	(Optional)
<i>options</i>	(Optional)
<i>options_str</i>	(Optional)
<i>wrapping</i>	(Optional)
<i>dummy</i>	(Optional)
<i>flush_pending</i>	(Optional)
<i>type</i>	(Optional)
<i>id</i>	(Optional)
<i>id_str</i>	(Optional)
<i>opaque_type</i>	(Optional)
<i>opaque_type_str</i>	(Optional)
<i>opaque_id</i>	(Optional)
<i>prefix</i>	(Optional)
<i>prefix_mask</i>	(Optional)
<i>srgb_base</i>	(Optional)
<i>srgb_range</i>	(Optional)
<i>advrtr</i>	(Optional)
<i>seqno</i>	(Optional)
<i>cksum</i>	(Optional)
<i>len</i>	(Optional)
<i>corrupt</i>	(Optional)
<i>rtr_abr</i>	(Optional)
<i>rtr_asbr</i>	(Optional)
<i>rtr_translate</i>	(Optional)
<i>rtr_vlink_end</i>	(Optional)
<i>rtr_num_links</i>	(Optional)
<i>rtr_links_mismatch</i>	(Optional)

TABLE_rlsa	(Optional)
<i>rtr_link_type</i>	(Optional)
<i>rtr_link_id_str</i>	(Optional)
<i>rtr_link_id</i>	(Optional)
<i>rtr_link_data_str</i>	(Optional)
<i>rtr_link_data</i>	(Optional)
<i>rtr_link_num_tos</i>	(Optional)
<i>rtr_link_metric</i>	(Optional)
TABLE_rlinktos	(Optional)
<i>rtr_link_tos_id</i>	(Optional)
<i>rtr_link_tos_metric</i>	(Optional)
<i>net_mask</i>	(Optional)
TABLE_netlsa	(Optional)
<i>net_rtr</i>	(Optional)
<i>sum_mask</i>	(Optional)
<i>sum_metric</i>	(Optional)
TABLE_sumlsa	(Optional)
<i>sum_tos_id</i>	(Optional)
<i>sum_tos_metric</i>	(Optional)
<i>nssa_mask</i>	(Optional)
<i>nssa_metric_type2</i>	(Optional)
<i>nssa_metric</i>	(Optional)
<i>nssa_fwd_addr</i>	(Optional)
<i>nssa_tag</i>	(Optional)
TABLE_nssa	(Optional)
<i>nssa_tos_metric_type2</i>	(Optional)
<i>nssa_tos_id</i>	(Optional)
<i>nssa_tos_metric</i>	(Optional)
<i>nssa_tos_fwd_addr</i>	(Optional)

<i>nssa_tos_tag</i>	(Optional)
<i>asext_mask</i>	(Optional)
<i>asext_metric_type2</i>	(Optional)
<i>asext_metric</i>	(Optional)
<i>asext_fwd_addr</i>	(Optional)
<i>asext_tag</i>	(Optional)
TABLE_asext	(Optional)
<i>asext_tos_metric_type2</i>	(Optional)
<i>asext_tos_id</i>	(Optional)
<i>asext_tos_metric</i>	(Optional)
<i>asext_tos_fwd_addr</i>	(Optional)
<i>asext_tos_tag</i>	(Optional)
<i>opaque_link_intf</i>	(Optional)
<i>opaque_unknown</i>	(Optional)
<i>opaque_data_len</i>	(Optional)
<i>opaque_data</i>	(Optional)
<i>opaque_corrupt</i>	(Optional)
<i>tlv_type</i>	(Optional)
<i>tlv_len</i>	(Optional)
<i>tlv_data</i>	(Optional)
<i>tlv_unknown</i>	(Optional)
<i>gr_interval</i>	(Optional)
<i>gr_reason</i>	(Optional)
<i>gr_addr</i>	(Optional)
<i>te_frag_id</i>	(Optional)
<i>te_rtr_id</i>	(Optional)
<i>te_link_type</i>	(Optional)
<i>te_link_id</i>	(Optional)
<i>te_link_metric</i>	(Optional)

<i>te_link_max_bw</i>	(Optional)
<i>te_link_rsv_bw</i>	(Optional)
<i>te_link_unrsv_bw</i>	(Optional)
<i>te_link_admin</i>	(Optional)
<i>te_num_links</i>	(Optional)

Command Mode

- /exec

show ip ospf interface

```
show ip ospf [ <tag> ] interface [ <interface> | vrf { <vrf-name> | <vrf-known-name> | all } ] [ private ] [
__readonly__ TABLE_ctx <ptag> <cname> [ TABLE_intf <ifname> <admin_status> <proto_status> [
<unnumbered> ] <addr> [ <masklen> ] [ <parent_intf> ] <area> [ <if_cfg> ] <state_str> <type_str> <cost>
[ <bfd_enabled> ] [ <ldp_sync> ] [ <dc_enabled> ] [ <sid_index> ] [ <sid_n_flag_clear> ] [ <sid_exp_null>
] <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [ <bdr_rid>
] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr> ] [ <hello_interval> ] [
<dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <lsu_timer> ]
[ <lsack_timer> ] [ <auth_type> ] [ <keychain_name> ] [ <keychain_ready> ] [ <auth_md5_keyid> ] [
<auth_keyid> ] [ <auth_algo> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <multi_area_cnt> ] [ <multi_area_adj>
] [ <state_chg_cnt> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
<i>interface</i>	(Optional) OSPF enabled interface
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
<i>TABLE_ctx</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>TABLE_intf</i>	(Optional)
<i>ifname</i>	(Optional)
<i>admin_status</i>	(Optional)
<i>proto_status</i>	(Optional)
<i>unnumbered</i>	(Optional)

<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>parent_intf</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>ldp_sync</i>	(Optional)
<i>dc_enabled</i>	(Optional)
<i>sid_index</i>	(Optional)
<i>sid_n_flag_clear</i>	(Optional)
<i>sid_exp_null</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)

<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>auth_keyid</i>	(Optional)
<i>auth_algo</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>multi_area_cnt</i>	(Optional)
<i>multi_area_adj</i>	(Optional)
<i>state_chg_cnt</i>	(Optional)

Command Mode

- /exec

show ip ospf interface brief

```
show ip ospf [ <tag> ] interface brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <intf_count> TABLE_intf <ifname> <index> <area> <cost> <state_str>
<nbr_total> <admin_status> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
brief	Display summary of OSPF interfaces
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>intf_count</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>index</i>	(Optional)
<i>area</i>	(Optional)
<i>cost</i>	(Optional)
<i>state_str</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>admin_status</i>	(Optional)

Command Mode

- /exec

- /exec

show ip ospf neighbors

```
show ip ospf [ <tag> ] neighbors [ { { <interface> [ <neighbor> | <neighbor-name> ] } | { [ <neighbor> | <neighbor-name> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] } } ] [ __readonly__ TABLE_ctx <ptag> <cname> <nbrcount> [ TABLE_nbr <rid> <priority> <state> <drstate> <uptime> <addr> <intf> [ <multiarea> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
<i>neighbor</i>	(Optional) Router ID of neighbor
<i>neighbor-name</i>	(Optional) DNS Name of the neighbor
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>nbrcount</i>	(Optional)
TABLE_nbr	(Optional)
<i>rid</i>	(Optional)
<i>priority</i>	(Optional)
<i>state</i>	(Optional)
<i>drstate</i>	(Optional)
<i>uptime</i>	(Optional)

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

Command Mode

- /exec

show ip ospf neighbors detail

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

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
<i>neighbor</i>	(Optional) Router ID of neighbor
<i>neighbor-name</i>	(Optional) DNS Name of the neighbor
detail	Show detailed neighbor display
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_nbr	(Optional)
<i>rid</i>	(Optional)
<i>addr</i>	(Optional)

<i>area</i>	(Optional)
<i>intf</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>bfd_state</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastmonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>pacingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)

<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)
<i>dc</i>	(Optional)
<i>sradjsid</i>	(Optional)
<i>sradjflags</i>	(Optional)

Command Mode

- /exec

show ip ospf neighbors summary

```
show ip ospf [ <tag> ] neighbors [ <interface> ] summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <ptag> <cname> TABLE_intf { <ifname> | <total> } <down> <attempt> <init>
<twoway> <exstart> <exchange> <loading> <full> <if_total> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
<i>interface</i>	(Optional) OSPF enabled interface
summary	Summary of neighbors
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_intf	(Optional)
<i>ifname</i>	(Optional)
<i>total</i>	(Optional)
<i>down</i>	(Optional)
<i>attempt</i>	(Optional)
<i>init</i>	(Optional)
<i>twoway</i>	(Optional)
<i>exstart</i>	(Optional)
<i>exchange</i>	(Optional)

<i>loading</i>	(Optional)
<i>full</i>	(Optional)
<i>if_total</i>	(Optional)

Command Mode

- /exec

Command Mode

- /exec

<i>age</i>	(Optional)
------------	------------

Command Mode

- /exec

show ip ospf route

```
show ip ospf [ <tag> ] route [ <ip-addr> | <ip-prefix> [ longer-prefixes ] ] [ all_routes ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ <hdr_addr> ] [ <hdr_masklen> ] [ TABLE_route <addr> <masklen> <type> [ <in_ulib> ] <in_rib> <direct> [ <area> ] [ <tag> ] [ <sid> ] [ <in_label> ] [ <vlink_unresolved> ] [ TABLE_route_ubest_nh [ <ubest_nh_addr> ] [ <ubest_nh_intf> ] [ <ubest_cost> ] [ <distance> ] [ <ubest_nh_direct> ] [ <ubest_nh_sham_link> ] [ <ubest_nh_te_tun> ] [ <ubest_nh_in_rib> ] [ <out_label> ] ] [ TABLE_route_mbest_nh [ <mbest_nh_addr> ] [ <mbest_nh_intf> ] [ <mbest_cost> ] [ <mbest_nh_direct> ] [ <mbest_nh_in_rib> ] ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
<i>ip-addr</i>	(Optional) Show single OSPF route
<i>ip-prefix</i>	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
all_routes	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>tag</i>	(Optional)
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>hdr_addr</i>	(Optional)
<i>hdr_masklen</i>	(Optional)
TABLE_route	(Optional)
<i>addr</i>	(Optional)

<i>masklen</i>	(Optional)
<i>type</i>	(Optional)
<i>in_ulib</i>	(Optional)
<i>in_rib</i>	(Optional)
<i>direct</i>	(Optional)
<i>area</i>	(Optional)
<i>sid</i>	(Optional)
<i>in_label</i>	(Optional)
<i>vlink_unresolved</i>	(Optional)
TABLE_route_ubest_nh	(Optional)
<i>ubest_nh_addr</i>	(Optional)
<i>ubest_nh_intf</i>	(Optional)
<i>ubest_cost</i>	(Optional)
<i>distance</i>	(Optional)
<i>ubest_nh_direct</i>	(Optional)
<i>ubest_nh_sham_link</i>	(Optional)
<i>ubest_nh_te_tun</i>	(Optional)
<i>ubest_nh_in_rib</i>	(Optional)
<i>out_label</i>	(Optional)
TABLE_route_mbest_nh	(Optional)
<i>mbest_nh_addr</i>	(Optional)
<i>mbest_nh_intf</i>	(Optional)
<i>mbest_cost</i>	(Optional)
<i>mbest_nh_direct</i>	(Optional)
<i>mbest_nh_in_rib</i>	(Optional)

Command Mode

- /exec

show ip ospf route summary

```
show ip ospf [ <tag> ] route [ <ip-prefix> [ longer-prefixes ] ] summary [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_route <total_routes> <total_paths> [
TABLE_route_type <path_type> <path_routes> <path_paths> ] [ TABLE_route_masklen <masklen>
<masklen_routes> <masklen_paths> ] ] ]
```

Syntax Description

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

TABLE_route_masklen	(Optional)
<i>masklen</i>	(Optional)
<i>masklen_routes</i>	(Optional)
<i>masklen_paths</i>	(Optional)

Command Mode

- /exec

show ip ospf segment-routing adj-sid-database

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

Syntax Description

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

Command Mode

- /exec

show ip ospf segment-routing global-block

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

Syntax Description

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

Command Mode

- /exec

show ip ospf segment-routing sid-database

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

Syntax Description

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

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

Command Mode

- /exec

show ip ospf sham-links

```
show ip ospf [ <tag> ] sham-links [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_slink <name> <if_state> [ <unnumbered> ] <addr> [ <masklen> ] [ <parent_intf>
] <area> [ <if_cfg> ] <state_str> <type_str> <cost> [ <bfd_enabled> ] [ <ldp_sync> ] [ <dc_enabled> ] [
<sid_index> <sid_n_flag_clear> <sid_exp_null> ] <index> [ [ <passive> ] [ <mpls> ] [ <transmit_delay> ]
[ <if_priority> [ <dr_rid> <dr_addr> ] [ <bdr_rid> <bdr_addr> ] ] <nbr_total> <nbr_flood> <nbr_adj> [
<gr_nbr> ] <hello_interval> <dead_interval> <wait_interval> <rxmt_interval> [ <hello_timer> ] [ <wait_timer>
] [ <lsu_timer> ] [ <lsack_timer> ] <auth_type> [ <keychain_name> <keychain_ready> ] [ <auth_md5_keyid>
] [ <auth_keyid> <auth_algo> ] <link_lsa_cnt> <link_lsa_crc> ] [ <dest_ip> ] [ TABLE_nbr <rid> <addr>
<area> <intf> <state> <transition> <lastchange> [ <bfd_state> ] [ <priority> [ <ifid> ] [ <dr> ] [ <bdr> ] ] [
<master> <seqno> <dbdallsentacked> <dbdallsent> <dbdallacked> ] [ <lsaonreqlist> <lsafromlastreq>
<lsreqrxmts> ] <helloptions> <dbdoptions> <lastnonhello> [ <deadtimer> ] [ <pacingtmer> ] [ <dbdrxmtimer>
] [ <reqrxtimer> ] [ <lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [
<helpermode> ] [ <helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt>
] [ <sendlsack> ] [ <sendlsreqreply> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
sham-links	Sham link information
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_slink	(Optional)
name	(Optional)
if_state	(Optional)
unnumbered	(Optional)
addr	(Optional)

<i>masklen</i>	(Optional)
<i>parent_intf</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>bfd_enabled</i>	(Optional)
<i>ldp_sync</i>	(Optional)
<i>dc_enabled</i>	(Optional)
<i>sid_index</i>	(Optional)
<i>sid_n_flag_clear</i>	(Optional)
<i>sid_exp_null</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)

<i>rxmt_interval</i>	(Optional)
<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>auth_keyid</i>	(Optional)
<i>auth_algo</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>dest_ip</i>	(Optional)
TABLE_nbr	(Optional)
<i>rid</i>	(Optional)
<i>addr</i>	(Optional)
<i>area</i>	(Optional)
<i>intf</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>bfd_state</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)

<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>pacingtimer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)

Command Mode

- /exec

show ip ospf sham-links brief

```
show ip ospf [ <tag> ] sham-links brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <count> [ TABLE_slink <src_ip> <dest_ip> <ifnum> <area> <cost> <if_state>
]]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
sham-links	Sham link information
brief	Display summary of OSPF sham links
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>count</i>	(Optional)
TABLE_slink	(Optional)
<i>src_ip</i>	(Optional)
<i>dest_ip</i>	(Optional)
<i>ifnum</i>	(Optional)
<i>area</i>	(Optional)
<i>cost</i>	(Optional)
<i>if_state</i>	(Optional)

Command Mode

- /exec

show ip ospf statistics

```
show ip ospf [ <tag> ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_stats
<ptag> <cname> <last_clear> <rid_change> <dr_elections> <kstack_reg_dereg_errors> <older_lsa_rcv>
<nbr_state_change> <nbr_dead_postpone> <nbr_dead_expire> <nbr_bad_lsreq> <nbr_seqno_mismatch>
<spf_full> <spf_summary> <spf_external> <spf_extsummary> <rtr_generate> <rtr_refresh> <rtr_flush>
<rtr_other_flush> <net_generate> <net_refresh> <net_flush> <net_other_flush> <sum_generate>
<sum_refresh> <sum_flush> <sum_other_flush> <asbr_generate> <asbr_refresh> <asbr_flush>
<asbr_other_flush> <asext_generate> <asext_refresh> <asext_flush> <asext_other_flush>
<opaque_link_generate> <opaque_link_refresh> <opaque_link_flush> <opaque_link_other_flush>
<opaque_area_generate> <opaque_area_refresh> <opaque_area_flush> <opaque_area_other_flush>
<opaque_as_generate> <opaque_as_refresh> <opaque_as_flush> <opaque_as_other_flush> <limbo_lsa_count>
<limbo_lsa_hwm> <limbo_lsa_deleted> <limbo_lsa_revived> <limbo_runs> <limbo_lsa_last_time_hwm>
[ <limbo_timer> ] <helloq_size> <helloq_max_size> <helloq_hwm> <helloq_drops> <helloq_last_hwm_time>
<floodq_size> <floodq_max_size> <floodq_hwm> <floodq_drops> <floodq_last_hwm_time> <lsdb_add_fail>
[ TABLE_buffer_detail [ <buf_size> ] [ <buf_size_huge> ] <buf_in_use> <buf_hwm> <buf_perm> <buf_alloc>
<buf_free> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Event counters
__readonly__	(Optional)
TABLE_stats	(Optional)
ptag	(Optional)
cname	(Optional)
last_clear	(Optional)
rid_change	(Optional)
dr_elections	(Optional)
kstack_reg_dereg_errors	(Optional)

<i>older_lsa_rcv</i>	(Optional)
<i>nbr_state_change</i>	(Optional)
<i>nbr_dead_postpone</i>	(Optional)
<i>nbr_dead_expire</i>	(Optional)
<i>nbr_bad_lsreq</i>	(Optional)
<i>nbr_seqno_mismatch</i>	(Optional)
<i>spf_full</i>	(Optional)
<i>spf_summary</i>	(Optional)
<i>spf_external</i>	(Optional)
<i>spf_extsummary</i>	(Optional)
<i>rtr_generate</i>	(Optional)
<i>rtr_refresh</i>	(Optional)
<i>rtr_flush</i>	(Optional)
<i>rtr_other_flush</i>	(Optional)
<i>net_generate</i>	(Optional)
<i>net_refresh</i>	(Optional)
<i>net_flush</i>	(Optional)
<i>net_other_flush</i>	(Optional)
<i>sum_generate</i>	(Optional)
<i>sum_refresh</i>	(Optional)
<i>sum_flush</i>	(Optional)
<i>sum_other_flush</i>	(Optional)
<i>asbr_generate</i>	(Optional)
<i>asbr_refresh</i>	(Optional)
<i>asbr_flush</i>	(Optional)
<i>asbr_other_flush</i>	(Optional)
<i>asext_generate</i>	(Optional)
<i>asext_refresh</i>	(Optional)
<i>asext_flush</i>	(Optional)

<i>asext_other_flush</i>	(Optional)
<i>opaque_link_generate</i>	(Optional)
<i>opaque_link_refresh</i>	(Optional)
<i>opaque_link_flush</i>	(Optional)
<i>opaque_link_other_flush</i>	(Optional)
<i>opaque_area_generate</i>	(Optional)
<i>opaque_area_refresh</i>	(Optional)
<i>opaque_area_flush</i>	(Optional)
<i>opaque_area_other_flush</i>	(Optional)
<i>opaque_as_generate</i>	(Optional)
<i>opaque_as_refresh</i>	(Optional)
<i>opaque_as_flush</i>	(Optional)
<i>opaque_as_other_flush</i>	(Optional)
<i>limbo_lsa_count</i>	(Optional)
<i>limbo_lsa_hwm</i>	(Optional)
<i>limbo_lsa_deleted</i>	(Optional)
<i>limbo_lsa_revived</i>	(Optional)
<i>limbo_runs</i>	(Optional)
<i>limbo_lsa_last_time_hwm</i>	(Optional)
<i>limbo_timer</i>	(Optional)
<i>helloq_size</i>	(Optional)
<i>helloq_max_size</i>	(Optional)
<i>helloq_hwm</i>	(Optional)
<i>helloq_drops</i>	(Optional)
<i>helloq_last_hwm_time</i>	(Optional)
<i>floodq_size</i>	(Optional)
<i>floodq_max_size</i>	(Optional)
<i>floodq_hwm</i>	(Optional)
<i>floodq_drops</i>	(Optional)

<i>floodq_last_hwm_time</i>	(Optional)
<i>lsdb_add_fail</i>	(Optional)
TABLE_buffer_detail	(Optional)
<i>buf_size</i>	(Optional)
<i>buf_size_huge</i>	(Optional)
<i>buf_in_use</i>	(Optional)
<i>buf_hwm</i>	(Optional)
<i>buf_perm</i>	(Optional)
<i>buf_alloc</i>	(Optional)
<i>buf_free</i>	(Optional)

Command Mode

- /exec

show ip ospf summary-address

```
show ip ospf [ <tag> ] summary-address [ private ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ [ TABLE_ctx <ptag> <cname> <rid> [ TABLE_sum <addr> <masklen> [ <metric> ] [ <tag>
] [ <pending> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary-address	Summary-address redistribution information
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>rid</i>	(Optional)
TABLE_sum	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>metric</i>	(Optional)
<i>pending</i>	(Optional)

Command Mode

- /exec

show ip ospf traffic

```
show ip ospf [ <tag> ] traffic [ <interface> [ detail ] | [ detail ] | [ detail ] vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_traf <ptag> <cname> <last_clear> [ <ifname> ] <pkt_in> <pkt_out>
<lsu_first_trans> <lsu_retrans> <lsu_for_lsreq> <lsu_nbr_trans> <throttle_out> <throttle_out_token>
<throttle_out_ip> <lsa_ignored> <lsa_dropped_spf> <lsa_dropped_gr> <pkt_drops_in> <pkt_drops_out>
<pkt_errors_in> <pkt_errors_out> <hello_errors_in> <dbds_errors_in> <lsreqs_errors_in> <lsus_errors_in>
<lsacks_errors_in> <pkt_unknown_in> <pkt_unknown_out> <pkt_no_ospf_intf> <bad_version> <bad_crc>
<dup_rtr_id> <dup_src_addr> <invalid_src_addr> <invalid_dst_addr> <non_existing_nbr> <pkt_passive_intf>
<wrong_area> <invalid_pkt_len> <nbr_changed_routerid_ipaddr> <nbr_changed_interfaceid> <bad_auth>
[ <pkt_no_vrf> ] [ <bad_reserved> ] [ <kstack_errors_in> ] <hellos_in> <dbds_in> <lsreqs_in> <lsus_in>
<lsacks_in> <hellos_out> <dbds_out> <lsreqs_out> <lsus_out> <lsacks_out> [ <hellos_in_hq> <dbds_in_hq>
<lsreqs_in_flq> <lsus_in_flq> <lsacks_in_flq> <lsas_in_dbds_in> <lsas_in_lsreqs_in> <lsas_in_lsus_in>
<lsas_in_lsacks_in> <lsas_in_dbds_out> <lsas_in_lsreqs_out> <lsas_in_lsus_out> <lsas_in_lsacks_out>
<lsas_in_rxmt_lsus_out> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
interface	(Optional) OSPF enabled interface
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Packet counters
__readonly__	(Optional)
TABLE_traf	(Optional)
ptag	(Optional)
cname	(Optional)
last_clear	(Optional)
ifname	(Optional)
pkt_in	(Optional)

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

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

<i>lsas_in_dbds_out</i>	(Optional)
<i>lsas_in_lsreqs_out</i>	(Optional)
<i>lsas_in_lsus_out</i>	(Optional)
<i>lsas_in_lsacks_out</i>	(Optional)
<i>lsas_in_rxmt_lsus_out</i>	(Optional)

Command Mode

- /exec

show ip ospf virtual-links

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

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_vlink	(Optional)
name	(Optional)
nbr_rid	(Optional)
if_state	(Optional)
transit_area	(Optional)

<i>nh_intf</i>	(Optional)
<i>dc_enabled</i>	(Optional)
<i>nbr_addr</i>	(Optional)
<i>transit_area_stub</i>	(Optional)
<i>transit_area_nssa</i>	(Optional)
<i>addr</i>	(Optional)
<i>masklen</i>	(Optional)
<i>area</i>	(Optional)
<i>if_cfg</i>	(Optional)
<i>state_str</i>	(Optional)
<i>type_str</i>	(Optional)
<i>cost</i>	(Optional)
<i>index</i>	(Optional)
<i>passive</i>	(Optional)
<i>mpls</i>	(Optional)
<i>transmit_delay</i>	(Optional)
<i>if_priority</i>	(Optional)
<i>dr_rid</i>	(Optional)
<i>dr_addr</i>	(Optional)
<i>bdr_rid</i>	(Optional)
<i>bdr_addr</i>	(Optional)
<i>nbr_total</i>	(Optional)
<i>nbr_flood</i>	(Optional)
<i>nbr_adj</i>	(Optional)
<i>gr_nbr</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>dead_interval</i>	(Optional)
<i>wait_interval</i>	(Optional)
<i>rxmt_interval</i>	(Optional)

<i>hello_timer</i>	(Optional)
<i>wait_timer</i>	(Optional)
<i>pacing_timer</i>	(Optional)
<i>lsu_timer</i>	(Optional)
<i>lsack_timer</i>	(Optional)
<i>netlsa_throt_timer</i>	(Optional)
<i>auth_type</i>	(Optional)
<i>keychain_name</i>	(Optional)
<i>keychain_ready</i>	(Optional)
<i>auth_md5_keyid</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</i>	(Optional)
<i>state</i>	(Optional)
<i>transition</i>	(Optional)
<i>lastchange</i>	(Optional)
<i>priority</i>	(Optional)
<i>ifid</i>	(Optional)
<i>dr</i>	(Optional)
<i>bdr</i>	(Optional)
<i>master</i>	(Optional)
<i>seqno</i>	(Optional)
<i>dbdallsentacked</i>	(Optional)
<i>dbdallsent</i>	(Optional)
<i>dbdallacked</i>	(Optional)
<i>lsaonreqlist</i>	(Optional)
<i>lsafromlastreq</i>	(Optional)
<i>lsreqrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)

<i>lastmonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>pacingtmer</i>	(Optional)
<i>dbdrxmtimer</i>	(Optional)
<i>reqrxmtimer</i>	(Optional)
<i>lsutimer</i>	(Optional)
<i>rerxmtimer</i>	(Optional)
<i>fastrerxmtimer</i>	(Optional)
<i>lsacktimer</i>	(Optional)
<i>grtimer</i>	(Optional)
<i>helpermode</i>	(Optional)
<i>helpercand</i>	(Optional)
<i>helperterm</i>	(Optional)
<i>senddbd</i>	(Optional)
<i>sendlsreq</i>	(Optional)
<i>sendlsu</i>	(Optional)
<i>sendlsurxmt</i>	(Optional)
<i>sendlsack</i>	(Optional)
<i>sendlsreqreply</i>	(Optional)

Command Mode

- /exec

show ip ospf virtual-links brief

```
show ip ospf [ <tag> ] virtual-links brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <vlink_count> [ TABLE_vlink <nbr_rid> <vlink_num> <transit_area> <cost>
<if_state> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
brief	Display summary of OSPF virtual links
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>vlink_count</i>	(Optional)
TABLE_vlink	(Optional)
<i>nbr_rid</i>	(Optional)
<i>vlink_num</i>	(Optional)
<i>transit_area</i>	(Optional)
<i>cost</i>	(Optional)
<i>if_state</i>	(Optional)

Command Mode

- /exec

<i>mem-error</i>	(Optional)
<i>found</i>	(Optional)
TABLE_BSR	(Optional)
<i>rp-cand-count</i>	(Optional)
<i>rp-cand-interface</i>	(Optional)
<i>rp-cand-error</i>	(Optional)
<i>bsr-cand-count</i>	(Optional)
<i>bsr-cand-interface</i>	(Optional)
<i>bsr-cand-error</i>	(Optional)
TABLE_AUTORP	(Optional)
<i>rp-cand-count</i>	(Optional)
<i>rp-cand-interface</i>	(Optional)
<i>rp-cand-error</i>	(Optional)
<i>auto-cand-count</i>	(Optional)
<i>auto-cand-interface</i>	(Optional)
<i>auto-cand-error</i>	(Optional)

Command Mode

- /exec

show ip pim df

```
show ip pim df [ <rp-or-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [ __readonly__
[ TABLE_ctx [ <out-context> ] [ TABLE_rp [ <rp-addr> ] [ <df-ordinal> ] [ <df-bits> ] [ <df-bits-count> ]
[ <metric-pref> ] [ <metric> ] [ TABLE_grange [ <grange-grp> ] [ <grange-masklen> ] ] [ TABLE_iod [
<if-name> ] [ <df-winner> ] [ <df-state> ] [ <winner-metric-pref> ] [ <winner-metric> ] [ <uptime> ] [ <is-rpf>
] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
df	Display Bidir Designated Forwarders
<i>rp-or-group</i>	(Optional) Display for a single RP or group address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	(Optional) Commands for internal use
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>out-context</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>df-bits</i>	(Optional)
<i>df-bits-count</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>metric</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-grp</i>	(Optional)
<i>grange-masklen</i>	(Optional)

TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>df-winner</i>	(Optional)
<i>df-state</i>	(Optional)
<i>winner-metric-pref</i>	(Optional)
<i>winner-metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>is-rpf</i>	(Optional)

Command Mode

- /exec

show ip pim fabric info

```
show ip pim fabric info [ __readonly__ <switch_role> <fabric_ctrl_addr> <peer_fabric_ctrl_infra>
<vpc_domain_id> <peer_fabric_ctrl_addr> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
fabric	Fabric functionality
info	show the fabric info
<i>__readonly__</i>	(Optional)
<i>switch_role</i>	(Optional)
<i>fabric_ctrl_addr</i>	(Optional)
<i>peer_fabric_ctrl_infra</i>	(Optional)
<i>vpc_domain_id</i>	(Optional)
<i>peer_fabric_ctrl_addr</i>	(Optional)

Command Mode

- /exec

show ip pim fabric legacy-vlans

```
show ip pim fabric legacy-vlans [ __readonly__ TABLE_legacy_vlan <vlan_id> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
fabric	Fabric functionality
legacy-vlans	Show legacy VLANs on this switch
<i>__readonly__</i>	(Optional)
<i>TABLE_legacy_vlan</i>	(Optional)
<i>vlan_id</i>	(Optional)

Command Mode

- /exec

show ip pim group-range

```
show ip pim group-range [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf <out-context> [ { TABLE_group <grp-addr> [ <invalid-grp> ] [ <action> ] [ <mode> ] [ <rp-addr>
] [ <sh-tree-only-range> ] [ <origin> ] } ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
group-range	Display the various group-ranges
<i>group</i>	(Optional) IP address of group to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_group	(Optional)
<i>invalid-grp</i>	(Optional)
<i>grp-addr</i>	(Optional)
<i>mode</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>sh-tree-only-range</i>	(Optional)
<i>action</i>	(Optional)
<i>origin</i>	(Optional)

Command Mode

- /exec

show ip pim host-proxy

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

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
host-proxy	host-proxy
__readonly__	(Optional)
TABLE_intf	(Optional)
<i>intf-name</i>	(Optional)
<i>proxy-type</i>	(Optional)

Command Mode

- /exec

show ip pim interface

```
show ip pim interface [ <interface> ] [ brief ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [
serialize ] [ __readonly__ [ <is-pim-enabled> ] [ TABLE_vrf [ <out-context> ] [ TABLE_brief [ <if-name>
] [ <if-addr> ] [ <if-dr> ] [ <if-nbr-count> ] [ <if-is-border> ] ] [ TABLE_iod [ <if-name> ] [ <if-status> ] [
<cached_if_status> ] [ <if-addr-summary> ] [ <pim-dr-address> ] [ <dr-priority> ] [ <no-dr-priority> ] [
<nbr-cnt> ] [ <hello-interval-sec> ] [ <hello-interval-msec> ] [ <hello-timer> ] [ <holdtime-msec> ] [
<holdtime-sec> ] [ <if-conf-dr-priority> ] [ <if-conf-delay> ] [ <is-border> ] [ <genid> ] [ <isauth-config> ]
[ <nbr-policy-name> ] [ <jp-in-policy-name> ] [ <jp-out-policy-name> ] [ <jp-interval> ] [ <jp-next-send> ]
[ <pim-bfd-enabled> ] [ <is-passive> ] [ <is-pim-vpc-svi> ] [ <is-auto-enabled> ] [ <vpc-peer-nbr> ] [
<last-cleared> ] [ <hello-sent> ] [ <hello-rcvd> ] [ <hello-early-sent> ] [ <jp-sent> ] [ <jp-rcvd> ] [ <assert-sent>
] [ <assert-rcvd> ] [ <graft-sent> ] [ <graft-rcvd> ] [ <graft-ack-sent> ] [ <graft-ack-rcvd> ] [ <df-offer-sent>
] [ <df-offer-rcvd> ] [ <df-winner-sent> ] [ <df-winner-rcvd> ] [ <df-backoff-sent> ] [ <df-backoff-rcvd> ] [
<pass-sent> ] [ <pass-rcvd> ] [ <cksum-errors> ] [ <invalid-errors> ] [ <invalid-df-errors> ] [ <auth-failed>
] [ <pak-len-errors> ] [ <ver-errors> ] [ <pkts-self> ] [ <pkts-non-nbr> ] [ <pkts-on-passive> ] [ <jp-rcvd-on-rpf>
] [ <jp-rcvd-no-rp> ] [ <jp-rcvd-wrong-rp> ] [ <jp-rcvd-for-ssm> ] [ <jp-rcvd-for-bidir> ] [ <jp-in-policy-filter>
] [ <jp-out-policy-filter> ] [ <ecmp-redirect-sent> ] [ <ecmp-redirect-rcv> ] [ <is-border-router> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
interface	Display PIM interface related information
<i>interface</i>	(Optional) Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
serialize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
<i>is-pim-enabled</i>	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_brief	(Optional)

<i>if-name</i>	(Optional)
<i>if-addr</i>	(Optional)
<i>if-dr</i>	(Optional)
<i>if-nbr-count</i>	(Optional)
<i>if-is-border</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>cached_if_status</i>	(Optional)
<i>if-addr-summary</i>	(Optional)
<i>pim-dr-address</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)
<i>nbr-cnt</i>	(Optional)
<i>hello-interval-sec</i>	(Optional)
<i>hello-interval-msec</i>	(Optional)
<i>hello-timer</i>	(Optional)
<i>holdtime-msec</i>	(Optional)
<i>holdtime-sec</i>	(Optional)
<i>if-conf-dr-priority</i>	(Optional)
<i>if-conf-delay</i>	(Optional)
<i>is-border</i>	(Optional)
<i>genid</i>	(Optional)
<i>isauth-config</i>	(Optional)
<i>nbr-policy-name</i>	(Optional)
<i>jp-in-policy-name</i>	(Optional)
<i>jp-out-policy-name</i>	(Optional)
<i>jp-interval</i>	(Optional)
<i>jp-next-send</i>	(Optional)

<i>pim-bfd-enabled</i>	(Optional)
<i>is-passive</i>	(Optional)
<i>is-pim-vpc-svi</i>	(Optional)
<i>is-auto-enabled</i>	(Optional)
<i>vpc-peer-nbr</i>	(Optional)
<i>last-cleared</i>	(Optional)
<i>hello-sent</i>	(Optional)
<i>hello-rcvd</i>	(Optional)
<i>hello-early-sent</i>	(Optional)
<i>jp-sent</i>	(Optional)
<i>jp-rcvd</i>	(Optional)
<i>assert-sent</i>	(Optional)
<i>assert-rcvd</i>	(Optional)
<i>graft-sent</i>	(Optional)
<i>graft-rcvd</i>	(Optional)
<i>graft-ack-sent</i>	(Optional)
<i>graft-ack-rcvd</i>	(Optional)
<i>df-offer-sent</i>	(Optional)
<i>df-offer-rcvd</i>	(Optional)
<i>df-winner-sent</i>	(Optional)
<i>df-winner-rcvd</i>	(Optional)
<i>df-backoff-sent</i>	(Optional)
<i>df-backoff-rcvd</i>	(Optional)
<i>pass-sent</i>	(Optional)
<i>pass-rcvd</i>	(Optional)
<i>cksum-errors</i>	(Optional)
<i>invalid-errors</i>	(Optional)
<i>invalid-df-errors</i>	(Optional)
<i>auth-failed</i>	(Optional)

<i>pak-len-errors</i>	(Optional)
<i>ver-errors</i>	(Optional)
<i>pkts-self</i>	(Optional)
<i>pkts-non-nbr</i>	(Optional)
<i>pkts-on-passive</i>	(Optional)
<i>jp-rcvd-on-rpf</i>	(Optional)
<i>jp-rcvd-no-rp</i>	(Optional)
<i>jp-rcvd-wrong-rp</i>	(Optional)
<i>jp-rcvd-for-ssm</i>	(Optional)
<i>jp-rcvd-for-bidir</i>	(Optional)
<i>jp-in-policy-filter</i>	(Optional)
<i>jp-out-policy-filter</i>	(Optional)
<i>ecmp-redirect-sent</i>	(Optional)
<i>ecmp-redirect-rcv</i>	(Optional)
<i>is-border-router</i>	(Optional)

Command Mode

- /exec

show ip pim mdt

```
show ip pim mdt [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <out_context>
<mti> <mti_status> <default_mdt_grp> <grp_mode> <asm_shared_tree> <mti_config_mtu> <mti_active_mtu>
<cfg_tunnel_src_if> <bgp_update_src_if> <hello_interval> <jp_interval> <data_mdt_join_interval>
<data_switchover_interval> <data_holddown_interval> <data_timeout_interval> <mdt_src> <mdt_src_if>
<bgp_rd> <bgp_rd_set> <send_join_count> <rcvd_join_count> [ { TABLE_data_mdt <grange_prefix>
<grange_mask_len> <data_grp_mode> <threshold> [ <policy_name> } ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
<i>mti</i>	(Optional)
<i>mti_status</i>	(Optional)
<i>default_mdt_grp</i>	(Optional)
<i>grp_mode</i>	(Optional)
<i>asm_shared_tree</i>	(Optional)
<i>mti_config_mtu</i>	(Optional)
<i>mti_active_mtu</i>	(Optional)
<i>cfg_tunnel_src_if</i>	(Optional)
<i>bgp_update_src_if</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>jp_interval</i>	(Optional)

<i>data_mdt_join_interval</i>	(Optional)
<i>data_switchover_interval</i>	(Optional)
<i>data_holddown_interval</i>	(Optional)
<i>data_timeout_interval</i>	(Optional)
<i>mdt_src</i>	(Optional)
<i>mdt_src_if</i>	(Optional)
<i>bgp_rd</i>	(Optional)
<i>bgp_rd_set</i>	(Optional)
<i>send_join_count</i>	(Optional)
<i>rcvd_join_count</i>	(Optional)
TABLE_data_mdt	(Optional)
<i>grange_prefix</i>	(Optional)
<i>grange_mask_len</i>	(Optional)
<i>data_grp_mode</i>	(Optional)
<i>threshold</i>	(Optional)
<i>policy_name</i>	(Optional)

Command Mode

- /exec

show ip pim mdt bgp

```
show ip pim mdt bgp [ mdt-source <src-addr> ] [ __readonly__ { TABLE_entry <bgp_rd> <mdt_src>
<mdt_grp> <local> } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
bgp	Display BGP related information
mdt-source	(Optional) Source address of MVPN neighbor
<i>src-addr</i>	(Optional) Source Address
<i>__readonly__</i>	(Optional)
TABLE_entry	(Optional)
<i>bgp_rd</i>	(Optional)
<i>mdt_src</i>	(Optional)
<i>mdt_grp</i>	(Optional)
<i>local</i>	(Optional)

Command Mode

- /exec

show ip pim mdt history interval

```
show ip pim mdt history interval <min> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
history	Display MDT Data Join Send Histoy
interval	Display in specified interval
<i>min</i>	Minutes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>csrc</i>	(Optional)
<i>cgrp</i>	(Optional)
<i>psrc</i>	(Optional)
<i>pgrp</i>	(Optional)
<i>uptime</i>	(Optional)
<i>send_count</i>	(Optional)

Command Mode

- /exec

show ip pim mdt receive

```
show ip pim mdt receive [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
[ <out_context> ] [ TABLE_entry [ <csrc> ] [ <cgrp> ] [ <psrc> ] [ <pgrp> ] [ <uptime> ] [ <expires> ] [
<recv_count> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
receive	Display Received Data Joins Information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>csrc</i>	(Optional)
<i>cgrp</i>	(Optional)
<i>psrc</i>	(Optional)
<i>pgrp</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>recv_count</i>	(Optional)

Command Mode

- /exec

show ip pim mdt send

```
show ip pim mdt send [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
send	Display MDT Data Join Send Information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>csrc</i>	(Optional)
<i>cgrp</i>	(Optional)
<i>psrc</i>	(Optional)
<i>pgrp</i>	(Optional)
<i>uptime</i>	(Optional)
<i>send_count</i>	(Optional)

Command Mode

- /exec

show ip pim neighbor

```
show ip pim neighbor { [ <interface> ] [ <address> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
detail | internal ] [ serialize ] [ __readonly__ [ TABLE_vrf <out-context> [ TABLE_neighbor
<nbr-addr><if-name><uptime><expires> [ <dr-priority> ] <bidir-capable><bfd-state> [
<longest-hello-intvl><non-hello-pkts> ] [ <ecmp-redirect-capable> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
neighbor	Display PIM neighbor related information
<i>interface</i>	(Optional) Display neighbors on single interface name
<i>address</i>	(Optional) IP address of single neighbor to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
internal	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
serialize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_neighbor	(Optional)
<i>dr-priority</i>	(Optional)
<i>ecmp-redirect-capable</i>	(Optional)

Command Mode

- /exec

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

Command Mode

- /exec

show ip pim policy statistics

```
show ip pim policy statistics { register-policy | allow-rp-policy | bsr { bsr-policy | rp-candidate-policy } |
auto-rp { rp-candidate-policy | mapping-agent-policy } } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ [ TABLE_vrf [ <vrf_name_stats> ] [ TABLE_routemap [ <name> ] [ <action> ] [ <seq_num>
] [ TABLE_cmd [ <command> ] [ <compare_count> ] [ <match_count> ] ] ] [ <total_accept_count> ] [
<total_reject_count> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
policy	Policy related information
statistics	Policy statistics
register-policy	Statistics for Register policy
allow-rp-policy	Statistics for Allow RP policy
bsr	Bootstrap protocol RP-distribution policy
bsr-policy	Statistics for filtered BSR messages
rp-candidate-policy	Statistics for filtered RP candidate messages
auto-rp	Statistics for auto-rp messages
rp-candidate-policy	Statistics for filtered RP candidate messages
mapping-agent-policy	Statistics for filtered mapping agent messages
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf_name_stats</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)

<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ip pim policy statistics jp

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

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
policy	Policy related information
statistics	Policy statistics
jp-policy	Statistics for jp-policy
neighbor-policy	Statistics for neighbor-policy
<i>interface</i>	Interface to display policy statistics for
<i>__readonly__</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ip pim route

```
show ip pim route [ [ <source> [ <group> ] ] | [ <group> [ <source> ] ] ] [ bitfield ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ serialize ] [ __readonly__ [ TABLE_vrf [ <context-name> ] [ <route-count> ] [
TABLE_one_route [ <mcast-addr> ] [ <rp-addr> ] [ <rp-local> ] [ <bidir> ] [ <sgexpire> ] [ <sgexpire> ]
[ <timeleft> ] [ <rp-bit> ] [ <register> ] [ <intf-name> ] [ <rpf-nbr-1> ] [ <rpf-nbr-addr> ] [ <oif-count> ] [
<oif-bf-str> ] [ <timeout-count> ] [ <timeout-bf-str> ] [ <immediate-count> ] [ <immediate-bf-str> ] [
<immediate-timeout-count> ] [ <immediate-timeout-bf-str> ] [ <sgr-prune-list-count> ] [ <sgr-prune-list-bf-str> ]
] [ <timeout-interval> ] [ <jp-holdtime-rndup> ] [ <mdt-encap-index> ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
route	Display PIM specific route information
<i>group</i>	(Optional) Group address to display
<i>source</i>	(Optional) Source address to display
bitfield	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
serialize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>context-name</i>	(Optional)
<i>route-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>mcast-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>rp-local</i>	(Optional)
<i>bidir</i>	(Optional)
<i>sgexpire</i>	(Optional)

<i>sgrexpire</i>	(Optional)
<i>timeleft</i>	(Optional)
<i>rp-bit</i>	(Optional)
<i>register</i>	(Optional)
<i>intf-name</i>	(Optional)
<i>rpf-nbr-1</i>	(Optional)
<i>rpf-nbr-addr</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oif-bf-str</i>	(Optional)
<i>timeout-count</i>	(Optional)
<i>timeout-bf-str</i>	(Optional)
<i>immediate-count</i>	(Optional)
<i>immediate-bf-str</i>	(Optional)
<i>immediate-timeout-count</i>	(Optional)
<i>immediate-timeout-bf-str</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
<i>sgr-prune-list-bf-str</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>jp-holdtime-rndup</i>	(Optional)
<i>mdt-encap-index</i>	(Optional)

Command Mode

- /exec

show ip pim rp-hash

```
show ip pim rp-hash <group> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-context>
[ <rp-found> ] [ <is-rp-bsr-learnt> ] [ <out-group1> <rp-addr1> ] [ <out-group> <hash-length> <out-bsr> ]
[ { TABLE_rp <rp-addr> <hash> <isbest_hash> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
rp-hash	Display RP hash value for group
<i>group</i>	Group address for RP lookup
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
<i>out-context</i>	(Optional)
<i>rp-found</i>	(Optional)
<i>is-rp-bsr-learnt</i>	(Optional)
<i>out-group1</i>	(Optional)
<i>rp-addr1</i>	(Optional)
<i>out-group</i>	(Optional)
<i>hash-length</i>	(Optional)
<i>out-bsr</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>hash</i>	(Optional)
<i>isbest_hash</i>	(Optional)

Command Mode

- /exec

<i>is-bsr-local</i>	(Optional)
<i>bsr-is-local</i>	(Optional)
<i>bsr-priority</i>	(Optional)
<i>bsr-hash-masklen</i>	(Optional)
<i>bs-timer</i>	(Optional)
<i>bsr-uptime</i>	(Optional)
<i>bsr-expires</i>	(Optional)
<i>is-atorp-enabled</i>	(Optional)
<i>is-atorp-listen-only</i>	(Optional)
<i>is-atorp-forward-only</i>	(Optional)
<i>auto-rp-addr</i>	(Optional)
<i>atorp-cand-address</i>	(Optional)
<i>is-atorp-local</i>	(Optional)
<i>atorp-dis-timer</i>	(Optional)
<i>atorp-up-time</i>	(Optional)
<i>atorp-expire-time</i>	(Optional)
<i>rp-cand-policy-name</i>	(Optional)
<i>bsr-policy-name</i>	(Optional)
<i>rp-announce-policy-name</i>	(Optional)
<i>rp-discovery-policy-name</i>	(Optional)
TABLE_anycast_rp	(Optional)
<i>anycast-rp-addr</i>	(Optional)
TABLE_arp_rp	(Optional)
<i>arp-rp-addr</i>	(Optional)
<i>is-rpaddr-local</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>is-rp-local</i>	(Optional)
<i>df-ordinal</i>	(Optional)

<i>rp-uptime</i>	(Optional)
<i>rp-priority</i>	(Optional)
<i>is_autorp_source</i>	(Optional)
<i>is_bsr_source</i>	(Optional)
<i>is_static_source</i>	(Optional)
<i>rp-source</i>	(Optional)
<i>static-rp-group-map</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-grp</i>	(Optional)
<i>grange-masklen</i>	(Optional)
<i>grange-is-deny</i>	(Optional)
<i>is-bidir-grp</i>	(Optional)
<i>autorp-expires</i>	(Optional)
<i>bsr-rp-expires</i>	(Optional)
<i>rp-owner-flags</i>	(Optional)
<i>bidir-ordinal</i>	(Optional)
<i>df-bits-recovered</i>	(Optional)
<i>rpf-nbr-address</i>	(Optional)
<i>metric</i>	(Optional)
<i>metric-preference</i>	(Optional)

Command Mode

- /exec

show ip pim statistics

```
show ip pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ serialize ] [ __readonly__ TABLE_vrf
<vrf-name> [ <uptime> <reg-sent> <reg-rcvd> <null-reg-sent> <null-reg-rcvd> <reg-stop-sent> <reg-stop-rcvd>
<reg-rcvd-not-rp> <reg-rcvd-for-ssm> <reg-rcvd-for-bidir> <bootstrap-sent> <bootstrap-rcvd> <cand-rp-sent>
<cand-rp-rcvd> <bs-no-nbr> <bs-border-deny> <bs-len-errors> <bs-rpf-failed> <bs-no-listen>
<candrp-border-deny> <candrp-no-listen> <autorp-announce-sent> <autorp-announce-rcvd>
<autorp-discovery-sent> <autorp-discovery-rcvd> <autorp-rpf-failed> <autorp-border-deny>
<autorp-invalid-type> <autorp-ttl-expired> <autorp-no-listen> <ctrl-no-route> <data-no-route> <no-state>
<create-state> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
statistics	Packet counter statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
serialize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>reg-sent</i>	(Optional)
<i>reg-rcvd</i>	(Optional)
<i>null-reg-sent</i>	(Optional)
<i>null-reg-rcvd</i>	(Optional)
<i>reg-stop-sent</i>	(Optional)
<i>reg-stop-rcvd</i>	(Optional)
<i>reg-rcvd-not-rp</i>	(Optional)
<i>reg-rcvd-for-ssm</i>	(Optional)

<i>reg-rcvd-for-bidir</i>	(Optional)
<i>bootstrap-sent</i>	(Optional)
<i>bootstrap-rcvd</i>	(Optional)
<i>cand-rp-sent</i>	(Optional)
<i>cand-rp-rcvd</i>	(Optional)
<i>bs-no-nbr</i>	(Optional)
<i>bs-border-deny</i>	(Optional)
<i>bs-len-errors</i>	(Optional)
<i>bs-rpf-failed</i>	(Optional)
<i>bs-no-listen</i>	(Optional)
<i>candrp-border-deny</i>	(Optional)
<i>candrp-no-listen</i>	(Optional)
<i>autorp-announce-sent</i>	(Optional)
<i>autorp-announce-rcvd</i>	(Optional)
<i>autorp-discovery-sent</i>	(Optional)
<i>autorp-discovery-rcvd</i>	(Optional)
<i>autorp-rpf-failed</i>	(Optional)
<i>autorp-border-deny</i>	(Optional)
<i>autorp-invalid-type</i>	(Optional)
<i>autorp-ttl-expired</i>	(Optional)
<i>autorp-no-listen</i>	(Optional)
<i>ctrl-no-route</i>	(Optional)
<i>data-no-route</i>	(Optional)
<i>no-state</i>	(Optional)
<i>create-state</i>	(Optional)

Command Mode

- /exec

show ip pim vrf

```
show ip pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail | internal ] [ __readonly__ {
TABLE_context <out-context> <context-id> <count> <table-id> <bfd> <mvpn> [ <strict_rfc_compliant> ]
[ <global-mcast-bndry> ] } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
vrf	Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs PIM is configured for
detail	(Optional) Display detailed information
internal	(Optional) VRF related internal information
__readonly__	(Optional)
TABLE_context	(Optional)
<i>out-context</i>	(Optional)
<i>context-id</i>	(Optional)
<i>table-id</i>	(Optional)
<i>count</i>	(Optional)
<i>bfd</i>	(Optional)
<i>mvpn</i>	(Optional)
<i>strict_rfc_compliant</i>	(Optional)
<i>global-mcast-bndry</i>	(Optional)

Command Mode

- /exec

show ip ping source-interface

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

Syntax Description

show	Show running system information
ip	Display IP information
ping	Display ping client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ippingvrf	(Optional) source interface of ping
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip ping source-interface vrf all

```
show ip ping source-interface vrf all [ __readonly__ [ { TABLE_ipping <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ping	Display ping client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipping	(Optional) source interface of ping
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip policy

```
show ip policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ detail ] [ __readonly__ { TABLE_pbr [ <interface> ] [ <rmap> ] [ <status> ] [ <vrf_name> ] } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

Command Mode

- /exec

show ip prefix-list

```
show ip prefix-list { { [ detail | summary ] [ <ipv4-pfl-name> | <ipv4-pfl-cfg-name> ] } | { { <ipv4-pfl-name>
| <ipv4-pfl-cfg-name> } seq <seq-no> } | { { <ipv4-pfl-name> | <ipv4-pfl-cfg-name> } <prefix> [ first-match
| longer ] } } [ __readonly__ TABLE_ip_pfl <name> <seq> <action> <rule> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
summary	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
prefix-list	List IP prefix lists
<i>ipv4-pfl-name</i>	(Optional) Name of prefix-list
<i>ipv4-pfl-cfg-name</i>	(Optional) Known prefix-list name
seq	Sequence number
<i>seq-no</i>	Sequence number
<i>prefix</i>	IP prefix network/length, e.g., 35.0.0.0/8
first-match	(Optional) Find the first match
longer	(Optional) Find the more specific entries
<i>__readonly__</i>	(Optional)
TABLE_ip_pfl	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip process

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

Syntax Description

show	Show running system information
ip	Display IP information
process	Display IP global information
api	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ip_pro_vrf	(Optional)
<i>pro-cntxt-name</i>	(Optional)
<i>pro-cntxt-id</i>	(Optional)
<i>pro-base-tid</i>	(Optional)
<i>pro-auto-disc</i>	(Optional)
<i>pro-atuo-add</i>	(Optional)
<i>pro-null-bcast</i>	(Optional)
<i>auto-punt-bcast</i>	(Optional)
<i>static-disc</i>	(Optional)
<i>static-def-route</i>	(Optional)
<i>ip-unreach</i>	(Optional)
TABLE_pro_api	(Optional)
<i>api-vrf</i>	(Optional)

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

Command Mode

- /exec

show ip rip

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

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<u>__readonly__</u>	(Optional)
TABLE_mode	(Optional)
<i>isolate-mode</i>	(Optional)
<i>mmode</i>	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>rip-shut-globally-in-this-vrf</i>	(Optional)
<i>port</i>	(Optional)
<i>mcast-grp</i>	(Optional)
<i>admin-dist</i>	(Optional)

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

Command Mode

- /exec

<i>local-only</i>	(Optional)
<i>no-addr-conf</i>	(Optional)
<i>if-addr</i>	(Optional)
<i>if-mask</i>	(Optional)
<i>if-metric</i>	(Optional)
<i>poison-reverse</i>	(Optional)
<i>if-passive</i>	(Optional)
<i>route-dist-filter</i>	(Optional)
<i>in-policy</i>	(Optional)
<i>out-policy</i>	(Optional)
TABLE_auth	(Optional)
<i>auth-ena</i>	(Optional)
<i>auth-type</i>	(Optional)
<i>auth-keychain</i>	(Optional)
TABLE_detail	(Optional)
<i>import-routes</i>	(Optional)
<i>periodic-updates</i>	(Optional)
<i>trigger-updates</i>	(Optional)
<i>out-mcast-request</i>	(Optional)
<i>out-ucast-update</i>	(Optional)
<i>out-ucast-request</i>	(Optional)
<i>in-mcast-update</i>	(Optional)
<i>in-mcast-request</i>	(Optional)
<i>in-ucast-update</i>	(Optional)
<i>in-ucast-request</i>	(Optional)
<i>bad-pkt</i>	(Optional)
<i>bad-route</i>	(Optional)

Command Mode

- /exec

show ip rip neighbor

```
show { ipv6 | ip } rip [ instance <inst> ] neighbor [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] [ __readonly__ [ TABLE_inst <inst-name> TABLE_vrf [ <vrf> ] <numberof-adj> <dead-timer-seconds>
[ TABLE_adj <adj-addr> <if-name> [ <last-response-sent-state> ] [ <last-response-sent> ] [
<last-response-rcvd-state> ] [ <last-response-rcvd> ] [ <last-request-sent-state> ] [ <last-request-sent> ] [
<last-request-rcvd-state> ] [ <last-request-rcvd> ] <in-bad-packets> <in-bad-routes> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP status and configuration
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
neighbor	RIP neighbor
<i>interface</i>	(Optional) RIP interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>numberof-adj</i>	(Optional)
<i>dead-timer-seconds</i>	(Optional)
TABLE_adj	(Optional)
<i>adj-addr</i>	(Optional)
<i>if-name</i>	(Optional)
<i>last-response-sent-state</i>	(Optional)

<i>last-response-sent</i>	(Optional)
<i>last-response-rcvd-state</i>	(Optional)
<i>last-response-rcvd</i>	(Optional)
<i>last-request-sent-state</i>	(Optional)
<i>last-request-sent</i>	(Optional)
<i>last-request-rcvd-state</i>	(Optional)
<i>last-request-rcvd</i>	(Optional)
<i>in-bad-packets</i>	(Optional)
<i>in-bad-routes</i>	(Optional)

Command Mode

- /exec

show ip rip policy statistics redistribute

```
show ip rip [ instance <inst> ] policy statistics redistribute { bgp <as> | { eigrp | isis | <src-rip> | ospf } <tag>
| direct | static } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_asn <asn> TABLE_vrf
<vrf> [ TABLE_rmap [ <name> <action> <seq_num> ] [ TABLE_cmd <command> [ <compare_count> ]
<match_count> ] ] <total_accept_count> <total_reject_count> ]
```

Syntax Description

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

<i>asn</i>	(Optional) AS number
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
TABLE_rmap	(Optional) Routemap table
<i>name</i>	(Optional) Route-map Name
<i>action</i>	(Optional) Route-map action
<i>seq_num</i>	(Optional) Sequence number of the rule in route-map
TABLE_cmd	(Optional) Route-map command table
<i>command</i>	(Optional) Route-map command
<i>compare_count</i>	(Optional) Number of comparisons
<i>match_count</i>	(Optional) Number of matches
<i>total_accept_count</i>	(Optional) Total number of packets accepted by the policy
<i>total_reject_count</i>	(Optional) Total number of packets rejected by the policy

Command Mode

- /exec

show ip rip route

```
show { ipv6 | ip } rip [ instance <inst> ] route [ { <ipv6-prefix> | <ip-prefix> } [ { longer-prefixes |
shorter-prefixes } ] ] [ summary ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_inst
<inst-name> TABLE_vrf [ <vrf> ] TABLE_issummary <is-summary> [ TABLE_route <rt-prefix> <rt-mask>
<rt-numnh> <best-route> [ TABLE_nexthop [ <nh-addr> ] [ <nh-interface> ] [ <nh-metric> ] [ <nh-tag> ] [
<nh-direct> ] [ <nh-redistrib> ] [ <nh-state> ] [ <nh-state-timer> ] ] ] [ TABLE_summary <total-num-rts>
<total-best-rts> <total-paths> [ TABLE_rtspermask <mask-length> <rts-per-mask> ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
route	RIP routes
summary	(Optional) route counts
<i>ip-prefix</i>	(Optional) Exact prefix
longer-prefixes	(Optional) exact match and more specific routes
shorter-prefixes	(Optional) exact match and less specific routes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
TABLE_issummary	(Optional)
<i>is-summary</i>	(Optional)

TABLE_route	(Optional)
<i>rt-prefix</i>	(Optional)
<i>rt-mask</i>	(Optional)
<i>rt-numnh</i>	(Optional)
<i>best-route</i>	(Optional)
TABLE_nexthop	(Optional)
<i>nh-addr</i>	(Optional)
<i>nh-interface</i>	(Optional)
<i>nh-metric</i>	(Optional)
<i>nh-tag</i>	(Optional)
<i>nh-direct</i>	(Optional)
<i>nh-redistrib</i>	(Optional)
<i>nh-state</i>	(Optional)
<i>nh-state-timer</i>	(Optional)
TABLE_summary	(Optional)
<i>total-num-rts</i>	(Optional)
<i>total-best-rts</i>	(Optional)
<i>total-paths</i>	(Optional)
TABLE_rtspermask	(Optional)
<i>mask-length</i>	(Optional)
<i>rts-per-mask</i>	(Optional)

Command Mode

- /exec

show ip rip statistics

```
show { ipv6 | ip } rip [ instance <inst> ] statistics [ * | <interface> ] [ __readonly__ [ TABLE_inst <inst-name>
TABLE_interface <if-name> [ <periodic-updates> <trigger-updates> <out-mcast-request> <out-ucast-update>
<out-ucast-request> <in-mcast-update> <in-mcast-request> <in-ucast-update> <in-ucast-request> <bad-pkt>
<bad-route> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP status and configuration
instance	(Optional) Process ID
<i>inst</i>	(Optional) Process ID
statistics	RIP statistics
<i>interface</i>	(Optional) RIP interface
*	(Optional) RIP statistics for all interfaces
__readonly__	(Optional)
TABLE_inst	(Optional)
<i>inst-name</i>	(Optional)
TABLE_interface	(Optional)
<i>if-name</i>	(Optional)
<i>periodic-updates</i>	(Optional)
<i>trigger-updates</i>	(Optional)
<i>out-mcast-request</i>	(Optional)
<i>out-ucast-update</i>	(Optional)
<i>out-ucast-request</i>	(Optional)
<i>in-mcast-update</i>	(Optional)
<i>in-mcast-request</i>	(Optional)
<i>in-ucast-update</i>	(Optional)
<i>in-ucast-request</i>	(Optional)

<i>bad-pkt</i>	(Optional)
<i>bad-route</i>	(Optional)

Command Mode

- /exec

show ip route

```
show ip route [ ip | ipv4 ] [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ip-addr> | {
<ip-prefix> [ { longer-prefixes | shorter-prefixes } ] ] [ { <protocol> [ all ] } | { bind-label <bind-lbl> |
next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [ since <stime>
] [ until <utime> ] } } ] + [ summary [ cached ] | detail | summary-counter-consistency-check ] [ vrf {
<vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf
<addrf> [ TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path [ <ipnexthop>
] [ <ipv6nexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ] <uptime> <pref> <metric> <clientname>
[ <linkbw> ] [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ] [ <hidden> ] [ <stale-label> ] [ <bgpbackuppath> ] [
<type2> ] [ <remote-sid> ] [ <src-ip> ] [ <sid-fct> ] [ <bsid> ] [ <ubest> ] [ <mbest> ] ] [ TABLE_summary
<routes> <paths> [ <multicast_paths> ] [ TABLE_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths>
] ] [ TABLE_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE_route_count [
<mask_len> ] [ <count> ] ] ] ]
```

Syntax Description

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

bind-label	(Optional) Display routes with this bind-label only
<i>bind-lbl</i>	(Optional) Binding label
next-hop	(Optional) Display routes with this next-hop only
<i>next-hop</i>	(Optional) Next hop address
next-hop-v6	(Optional) Display routes with this V6 next-hop only
interface	(Optional) Display routes with this output interface only
<i>interface</i>	(Optional) Interface Name
updated	(Optional) Display routes filtered by last updated time
since	(Optional) Display those routes updated since this time
<i>stime</i>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
until	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
summary	(Optional) Display route counts
detail	(Optional) Display routes in full detail
cached	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
summary-counter-consistency-check	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(Optional)
<i>iprefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ipnexthop</i>	(Optional)
<i>nexthop-vrf-name</i>	(Optional)

<i>ifname</i>	(Optional)
<i>bindlbl</i>	(Optional)
<i>uptime</i>	(Optional)
<i>pref</i>	(Optional)
<i>metric</i>	(Optional)
<i>clientname</i>	(Optional)
<i>linkbw</i>	(Optional)
<i>type</i>	(Optional)
<i>tag</i>	(Optional)
<i>stale</i>	(Optional)
<i>unres</i>	(Optional)
<i>hidden</i>	(Optional)
<i>stale-label</i>	(Optional)
<i>bgpbackuppath</i>	(Optional)
<i>type2</i>	(Optional)
<i>remote-sid</i>	(Optional)
<i>sid-fct</i>	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
TABLE_summary	(Optional)
<i>routes</i>	(Optional)
<i>paths</i>	(Optional)
<i>multicast_paths</i>	(Optional)
TABLE_unicast	(Optional)
<i>clientnameuni</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientnamemulti</i>	(Optional)

<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_route_count	(Optional)
<i>mask_len</i>	(Optional)
<i>count</i>	(Optional)

Command Mode

- /exec

show ip sla application

```
show ip sla application [ __readonly__ <version> [ <line-length> ] <type-name> <feature-name>
<lowmemorymark> <max-entries> <probe-cap> <entries-config> <entries-active> <entries-pending>
<entries-inactive> <last-change-time> <rttMonApplReset> [ <rttMonApplTimeOfLastSet> ] ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
application	IP SLAs Application
<i>__readonly__</i>	(Optional)
<i>version</i>	(Optional)
<i>line-length</i>	(Optional)
<i>type-name</i>	(Optional)
<i>feature-name</i>	(Optional)
<i>lowmemorymark</i>	(Optional)
<i>max-entries</i>	(Optional)
<i>probe-cap</i>	(Optional)
<i>entries-config</i>	(Optional)
<i>entries-active</i>	(Optional)
<i>entries-pending</i>	(Optional)
<i>entries-inactive</i>	(Optional)
<i>last-change-time</i>	(Optional)
<i>rttMonApplReset</i>	(Optional) Appl Reset
<i>rttMonApplTimeOfLastSet</i>	(Optional)

Command Mode

- /exec

show ip sla configuration

```
show ip sla configuration [ <entry-num> ] [ dynamic ] [ __readonly__ { TABLE_configuration [ <index> ]
[ <owner> ] [ <tag> ] [ <timeout> ] [ <oper-type> ] [ <dest-ip> ] [ <source-int> ] [ <source-ip> ] [ <dest-port> ]
[ <source-port> ] [ <dns-source-port> ] [ <traffic-class> ] [ <tos> ] [ <dns-name-server> ] [ <flow-label> ]
[ <switch-id> ] [ <profile-id> ] [ <interface> ] [ <packet-size> ] [ <packet-interval> ] [ <num-packets> ] [
<codec-type> ] [ <codec-num-packets> ] [ <codec-packet-size> ] [ <codec-packet-interval> ] [
<codec-adv-factor> ] [ <verify-data> ] [ <data-pattern> ] [ <precision> ] [ <packet-priority> ] [
<ntp-sync-tolerance> ] [ <ntp-sync-toltype> ] [ <vrf-name> ] [ <control-enabled> ] [ <http-oper> ] [
<http-version> ] [ <url> ] [ <proxy> ] [ <raw-strings> ] [ <cache-control> ] [ <http-vrf-name> ] [ <http-owner> ]
] [ <http-tag> ] [ <http-timeout> ] [ <frequency> ] [ <frequency-in-ms> ] [ <secondary-freq-timeout> ] [
<secondary-freq-loss> ] [ <next-start-time> ] [ <group-scheduled> ] [ <randomly-scheduled> ] [
<low-frequency> ] [ <high-frequency> ] [ <life> ] [ <ageout> ] [ <recurring> ] [ <status-of-entry> ] [
<threshold> ] [ <hours> ] [ <buckets> ] [ <interval> ] [ <einterval> ] [ <ebuckets> ] [ <lives> ] [ <hsbuckets> ]
] [ <filter> ] [ <ingressifidx> ] [ <egressifidx> ] }
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
configuration	IP SLA configurtaion
<i>entry-num</i>	(Optional) Entry Number
dynamic	(Optional) Entries programmed by clients
<i>__readonly__</i>	(Optional)
TABLE_configuration	(Optional) show ip sla configuration information
<i>index</i>	(Optional)
<i>owner</i>	(Optional)
<i>tag</i>	(Optional)
<i>timeout</i>	(Optional)
<i>oper-type</i>	(Optional)
<i>dest-ip</i>	(Optional)
<i>source-int</i>	(Optional)
<i>source-ip</i>	(Optional)
<i>dest-port</i>	(Optional)
<i>source-port</i>	(Optional)

<i>dns-source-port</i>	(Optional)
<i>traffic-class</i>	(Optional)
<i>tos</i>	(Optional)
<i>dns-name-server</i>	(Optional)
<i>flow-label</i>	(Optional)
<i>profile-id</i>	(Optional)
<i>switch-id</i>	(Optional)
<i>interface</i>	(Optional)
<i>packet-size</i>	(Optional)
<i>packet-interval</i>	(Optional)
<i>num-packets</i>	(Optional)
<i>codec-type</i>	(Optional)
<i>codec-num-packets</i>	(Optional)
<i>codec-packet-size</i>	(Optional)
<i>codec-packet-interval</i>	(Optional)
<i>codec-adv-factor</i>	(Optional)
<i>verify-data</i>	(Optional)
<i>data-pattern</i>	(Optional)
<i>precision</i>	(Optional)
<i>packet-priority</i>	(Optional)
<i>ntp-sync-tolerance</i>	(Optional)
<i>ntp-sync-toctype</i>	(Optional)
<i>vrf-name</i>	(Optional)
<i>control-enabled</i>	(Optional)
<i>http-oper</i>	(Optional)
<i>http-version</i>	(Optional)
<i>url</i>	(Optional)
<i>proxy</i>	(Optional)
<i>raw-strings</i>	(Optional)

<i>cache-control</i>	(Optional)
<i>http-vrf-name</i>	(Optional)
<i>http-owner</i>	(Optional)
<i>http-tag</i>	(Optional)
<i>http-timeout</i>	(Optional)
<i>frequency</i>	(Optional)
<i>frequency-in-ms</i>	(Optional)
<i>secondary-freq-timeout</i>	(Optional)
<i>secondary-freq-loss</i>	(Optional)
<i>next-start-time</i>	(Optional)
<i>group-scheduled</i>	(Optional)
<i>randomly-scheduled</i>	(Optional)
<i>low-frequency</i>	(Optional)
<i>high-frequency</i>	(Optional)
<i>life</i>	(Optional)
<i>ageout</i>	(Optional)
<i>recurring</i>	(Optional)
<i>status-of-entry</i>	(Optional)
<i>threshold</i>	(Optional)
<i>hours</i>	(Optional)
<i>buckets</i>	(Optional)
<i>interval</i>	(Optional)
<i>einterval</i>	(Optional)
<i>ebuckets</i>	(Optional)
<i>lives</i>	(Optional)
<i>hsbuckets</i>	(Optional)
<i>filter</i>	(Optional)
<i>ingressifidx</i>	(Optional)
<i>egressifidx</i>	(Optional)

Command Mode

- /exec

show ip sla enhanced-history collection-statistics

```
show ip sla enhanced-history collection-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ [ { TABLE_generic [ <entry-num> ] [ <aggregate-interval> ] [ { TABLE_bkt [ <bkt-index> ]
[ <agg-sti> ] [ <tgt-addr> ] [ <oper-type> ] [ <nofod> ] [ <nofot> ] [ <nofob> ] [ <nofonc> ] [ <nofoie> ] [
<nofose> ] [ <nofove> ] [ <ntp-state> ] [ <icpif> ] [ <mos-score> ] [ <rtt-values> ] [ <num-rtt> ] [ <rtt-avg>
] [ <rtt-min> ] [ <rtt-max> ] [ <rtt-sum> ] [ <rtt-sum2> ] [ <num-out-sync-rtt> ] [ <plsd> ] [ <plds> ] [ <pos>
] [ <pl-mia> ] [ <pla> ] [ <int-err> ] [ <busies> ] [ <pkt-skipped> ] [ <jitter-value-precision> ] [ <min-pos-sd>
] [ <max-pos-sd> ] [ <num-pos-sd> ] [ <sum-pos-sd> ] [ <sum2-pos-sd> ] [ <min-neg-sd> ] [ <max-neg-sd>
] [ <num-neg-sd> ] [ <sum-neg-sd> ] [ <sum2-neg-sd> ] [ <min-pos-ds> ] [ <max-pos-ds> ] [ <num-pos-ds>
] [ <sum-pos-ds> ] [ <sum2-pos-ds> ] [ <min-neg-ds> ] [ <max-neg-ds> ] [ <num-neg-ds> ] [ <sum-neg-ds>
] [ <sum2-neg-ds> ] [ <jitter-avg> ] [ <jitter-sd-avg> ] [ <jitter-ds-avg> ] [ <inter-jit-out> ] [ <inter-jit-in> ]
[ <ow-precision> ] [ <num-ow> ] [ <ow-min-sd> ] [ <ow-max-sd> ] [ <ow-sum-sd> ] [ <ow-sum2-sd> ] [
<ow-min-ds> ] [ <ow-max-ds> ] [ <ow-sum-ds> ] [ <ow-sum2-ds> ] [ <avg-ow-sd> ] [ <avg-ow-ds> ] } ] [
<outstring> ] } ] ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
collection-statistics	IP SLAs Collection Statistics
<i>operation-number</i>	(Optional) Entry Number
interval	(Optional) Aggregation Interval
<i>interval-in-secs</i>	(Optional) Interval in seconds
<i>__readonly__</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>entry-num</i>	(Optional)
<i>aggregate-interval</i>	(Optional)
TABLE_bkt	(Optional) Show bucket History Information
<i>bkt-index</i>	(Optional)
<i>agg-sti</i>	(Optional)
<i>tgt-addr</i>	(Optional)
<i>oper-type</i>	(Optional)
<i>nofod</i>	(Optional)

<i>nofot</i>	(Optional)
<i>nofob</i>	(Optional)
<i>nofonc</i>	(Optional)
<i>nofoie</i>	(Optional)
<i>nofose</i>	(Optional)
<i>nofove</i>	(Optional)
<i>ntp-state</i>	(Optional)
<i>icpif</i>	(Optional)
<i>mos-score</i>	(Optional)
<i>rtt-values</i>	(Optional)
<i>num-rtt</i>	(Optional)
<i>rtt-avg</i>	(Optional)
<i>rtt-min</i>	(Optional)
<i>rtt-max</i>	(Optional)
<i>rtt-sum</i>	(Optional)
<i>rtt-sum2</i>	(Optional)
<i>num-out-sync-rtt</i>	(Optional)
<i>plsd</i>	(Optional)
<i>plds</i>	(Optional)
<i>pos</i>	(Optional)
<i>pl-mia</i>	(Optional)
<i>pla</i>	(Optional)
<i>int-err</i>	(Optional)
<i>busies</i>	(Optional)
<i>pkt-skipped</i>	(Optional)
<i>jitter-value-precision</i>	(Optional)
<i>min-pos-sd</i>	(Optional)
<i>max-pos-sd</i>	(Optional)
<i>num-pos-sd</i>	(Optional)

<i>sum-pos-sd</i>	(Optional)
<i>sum2-pos-sd</i>	(Optional)
<i>min-neg-sd</i>	(Optional)
<i>max-neg-sd</i>	(Optional)
<i>num-neg-sd</i>	(Optional)
<i>sum-neg-sd</i>	(Optional)
<i>sum2-neg-sd</i>	(Optional)
<i>min-pos-ds</i>	(Optional)
<i>max-pos-ds</i>	(Optional)
<i>num-pos-ds</i>	(Optional)
<i>sum-pos-ds</i>	(Optional)
<i>sum2-pos-ds</i>	(Optional)
<i>min-neg-ds</i>	(Optional)
<i>max-neg-ds</i>	(Optional)
<i>num-neg-ds</i>	(Optional)
<i>sum-neg-ds</i>	(Optional)
<i>sum2-neg-ds</i>	(Optional)
<i>jitter-avg</i>	(Optional)
<i>jitter-sd-avg</i>	(Optional)
<i>jitter-ds-avg</i>	(Optional)
<i>inter-jit-out</i>	(Optional)
<i>inter-jit-in</i>	(Optional)
<i>ow-precision</i>	(Optional)
<i>num-ow</i>	(Optional)
<i>ow-min-sd</i>	(Optional)
<i>ow-max-sd</i>	(Optional)
<i>ow-sum-sd</i>	(Optional)
<i>ow-sum2-sd</i>	(Optional)
<i>ow-min-ds</i>	(Optional)

<i>ow-max-ds</i>	(Optional)
<i>ow-sum-ds</i>	(Optional)
<i>ow-sum2-ds</i>	(Optional)
<i>avg-ow-sd</i>	(Optional)
<i>avg-ow-ds</i>	(Optional)
<i>outstring</i>	(Optional)

Command Mode

- /exec

show ip sla enhanced-history distribution-statistics

```
show ip sla enhanced-history distribution-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ [ <hdr> ] [ { TABLE_generic [ <col1> ] [ <col2> ] [ <col3> ] } ] ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
distribution-statistics	IP SLAs Distribution Statistics
<i>operation-number</i>	(Optional) Entry Number
interval	(Optional) Aggregation Interval
<i>interval-in-secs</i>	(Optional) Interval in seconds
<i>__readonly__</i>	(Optional)
<i>hdr</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>col1</i>	(Optional)
<i>col2</i>	(Optional)
<i>col3</i>	(Optional)

Command Mode

- /exec

show ip sla group schedule

```
show ip sla group schedule [ <group-operation-number> ] [ __readonly__ [ <entry-number> ] [ <probe-list>
] [ <num-probes> ] [ <sched-period> ] [ <mode> ] [ <low-freq> ] [ <high-freq> ] [ <freq> ] [ <snmp-status>
] [ <next-start-time> ] [ <life> ] [ <ageout> ] ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
group	IP SLAs Group Scheduling/Configuration
schedule	Group Scheduling
<i>group-operation-number</i>	(Optional) Group Schedule Entry Number
<i>__readonly__</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>probe-list</i>	(Optional)
<i>num-probes</i>	(Optional)
<i>sched-period</i>	(Optional)
<i>mode</i>	(Optional)
<i>low-freq</i>	(Optional)
<i>high-freq</i>	(Optional)
<i>freq</i>	(Optional)
<i>snmp-status</i>	(Optional)
<i>next-start-time</i>	(Optional)
<i>life</i>	(Optional)
<i>ageout</i>	(Optional)

Command Mode

- /exec

show ip sla history

```
show ip sla history [ <operation-number> ] [ tabular | full | interval-statistics ] [ __readonly__ [ <outstring> ] ] [ { TABLE_generic [ <index> ] [ <life-index> ] [ <bucket-index> ] [ <col1> ] [ <addr> ] [ <dest-id> ] [ <nsr> ] [ <st> ] [ <latest-rtt> ] [ <latest-ret-code> ] [ <col2> ] } ] [ <error> ] ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
history	IP SLAs History
<i>operation-number</i>	(Optional) Entry Number
tabular	(Optional) Compact Output
full	(Optional) Listed Output
interval-statistics	(Optional) Interval statistics output
<i>__readonly__</i>	(Optional)
<i>outstring</i>	(Optional)
TABLE_generic	(Optional) Show History Information
<i>index</i>	(Optional)
<i>life-index</i>	(Optional)
<i>bucket-index</i>	(Optional)
<i>col1</i>	(Optional)
<i>addr</i>	(Optional)
<i>dest-id</i>	(Optional)
<i>nsr</i>	(Optional)
<i>st</i>	(Optional)
<i>latest-rtt</i>	(Optional)
<i>latest-ret-code</i>	(Optional)
<i>col2</i>	(Optional)
<i>error</i>	(Optional)

Command Mode

- /exec

show ip sla reaction-configuration

```
show ip sla reaction-configuration [ <entry-num> ] [ __readonly__ { TABLE_reaction [ <entry-number> ] [ <index> ] [ <reaction> ] [ <threshold-type> ] [ <rising-value> ] [ <falling-value> ] [ <threshold-countX> ] [ <threshold-countY> ] [ <action-type> ] [ <unconfigured> ] } ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-configuration	IP SLAs Reaction Configuration
<i>entry-num</i>	(Optional) Entry Number
<i>__readonly__</i>	(Optional)
TABLE_reaction	(Optional)
<i>entry-number</i>	(Optional)
<i>index</i>	(Optional)
<i>reaction</i>	(Optional)
<i>threshold-type</i>	(Optional)
<i>rising-value</i>	(Optional)
<i>falling-value</i>	(Optional)
<i>threshold-countX</i>	(Optional)
<i>threshold-countY</i>	(Optional)
<i>action-type</i>	(Optional)
<i>unconfigured</i>	(Optional)

Command Mode

- /exec

show ip sla reaction-trigger

```
show ip sla reaction-trigger [ <entry-num> ] [ __readonly__ { TABLE_trigger [ <entry-number> ] [ <index> ] [ <target-entry> ] [ <snmp-status> ] [ <operational-state> ] [ <unconfigured> } ] ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-trigger	IP SLAs Reaction Trigger
<i>entry-num</i>	(Optional) Entry Number
<i>__readonly__</i>	(Optional)
<i>TABLE_trigger</i>	(Optional)
<i>entry-number</i>	(Optional)
<i>index</i>	(Optional)
<i>target-entry</i>	(Optional)
<i>snmp-status</i>	(Optional)
<i>operational-state</i>	(Optional)
<i>unconfigured</i>	(Optional)

Command Mode

- /exec

show ip sla responder

```
show ip sla responder [ __readonly__ <rttMonApplResponder> <gen-enabled> [ <ctrl-msg-count> ] [ <errors>
] [ <print-recent-hdr> ] [ { TABLE_recent [ <recent-addr> ] [ <recent-time> ] } ] [ <print-recent-err-hdr> ] [
{ TABLE_recent_error [ <recent-error> ] } ] <perm-enabled> [ { TABLE_permanent_udp [ <print-udp-hdr>
] [ <address> ] [ <port> ] } ] [ { TABLE_permanent_tcp [ <print-tcp-hdr> ] [ <address> ] [ <port> ] } ] ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
responder	IP SLAs Responder Information
<i>__readonly__</i>	(Optional)
<i>rttMonApplResponder</i>	(Optional) rttMonApplResponder
<i>gen-enabled</i>	(Optional)
<i>ctrl-msg-count</i>	(Optional)
<i>errors</i>	(Optional)
<i>print-recent-hdr</i>	(Optional)
TABLE_recent	(Optional) Show recent control message information
<i>recent-addr</i>	(Optional)
<i>recent-time</i>	(Optional)
<i>print-recent-err-hdr</i>	(Optional)
TABLE_recent_error	(Optional) Show recent control error information
<i>recent-error</i>	(Optional)
<i>perm-enabled</i>	(Optional)
TABLE_permanent_udp	(Optional) Show UDP permanent port/address information
<i>print-udp-hdr</i>	(Optional)
<i>address</i>	(Optional)
<i>port</i>	(Optional)
TABLE_permanent_tcp	(Optional) Show TCP permanent port/address information
<i>print-tcp-hdr</i>	(Optional)

<i>address</i>	(Optional)
<i>port</i>	(Optional)

Command Mode

- /exec

<i>top</i>	(Optional)
TABLE_detail	(Optional) Show ip sla statistics detail information
<i>sti</i>	(Optional)
<i>operation-type</i>	(Optional)
<i>MINICPIF</i>	(Optional)
<i>MAXICPIF</i>	(Optional)
<i>MINMOS</i>	(Optional)
<i>MAXMOS</i>	(Optional)
<i>update-count</i>	(Optional)
<i>micro-accuracy</i>	(Optional)
<i>nano-accuracy</i>	(Optional)
<i>latest-RTT</i>	(Optional)
<i>latest-return-code</i>	(Optional)
<i>latest-start-time</i>	(Optional)
<i>http-dns-rtt</i>	(Optional)
<i>http-tcp-rtt</i>	(Optional)
<i>http-ttfb</i>	(Optional)
<i>http-rtt</i>	(Optional)
<i>http-status</i>	(Optional)
<i>http-recvlen</i>	(Optional)
<i>http-bodysize</i>	(Optional)
<i>http-dns-timeout</i>	(Optional)
<i>http-tcp-timeout</i>	(Optional)
<i>http-t-timeout</i>	(Optional)
<i>http-dns-error</i>	(Optional)
<i>http-tcp-error</i>	(Optional)
<i>http-t-error</i>	(Optional)
<i>ntp-sync-state</i>	(Optional)
<i>rtt-count</i>	(Optional)

<i>rtt-min</i>	(Optional)
<i>rtt-avg</i>	(Optional)
<i>rtt-max</i>	(Optional)
<i>lat-ow-samples</i>	(Optional)
<i>sd-lat-ow-min</i>	(Optional)
<i>sd-lat-ow-avg</i>	(Optional)
<i>sd-lat-ow-max</i>	(Optional)
<i>ds-lat-ow-min</i>	(Optional)
<i>ds-lat-ow-avg</i>	(Optional)
<i>ds-lat-ow-max</i>	(Optional)
<i>sd-lat-sum</i>	(Optional)
<i>sd-lat-sum2</i>	(Optional)
<i>ds-lat-sum</i>	(Optional)
<i>ds-lat-sum2</i>	(Optional)
<i>sd-jitter-count</i>	(Optional)
<i>ds-jitter-count</i>	(Optional)
<i>sd-jitter-min</i>	(Optional)
<i>sd-jitter-avg</i>	(Optional)
<i>sd-jitter-max</i>	(Optional)
<i>ds-jitter-min</i>	(Optional)
<i>ds-jitter-avg</i>	(Optional)
<i>ds-jitter-max</i>	(Optional)
<i>sd-pos-jitter-min</i>	(Optional)
<i>sd-pos-jitter-avg</i>	(Optional)
<i>sd-pos-jitter-max</i>	(Optional)
<i>sd-pos-jitter-num</i>	(Optional)
<i>sd-pos-jitter-sum</i>	(Optional)
<i>sd-pos-jitter-sum2</i>	(Optional)
<i>sd-neg-jitter-min</i>	(Optional)

<i>sd-neg-jitter-avg</i>	(Optional)
<i>sd-neg-jitter-max</i>	(Optional)
<i>sd-neg-jitter-num</i>	(Optional)
<i>sd-neg-jitter-sum</i>	(Optional)
<i>sd-neg-jitter-sum2</i>	(Optional)
<i>ds-pos-jitter-min</i>	(Optional)
<i>ds-pos-jitter-avg</i>	(Optional)
<i>ds-pos-jitter-max</i>	(Optional)
<i>ds-pos-jitter-num</i>	(Optional)
<i>ds-pos-jitter-sum</i>	(Optional)
<i>ds-pos-jitter-sum2</i>	(Optional)
<i>ds-neg-jitter-min</i>	(Optional)
<i>ds-neg-jitter-avg</i>	(Optional)
<i>ds-neg-jitter-max</i>	(Optional)
<i>ds-neg-jitter-num</i>	(Optional)
<i>ds-neg-jitter-sum</i>	(Optional)
<i>ds-neg-jitter-sum2</i>	(Optional)
<i>pkt-unprocessed</i>	(Optional)
<i>pkt-loss</i>	(Optional)
<i>pkt-loss-per</i>	(Optional)
<i>pkt-loss-min</i>	(Optional)
<i>pkt-loss-max</i>	(Optional)
<i>pkt-loss-inter-min</i>	(Optional)
<i>pkt-loss-inter-max</i>	(Optional)
<i>inter-jitter-out</i>	(Optional)
<i>inter-jitter-in</i>	(Optional)
<i>jitter-avg</i>	(Optional)
<i>pkt-loss-sd</i>	(Optional)
<i>pkt-loss-sd-per</i>	(Optional)

<i>pkt-loss-sd-min</i>	(Optional)
<i>pkt-loss-sd-max</i>	(Optional)
<i>pkt-loss-sd-inter-min</i>	(Optional)
<i>pkt-loss-sd-inter-max</i>	(Optional)
<i>pkt-loss-ds</i>	(Optional)
<i>pkt-loss-ds-per</i>	(Optional)
<i>pkt-loss-ds-min</i>	(Optional)
<i>pkt-loss-ds-max</i>	(Optional)
<i>pkt-loss-ds-inter-min</i>	(Optional)
<i>pkt-loss-ds-inter-max</i>	(Optional)
<i>pkt-oos</i>	(Optional)
<i>pkt-oos-sd</i>	(Optional)
<i>pkt-oos-ds</i>	(Optional)
<i>pkt-oos-both</i>	(Optional)
<i>pkt-mia</i>	(Optional)
<i>pkt-late</i>	(Optional)
<i>pkt-skipped</i>	(Optional)
<i>voice-icpif</i>	(Optional)
<i>voice-mos</i>	(Optional)
<i>dnobs</i>	(Optional)
<i>dmam</i>	(Optional)
<i>dtoo</i>	(Optional)
<i>dmin</i>	(Optional)
<i>dmax</i>	(Optional)
<i>pnobs</i>	(Optional)
<i>pmam</i>	(Optional)
<i>ptoo</i>	(Optional)
<i>pmin</i>	(Optional)
<i>pmax</i>	(Optional)

<i>nnobs</i>	(Optional)
<i>nmam</i>	(Optional)
<i>ntoo</i>	(Optional)
<i>nmin</i>	(Optional)
<i>nmax</i>	(Optional)
<i>outstring1</i>	(Optional)
<i>outstring2</i>	(Optional)
<i>nos</i>	(Optional)
<i>nof</i>	(Optional)
<i>noot</i>	(Optional)
<i>nofo1</i>	(Optional)
<i>nofo2</i>	(Optional)
TABLE_br	(Optional) Bin range related info
<i>br</i>	(Optional)
<i>avg-lat</i>	(Optional)
<i>potc</i>	(Optional)
<i>noc-by-lat</i>	(Optional)
<i>sorthigh-by-low</i>	(Optional)
<i>operot</i>	(Optional)
<i>life-left</i>	(Optional)
<i>oper-state</i>	(Optional)
<i>reset-time</i>	(Optional)
<i>nob</i>	(Optional)
<i>bbh</i>	(Optional)
<i>bbv</i>	(Optional)

Command Mode

- /exec

show ip sla twamp connection detail

```
show ip sla twamp connection detail [ __readonly__ [ { TABLE_twamp-connection-detail <Connection-Id>
<Client-Addr> <Client-Port> <Client-VRF> <Mode> <Connection-state> <Control-state>
<Number-Of-Test-requests> } ] ]
```

Syntax Description

show	
ip	
sla	
twamp	
connection	
detail	
<i>__readonly__</i>	(Optional)
<i>TABLE_twamp-connection-detail</i>	(Optional) connection related info
<i>Connection-Id</i>	(Optional)
<i>Client-Addr</i>	(Optional)
<i>Client-Port</i>	(Optional)
<i>Client-VRF</i>	(Optional)
<i>Mode</i>	(Optional)
<i>Connection-state</i>	(Optional)
<i>Control-state</i>	(Optional)
<i>Number-Of-Test-requests</i>	(Optional)

Command Mode

- /exec

show ip sla twamp connection requests

```
show ip sla twamp connection requests [ __readonly__ [ { TABLE_twamp-connection-request <Connection-Id>
<Client-Addr> <Client-Port> <Client-VRF> } ] [ <Total-Connections> ] ]
```

Syntax Description

show	
ip	
sla	
twamp	
connection	
requests	
<i>__readonly__</i>	(Optional)
<i>TABLE_twamp-connection-request</i>	(Optional) connection requests related info
<i>Connection-Id</i>	(Optional)
<i>Client-Addr</i>	(Optional)
<i>Client-Port</i>	(Optional)
<i>Client-VRF</i>	(Optional)
<i>Total-Connections</i>	(Optional)

Command Mode

- /exec

show ip sla twamp session

```
show ip sla twamp session [ __readonly__ <twamp-resp-status> [ { TABLE_twamp-session [ <recv-addr> ]
[ <recv-port> ] [ <send-addr> ] [ <send-port> ] [ <send-vrf> ] [ <sess-id> ] [ <conn-id> ] } ] ]
```

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
twamp	IP SLAs Twamp Information
session	Display TWAMP Sessions
<i>__readonly__</i>	(Optional)
<i>twamp-resp-status</i>	(Optional)
TABLE_twamp-session	(Optional) session related information
<i>recv-addr</i>	(Optional)
<i>recv-port</i>	(Optional)
<i>send-addr</i>	(Optional)
<i>send-port</i>	(Optional)
<i>send-vrf</i>	(Optional)
<i>sess-id</i>	(Optional)
<i>conn-id</i>	(Optional)

Command Mode

- /exec

show ip sla twamp standards

```
show ip sla twamp standards [ __readonly__ [ { TABLE_twamp-standards <twamp-standard-feature>
<twamp-standard-org> <twamp-standard> } ] ]
```

Syntax Description

show	
ip	
sla	
twamp	
standards	
<i>__readonly__</i>	(Optional)
TABLE_twamp-standards	(Optional) twamp standards for each supported feature
<i>twamp-standard-feature</i>	(Optional)
<i>twamp-standard-org</i>	(Optional)
<i>twamp-standard</i>	(Optional)

Command Mode

- /exec

show ip ssh source-interface

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

Syntax Description

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

Command Mode

- /exec

show ip ssh source-interface vrf all

```
show ip ssh source-interface vrf all [ __readonly__ [ { TABLE_ipssh <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ssh	Display SSH client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipssh	(Optional) source interface of ssh
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip static-route

```
show ip static-route [ multicast ] [ internal ] [ track-table ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ [ <count> <unres-count> ] [ TABLE_vrf_all { <cntxt_name> <cntxt_id> [ TABLE_each_vrf
{ <prefix_addr_msk> <nhop_addr_msk> <nhop_vrf_info> <nhop_intr_info> <urib_stat> [ <seg_id> ] [
<tunnel_id> <urib_encap_type> ] [ <nhop_urib_stat> ] [ <track_obj_num> <track_obj_state> ] } ] ] [
TABLE_multicast <multicast> ] [ TABLE_track-table ] [ TABLE_route <prefix> <masklen> <nhop>
<nhop-masklen> <intf> <real-nhop> <iod> <pref> <tag> <unres> ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
static-route	Display configured static routes
multicast	(Optional) Display only multicast routes
internal	(Optional) Display internal data structure info
track-table	(Optional) Display track object details associated with static routes
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf_all	(Optional)
<i>cntxt_name</i>	(Optional)
<i>cntxt_id</i>	(Optional)
TABLE_each_vrf	(Optional)
<i>prefix_addr_msk</i>	(Optional)
<i>nhop_addr_msk</i>	(Optional)
<i>nhop_vrf_info</i>	(Optional)
<i>nhop_intr_info</i>	(Optional)
<i>urib_stat</i>	(Optional)
<i>seg_id</i>	(Optional)
<i>tunnel_id</i>	(Optional)

<i>urib_encap_type</i>	(Optional)
<i>nhop_urib_stat</i>	(Optional)
<i>track_obj_num</i>	(Optional)
<i>track_obj_state</i>	(Optional)
TABLE_multicast	(Optional)
<i>multicast</i>	(Optional)
TABLE_track-table	(Optional)
TABLE_route	(Optional)
<i>prefix</i>	(Optional)
<i>masklen</i>	(Optional)
<i>nhop</i>	(Optional)
<i>nhop-masklen</i>	(Optional)
<i>intf</i>	(Optional)
<i>real-nhop</i>	(Optional)
<i>iod</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>unres</i>	(Optional)
<i>count</i>	(Optional)
<i>unres-count</i>	(Optional)

Command Mode

- /exec

show ip tcp mss

```
show ip tcp mss [ __readonly__ { <tcp-mss-value> } ]
```

Syntax Description

show	Show running system information
ip	Configure IP features
tcp	Global TCP parameters
mss	Maximum segment size for TCP connections in bytes
__readonly__	(Optional)
<i>tcp-mss-value</i>	(Optional) TCP Maximum Segment Size Value

Command Mode

- /exec

show ip telnet source-interface

```
show ip telnet source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ {
TABLE_ iptelnetvrf <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
telnet	Display telnet information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ iptelnetvrf	(Optional) source interface of telnet given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip telnet source-interface vrf all

```
show ip telnet source-interface vrf all [ __readonly__ [ { TABLE_ip telnet <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
telnet	Display telnet information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ip telnet	(Optional) source interface of telnet
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip tftp source-interface

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

Syntax Description

show	Show running system information
ip	Display IP information
tftp	Display TFTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_ipftpvrf	(Optional) source interface of tftp given vrf
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip tftp source-interface vrf all

```
show ip tftp source-interface vrf all [ __readonly__ [ { TABLE_iptftp <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
tftp	Display TFTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iptftp	(Optional) source interface of tftp
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip traceroute source-interface

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

Syntax Description

show	Show running system information
ip	Display IP information
traceroute	Display traceroute client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_iptraceroutevrf	(Optional) source interface of traceroute
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

show ip traceroute source-interface vrf all

```
show ip traceroute source-interface vrf all [ __readonly__ [ { TABLE_iptraceroute <vrfname> <ifname> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
traceroute	Display traceroute client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iptraceroute	(Optional) source interface of traceroute
<i>vrfname</i>	(Optional) vrfname
<i>ifname</i>	(Optional) ifname

Command Mode

- /exec

TABLE_ip_soft_processed_traffic	(Optional)
TABLE_trans_and_reception	(Optional)
<i>rcvd</i>	(Optional)
<i>sent</i>	(Optional)
<i>consumed</i>	(Optional)
<i>fwd-ucast</i>	(Optional)
<i>fwd-mcast</i>	(Optional)
<i>fwd-label</i>	(Optional)
<i>ingress-mcecfwd</i>	(Optional)
TABLE_opts	(Optional)
<i>opts-end</i>	(Optional)
<i>opts-nop</i>	(Optional)
<i>opts-bsec</i>	(Optional)
<i>opts-loosesrc-route</i>	(Optional)
<i>opts-timestamp</i>	(Optional)
<i>opts-ese</i>	(Optional)
<i>opts-record-route</i>	(Optional)
<i>opts-ump</i>	(Optional)
<i>opts-stid</i>	(Optional)
<i>opts-strsrc-route</i>	(Optional)
<i>opts-alert</i>	(Optional)
<i>opts-cipso</i>	(Optional)
<i>opts-other</i>	(Optional)
TABLE_errors	(Optional)
<i>bad-csum</i>	(Optional)
<i>too-small</i>	(Optional)
<i>bad-ver</i>	(Optional)
<i>bad-hlen</i>	(Optional)
<i>bad-len</i>	(Optional)

<i>bad-dest</i>	(Optional)
<i>bad-ttl</i>	(Optional)
<i>cant-fwd</i>	(Optional)
<i>out-drop</i>	(Optional)
<i>bad-encap</i>	(Optional)
<i>no-route</i>	(Optional)
<i>no-proto</i>	(Optional)
<i>bad-options</i>	(Optional)
<i>vinci</i>	(Optional)
<i>snoop</i>	(Optional)
<i>svi</i>	(Optional)
<i>restart-recovery</i>	(Optional)
<i>mbuf-fail</i>	(Optional)
<i>bad-context</i>	(Optional)
<i>rpf-drops</i>	(Optional)
<i>bad-gw-mac</i>	(Optional)
<i>ing-ips-option-fail</i>	(Optional)
<i>nat-in-drop</i>	(Optional)
<i>nat-out-drop</i>	(Optional)
<i>ing-option-proc-fail</i>	(Optional)
<i>ing-mfrwd-fail</i>	(Optional)
<i>ing-lisp-drop</i>	(Optional)
<i>ing-lisp-decap-drop</i>	(Optional)
<i>ing-lisp-encap-drop</i>	(Optional)
<i>ing-lisp-encap</i>	(Optional)
<i>ing-mfwd-copy-drop</i>	(Optional)
<i>ing-ra-reass-drop</i>	(Optional)
<i>ing-icmp-redirect</i>	(Optional)
<i>ing-drop-ifmgr-init</i>	(Optional)

<i>ing-drop-invld-filter</i>	(Optional)
<i>ing-drop-invld-l2-msg</i>	(Optional)
<i>ingress</i>	(Optional)
<i>egrees</i>	(Optional)
<i>directed_bdcast</i>	(Optional)
TABLE_fragment	(Optional)
<i>frag</i>	(Optional)
<i>fragmented</i>	(Optional)
<i>out-frag</i>	(Optional)
<i>frag-drop</i>	(Optional)
<i>cant-frag</i>	(Optional)
<i>reasm</i>	(Optional)
<i>frag-to</i>	(Optional)
TABLE_icmp_software_proc_traffic	(Optional)
TABLE_transmission	(Optional)
<i>tx-redirect</i>	(Optional)
<i>tx-unreach</i>	(Optional)
<i>tx-echo-req</i>	(Optional)
<i>tx-echo-reply</i>	(Optional)
<i>tx-mask-req</i>	(Optional)
<i>tx-mask-reply</i>	(Optional)
<i>tx-info-req</i>	(Optional)
<i>tx-info-reply</i>	(Optional)
<i>tx-param-prob</i>	(Optional)
<i>tx-source-quench</i>	(Optional)
<i>tx-tstamp-req</i>	(Optional)
<i>tx-tstamp-reply</i>	(Optional)
<i>tx-time-exceeded</i>	(Optional)
<i>tx-router-solicit</i>	(Optional)

<i>tx-router-advert</i>	(Optional)
<i>out-drop-badlen</i>	(Optional)
<i>encap-fail</i>	(Optional)
<i>xmit-fail</i>	(Optional)
<i>icmp-originate</i>	(Optional)
<i>redirect-originate-req</i>	(Optional)
<i>originate-deny</i>	(Optional)
<i>short-ip</i>	(Optional)
<i>old-icmp</i>	(Optional)
<i>error-drop</i>	(Optional)
TABLE_reception	(Optional)
<i>rx-redirect</i>	(Optional)
<i>rx-unreach</i>	(Optional)
<i>rx-echo-req</i>	(Optional)
<i>rx-echo-reply</i>	(Optional)
<i>rx-mask-req</i>	(Optional)
<i>rx-mask-reply</i>	(Optional)
<i>rx-info-req</i>	(Optional)
<i>rx-info-reply</i>	(Optional)
<i>rx-param-prob</i>	(Optional)
<i>rx-source-quench</i>	(Optional)
<i>rx-tstamp-req</i>	(Optional)
<i>rx-tstamp-reply</i>	(Optional)
<i>rx-time-exceeded</i>	(Optional)
<i>rx-router-solicit</i>	(Optional)
<i>rx-router-advert</i>	(Optional)
<i>rx-format-errors</i>	(Optional)
<i>rx-csum-errors</i>	(Optional)
<i>lisp-processed</i>	(Optional)

<i>lisp-noclient</i>	(Optional)
<i>lisp-consumed</i>	(Optional)
<i>icmp-replies</i>	(Optional)
<i>icmp-reply-drop</i>	(Optional)
<i>icmp-inactive-addr</i>	(Optional)
TABLE_stat_last_never	(Optional)
<i>stat-last-never</i>	(Optional)
TABLE_rfc4293_ip_soft_proc_traffic	(Optional)
TABLE_rfc_reception	(Optional)
<i>inrcv</i>	(Optional)
<i>inoctet</i>	(Optional)
<i>inhdrrr</i>	(Optional)
<i>innoroutes</i>	(Optional)
<i>inaddrerr</i>	(Optional)
<i>innoproto</i>	(Optional)
<i>intruncated</i>	(Optional)
<i>inforw</i>	(Optional)
<i>reasmreqds</i>	(Optional)
<i>reasmoks</i>	(Optional)
<i>reasmfails</i>	(Optional)
<i>indiscards</i>	(Optional)
<i>indelivers</i>	(Optional)
<i>inmcastpkts</i>	(Optional)
<i>inmcastbytes</i>	(Optional)
<i>inbaspkts</i>	(Optional)
TABLE_rfc_transmission	(Optional)
<i>out-req</i>	(Optional)
<i>out-no-route</i>	(Optional)
<i>out-forwdgrams</i>	(Optional)

<i>out-discards</i>	(Optional)
<i>out-frag-req</i>	(Optional)
<i>out-frag-oks</i>	(Optional)
<i>out-frag-fails</i>	(Optional)
<i>out-frag-create</i>	(Optional)
<i>out-transmits</i>	(Optional)
<i>byte-sent</i>	(Optional)
<i>out-mcast-pkts</i>	(Optional)
<i>out-mcast-bytes</i>	(Optional)
<i>out-bcast-pkts</i>	(Optional)
<i>out-bcast-bytes</i>	(Optional)

Command Mode

- /exec

show ip traffic pps

```
show ip traffic pps [ __readonly__ [ { TABLE_ip_pps [ <ip_pps_type> ] <ip_pps_threshold_size>
<ip_pps_threshold_log_interval> } ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
traffic	Display IP software processed traffic statistics
pps	Display packets per second threshold config information
<i>__readonly__</i>	(Optional)
<i>TABLE_ip_pps</i>	(Optional) Show ip traffic pps type
<i>ip_pps_type</i>	(Optional) IP PPS type
<i>ip_pps_threshold_size</i>	(Optional) Show IP PPS limit
<i>ip_pps_threshold_log_interval</i>	(Optional) Show IP PPS log interval

Command Mode

- /exec

show ip udp relay

```
show ip udp relay [ __readonly__ <udp_relay_service_enable> <udp_relay_hdr> [ { TABLE_default_ports
<port_name> <udp_relay_port_enable> } ] <udp_ports_hdr> [ TABLE_ports <udp_port_num> ]
<udp_intf_hdr> [ TABLE_intf <udp_intf_idx> <udp_sub_bcast> <udp_objgrp> ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
udp	Show items in UDP relay
relay	UDP relay
<i>__readonly__</i>	(Optional) Read only
<i>udp_relay_service_enable</i>	(Optional)
<i>udp_relay_hdr</i>	(Optional)
TABLE_default_ports	(Optional)
<i>port_name</i>	(Optional) UDP Port Name
<i>udp_relay_port_enable</i>	(Optional)
<i>udp_ports_hdr</i>	(Optional)
TABLE_ports	(Optional)
<i>udp_port_num</i>	(Optional)
<i>udp_intf_hdr</i>	(Optional)
TABLE_intf	(Optional)
<i>udp_intf_idx</i>	(Optional) UDP relay interfaces
<i>udp_sub_bcast</i>	(Optional)
<i>udp_objgrp</i>	(Optional) Object-group

Command Mode

- /exec

show ip udp relay interface

```
show ip udp relay interface [ <intf_range> ] [ __readonly__ <udp_intf_hdr> [ TABLE_intf <udp_intf_idx>
<udp_sub_bcast> <udp_objgrp> ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
udp	Show items in UDP relay
relay	UDP relay
interface	Interface ID
<i>intf_range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>udp_intf_hdr</i>	(Optional)
TABLE_intf	(Optional)
<i>udp_intf_idx</i>	(Optional) UDP relay interfaces
<i>udp_sub_bcast</i>	(Optional)
<i>udp_objgrp</i>	(Optional) Object-group

Command Mode

- /exec

show ip udp relay object-group

```
show ip udp relay object-group [ <obj-grp-name> ] [ __readonly__ [ TABLE_objgrp_list [ <udp_objgrp> ]
[ TABLE_objgrp [ <host_addr> ] [ <net_addr> <net_mask> ] [ <prefix_addr> <prefix_len> ] ] <udp_intf_hdr>
[ TABLE_intf <udp_intf_idx> ] ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
udp	Show items in UDP relay
relay	UDP relay
object-group	Object-group
<i>obj-grp-name</i>	(Optional) object-group name
<i>__readonly__</i>	(Optional) Read only
TABLE_objgrp_list	(Optional)
<i>udp_objgrp</i>	(Optional) Object-group
TABLE_objgrp	(Optional)
<i>host_addr</i>	(Optional) Host Address
<i>net_addr</i>	(Optional) Network Address
<i>net_mask</i>	(Optional) Network Mask
<i>prefix_addr</i>	(Optional) Network Address
<i>prefix_len</i>	(Optional) IP Prefix Length
<i>udp_intf_hdr</i>	(Optional)
TABLE_intf	(Optional)
<i>udp_intf_idx</i>	(Optional) UDP relay interfaces

Command Mode

- /exec

show ip verify source

```
show ip verify source [ interface <intf6> ] [ __readonly__ [ <verify_ipsg_exclude_vlans> ] [
<verify_intf_ipsg_val> | <verify_ipsg_enable_intf> ] [ TABLE_verified_intf<verified_ipsg_enable_intf>
] [ <verify_hdr> ] [ { TABLE_verify_entry <verify_intf> [ <verify_intf_ipsg_val> ] [ {
TABLE_verify_entry_intf<verify_ipsg_enable_intf> } ] <verify_filter_mode> [ <verify_ip_addr> ] [
<verify_mac_addr> ] [ <verify_vlan> ] } ] ] ]
```

Syntax Description

show	Show running system information
ip	Show the IP features of the system
verify	Verify IPSG information
source	IPSG source
interface	(Optional) Interface
<i>intf6</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>verify_ipsg_exclude_vlans</i>	(Optional)
<i>verify_hdr</i>	(Optional) IP source guard operational entries
<i>verify_intf_ipsg_val</i>	(Optional) IP source guard value (enabled or disable)
<i>verify_ipsg_enable_intf</i>	(Optional) IP source guard enabled interfaces names
TABLE_verified_intf	(Optional)
<i>verified_ipsg_enable_intf</i>	(Optional)
TABLE_verify_entry	(Optional)
<i>verify_filter_mode</i>	(Optional)
<i>verify_intf</i>	(Optional)
TABLE_verify_entry_intf	(Optional)
<i>verify_ip_addr</i>	(Optional) verify ip address
<i>verify_mac_addr</i>	(Optional) verify mac address
<i>verify_vlan</i>	(Optional) vlan for interface

Command Mode

- /exec

show ipt details

```
show ipt details [ __readonly__ <probe_marker> [ { TABLE_source_monitor <source_monitor> [
<source_monitor_properties> ] } ] [ { TABLE_sink_monitor <sink_monitor> [ <sink_monitor_properties>
] } ] [ { TABLE_source_record <source_record> [ <source_record_properties> + ] } ] [ { TABLE_sink_record
<sink_record> [ <sink_record_properties> + ] } ] [ { TABLE_sink_collector <sink_collector> [
<collector_properties> + ] } ] ] ]
```

Syntax Description

<code>ipt</code>	Display IPT information
<code>details</code>	Show IPT details
<code>__readonly__</code>	(Optional)
<code>probe_marker</code>	(Optional) Probe Marker applied
<code>TABLE_source_monitor</code>	(Optional) Source Monitor Table
<code>source_monitor</code>	(Optional) Source Monitor Information
<code>source_monitor_properties</code>	(Optional) Attributes under the source monitor
<code>TABLE_sink_monitor</code>	(Optional) Sink Monitor Table
<code>sink_monitor</code>	(Optional) Sink Monitor Information
<code>sink_monitor_properties</code>	(Optional) Attributes under the source monitor
<code>TABLE_source_record</code>	(Optional) Source Monitor Table
<code>source_record</code>	(Optional) Source Monitor Information
<code>source_record_properties</code>	(Optional) Attributes under the source record
<code>TABLE_sink_record</code>	(Optional) Sink Monitor Table
<code>sink_record</code>	(Optional) Sink Monitor Information
<code>sink_record_properties</code>	(Optional) Attributes under the source record
<code>TABLE_sink_collector</code>	(Optional) Sink Collector Table
<code>sink_collector</code>	(Optional) Sink Collector Information
<code>collector_properties</code>	(Optional) Attributes under the sink collector

Command Mode

- /exec

<i>global_punt_pkt_cnt</i>	(Optional) Global punt packet count
<i>global_punt_byte_cnt</i>	(Optional) Global punt byte count
<i>global_glean_pkt_cnt</i>	(Optional) Global glean packet count
<i>global_glean_byte_cnt</i>	(Optional) Global glean byte count
<i>glean_pkt_cnt</i>	(Optional) Glean packet count
<i>glean_byte_cnt</i>	(Optional) Glean byte count
<i>normal_pkt_cnt</i>	(Optional) Packet count
<i>normal_byte_cnt</i>	(Optional) Byte count
<i>last_updated</i>	(Optional) Lat updated
<i>count-static</i>	(Optional) Static count
<i>count-dynamic</i>	(Optional) Dynamic count
<i>count-others</i>	(Optional) Others count
<i>count-throttle</i>	(Optional) Throttled count
<i>count-total</i>	(Optional) Total count
TABLE_afi	(Optional) AFI table
<i>afi</i>	(Optional) AFI
<i>count</i>	(Optional) Count
TABLE_adj	(Optional) Adjacency table for IPV6
<i>intf-out</i>	(Optional) Interface
<i>phy-intf</i>	(Optional) Physical interface
<i>time-stamp</i>	(Optional) Age
<i>mac</i>	(Optional) MAC address
<i>pref</i>	(Optional) Preference
<i>owner</i>	(Optional) Owner
<i>pkt-count</i>	(Optional) Packet count
<i>byte-count</i>	(Optional) Byte count
<i>mobility</i>	(Optional) Mobility
<i>is-best</i>	(Optional) Best
<i>is-thrtld</i>	(Optional) Throttled

Command Mode

- /exec

show ipv6 adjacency aggregate-prefix

```
show ipv6 adjacency aggregate-prefix [ [ vlan <vlan-id> ] [ summary ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] ] [ __readonly__ [ TABLE_vlan <vlan-id> { <ipv6-agg-prefix-vlan-count> | <ipv6-agg-prefix>
<ref-count> } ] <ipv6-agg-prefix-total-count> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
adjacency	Display adjacency table
aggregate-prefix	aggregate-prefix PT info
vlan	(Optional) Vlan id
<i>vlan-id</i>	(Optional) Vlan
summary	(Optional) Show aggregate-prefix summary
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display AM entries for all vrfs
__readonly__	(Optional)
<i>ipv6-agg-prefix-total-count</i>	(Optional) ipv6 aggregate-prefix total count
TABLE_vlan	(Optional) TABLR vlan
<i>vlan-id</i>	(Optional) vlan id
<i>ipv6-agg-prefix-vlan-count</i>	(Optional) show ipv6 aggregate-prefix summary
<i>ipv6-agg-prefix</i>	(Optional) Ipv6 aggregate prefix
<i>ref-count</i>	(Optional) reference-hop count

Command Mode

- /exec

show ipv6 adjacency subnet-prefix

```
show ipv6 adjacency subnet-prefix [ [ vlan <vlan-id> ] [ summary ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] ] [ __readonly__ [ TABLE_vlan <vlan-id> { <ipv6-subnet-prefix-vlan-count> | <ipv6-subnet-prefix>
<agg-len> <nh-count> } ] <ipv6-subnet-prefix-total-count> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
adjacency	Display adjacency table
subnet-prefix	subnet-prefix PT info
vlan	(Optional) Vlan id
<i>vlan-id</i>	(Optional) Vlan
summary	(Optional) Show subnet-prefix summary
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display ARP entries for all vrfs
<i>__readonly__</i>	(Optional)
<i>ipv6-subnet-prefix-total-count</i>	(Optional) ipv6 subnet-prefix total count
TABLE_vlan	(Optional) TABLE vlan
<i>vlan-id</i>	(Optional) vlan id
<i>ipv6-subnet-prefix-vlan-count</i>	(Optional) show ipv6 subnet-prefix summary
<i>ipv6-subnet-prefix</i>	(Optional) Ipv6 subnet prefix
<i>agg-len</i>	(Optional) aggregate-length
<i>nh-count</i>	(Optional) next-hop count

Command Mode

- /exec

show ipv6 amt tunnel

```
show ipv6 amt tunnel [ <address6> <port> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__
TABLE_vrf <vrf> <tc6> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route
<source> <group> <rexp> } } ]
```

Syntax Description

show	Show running system information
amt	AMT show commands
ipv6	Display IPv6 information
tunnel	Display tunnel information
vrf	(Optional) Display information for VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>port</i>	(Optional) UDP port number of gateway
detail	(Optional) Display routes joined by tunnel endpoint
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf</i>	(Optional)
<i>tc6</i>	(Optional)
TABLE_tunnel	(Optional)
<i>gwa</i>	(Optional)
<i>gwp</i>	(Optional)
<i>ut</i>	(Optional)
<i>ld</i>	(Optional)
<i>lr</i>	(Optional)
<i>rc</i>	(Optional)
<i>exp</i>	(Optional)
TABLE_route	(Optional)
<i>source</i>	(Optional)
<i>group</i>	(Optional)

<i>rexp</i>	(Optional)
-------------	------------

Command Mode

- /exec

show ipv6 bgp

```
show ipv6 { bgp | mbgp } { route-map { <rmap-name> | <rmap-name> } | prefix-list { <prfxlist-name> |
<test_pol_name> } | filter-list { <fltrlist-name> | <test_pol_name> } | community-list { <commlist-name> |
<test_pol_name> } | extcommunity-list { <extcommlist-name> | <test_pol_name> } [ exact-match ] }
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
route-map	Display routes matching the route-map
<i>rmap-name</i>	Route-map name
<i>rmap-name</i>	Known route-map name
prefix-list	Display routes matching the prefix-list
<i>prfxlist-name</i>	Name of prefix-list
filter-list	Display routes matching the filter-list
<i>fltrlist-name</i>	Name of filter-list
community-list	Display routes matching the community-list
<i>commlist-name</i>	Name of community-list
extcommunity-list	Display routes matching the extcommunity-list
<i>extcommlist-name</i>	Name of extcommunity-list
<i>test_pol_name</i>	An existing test-list policy
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ipv6 bgp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [
<ipv6-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234
} ]
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
longer-prefixes	(Optional) Display route and more specific routes

Command Mode

- /exec

show ipv6 bgp community

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
community { <regex-str> | { { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv6	Display BGP information for IPv6 address family
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
community	Display routes matching the BGP communities
<i>regex-str</i>	Regular expression to match the communities
<i>comm-id</i>	BGP community value
<i>wellknown-id</i>	BGP wellknown community
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ipv6 bgp dampening

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
dampening { dampened-paths [ regexp <regexp-str> ] | history-paths [ regexp <regexp-str> ] | parameters |
flap-statistics } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
dampening	Display dampening info
parameters	Display dampening parameters
dampened-paths	Display all dampened paths
history-paths	Display all history paths
flap-statistics	Display flap statistics for routes
ipv6	Display BGP information for IPv6 address family
regexp	(Optional) Display routes matching the AS path regular expression
<i>regexp-str</i>	(Optional) Regular expression to match the AS paths

Command Mode

- /exec

show ipv6 bgp extcommunity

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
extcommunity { <regexp-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
<i>regexp-str</i>	Regular expression to match the extcommunities
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
exact-match	(Optional) Exact match of the extcommunities

Command Mode

- /exec

show ipv6 bgp flap-statistics

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
flap-statistics [ <ipv6-prefix> ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
flap-statistics	Display route flap statistics
ipv6	Display BGP information for IPv6 address family

Command Mode

- /exec

show ipv6 bgp neighbors

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

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
neighbors	Display all configured BGP neighbors
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>neighbor-id</i>	(Optional) Display one particular BGP neighbor
<i>neighbor-prefix-id</i>	Display details for a prefix peering
ipv6	Display BGP information for IPv6 address family
routes	(Optional) Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
advertised-routes	(Optional) Display all the routes advertised to this peer
received-routes	(Optional) Display all the routes received from this peer
flap-statistics	(Optional) Display flap statistics for routes received from this peer
paths	(Optional) Display AS paths learned from this peer

Command Mode

- /exec

show ipv6 bgp nexthop-database

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]  
nexthop-database [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
nexthop-database	Display nexthop database
ipv6	Display BGP information for IPv6 address family

Command Mode

- /exec

show ipv6 bgp nexthop

```
show ipv6 { bgp | mbgp } nexthop <ipv6nexthop>
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
nexthop	Display routes matching the nexthop

Command Mode

- /exec

show ipv6 bgp received-paths

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
received-paths [ private ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
received-paths	Display paths stored for soft-reconfig
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

Command Mode

- /exec

show ipv6 bgp regexp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] regexp  
<regexp-str> [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv6	Display BGP information for IPv6 address family
regexp	Display routes matching the AS path regular expression
<i>regexp-str</i>	Regular expression to match the AS paths

Command Mode

- /exec

show ipv6 bgp summary

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
summary [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
summary	Display summarized information of BGP state
ipv6	Display BGP information for IPv6 address family

Command Mode

- /exec

show ipv6 client

```
show ipv6 client [ <client-name> ] [ __readonly__ { TABLE_ipv6_client { <cli-name> <cli-stat> <cli-pid>
<cli-ext-pid> [ <protocol> ] <pib-index> <cli-uuid> <rou-vrf> <rou-flg> <ctrl-sap> <data-sap> <ipc-ctrl-mq>
<ipc-ctrl-fail> <ipc-data-mq> <ipc-data-fail> [ <if-ext-ind> ] [ <recv-fn> <recv-hex> ] } } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
client	Display clients registered with the IPv6 process
<i>client-name</i>	(Optional) Display information for a single IPv6 client
<i>__readonly__</i>	(Optional)
TABLE_ipv6_client	(Optional) IPV6 client table
<i>cli-name</i>	(Optional) client name
<i>cli-stat</i>	(Optional) client state
<i>cli-pid</i>	(Optional) client pid
<i>cli-ext-pid</i>	(Optional) client ext-pid
<i>protocol</i>	(Optional) ipv6 client protocol
<i>pib-index</i>	(Optional) client pib-index
<i>cli-uuid</i>	(Optional) client uuid
<i>rou-vrf</i>	(Optional) client route vrf
<i>rou-flg</i>	(Optional) client route flag
<i>ctrl-sap</i>	(Optional) client control sap
<i>data-sap</i>	(Optional) client data sap
<i>ipc-ctrl-mq</i>	(Optional) client ipc control message queue
<i>ipc-ctrl-fail</i>	(Optional) client ipc control fail
<i>ipc-data-mq</i>	(Optional) client ipc data message queue
<i>ipc-data-fail</i>	(Optional) client ipc data fail
<i>if-ext-ind</i>	(Optional) client if ext indes
<i>recv-fn</i>	(Optional) client receive fn name
<i>recv-hex</i>	(Optional) receive-hexadecimal address

Command Mode

- /exec

show ipv6 dhcp guard policy

```
show ipv6 dhcp guard policy [ <pname> ] [ __readonly__ { TABLE_dhcp_guard_policy <name> <role> [ <target> ] [ <max_pref> ] [ <min_pref> ] [ <match_src_list> ] [ <match_prefix_list> ] } ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>pname</i>	(Optional) Policy name for dhcp guard feature
<i>__readonly__</i>	(Optional)
TABLE_dhcp_guard_policy	(Optional) IPv6 DHCP guard policy
<i>name</i>	(Optional) Policy Name
<i>role</i>	(Optional) Role
<i>target</i>	(Optional) Target
<i>max_pref</i>	(Optional) Max preference
<i>min_pref</i>	(Optional) Min preference
<i>match_src_list</i>	(Optional) Source Address Match Access List
<i>match_prefix_list</i>	(Optional) Prefix List Match Prefix List

Command Mode

- /exec

show ipv6 dhcp relay

```
show ipv6 dhcp relay [ interface <intf-range> ] [ __readonly__ [ <relay_service_enable>
<v6_global_smart-relay_enable> [ <gbl_src_intf> ] <relay_vpn_enable> <relay_option79_state>
<relay_cisco_option_enable> <relay_prefix_delegation> ] [ TABLE_intf <interface-name> [ <intf_src_intf>
] <intf_header> [ TABLE_addr <relay_address> <dst_intf> <vrf_name> ] ] <v6_smart_relay_intf_hdr> [
TABLE_intf <v6_smart_relay_enabled_intf> ] ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show DHCPv6
relay	DHCPv6 relay address of the interface
interface	(Optional) DHCPv6 relay address of the interface
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>relay_service_enable</i>	(Optional) is dhcpv6 relay service enabled
<i>v6_global_smart-relay_enable</i>	(Optional)
<i>gbl_src_intf</i>	(Optional) interface name
<i>relay_vpn_enable</i>	(Optional) is dhcpv6 relay insertion of vpn sub options enabled
<i>relay_option79_state</i>	(Optional) is dhcp relay option79 state
<i>relay_cisco_option_enable</i>	(Optional) is dhcpv6 relay cisco option enabled
<i>relay_prefix_delegation</i>	(Optional) is dhcpv6 relay prefix delegation route add enabled
TABLE_intf	(Optional)
<i>interface-name</i>	(Optional) interface name
<i>intf_src_intf</i>	(Optional) interface name
<i>intf_header</i>	(Optional) interface header
TABLE_addr	(Optional)
<i>dst_intf</i>	(Optional) interface name
<i>vrf_name</i>	(Optional) VRF name
<i>v6_smart_relay_intf_hdr</i>	(Optional) Smart relay interfaces header
TABLE_intf	(Optional)

<i>v6_smart_relay_enabled_intf</i>	(Optional) smart-relay enabled interfaces
------------------------------------	---

Command Mode

- /exec

show ipv6 dhcp relay prefix-delegation

```
show ipv6 dhcp relay prefix-delegation [ interface <intf> | client <ipv6-addr> | prefix <ipv6-prefix> ] [
__readonly__ [ TABLE_iapd_entry <dhcpv6_iapd_index> <client-addr> <intf> <lease> <prefix> ] ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show DHCPv6
relay	DHCPv6 relay address of the interface
prefix-delegation	Delegated prefix bindings
interface	(Optional) Display prefix bindings for an interface
<i>intf</i>	(Optional) interface
client	(Optional) Display prefix bindings for a client
prefix	(Optional) Display a specific prefix binding
__readonly__	(Optional) Read only
TABLE_iapd_entry	(Optional)
<i>dhcpv6_iapd_index</i>	(Optional) DHCPv6 iapd index
<i>intf</i>	(Optional) Connected Interface
<i>lease</i>	(Optional) Expiry time in sec

Command Mode

- /exec

show ipv6 dhcp relay prefix-delegation detail

```
show ipv6 dhcp relay prefix-delegation [ interface <intf> | client <ipv6-addr> | prefix <ipv6-prefix> ] detail
[ __readonly__ [ TABLE_iapd_entry <dhcpv6_iapd_index> <client-addr> <intf> <duid> <iaid> <prefix>
<validlife> <lease> ] ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show DHCPv6
relay	DHCPv6 relay address of the interface
prefix-delegation	Delegated prefix bindings
interface	(Optional) Display prefix bindings for an interface
<i>intf</i>	(Optional) interface
client	(Optional) Display prefix bindings for a client
prefix	(Optional) Display a specific prefix binding
detail	Display detailed information
<u>__readonly__</u>	(Optional) Read only
TABLE_iapd_entry	(Optional)
<i>dhcpv6_iapd_index</i>	(Optional) DHCPv6 iapd index
<i>intf</i>	(Optional) Connected Interface
<i>duid</i>	(Optional) Client DUID
<i>iaid</i>	(Optional) Client IAID
<i>validlife</i>	(Optional) Valid Lifetime
<i>lease</i>	(Optional) Expiry time in sec

Command Mode

- /exec

show ipv6 dhcp relay statistics

```
show ipv6 dhcp relay statistics [ interface <intf> [ [ server-ip <ip-addr-val> [ use-vrf <vrf-name> ] [ interface
<dest-interface> ] ] ] [ server-ip <ip-addr-val> [ interface <dest-interface> ] [ use-vrf <vrf-name> ] ] ] [
__readonly__ [ <msg_stats_hdr> <msg_type_str> <rx_pkts> <tx_pkts> <drops> <msg_type_str_advertise>
<rx_pkts_advertise> <tx_pkts_advertise> <drops_advertise> <msg_type_str_request> <rx_pkts_request>
<tx_pkts_request> <drops_request> <msg_type_str_confirm> <rx_pkts_confirm> <tx_pkts_confirm>
<drops_confirm> <msg_type_str_renew> <rx_pkts_renew> <tx_pkts_renew> <drops_renew>
<msg_type_str_rebind> <rx_pkts_rebind> <tx_pkts_rebind> <drops_rebind> <msg_type_str_reply>
<rx_pkts_reply> <tx_pkts_reply> <drops_reply> <msg_type_str_release> <rx_pkts_release> <tx_pkts_release>
<drops_release> <msg_type_str_decline> <rx_pkts_decline> <tx_pkts_decline> <drops_decline>
<msg_type_str_reconfigure> <rx_pkts_reconfigure> <tx_pkts_reconfigure> <drops_reconfigure>
<msg_type_str_inforeq> <rx_pkts_inforeq> <tx_pkts_inforeq> <drops_inforeq> <msg_type_str_relay_fwd>
<rx_pkts_relay_fwd> <tx_pkts_relay_fwd> <drops_relay_fwd> <msg_type_str_relay_reply>
<rx_pkts_relay_reply> <tx_pkts_relay_reply> <drops_relay_reply> <msg_type_str_unknown>
<rx_pkts_unknown> <tx_pkts_unknown> <drops_unknown> <msg_type_str_total> <rx_pkts_total>
<tx_pkts_total> <drops_total> ] [ <server_stats_hdr> [ TABLE_server <server_helper_addr> <server_vrf>
<server_intf> <server_requests> <server_responses> ] ] [ <drop_hdr> <drop_relay_disable> <drop_max_hops>
<drop_validation_fails> <drop_unknown_op_intf> <drop_bad_context> <drop_opt_insert_fail>
<drop_server_direct_reply> <drop_no_ipv6_addr> <drop_intf_error> <drop_vpn_disabled>
<drop_ipv6_extn_hdrs_presence> <drop_mct_drop> ] ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show information about DHCPv6
relay	DHCPv6 Relay
statistics	Statistics related to DHCPv6
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
server-ip	(Optional) Server address
use-vrf	(Optional) server address VRF membership
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Destination interface for the server address
<i>dest-interface</i>	(Optional) Destination interface
<u>__readonly__</u>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional) dhcpv6 message statistics header
<i>msg_type_str</i>	(Optional) dhcpv6 message type

<i>rx_pkts</i>	(Optional) dhcpv6 received packets
<i>tx_pkts</i>	(Optional) dhcpv6 forwarded packets
<i>drops</i>	(Optional) dhcpv6 packet drops
<i>msg_type_str_advertise</i>	(Optional)
<i>rx_pkts_advertise</i>	(Optional)
<i>tx_pkts_advertise</i>	(Optional)
<i>drops_advertise</i>	(Optional)
<i>msg_type_str_request</i>	(Optional)
<i>rx_pkts_request</i>	(Optional)
<i>tx_pkts_request</i>	(Optional)
<i>drops_request</i>	(Optional)
<i>msg_type_str_confirm</i>	(Optional)
<i>rx_pkts_confirm</i>	(Optional)
<i>tx_pkts_confirm</i>	(Optional)
<i>drops_confirm</i>	(Optional)
<i>msg_type_str_renew</i>	(Optional)
<i>rx_pkts_renew</i>	(Optional)
<i>tx_pkts_renew</i>	(Optional)
<i>drops_renew</i>	(Optional)
<i>msg_type_str_rebind</i>	(Optional)
<i>rx_pkts_rebind</i>	(Optional)
<i>tx_pkts_rebind</i>	(Optional)
<i>drops_rebind</i>	(Optional)
<i>msg_type_str_reply</i>	(Optional)
<i>rx_pkts_reply</i>	(Optional)
<i>tx_pkts_reply</i>	(Optional)
<i>drops_reply</i>	(Optional)
<i>msg_type_str_release</i>	(Optional)
<i>rx_pkts_release</i>	(Optional)

<i>tx_pkts_release</i>	(Optional)
<i>drops_release</i>	(Optional)
<i>msg_type_str_decline</i>	(Optional)
<i>rx_pkts_decline</i>	(Optional)
<i>tx_pkts_decline</i>	(Optional)
<i>drops_decline</i>	(Optional)
<i>msg_type_str_reconfigure</i>	(Optional)
<i>rx_pkts_reconfigure</i>	(Optional)
<i>tx_pkts_reconfigure</i>	(Optional)
<i>drops_reconfigure</i>	(Optional)
<i>msg_type_str_inforeq</i>	(Optional)
<i>rx_pkts_inforeq</i>	(Optional)
<i>tx_pkts_inforeq</i>	(Optional)
<i>drops_inforeq</i>	(Optional)
<i>msg_type_str_relay_fwd</i>	(Optional)
<i>rx_pkts_relay_fwd</i>	(Optional)
<i>tx_pkts_relay_fwd</i>	(Optional)
<i>drops_relay_fwd</i>	(Optional)
<i>msg_type_str_relay_reply</i>	(Optional)
<i>rx_pkts_relay_reply</i>	(Optional)
<i>tx_pkts_relay_reply</i>	(Optional)
<i>drops_relay_reply</i>	(Optional)
<i>msg_type_str_unknown</i>	(Optional)
<i>rx_pkts_unknown</i>	(Optional)
<i>tx_pkts_unknown</i>	(Optional)
<i>drops_unknown</i>	(Optional)
<i>msg_type_str_total</i>	(Optional) total of all dhcpv6 message types
<i>rx_pkts_total</i>	(Optional)
<i>tx_pkts_total</i>	(Optional)

<i>drops_total</i>	(Optional)
<i>server_stats_hdr</i>	(Optional) per-server statistics header
TABLE_server	(Optional)
<i>server_vrf</i>	(Optional) dhcpv6 server vrf
<i>server_intf</i>	(Optional) interface name
<i>server_requests</i>	(Optional)
<i>server_responses</i>	(Optional)
<i>drop_hdr</i>	(Optional)
<i>drop_relay_disable</i>	(Optional)
<i>drop_max_hops</i>	(Optional)
<i>drop_validation_fails</i>	(Optional)
<i>drop_unknown_op_intf</i>	(Optional)
<i>drop_bad_context</i>	(Optional)
<i>drop_opt_insert_fail</i>	(Optional)
<i>drop_server_direct_reply</i>	(Optional)
<i>drop_no_ipv6_addr</i>	(Optional)
<i>drop_intf_error</i>	(Optional)
<i>drop_vpn_disabled</i>	(Optional)
<i>drop_ipv6_extn_hdrs_presence</i>	(Optional)
<i>drop_mct_drop</i>	(Optional) drops through mct

Command Mode

- /exec

show ipv6 fragments

```
show ipv6 fragments [ <source-addr> ] [ __readonly__ [ TABLE_ipv6_frag [ TABLE_ipv6_each_q {
<ipv6-src> <ipv6-dest> <frag-id> <frag-off> <m-flag> <nxt-header> <pay-load> <expires> } ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
fragments	Display queued fragments
<i>__readonly__</i>	(Optional)
<i>TABLE_ipv6_frag</i>	(Optional) IPV6 fragment table
<i>TABLE_ipv6_each_q</i>	(Optional) IPV6 each fragment queue table
<i>frag-id</i>	(Optional) fragment id
<i>frag-off</i>	(Optional) fragment offset
<i>m-flag</i>	(Optional) m flag
<i>nxt-header</i>	(Optional) next header
<i>pay-load</i>	(Optional) fargment payload
<i>expires</i>	(Optional) expiry time

Command Mode

- /exec

show ipv6 icmp

```
show ipv6 icmp { adjacency | neighbor | sync-entries } [ <interface> ] [ detail ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ { <icmpv6-vrftype> <icmpv6-cxt-name> } [ TABLE_icmpv6_all_int
{ TABLE_icmpv6_one_int { <icmpv6-ipv6-addr> <time-stamp-icmpv6> <icmpv6-mac> <icmpv6-state>
<icmpv6-short-name> [ <phy-int-short-name> ] } } ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
adjacency	Show IPv6 dynamic learnt adjacency entry
neighbor	Show IPv6 dynamic learnt neighbor entry
sync-entries	Show IPv6 table learnt only due to table sync
<i>interface</i>	(Optional) Interface name to display
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>icmpv6-vrftype</i>	(Optional)
<i>icmpv6-cxt-name</i>	(Optional)
TABLE_icmpv6_all_int	(Optional)
TABLE_icmpv6_one_int	(Optional)
<i>time-stamp-icmpv6</i>	(Optional)
<i>icmpv6-mac</i>	(Optional)
<i>icmpv6-state</i>	(Optional)
<i>icmpv6-short-name</i>	(Optional)
<i>phy-int-short-name</i>	(Optional)

Command Mode

- /exec

show ipv6 icmp global traffic

```
show ipv6 { icmp | nd } global traffic [ __readonly__ [ { TABLE_icmpv6_global_stat [ <st-total> ] [ <rv-total> ] [ <st-rewrite> ] [ <st-drop-rewrite> ] [ <st-err> ] [ <rv-err> ] [ <st-int-drp-cnt> ] [ <rv-int-drp-cnt> ] [ <st-adj-nt-recov-am-ha> ] [ <rv-adj-nt-recov-am-ha> ] [ <st-pkt-allow-inv-ttl-vpc> ] [ <rv-pkt-allow-inv-ttl-vpc> ] [ <st-drp-src-mac-own> ] [ <rv-drp-src-mac-own> ] [ <st-drp-tgt-ip-not-own> ] [ <rv-drp-tgt-ip-not-own> ] [ <st-drp-src-ip-not-own> ] [ <rv-drp-src-ip-not-own> ] [ <st-dest-unreach> ] [ <rv-dest-unreach> ] [ <st-admin-prohibit> ] [ <rv-admin-prohibit> ] [ <st-time-exceed> ] [ <rv-time-exceed> ] [ <st-para-pbms> ] [ <rv-para-pbms> ] [ <st-echo-req> ] [ <rv-echo-req> ] [ <st-echo-reply> ] [ <rv-echo-reply> ] [ <st-redirect> ] [ <rv-redirect> ] [ <st-pkt-too-big> ] [ <rv-pkt-too-big> ] [ <st-rtr-adver> ] [ <rv-rtr-adver> ] [ <st-rtr-solicit> ] [ <rv-rtr-solicit> ] [ <st-nei-adver> ] [ <rv-nei-adver> ] [ <st-nei-solicit> ] [ <rv-nei-solicit> ] [ <fast-path-pkts> ] [ <fastpath-disable> ] [ <ign-fastpath-pkts> ] [ <dup-rtr-ra-recvd> ] [ <rv-dup-rtr-ra-recvd> ] [ <oc-dtx-req-rcv-cnt> ] [ <oc-dtx-resp-snt-cnt> ] [ <oc-dtx-session-drp-cnt> ] } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
nd	ICMPv6 Neighbor Discovery commands
global	Show ICMPv6/ND global variables
traffic	Display ICMPv6 software processed traffic statistics
__readonly__	(Optional)
TABLE_icmpv6_global_stat	(Optional) ICMPV6 global statistics
st-total	(Optional) total sent messages
rv-total	(Optional) total receive messages
st-rewrite	(Optional) total rewritten packets
st-drop-rewrite	(Optional) total dropped rewritten packets
st-err	(Optional) total sent error message
rv-err	(Optional) total receive error message
st-int-drp-cnt	(Optional) sent interface down drop count
rv-int-drp-cnt	(Optional) receive interface down drop count
st-adj-nt-recov-am-ha	(Optional) sent Adjacency not recovered from AM aft HA
rv-adj-nt-recov-am-ha	(Optional) receive Adjacency not recovered from AM aft HA
st-pkt-allow-inv-ttl-vpc	(Optional) sent Pkts allowed due to inv ttl on vPC-MCT

<i>rv-pkt-allow-inv-ttl-vpc</i>	(Optional) receive Pkts allowed due to inv ttl on vPC-MCT
<i>st-drp-src-mac-own</i>	(Optional) sent packet drop source mac address own
<i>rv-drp-src-mac-own</i>	(Optional) receive packet drop source mac address own
<i>st-drp-tgt-ip-not-own</i>	(Optional) sent drop tgt ip address not own
<i>rv-drp-tgt-ip-not-own</i>	(Optional) receive drop tgt ip address not own
<i>st-drp-src-ip-not-own</i>	(Optional) sent dropped source ip address
<i>rv-drp-src-ip-not-own</i>	(Optional) receive dropped source ip address
<i>st-dest-unreach</i>	(Optional) sent destination unreachable
<i>rv-dest-unreach</i>	(Optional) receive destination unreachable
<i>st-admin-prohibit</i>	(Optional) sent Administratively Prohibited
<i>rv-admin-prohibit</i>	(Optional) receive Administratively Prohibited
<i>st-time-exceed</i>	(Optional) sent time exceeded
<i>rv-time-exceed</i>	(Optional) receive time exceeded
<i>st-para-pbms</i>	(Optional) sent parameter problems
<i>rv-para-pbms</i>	(Optional) receive parameter problems
<i>st-echo-req</i>	(Optional) sent echo request
<i>rv-echo-req</i>	(Optional) receive echo request
<i>st-echo-reply</i>	(Optional) sent echo replies
<i>rv-echo-reply</i>	(Optional) receive echo replies
<i>st-redirect</i>	(Optional) sent redirects
<i>rv-redirect</i>	(Optional) receive redirects
<i>st-pkt-too-big</i>	(Optional) sent packet too big
<i>rv-pkt-too-big</i>	(Optional) receive packet too big
<i>st-rtr-adver</i>	(Optional) sent router advertisements
<i>rv-rtr-adver</i>	(Optional) receive router advertisements
<i>st-rtr-solicit</i>	(Optional) sent router solicitations
<i>rv-rtr-solicit</i>	(Optional) receive router solicitations
<i>st-nei-adver</i>	(Optional) sent neighbor advertisements
<i>rv-nei-adver</i>	(Optional) receive neighbor advertisements

<i>st-nei-solicit</i>	(Optional) sent neighbor solicitations
<i>rv-nei-solicit</i>	(Optional) receive neighbor solicitations
<i>fast-path-pkts</i>	(Optional) fastpath packets
<i>fastpath-disable</i>	(Optional) [fastpath disabled / others]
<i>ign-fastpath-pkts</i>	(Optional) Packets drop request ignore count
<i>dup-rtr-ra-recvd</i>	(Optional) Duplicate router RA sent
<i>rv-dup-rtr-ra-recvd</i>	(Optional) Duplicate router RA received
<i>oc-dtx-req-rcv-cnt</i>	(Optional) OC DTX Request Received Count
<i>oc-dtx-resp-snt-cnt</i>	(Optional) OC DTX Response Sent Count
<i>oc-dtx-session-drp-cnt</i>	(Optional) OC DTX Dropped Session Count

Command Mode

- /exec

show ipv6 icmp interface

```
{ show ipv6 { icmp | nd } interface [ <interface> ] { [ prefix [ full ] ] | [ route ] | [ detail ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] } [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_intf <intf-name>
<proto-state> <link-state> <admin-state> [ TABLE_addr <addr> ] <subnet> <link-local-addr>
<icmpv6-disabled> <last-ns-sent> <last-na-sent> <last-ra-sent> <next-na-sent> <ra-min-interval> <ra-interval>
<set-m-flag> <set-o-flag> <current-hop-limit> <mtu> <router-lifetime> <reachable-time> <retrans-timer>
<ns-interval> <send-redirect> <send-unreachables> <ra-sent> <ra-rec> <rs-sent> <rs-rec> <na-sent> <na-rec>
<ns-sent> <ns-rec> <ns-drop-tent-state> <redirect-sent> <redirect-rec> <msg-sent> <msg-rec> <rewrite-sent>
<drop-rewrite-sent> <errors-sent> <erros-rec> <ifdown-sent> <ifdown-rec> <am-ha-not-ready> <allow-mct-ttl>
<our-own-mac> <tgt-not-us> <dest-unreachs-sent> <dest-unreachs-rec> <admin-prohibs-sent>
<admin-prohibs-rec> <time-excds-sent> <time-excds-rec> <parm-problems-sent> <parm-problems-rec>
<echos-sent> <echos-rec> <echo-replies-sent> <echo-replies-rec> <pkt-toobigs-sent> <pkt-toobigs-rec>
<fastpath-pkt-recv> <fastpath-disable-pkt-recv> <fastpath-ignore-pkt-recv> <uptime> <mld-config-il> [
TABLE_one_int <grp-id> <protocol-one-int> <client-uuid> <client-state-act> <client-in-use> TABLE_vip_list
<virt-ipv6> <virt-mac> <context_name> <context_id> <last-solocit-st> <last-nei-ad-st> <last-rtr-adv-st>
<nxt-rtr-ad-st> ] <max-dad-attempts> <current-dad-attempts> [ TABLE_route <route> <preference> <lifetime>
<info-option> <reachability-verify-enabled> <adv-route-info> <route-zero-lifetime> ] [ TABLE_prefix
<prefix> <enabled> <vlaidlife-time> <preferredlife-time> <on-link> <off-link> <autonomous> ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
nd	ICMPv6 Neighbor Discovery commands
interface	Display ICMPv6 related interface information
prefix	(Optional) Display List of ICMPv6 RA prefix
route	(Optional) Display List of ICMPv6 RA routes
full	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
detail	(Optional) Display ICMPv6 related interface information in detail
<i>interface</i>	(Optional) Interface name to show
__readonly__	(Optional)
TABLE_vrf	(Optional)

<i>vrf-name-out</i>	(Optional)
TABLE_intf	(Optional)
<i>intf-name</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
TABLE_addr	(Optional)
<i>icmpv6-disabled</i>	(Optional)
<i>last-ns-sent</i>	(Optional)
<i>last-na-sent</i>	(Optional)
<i>last-ra-sent</i>	(Optional)
<i>next-na-sent</i>	(Optional)
<i>ra-min-interval</i>	(Optional)
<i>ra-interval</i>	(Optional)
<i>set-m-flag</i>	(Optional)
<i>set-o-flag</i>	(Optional)
<i>current-hop-limit</i>	(Optional)
<i>mtu</i>	(Optional)
<i>router-lifetime</i>	(Optional)
<i>reachable-time</i>	(Optional)
<i>retrans-timer</i>	(Optional)
<i>ns-interval</i>	(Optional)
<i>send-redirect</i>	(Optional)
<i>send-unreachables</i>	(Optional)
<i>ra-sent</i>	(Optional)
<i>ra-rec</i>	(Optional)
<i>rs-sent</i>	(Optional)
<i>rs-rec</i>	(Optional)
<i>na-sent</i>	(Optional)

<i>na-rec</i>	(Optional)
<i>ns-sent</i>	(Optional)
<i>ns-rec</i>	(Optional)
<i>ns-drop-tent-state</i>	(Optional)
<i>redirect-sent</i>	(Optional)
<i>redirect-rec</i>	(Optional)
<i>msg-sent</i>	(Optional)
<i>msg-rec</i>	(Optional)
<i>rewrite-sent</i>	(Optional)
<i>drop-rewrite-sent</i>	(Optional)
<i>errors-sent</i>	(Optional)
<i>erros-rec</i>	(Optional)
<i>ifdown-sent</i>	(Optional)
<i>ifdown-rec</i>	(Optional)
<i>am-ha-not-ready</i>	(Optional)
<i>allow-mct-ttl</i>	(Optional)
<i>our-own-mac</i>	(Optional)
<i>tgt-not-us</i>	(Optional)
<i>dest-unreachs-sent</i>	(Optional)
<i>dest-unreachs-rec</i>	(Optional)
<i>admin-prohibs-sent</i>	(Optional)
<i>admin-prohibs-rec</i>	(Optional)
<i>time-excds-sent</i>	(Optional)
<i>time-excds-rec</i>	(Optional)
<i>parm-problems-sent</i>	(Optional)
<i>parm-problems-rec</i>	(Optional)
<i>echos-sent</i>	(Optional)
<i>echos-rec</i>	(Optional)
<i>echo-replies-sent</i>	(Optional)

<i>echo-replies-rec</i>	(Optional)
<i>pkt-toobigs-sent</i>	(Optional)
<i>pkt-toobigs-rec</i>	(Optional)
<i>fastpath-pkt-recv</i>	(Optional)
<i>fastpath-disable-pkt-recv</i>	(Optional)
<i>fastpath-ignore-pkt-recv</i>	(Optional)
<i>uptime</i>	(Optional)
<i>mld-config-il</i>	(Optional)
TABLE_one_int	(Optional)
<i>grp-id</i>	(Optional)
<i>protocol-one-int</i>	(Optional)
<i>client-uuid</i>	(Optional)
<i>client-state-act</i>	(Optional)
<i>client-in-use</i>	(Optional)
TABLE_vip_list	(Optional)
<i>virt-mac</i>	(Optional)
<i>context_name</i>	(Optional)
<i>context_id</i>	(Optional)
<i>last-solocit-st</i>	(Optional)
<i>last-nei-ad-st</i>	(Optional)
<i>last-rtr-adv-st</i>	(Optional)
<i>nxt-rtr-ad-st</i>	(Optional)
<i>max-dad-attempts</i>	(Optional)
<i>current-dad-attempts</i>	(Optional)
TABLE_route	(Optional)
<i>preference</i>	(Optional)
<i>lifetime</i>	(Optional)
<i>info-option</i>	(Optional)
<i>reachability-verify-enabled</i>	(Optional)

<i>adv-route-info</i>	(Optional)
<i>route-zero-lifetime</i>	(Optional)
TABLE_prefix	(Optional)
<i>enabled</i>	(Optional)
<i>vlaidlifetime</i>	(Optional)
<i>preferredlifetime</i>	(Optional)
<i>on-link</i>	(Optional)
<i>off-link</i>	(Optional)
<i>autonomous</i>	(Optional)

Command Mode

- /exec

show ipv6 icmp l2 statistics

```
show ipv6 { icmp | nd } l2 statistics [ interface <interface> ] [ __readonly__ [ TABLE_intf { <intf_name>
<l2_stats> } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
nd	ICMPv6 Neighbor Discovery commands
interface	(Optional) Interface for which l2 stats to be shown
l2	Display ND info for layer-2 interface
statistics	Display ND statistics for layer 2 interface
<i>interface</i>	(Optional) interface
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional) Layer 2 Interface name
<i>intf_name</i>	(Optional) Interface name
<i>l2_stats</i>	(Optional) layer 2 ND stats on given interface

Command Mode

- /exec

show ipv6 icmp off-list

```
show ipv6 icmp off-list [ vlan <vlan-id> ] [ __readonly__ [ <vlan-adj-cnt> ] [ <icmpv6-sync-adj-cnt> ] {
TABLE_icmpv6_vlan_list <adj-vlan-id> <off-adj-ip-addr> <icmpv6-time-stamp> <icmpv6-mac-addr>
<off-adj-flags> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
off-list	Show adjacencies in off-list icmpv6 database
vlan	(Optional) Vlan id
<i>vlan-id</i>	(Optional) Show information for specified vlan
<i>__readonly__</i>	(Optional)
<i>vlan-adj-cnt</i>	(Optional) vlan adjacency count
<i>icmpv6-sync-adj-cnt</i>	(Optional) icmpv6 sync adjacency count
TABLE_icmpv6_vlan_list	(Optional) icmpv6 vlan list table
<i>adj-vlan-id</i>	(Optional) adjacency vlan id
<i>icmpv6-time-stamp</i>	(Optional) icmpv6 time stamp
<i>icmpv6-mac-addr</i>	(Optional) icmpv6 mac address
<i>off-adj-flags</i>	(Optional) offlist adjacency flags

Command Mode

- /exec

TABLE_glo_vrf	(Optional)
<i>group-id</i>	(Optional)
<i>protocol-vrf</i>	(Optional)
<i>cli-uuid</i>	(Optional)
<i>vaddr-action</i>	(Optional)
<i>vrf-interface</i>	(Optional)
<i>vaddr-mac</i>	(Optional)
<i>cxt-name</i>	(Optional)
<i>cxt-id</i>	(Optional)
TABLE_one_int	(Optional)
<i>lcache-inter</i>	(Optional)
<i>cxt-name-int</i>	(Optional)
<i>cxt_id-int</i>	(Optional)
<i>grp-id</i>	(Optional)
<i>protocol-one-int</i>	(Optional)
<i>client-uuid</i>	(Optional)
<i>client-state-act</i>	(Optional)
<i>client-in-use</i>	(Optional)
<i>client-state</i>	(Optional)
TABLE_one_group	(Optional)
TABLE_vip_list	(Optional)
<i>virt-mac</i>	(Optional)
<i>cxt_name</i>	(Optional)
<i>cxt_id</i>	(Optional)
<i>last-solocit-st</i>	(Optional)
<i>last-nei-ad-st</i>	(Optional)
<i>last-rtr-adv-st</i>	(Optional)
<i>nxt-rtr-ad-st</i>	(Optional)
<i>vmac-addr</i>	(Optional)

<i>st-total</i>	(Optional)
<i>rv-total</i>	(Optional)
<i>st-err</i>	(Optional)
<i>rv-err</i>	(Optional)
<i>st-int-dwn-drp</i>	(Optional)
<i>rv-int-dwn-drp</i>	(Optional)
<i>st-adj-nt-recov-am</i>	(Optional)
<i>rv-adj-nt-recov-am</i>	(Optional)
<i>st-pkt-allow-inv-ttl</i>	(Optional)
<i>rv-pkt-allow-inv-ttl</i>	(Optional)
<i>st-pkt-drp-src-mac-own</i>	(Optional)
<i>rv-pkt-drp-src-mac-own</i>	(Optional)
<i>st-pkt-drp-tgt-not-own</i>	(Optional)
<i>rv-pkt-drp-tgt-not-own</i>	(Optional)
<i>st-pkt-drp-src-not-own</i>	(Optional)
<i>rv-pkt-drp-src-not-own</i>	(Optional)
<i>st-dest-unreach</i>	(Optional)
<i>rv-dest-unreach</i>	(Optional)
<i>st-admin-prohi</i>	(Optional)
<i>rv-admin-prohi</i>	(Optional)
<i>st-time-exceed</i>	(Optional)
<i>rv-time-exceed</i>	(Optional)
<i>st-patr-pbm</i>	(Optional)
<i>rv-patr-pbm</i>	(Optional)
<i>st-echo-req</i>	(Optional)
<i>rv-echo-req</i>	(Optional)
<i>st-echo-reply</i>	(Optional)
<i>rv-echo-reply</i>	(Optional)
<i>st-dup-ra</i>	(Optional)

<i>rv-dup-ra</i>	(Optional)
<i>st-redirect</i>	(Optional)
<i>rv-redirect</i>	(Optional)
<i>st-pkt-too-big</i>	(Optional)
<i>rv-pkt-too-big</i>	(Optional)
<i>st-rtr-adver</i>	(Optional)
<i>rv-rtr-adver</i>	(Optional)
<i>st-rtr-solicit</i>	(Optional)
<i>rv-rtr-solicit</i>	(Optional)
<i>st-nei-adver</i>	(Optional)
<i>rv-nei-adver</i>	(Optional)
<i>st-nei-solicit</i>	(Optional)
<i>rv-nei-solicit</i>	(Optional)

Command Mode

- /exec

show ipv6 icmp vpc-statistics

```
show ipv6 icmp vpc-statistics [ __readonly__ [ { TABLE_icmpv6_vpc_stats [ <icmpv6-pro-drp-pull-disable> ] [ <icmpv6-pro-drp-push-msg-disable> ] [ <icmpv6-pro-ign-snd-pull-disabe> ] [ <icmpv6-ign-snd-push-disable> ] [ <icmpv6-drp-im-fail> ] [ <icmpv6-drp-mcecm-fail> ] [ <icmpv6-drp-invalid-pc-iod> ] [ <icmpv6-drp-pt-lookup-fail> ] [ <icmpv6-drp-resp-fail-no-mct> ] [ <icmpv6-drp-resp-fail> ] [ <icmpv6-vpc-id-ifindx-sending-pushmsg> ] [ <icmpv6-vpc-id-proc-cfs-payload> ] [ <icmpv6-resp-sent> ] [ <icmpv6-resp-recvd> ] [ <icmpv6-resp-recv-err> ] [ <icmpv6-rcvd-msg> ] [ <icmpv6-send-fail> ] [ <icmpv6-cfs-rel-dlvry-fail> ] [ <icmpv6-cfs-rel-dnvry-suc> ] [ <icmpv6-drp-pt-add-fail> ] [ <icmpv6-drp-no-mem> ] [ <icmpv6-drp-tmr-cre-fail> ] [ <icmpv6-drp-add-adj-fail> ] [ <icmpv6-off-drp-pt-lookup-fail> ] [ <icmpv6-dont-drp-vlan-mismat> ] [ <icmpv6-drp-svi-invalid> ] [ <icmpv6-dont-drop-sv-down> ] [ <icmpv6-drp-mct-down> ] [ <icmpv6-drp-ctxt-invalid> ] [ <icmpv6-drp-vrf-invalid> ] [ <icmpv6-drp-l3addr-invalid> ] [ <icmpv6-drp-l3addr-sanity-fail> ] [ <icmpv6-drp-mac-sanity-fail> ] [ <icmpv6-own-rtr-mac> ] [ <icmpv6-drp-own-ipv6addr> ] [ <icmpv6-drp-own-vipv6add> ] [ <icmpv6-drp-adj-fail> ] [ <icmpv6-drp-subnet-mismatch> ] [ <icmpv6-drp-adj-exist> ] [ <icmpv6-dont-drp-ip-not-enable> ] [ <icmpv6-drp-total-cnt> ] [ <icmpv6-dont-drop-total-cnt> ] [ <icmpv6-add-adj> ] [ <icmpv6-del-adj> ] [ <icmpv6-adj-already-exist> ] [ <icmpv6-vpc-id-periodic-sync> ] [ <icmpv6-vpc-id-cfs-payload-periodic-sync> ] } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vpc-statistics	Show vPC global statistics
__readonly__	(Optional)
TABLE_icmpv6_vpc_stats	(Optional) icmpv6 Vpc statistics
<i>icmpv6-pro-drp-pull-disable</i>	(Optional) icmpv6 protocol drop pull disable
<i>icmpv6-pro-drp-push-msg-disable</i>	(Optional) icmpv6 protocol drop push message disable
<i>icmpv6-pro-ign-snd-pull-disabe</i>	(Optional) icmpv6 protocol ignore send pull disable
<i>icmpv6-ign-snd-push-disable</i>	(Optional) icmpv6 ignore send push disable
<i>icmpv6-drp-im-fail</i>	(Optional) icmpv6 drop im fail
<i>icmpv6-drp-mcecm-fail</i>	(Optional) MCECM api failed while processing CFS payload
<i>icmpv6-drp-invalid-pc-iod</i>	(Optional) Invalid MCT port-channel iod while processing CFS payload
<i>icmpv6-drp-pt-lookup-fail</i>	(Optional) PT lookup failed while processing CFS payload
<i>icmpv6-drp-resp-fail-no-mct</i>	(Optional) invalid MCT iod while processing CFS payload
<i>icmpv6-drp-resp-fail</i>	(Optional) response failed while processing CFS payload
<i>icmpv6-vpc-id-ifindx-sending-pushmsg</i>	(Optional) Unable to retrieve VPC id ifindex while sending push message

<i>icmpv6-vpc-id-proc-cfs-payload</i>	(Optional) Unable to retrieve ifindex from vpc id
<i>icmpv6-vpc-id-periodic-sync</i>	(Optional) unable to retrieve vpc id ifindex for periodic sync
<i>icmpv6-vpc-id-cfs-payload-periodic-sync</i>	(Optional) unable to retrieve ifindex from vpc id while processing cfs payload for periodic sync
<i>icmpv6-resp-sent</i>	(Optional) Response sent via CFSOE
<i>icmpv6-resp-rcvd</i>	(Optional) Response received via CFSOE
<i>icmpv6-resp-rcv-err</i>	(Optional) Response received via CFSOE with errors
<i>icmpv6-rcvd-msg</i>	(Optional) Received message via CFSOE
<i>icmpv6-send-fail</i>	(Optional) Send message failed via CFSOE
<i>icmpv6-cfs-rel-dlvry-fail</i>	(Optional) MCECM send api failed via CFSOE
<i>icmpv6-cfs-rel-dmrvy-suc</i>	(Optional) Send message succeeded via CFSOE
<i>icmpv6-drp-pt-add-fail</i>	(Optional) PT add failed while processing offlist database
<i>icmpv6-drp-no-mem</i>	(Optional) Memory alloc failed while processing offlist database
<i>icmpv6-drp-tmr-cre-fail</i>	(Optional) Timer create failed while processing offlist database
<i>icmpv6-drp-add-adj-fail</i>	(Optional) Adjacency addition failed while processing offlist database
<i>icmpv6-off-drp-pt-lookup-fail</i>	(Optional) PT lookup failed while processing offlist database
<i>icmpv6-dont-drp-vlan-mismat</i>	(Optional) VLAN mismatch while processing offlist database
<i>icmpv6-drp-svi-invalid</i>	(Optional) SVI is invalid while processing offlist database
<i>icmpv6-dont-drop-sv-down</i>	(Optional) SVI is down while processing offlist database
<i>icmpv6-drp-mct-down</i>	(Optional) MCT is down while processing offlist database
<i>icmpv6-drp-ctxt-invalid</i>	(Optional) Ctxt_type is invalid while processing offlist database
<i>icmpv6-drp-vrf-invalid</i>	(Optional) VRF is invalid while processing offlist database
<i>icmpv6-drp-l3addr-invalid</i>	(Optional) IP address is invalid while processing offlist database
<i>icmpv6-drp-l3addr-sanity-fail</i>	(Optional) IP address sanity failed while processing offlist database
<i>icmpv6-drp-mac-sanity-fail</i>	(Optional) MAC address sanity failed while processing offlist database
<i>icmpv6-own-rtr-mac</i>	(Optional) Our own router mac while processing offlist database
<i>icmpv6-drp-own-ipv6addr</i>	(Optional) Our own ip address while processing offlist database
<i>icmpv6-drp-own-vipv6add</i>	(Optional) Our own virtual ip address while processing offlist database
<i>icmpv6-drp-adj-fail</i>	(Optional) Create adjacency failed while processing offlist database

<i>icmpv6-drp-subnet-mismatch</i>	(Optional) Subnet mismatch while processing offlist database
<i>icmpv6-drp-adj-exist</i>	(Optional) Entry exists while processing offlist database
<i>icmpv6-dont-drp-ip-not-enable</i>	(Optional) IPv6 not enabled on interface while processing offlist database
<i>icmpv6-drp-total-cnt</i>	(Optional) Total drop count while processing offlist database
<i>icmpv6-dont-drop-total-cnt</i>	(Optional) Total don't drop count while processing offlist database
<i>icmpv6-add-adj</i>	(Optional) Total adjacency additions in offlist database
<i>icmpv6-del-adj</i>	(Optional) Total adjacency deletions in offlist database
<i>icmpv6-adj-already-exist</i>	(Optional) Total adjacencies ignored as they already exists in offlist database

Command Mode

- /exec

show ipv6 interface

```
show ipv6 interface { [ brief [ include-secondary ] ] [ <interface> | <ipv6-addr> ] [ detail ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ [ TABLE_intf <vrf-name-out> <intf-name> [ <iod> ] [
<proto-state> ] [ <link-state> ] [ <admin-state> ] [ TABLE_addr <addr> ] [ <prefix> ] [ { TABLE_sec_addr
[ <sec-prefix> } ] ] [ <linklocal-addr> ] [ <linklocal-configured> ] [ { TABLE_vaddr [ <v-addr> } ] ] [
<ipv6-disabled> ] [ <mrouting-enabled> ] [ <report-linklocal-enabled> ] [ <forwarding-enabled> ] [
<mgroup-locally-joined> ] [ { TABLE_maddr <m-addr> [ <m-addr-refcnt> } ] ] [ <mcast-sgentries-joined>
] [ { TABLE_sg [ <sg-saddr> ] [ <sg-maddr> ] [ <sg-refcnt> } ] ] [ <mtu> ] [ <global-in-pcl-configured> ] [
<global-in-pcl-name> ] [ <global-in-pcl-pending> ] [ <global-out-pcl-configured> ] [ <global-out-pcl-name>
] [ <global-out-pcl-pending> ] [ <in-pcl-configured> ] [ <in-pcl-name> ] [ <in-pcl-pending> ] [
<out-pcl-configured> ] [ <out-pcl-name> ] [ <out-pcl-pending> ] [ <urpf-mode> ] [ <ipv6-lstype> ] [
<stats-last-reset> ] [ <acl-in> ] [ <acl-out> ] [ <upkt-fwd> ] [ <upkt-orig> ] [ <upkt-consumed> ] [ <ubyte-fwd>
] [ <ubyte-orig> ] [ <ubyte-consumed> ] [ <mpkt-fwd> ] [ <mpkt-orig> ] [ <mpkt-consumed> ] [ <mbyte-fwd>
] [ <mbyte-orig> ] [ <mbyte-consumed> ] [ <upkt-in-acc> ] [ <upkt-in-rej> ] [ <ubyte-in-acc> ] [ <ubyte-in-rej>
] [ <mpkt-in-acc> ] [ <mpkt-in-rej> ] [ <mbyte-in-acc> ] [ <mbyte-in-rej> ] [ <upkt-out-acc> ] [ <upkt-out-rej>
] [ <ubyte-out-acc> ] [ <ubyte-out-rej> ] [ <mpkt-out-acc> ] [ <mpkt-out-rej> ] [ <mbyte-out-acc> ] [
<mbyte-out-rej> ] [ <hw-upkt-sent> ] [ <hw-upkt-recv> ] [ <hw-ubyte-sent> ] [ <hw-ubyte-recv> ] [
<hw-mpkt-sent> ] [ <hw-mpkt-recv> ] [ <hw-mbyte-sent> ] [ <hw-mbyte-recv> ] [ <hw-upkt-drop> ] [
<hw-ubyte-drop> ] [ <hw-mpkt-drop> ] [ <hw-mbyte-drop> ] [ <hw-mpkt-rpdrop> ] [ <hw-mbyte-rpdrop>
] [ <hw-mpkt-dfdrop> ] [ <hw-mbyte-dfdrop> ] [ <unspecified-src> ] [ <total-pkt-recv-tent-addr> ] [
<total-pkts-recv-invalid-addr-state> ] [ <total-pkt-recv-dup-state> ] [ <anycast-pkt-arrived-tcp> ] [
<deliver-intf-down> ] [ <nd-frag-drop> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
interface	Display IPv6 related interface information
brief	(Optional) Display summary of IPv6 status and configuration
include-secondary	(Optional) Display summary of all IPv6 addresses
<i>interface</i>	(Optional) Interface name to display
detail	(Optional) Display detailed IPv6 interface information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
__readonly__	(Optional)
TABLE_addr	(Optional)
<i>vrf-name-out</i>	(Optional)

TABLE_intf	(Optional)
<i>intf-name</i>	(Optional)
<i>proto-state</i>	(Optional)
<i>link-state</i>	(Optional)
<i>admin-state</i>	(Optional)
<i>iod</i>	(Optional)
<i>addr</i>	(Optional)
<i>prefix</i>	(Optional)
TABLE_sec_addr	(Optional)
<i>sec-prefix</i>	(Optional)
<i>linklocal-configured</i>	(Optional)
TABLE_vaddr	(Optional)
<i>ipv6-disabled</i>	(Optional)
<i>mrouting-enabled</i>	(Optional)
<i>report-linklocal-enabled</i>	(Optional)
<i>forwarding-enabled</i>	(Optional)
<i>mgroup-locally-joined</i>	(Optional)
TABLE_maddr	(Optional)
<i>m-addr-refcnt</i>	(Optional)
<i>mcast-sgentries-joined</i>	(Optional)
TABLE_sg	(Optional)
<i>sg-refcnt</i>	(Optional)
<i>mtu</i>	(Optional)
<i>global-in-pcl-configured</i>	(Optional)
<i>global-in-pcl-name</i>	(Optional)
<i>global-in-pcl-pending</i>	(Optional)
<i>global-out-pcl-configured</i>	(Optional)
<i>global-out-pcl-name</i>	(Optional)
<i>global-out-pcl-pending</i>	(Optional)

<i>in-pcl-configured</i>	(Optional)
<i>in-pcl-name</i>	(Optional)
<i>in-pcl-pending</i>	(Optional)
<i>out-pcl-configured</i>	(Optional)
<i>out-pcl-name</i>	(Optional)
<i>out-pcl-pending</i>	(Optional)
<i>urpf-mode</i>	(Optional)
<i>ipv6-lstype</i>	(Optional)
<i>stats-last-reset</i>	(Optional)
<i>acl-in</i>	(Optional)
<i>acl-out</i>	(Optional)
<i>upkt-fwd</i>	(Optional)
<i>upkt-orig</i>	(Optional)
<i>upkt-consumed</i>	(Optional)
<i>ubyte-fwd</i>	(Optional)
<i>ubyte-orig</i>	(Optional)
<i>ubyte-consumed</i>	(Optional)
<i>mpkt-fwd</i>	(Optional)
<i>mpkt-orig</i>	(Optional)
<i>mpkt-consumed</i>	(Optional)
<i>mbyte-fwd</i>	(Optional)
<i>mbyte-orig</i>	(Optional)
<i>mbyte-consumed</i>	(Optional)
<i>upkt-in-acc</i>	(Optional)
<i>upkt-in-rej</i>	(Optional)
<i>ubyte-in-acc</i>	(Optional)
<i>ubyte-in-rej</i>	(Optional)
<i>mpkt-in-acc</i>	(Optional)
<i>mpkt-in-rej</i>	(Optional)

<i>mbyte-in-acc</i>	(Optional)
<i>mbyte-in-rej</i>	(Optional)
<i>upkt-out-acc</i>	(Optional)
<i>upkt-out-rej</i>	(Optional)
<i>ubyte-out-acc</i>	(Optional)
<i>ubyte-out-rej</i>	(Optional)
<i>mpkt-out-acc</i>	(Optional)
<i>mpkt-out-rej</i>	(Optional)
<i>mbyte-out-acc</i>	(Optional)
<i>mbyte-out-rej</i>	(Optional)
<i>hw-upkt-sent</i>	(Optional)
<i>hw-upkt-recv</i>	(Optional)
<i>hw-ubyte-sent</i>	(Optional)
<i>hw-ubyte-recv</i>	(Optional)
<i>hw-mpkt-sent</i>	(Optional)
<i>hw-mpkt-recv</i>	(Optional)
<i>hw-mbyte-sent</i>	(Optional)
<i>hw-mbyte-recv</i>	(Optional)
<i>hw-upkt-drop</i>	(Optional)
<i>hw-ubyte-drop</i>	(Optional)
<i>hw-mpkt-drop</i>	(Optional)
<i>hw-mbyte-drop</i>	(Optional)
<i>hw-mpkt-rpdrop</i>	(Optional)
<i>hw-mbyte-rpdrop</i>	(Optional)
<i>hw-mpkt-dfdrop</i>	(Optional)
<i>hw-mbyte-dfdrop</i>	(Optional)
<i>unspecified-src</i>	(Optional)
<i>total-pkt-recv-tent-addr</i>	(Optional)
<i>total-pkts-recv-invalid-addr-state</i>	(Optional)

<i>total-pkt-recv-dup-state</i>	(Optional)
<i>anycast-pkt-arrived-tcp</i>	(Optional)
<i>deliver-intf-down</i>	(Optional)
<i>nd-frag-drop</i>	(Optional)

Command Mode

- /exec

show ipv6 lisp data-cache

```
show ipv6 lisp data-cache [ <eid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
lisp	LISP show commands
data-cache	Display EID-to-RLOC data cache mapping in this ITR
<i>eid</i>	(Optional) Display mapping for IPv6 destination EID
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

show ipv6 local policy

```
show ipv6 local policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_pbr [
<interface> ] [ <rmap> ] [ <status> ] [ <vrf_name> ] } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
local	IPv6 local options
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

Command Mode

- /exec

show ipv6 mld global traffic

```
show ipv6 [ icmp ] mld global traffic [ __readonly__ [ { TABLE_icmpv6_mld_stat <st-v1-queries>
<rv-v1-queries> <st-v2-queries> <rv-v2-queries> <st-v1-reports> <rv-v1-reports> <st-v2-reports>
<rv-v2-reports> <st-v1-leaves> <rv-v1-leaves> } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
global	Show ICMPv6 global variables
traffic	Display ICMPv6 software processed traffic statistics
__readonly__	(Optional)
TABLE_icmpv6_mld_stat	(Optional) ICMPv6 MLD Statistics
<i>st-v1-queries</i>	(Optional) V1 Queries sent
<i>rv-v1-queries</i>	(Optional) V1 Queries received
<i>st-v2-queries</i>	(Optional) V2 Queries sent
<i>rv-v2-queries</i>	(Optional) V2 Queries received
<i>st-v1-reports</i>	(Optional) V1 Reports sent
<i>rv-v1-reports</i>	(Optional) V1 Reports received
<i>st-v2-reports</i>	(Optional) V2 Reports sent
<i>rv-v2-reports</i>	(Optional) V2 Reports received
<i>st-v1-leaves</i>	(Optional) V1 Leaves sent
<i>rv-v1-leaves</i>	(Optional) V1 Leaves received

Command Mode

- /exec

show ipv6 mld groups

```
show ipv6 [ icmp ] mld groups [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <interface> ] [
summary ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf [ <if-name> ] [
<vrfname> ] [ <entry-count> ] [ <group-addr> ] [ <sourceaddress> ] [ TABLE_group [ <group-addr> ] [
<group-type> ] [ <if-name> ] [ <uptime> ] [ <expires> ] [ <reporter> ] [ TABLE_source [ <source-addr> ] [
<group-type> ] [ <translate> ] [ <if-name> ] [ <uptime> ] [ <expires> ] [ <reporter> ] ] ] [ <vrf-cntxt> ] [
<g-count> ] [ <sg-count> ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
groups	Display MLD attached group membership information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>interface</i>	(Optional) Display group membership on interface name
summary	(Optional) Display group summary
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrfname</i>	(Optional)
<i>if-name</i>	(Optional)
<i>group-addr</i>	(Optional)
<i>entry-count</i>	(Optional)
<i>sourceaddress</i>	(Optional)
TABLE_group	(Optional)
<i>group-addr</i>	(Optional)
<i>group-type</i>	(Optional)
<i>if-name</i>	(Optional)

<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>reporter</i>	(Optional)
TABLE_source	(Optional)
<i>source-addr</i>	(Optional)
<i>group-type</i>	(Optional)
<i>translate</i>	(Optional)
<i>if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>reporter</i>	(Optional)
<i>vrf-cntxt</i>	(Optional)
<i>g-count</i>	(Optional)
<i>sg-count</i>	(Optional)

Command Mode

- /exec

<i>ver</i>	(Optional)
TABLE_if	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>ip-sum</i>	(Optional)
<i>addr</i>	(Optional)
<i>querier</i>	(Optional)
<i>q-ver</i>	(Optional)
<i>next-query</i>	(Optional)
<i>expires</i>	(Optional)
<i>mc</i>	(Optional)
<i>ver</i>	(Optional)
<i>host-ver</i>	(Optional)
<i>qi</i>	(Optional)
<i>cqi</i>	(Optional)
<i>mrt</i>	(Optional)
<i>cmrt</i>	(Optional)
<i>sqi</i>	(Optional)
<i>csqi</i>	(Optional)
<i>sqc</i>	(Optional)
<i>lmmrt</i>	(Optional)
<i>lmqc</i>	(Optional)
<i>gt</i>	(Optional)
<i>cgt</i>	(Optional)
<i>qt</i>	(Optional)
<i>cqt</i>	(Optional)
<i>uri</i>	(Optional)
<i>rv</i>	(Optional)
<i>crv</i>	(Optional)

<i>rll</i>	(Optional)
<i>rc</i>	(Optional)
<i>il</i>	(Optional)
<i>report-policy</i>	(Optional)
<i>v2qs</i>	(Optional)
<i>v2qr</i>	(Optional)
<i>v2rs</i>	(Optional)
<i>v2rr</i>	(Optional)
<i>v2ls</i>	(Optional)
<i>v2lr</i>	(Optional)
<i>v3qs</i>	(Optional)
<i>v3qr</i>	(Optional)
<i>v3rs</i>	(Optional)
<i>v3rr</i>	(Optional)
<i>v2ggdest</i>	(Optional)
<i>v3ggdest</i>	(Optional)
<i>cse</i>	(Optional)
<i>ple</i>	(Optional)
<i>lsip</i>	(Optional)
<i>scf</i>	(Optional)
<i>qnq</i>	(Optional)
<i>rvm</i>	(Optional)
<i>qvm</i>	(Optional)
<i>uit</i>	(Optional)
<i>v2gdam</i>	(Optional)
<i>v3dai</i>	(Optional)
<i>ra</i>	(Optional)
<i>static-group-map</i>	(Optional)
<i>join-group-map</i>	(Optional)

Command Mode

- /exec

<i>host-proxy</i>	(Optional)
-------------------	------------

Command Mode

- /exec

show ipv6 mld snooping

```
show ipv6 mld snooping [ { vlan <vlan> | bridge-domain <bdid> } ] [ __readonly__ [ <vdc> ] [ <enabled> ]
[ <omf> ] [ <grepsup> ] [ <gv2repsup> ] [ <glinklocalgrpsup> ] { TABLE_vlan <vlan-id> [ <description> ]
[ <snoop-on> ] [ <qv> ] [ <qv> ] [ <qi> ] [ <qlmqi> ] [ <rv> ] [ <sq> ] [ <sqr> ] [ <eht> ] [ <fl> ] [ <repsup>
] [ <v2repsup> ] [ <vlinklocalgrpsup> ] [ <rpc> ] [ <gc> ] [ TABLE_active_ports [ <actvports> ] ] [ <lkupmode>
] [ <omf_enabled> ] [ <reportfloodenable> ] [ <reportfloodall> ] [ TABLE_intf <if-name> ] [
<leavegroupaddress> } } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
mld	Display Multicast Listener Discovery information
snooping	MLD Snooping information
vlan	(Optional) Display VLAN MLD snooping membership information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD MLD snooping membership information
<i>bdid</i>	(Optional) Specify BD
<i>__readonly__</i>	(Optional)
<i>vdc</i>	(Optional)
<i>enabled</i>	(Optional)
<i>omf</i>	(Optional)
<i>grepsup</i>	(Optional)
<i>gv2repsup</i>	(Optional)
<i>glinklocalgrpsup</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>description</i>	(Optional) description, if any
<i>snoop-on</i>	(Optional)
<i>qv</i>	(Optional)
<i>qi</i>	(Optional)
<i>qlmqi</i>	(Optional)

<i>rv</i>	(Optional)
<i>sq</i>	(Optional)
<i>sqr</i>	(Optional)
<i>eht</i>	(Optional)
<i>fl</i>	(Optional)
<i>repsup</i>	(Optional)
<i>v2repsup</i>	(Optional)
<i>vlinklocalgrpsup</i>	(Optional)
<i>rpc</i>	(Optional)
<i>gc</i>	(Optional)
TABLE_active_ports	(Optional)
<i>actyports</i>	(Optional)
<i>lkupmode</i>	(Optional)
<i>omf_enabled</i>	(Optional)
<i>reportfloodenable</i>	(Optional)
<i>reportfloodall</i>	(Optional)
TABLE_intf	(Optional)
<i>if-name</i>	(Optional)
<i>leavegroupaddress</i>	(Optional)

Command Mode

- /exec

<i>expires</i>	(Optional)
<i>version</i>	(Optional)
<i>num_of_reports</i>	(Optional)
<i>cfs-flag</i>	(Optional)
<i>native-flag</i>	(Optional)
<i>delete-pending</i>	(Optional)
<i>cfs-update-pending</i>	(Optional)

Command Mode

- /exec

show ipv6 mld snooping filter details

```
show ipv6 mld snooping filter [ vlan <vlan_id> ] details [ __readonly__ { TABLE_vlanid <vlan-id>
<access-group> <group-channels-limit> <mld-min-ver> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
mld	Display Multicast Listener Discovery information
snooping	MLD Snooping information
filter	Shows filter policy configuration
vlan	(Optional) Only for the specified VLAN
<i>vlan_id</i>	(Optional) VLAN ID
details	Shows different Filter configurations
<i>__readonly__</i>	(Optional)
TABLE_vlanid	(Optional)
<i>vlan-id</i>	(Optional)
<i>access-group</i>	(Optional)
<i>group-channels-limit</i>	(Optional)
<i>mld-min-ver</i>	(Optional)

Command Mode

- /exec

show ipv6 mld snooping groups

```
show ipv6 mld snooping [ otv | remote ] groups [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ vlan
<vlan> | bridge-domain <bdid> ] [ detail ] [ summary ] [ __readonly__ [ TABLE_vlan [ <vlan-id> ] [ <rports>
] [ <rtrPortFlag> ] [ TABLE_port <if-name> ] [ TABLE_rtrports <rport-if-name> ] [ <raddr> ] [ TABLE_source
<source> ] [ TABLE_group <addr> [ <g-mfdm> ] [ <ver> ] [ <old-host> ] [ <raddr> ] [ <static> ] [ <dynamic>
] [ TABLE_static_ports <static-if-name> ] [ TABLE_v2_ports <v2-if-name> [ <uptime> ] [ <expires> ] [
<gq-missed> ] ] [ TABLE_star_g_ports <star-g-if-name> [ <uptime> ] [ <expires> ] ] [ <g-vpc> ] [ <rsf> ] [
<js> ] [ TABLE_source <source> [ <srsf> ] [ <s-mfdm> ] [ <src-static> ] [ <src-dynamic> ] [
TABLE_src_static_ports <src-static-if-name> ] [ TABLE_src_dynamic [ <oifs> ] <dyn-if-name> [ <src-uptime>
] [ <src-expires> ] ] [ <s-vpc> ] ] ] [ <snoop-enabled> ] [ <omf-enabled> ] [ <group-count> ] [ <s-g-count>
] [ <total_star_g_count> ] [ <total_sg_count> ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
mld	Display Multicast Listener Discovery information
snooping	MLD Snooping information
otv	(Optional) MLD Snooping OTV information
remote	(Optional) MLD Snooping remote information
groups	Display snooping information for group address
summary	(Optional) Display snooping group summary
vlan	(Optional) Display VLAN MLD snooping membership information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD MLD snooping membership information
<i>bdid</i>	(Optional) Specify BD
detail	(Optional) Display detailed information for the group
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>rports</i>	(Optional)
<i>rtrPortFlag</i>	(Optional)
<i>snoop-enabled</i>	(Optional)
<i>omf-enabled</i>	(Optional)

<i>group-count</i>	(Optional)
<i>s-g-count</i>	(Optional)
<i>total_star_g_count</i>	(Optional)
<i>total_sg_count</i>	(Optional)
TABLE_port	(Optional)
<i>if-name</i>	(Optional)
TABLE_rtrports	(Optional)
<i>rport-if-name</i>	(Optional)
<i>raddr</i>	(Optional)
TABLE_group	(Optional)
<i>addr</i>	(Optional)
<i>ver</i>	(Optional)
<i>raddr</i>	(Optional)
TABLE_source	(Optional)
<i>source</i>	(Optional)
<i>rsf</i>	(Optional)
<i>js</i>	(Optional)
<i>g-mfdm</i>	(Optional)
<i>old-host</i>	(Optional)
<i>g-vpc</i>	(Optional)
<i>static</i>	(Optional)
<i>dynamic</i>	(Optional)
TABLE_static_ports	(Optional)
<i>static-if-name</i>	(Optional)
TABLE_v2_ports	(Optional)
<i>v2-if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>gq-missed</i>	(Optional)

TABLE_star_g_ports	(Optional)
<i>star-g-if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
TABLE_source	(Optional)
<i>source</i>	(Optional)
<i>srsf</i>	(Optional)
<i>s-mfdm</i>	(Optional)
<i>s-vpc</i>	(Optional)
<i>src-static</i>	(Optional)
<i>src-dynamic</i>	(Optional)
TABLE_src_static_ports	(Optional)
<i>src-static-if-name</i>	(Optional)
TABLE_src_dynamic	(Optional)
<i>oifs</i>	(Optional)
<i>dyn-if-name</i>	(Optional)
<i>src-uptime</i>	(Optional)
<i>src-expires</i>	(Optional)

Command Mode

- /exec

show ipv6 mld snooping lookup-mode

```
show ipv6 mld snooping lookup-mode [ vlan <vlan> | bridge-domain <bdid> ] [ __readonly__ [ <configured> ] [ <operational> ] [ TABLE_vlan [ <vlan-id> ] [ <lookup> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
mld	Display Multicast Listener Discovery information
snooping	MLD Snooping information
lookup-mode	MLD Snooping lkup mode information
vlan	(Optional) Display VLAN information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD information
<i>bdid</i>	(Optional) Specify BD
<i>__readonly__</i>	(Optional)
<i>configured</i>	(Optional)
<i>operational</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>lookup</i>	(Optional)

Command Mode

- /exec

show ipv6 mld snooping mrouter

```
show ipv6 mld snooping mrouter [ otv ] [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__
TABLE_vlan <vlan-id> TABLE_intf <if-name> <static> <dynamic> <vpc> <fabricpath-core-port>
<co-learned> <user-configured> <learnt-by-peer> <uptime> <expires> <internal> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
mld	Display Multicast Listener Discovery information
snooping	MLD Snooping information
mrouter	Display multicast routers detected
otv	(Optional) MLD Snooping OTV information
vlan	(Optional) Display VLAN multicast router information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD multicast router information
<i>bdid</i>	(Optional) Specify BD
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
TABLE_intf	(Optional)
<i>if-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>static</i>	(Optional)
<i>dynamic</i>	(Optional)
<i>internal</i>	(Optional)
<i>vpc</i>	(Optional)
<i>fabricpath-core-port</i>	(Optional)
<i>co-learned</i>	(Optional)

<i>user-configured</i>	(Optional)
<i>learnt-by-peer</i>	(Optional)

Command Mode

- /exec

show ipv6 mld snooping otv vlan brief

show ipv6 mld snooping otv vlan brief [__readonly__ <vlan-id>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
mld	Display Multicast Listener Discovery information
snooping	MLD Snooping information
otv	MLD Snooping OTV information
vlan	Display VLAN/BD information
brief	Brief output
__readonly__	(Optional)
<i>vlan-id</i>	(Optional)

Command Mode

- /exec

show ipv6 mld snooping pw vlan brief

show ipv6 mld snooping pw vlan brief [__readonly__ <vlan-id>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
mld	Display Multicast Listener Discovery information
snooping	MLD Snooping information
pw	MLD Snooping PW information
vlan	Display VLAN/BD information
brief	Brief output
__readonly__	(Optional)
<i>vlan-id</i>	(Optional)

Command Mode

- /exec

show ipv6 mld snooping querier

```
show ipv6 mld snooping querier [ vlan <vlan> | bridge-domain <bidid> ] [ detail ] [ __readonly__ [ TABLE_vlan
<vlan-id> <qa> <qv> [ <expires> ] <qiod> <qname> <int> [ <last_member_query_count> ] [
<config_last_member_query_count> ] [ <snooping_version> ] [ <config_qv> ] [ <robust> ] [ <config_robust>
] [ <startup_query_count> ] [ <config_startup_query_count> ] [ <startup_query_interval> ] [
<config_startup_query_interval> ] [ <mbr_query_interval> ] [ <config_mbr_query_interval> ] [
<snooping_query_intvl> ] [ <config_snooping_query_intvl> ] [ <gquery_response_time> ] [
<config_gquery_response_time> ] [ <querier_timeout> ] [ <querier_timeout_flag> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
mld	Display Multicast Listener Discovery information
snooping	MLD Snooping information
querier	Display snooping querier information
vlan	(Optional) Display VLAN MLD snooping querier information
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD MLD snooping querier information
<i>bidid</i>	(Optional) Specify BD
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>expires</i>	(Optional)
<i>qv</i>	(Optional)
<i>qiod</i>	(Optional)
<i>qname</i>	(Optional)
<i>int</i>	(Optional)
<i>last_member_query_count</i>	(Optional)
<i>config_last_member_query_count</i>	(Optional)
<i>snooping_version</i>	(Optional)
<i>config_qv</i>	(Optional)

<i>robust</i>	(Optional)
<i>config_robust</i>	(Optional)
<i>startup_query_count</i>	(Optional)
<i>config_startup_query_count</i>	(Optional)
<i>startup_query_interval</i>	(Optional)
<i>config_startup_query_interval</i>	(Optional)
<i>mbr_query_interval</i>	(Optional)
<i>config_mbr_query_interval</i>	(Optional)
<i>snooping_query_intvl</i>	(Optional)
<i>config_snooping_query_intvl</i>	(Optional)
<i>gquery_response_time</i>	(Optional)
<i>config_gquery_response_time</i>	(Optional)
<i>querier_timeout</i>	(Optional)
<i>querier_timeout_flag</i>	(Optional)

Command Mode

- /exec

show ipv6 mld snooping report statistics

```
show ipv6 mld snooping { report-policy | access-group } statistics [ vlan <vlan> ] [ __readonly__ [
TABLE_vlanid { <vlan-id> <rpm-type> <policy-name> } ] [ TABLE_filtervlanid { <filter-vlan-id>
<filter-policy-name> } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
mld	Display Multicast Listener Discovery information
snooping	MLD Snooping information
report-policy	MLD report policy
access-group	MLD access-group
statistics	Policy statistics
vlan	(Optional) Display VLAN MLD snooping policy statistics information
<i>vlan</i>	(Optional) Specify VLAN
<i>__readonly__</i>	(Optional)
TABLE_vlanid	(Optional)
<i>vlan-id</i>	(Optional)
<i>rpm-type</i>	(Optional)
<i>policy-name</i>	(Optional)
TABLE_filtervlanid	(Optional)
<i>filter-vlan-id</i>	(Optional)
<i>filter-policy-name</i>	(Optional)

Command Mode

- /exec

show ipv6 mld snooping statistics

```
show ipv6 mld snooping statistics [ global | vlan <vlan> | bridge-domain <bdid> ] [ __readonly__ [ <pr> ] [ <inv_pkt> ] [ <inv_pkt_bd> ] [ <inv_pkt_no_fd_vxlan> ] [ <pnv> ] [ <loopbkpkt> ] [ <mrdloopbk> ] [ <pf> ] [ <vpcdrqs> ] [ <vpcdrqr> ] [ <vpcdrqf> ] [ <vpcdrus> ] [ <vpcdrur> ] [ <vpcdruf> ] [ <vpccfsf> ] [ <vpccfsrs> ] [ <vpccfsrr> ] [ <vpccfsrf> ] [ <vpccfsrpf> ] [ <vpccfsurls> ] [ <vpccfsurlr> ] [ <vpccfsurlf> ] [ <vpccfsrls> ] [ <vpccfsrlr> ] [ <vpccfsrlf> ] [ <stptcnr> ] [ <imapif> ] [ <mfreqr> ] [ <mfcmpr> ] [ <inv_iod> ] [ <mfjgcmpr> ] [ <bufsnt> ] [ <bufackr> ] [ <vpemismatch> ] [ { TABLE_vlan [ <vlan-id> ] [ <ut> ] [ <vpr> ] [ <v1rr> ] [ <v2rr> ] [ <v1qr> ] [ <v2qr> ] [ <v2lr> ] [ <phr> ] [ <irr> ] [ <illgr> ] [ <iqr> ] [ <v1rs> ] [ <v2rs> ] [ <v2ls> ] [ <v2lsv1> ] [ <v3gs> ] [ <qo> ] [ <v2ro> ] [ <v2lo> ] [ <v3ro> ] [ <vpsr> ] [ <str> ] [ <vmr> ] [ <upr> ] [ <cps> ] [ <cpr> ] [ <cpe> ] [ <mps> ] [ <mpr> ] [ <mpe> ] [ <repflooded> ] [ <repfwded> ] [ <agd> ] [ <egd> ] [ <lvd> ] [ <qd> ] [ <pmr> ] } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
mld	Display Multicast Listener Discovery information
snooping	MLD Snooping information
statistics	Display packet/error counter statistics
global	(Optional) Display global statistics
vlan	(Optional) Display VLAN statistics
<i>vlan</i>	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD statistics
<i>bdid</i>	(Optional) Specify BD
<i>__readonly__</i>	(Optional)
<i>pr</i>	(Optional)
<i>inv_pkt</i>	(Optional)
<i>inv_pkt_bd</i>	(Optional)
<i>inv_pkt_no_fd_vxlan</i>	(Optional)
<i>pnv</i>	(Optional)
<i>loopbkpkt</i>	(Optional)
<i>mrdloopbk</i>	(Optional)
<i>pf</i>	(Optional)
<i>vpcdrqs</i>	(Optional)

<i>vpcdrqr</i>	(Optional)
<i>vpcdrqf</i>	(Optional)
<i>vpcdrus</i>	(Optional)
<i>vpcdrur</i>	(Optional)
<i>vpcdruf</i>	(Optional)
<i>vpccfssf</i>	(Optional)
<i>vpccfsrs</i>	(Optional)
<i>vpccfsrr</i>	(Optional)
<i>vpccfsrf</i>	(Optional)
<i>vpccfsrfp</i>	(Optional)
<i>vpccfsurls</i>	(Optional)
<i>vpccfsurlr</i>	(Optional)
<i>vpccfsurlf</i>	(Optional)
<i>vpccfsrls</i>	(Optional)
<i>vpccfsrlr</i>	(Optional)
<i>vpccfsrlf</i>	(Optional)
<i>stptcnr</i>	(Optional)
<i>imapif</i>	(Optional)
<i>mfreqr</i>	(Optional)
<i>mfcmps</i>	(Optional)
<i>inv_iod</i>	(Optional)
<i>mfdgcmps</i>	(Optional)
<i>bufsnt</i>	(Optional)
<i>bufackr</i>	(Optional)
<i>vpcmismatch</i>	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
<i>ut</i>	(Optional)
<i>vpr</i>	(Optional)

<i>v1rr</i>	(Optional)
<i>v2rr</i>	(Optional)
<i>v1qr</i>	(Optional)
<i>v2qr</i>	(Optional)
<i>v2lr</i>	(Optional)
<i>phr</i>	(Optional)
<i>irr</i>	(Optional)
<i>illgr</i>	(Optional)
<i>iqr</i>	(Optional)
<i>v1rs</i>	(Optional)
<i>v2rs</i>	(Optional)
<i>v2ls</i>	(Optional)
<i>v2lsv1</i>	(Optional)
<i>v3gs</i>	(Optional)
<i>vmr</i>	(Optional)
<i>upr</i>	(Optional)
<i>qo</i>	(Optional)
<i>v2ro</i>	(Optional)
<i>v2lo</i>	(Optional)
<i>v3ro</i>	(Optional)
<i>vpsr</i>	(Optional)
<i>str</i>	(Optional)
<i>cps</i>	(Optional)
<i>cpr</i>	(Optional)
<i>cpe</i>	(Optional)
<i>mps</i>	(Optional)
<i>mpr</i>	(Optional)
<i>mpe</i>	(Optional)
<i>repflooded</i>	(Optional)

<i>repfwded</i>	(Optional)
<i>agd</i>	(Optional)
<i>egd</i>	(Optional)
<i>lvd</i>	(Optional)
<i>qd</i>	(Optional)
<i>pmd</i>	(Optional)

Command Mode

- /exec

show ipv6 mroute

```
show ipv6 mroute [ [ [ bitfield ] [ detail ] ] | sr | rp | [ summary [ count | software-forwarded | rpf-failed ] ] | {
[ [ <source> <group> ] | [ <group> [ <source> ] ] ] [ shared-tree | source-tree | mofrr ] [ [ flags ] | [ detail ] | [
bitfield ] | [ summary [ software-forwarded | rpf-failed ] ] ] } ] [ vrf { <vrf-name> | <vrf-known-name> | all
} ] [ __readonly__ TABLE_vrf <vrf-name> [ <expiry_timer> ] [ <route_count> ] [ <star_g_cnt> ] [ <sg_cnt>
] [ <star_g_prfx_cnt> ] [ TABLE_route_summary [ <total-num-routes> ] [ <star-g-route> ] [ <sg-route> ] [
<star-g-prfx> ] [ <group-count> ] [ <avg> ] [ <rem> ] [ <stats-pndg> ] ] [ TABLE_summary_source [
<group_addr> ] [ <group_mask_len> ] [ <source_count> ] [ TABLE_one_sg [ <source_addr> ] [ <packets>
] [ <bytes> ] [ <aps> ] [ <pps> ] [ <rate_buf> ] [ <oifs> ] [ <software_fwd> ] [ <rpf-failed-pkts> ] [
<rpf-failed-bytes> ] ] ] [ TABLE_one_route <mcast-addr> [ <source_addr> <group_addr> ] [ <pending>
] [ <bidir> ] [ <uptime> ] [ <uptime_detailed> ] [ <mofrr> ] [ <vxlan-dci-core> ] [ <vxlan-src-dci-remote> ]
[ <vxlan-src-vip> ] [ TABLE_mpib [ <mpib-name> ] [ <oif-count> ] [ <stale-route> ] ] [ <mdt-encap-index>
] [ <stats-pkts> ] [ <stats-bytes> ] [ <stats-rate-buf> ] [ <lisp-src-rloc> ] [ <nat-mode> ] [ <nat-route-type> ]
[ <route-iif> ] [ <rpf-nbr> ] [ <mofrr-iif> ] [ <mofrr-nbr> ] [ <internal> ] [ <oif-count> ] [ <fabric-oif> ] [
<fabric-loser> ] [ <num-vpc-svi-oifs> ] [ TABLE_oif [ <oif-name> ] [ <oif-uptime> ] [ <oif-uptime-detailed>
] [ TABLE_oif_mpib [ <oif-mpib-name> ] [ <stale-oif> ] [ <omd-vpc-svi> ] [ <core-interest> ] [
<fabric-interest> ] ] [ <rpf> ] ] [ <route-mdt-iod> ] [ <oif-list-bitfield> ] [ <sr-count> ] [ TABLE_sr [
<translated-route-src> ] [ <translated-route-grp> ] [ <udp-src-port> ] [ <udp-dst-port> ] [ <sr-oif> ] ] ] [
TABLE_extranet [ <extranet_vrf_name> ] [ <extranet_addr> ] [ <extranet_oif_count> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mroute	Display IP multicast routing table
summary	(Optional) Display route counts and packet rates
shared-tree	(Optional) Display route for *,G entries
source-tree	(Optional) Display route for S,G entries
software-forwarded	(Optional) Display software switched route counts only
rpf-failed	(Optional) Display RPF failure statistics
rp	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
sr	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
mofrr	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

count	(Optional) Display route counts only
bitfield	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
detail	(Optional) Display detailed route attributes
flags	(Optional) Display detailed route attributes
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name	(Optional)
expry_timer	(Optional)
route_count	(Optional)
star_g_cnt	(Optional)
sg_cnt	(Optional)
star_g_prfx_cnt	(Optional)
TABLE_summary_source	(Optional)
group_addr	(Optional)
group_mask_len	(Optional)
source_count	(Optional)
TABLE_one_sg	(Optional)
source_addr	(Optional)
packets	(Optional)
bytes	(Optional)
aps	(Optional)
pps	(Optional)
rate_buf	(Optional)
oifs	(Optional)
software_fwd	(Optional)
rpf-failed-pkts	(Optional)
rpf-failed-bytes	(Optional)
TABLE_one_route	(Optional)
mcast-addrs	(Optional)

<i>source_addrs</i>	(Optional)
<i>group_addrs</i>	(Optional)
<i>bidir</i>	(Optional)
<i>pending</i>	(Optional)
<i>mofrr</i>	(Optional)
<i>uptime</i>	(Optional)
<i>vlan-dci-core</i>	(Optional)
<i>vlan-src-dci-remote</i>	(Optional)
<i>vlan-src-vipr</i>	(Optional)
<i>uptime_detailed</i>	(Optional)
TABLE_mpib	(Optional)
<i>mpib-name</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>stale-route</i>	(Optional)
<i>mdt-encap-index</i>	(Optional)
<i>stats-pkts</i>	(Optional)
<i>stats-bytes</i>	(Optional)
<i>stats-rate-buf</i>	(Optional)
<i>lisp-src-rloc</i>	(Optional)
<i>nat-mode</i>	(Optional)
<i>nat-route-type</i>	(Optional)
<i>route-iif</i>	(Optional)
<i>rpf-nbr</i>	(Optional)
<i>mofrr-iif</i>	(Optional)
<i>mofrr-nbr</i>	(Optional)
<i>internal</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>fabric-oif</i>	(Optional)
<i>fabric-loser</i>	(Optional)

<i>num-vpc-svi-oifs</i>	(Optional)
TABLE_oif	(Optional)
<i>oif-name</i>	(Optional)
<i>oif-uptime</i>	(Optional)
<i>oif-uptime-detailed</i>	(Optional)
TABLE_oif_mpib	(Optional)
<i>oif-mpib-name</i>	(Optional)
<i>stale-oif</i>	(Optional)
<i>omd-vpc-svi</i>	(Optional)
<i>core-interest</i>	(Optional)
<i>fabric-interest</i>	(Optional)
<i>rpf</i>	(Optional)
<i>route-mdt-iod</i>	(Optional)
<i>oif-list-bitfield</i>	(Optional)
TABLE_route_summary	(Optional)
<i>total-num-routes</i>	(Optional)
<i>star-g-route</i>	(Optional)
<i>sg-route</i>	(Optional)
<i>star-g-prfx</i>	(Optional)
<i>group-count</i>	(Optional)
<i>avg</i>	(Optional)
<i>rem</i>	(Optional)
<i>stats-pndg</i>	(Optional)
<i>sr-count</i>	(Optional)
TABLE_sr	(Optional)
<i>translated-route-src</i>	(Optional)
<i>translated-route-grp</i>	(Optional)
<i>udp-src-port</i>	(Optional)
<i>udp-dst-port</i>	(Optional)

<i>sr-oif</i>	(Optional)
TABLE_extranet	(Optional)
<i>extranet_vrf_name</i>	(Optional)
<i>extranet_addr</i>	(Optional)
<i>extranet_oif_count</i>	(Optional)

Command Mode

- /exec

show ipv6 mtu

```
show ipv6 mtu [ statistics | vrf { <vrf-name> | <vrf-known-name> | all [ detail ] } ] [ __readonly__ [
TABLE_mtu_stat <out-ent> <exp-ent> <purge-ent> <int-err> <pkt-too-big> <cache-miss> <cache-upd>
<mtu-small> <cache-no-upd> ] [ TABLE_mtu_vrf [ <tot-ipv6-mtu> ] [ TABLE_one_mtu [ <pmtu-entxt> ]
[ { <mtu-ipv6> <mtu-cache> <up-time> <iod-lcache> } ] ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
mtu	Display IPV6 Path MTU Cache
statistics	(Optional) Display non-TCP Path MTU Statistics
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_mtu_stat	(Optional) mtu statistic table
<i>out-ent</i>	(Optional) outstanding entries
<i>exp-ent</i>	(Optional) expired entries
<i>purge-ent</i>	(Optional) purge entries
<i>int-err</i>	(Optional) internal entries
<i>pkt-too-big</i>	(Optional) packets too big meassages received
<i>cache-miss</i>	(Optional) cache misses
<i>cache-upd</i>	(Optional) cache updates
<i>mtu-small</i>	(Optional) too small mtu advertised
<i>cache-no-upd</i>	(Optional) cache no update
TABLE_mtu_vrf	(Optional) MTU vrf table
<i>tot-ipv6-mtu</i>	(Optional) total ipv6 mtu messages
TABLE_one_mtu	(Optional) MTU table

<i>pmtu-cntxt</i>	(Optional) pmtu context
<i>mtu-cache</i>	(Optional) mtu cache
<i>up-time</i>	(Optional) up time
<i>iod-lcache</i>	(Optional) iod lcache

Command Mode

- /exec

show ipv6 multicast vrf

```
show ipv6 multicast vrf [ <vrf-name> | <vrf-known-name> | all ] [ detail ] [ __readonly__ <vrf-count> [ {
TABLE_vrf <vrf-name> <cid> <tid> <rc> <gc> <sc> <star_gc> <state> [ <multipath-configuration> ] [
<mrrib-cc-timer-left> ] [ <mrrib-stats-timer-left> ] [ <mrrib-mfdm-timer-left> ] [ <mrrib-lisp-timer-left> ] [
<sr-interface> ] [ <resilient> ] [ TABLE_RPF_SELECT <rpf-ip> <rpf-ip-mask> <rpf-vrf> ] [
<global-mcast-bndry> ] [ <dc-mcast> ] } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
multicast	Display multicast routing info
vrf	Display information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
<i>vrf-count</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>cid</i>	(Optional)
<i>tid</i>	(Optional)
<i>rc</i>	(Optional)
<i>gc</i>	(Optional)
<i>sc</i>	(Optional)
<i>star_gc</i>	(Optional)
<i>state</i>	(Optional)
<i>multipath-configuration</i>	(Optional)
<i>mrrib-cc-timer-left</i>	(Optional)
<i>mrrib-stats-timer-left</i>	(Optional)
<i>mrrib-mfdm-timer-left</i>	(Optional)

<i>mrrib-lisp-timer-left</i>	(Optional)
<i>sr-interface</i>	(Optional)
<i>resilient</i>	(Optional)
TABLE_RPF_SELECT	(Optional)
<i>rpf-ip</i>	(Optional)
<i>rpf-ip-mask</i>	(Optional)
<i>rpf-vrf</i>	(Optional)
<i>global-mcast-bndry</i>	(Optional)
<i>dci-mcast</i>	(Optional)

Command Mode

- /exec

show ipv6 nd ra dns search-list

```
show ipv6 nd ra dns search-list [ interface <interface> ] [ __readonly__ { TABLE_intf <intf_name>
<dns_supress_server_list> [ { TABLE_list <list_no> <list_name> [ { <finite> | <infinite> } ] <seq_no> } ]
} ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
search-list	DNS Search List
interface	(Optional) Display DNS Search List information on interface
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_intf	(Optional) IPV6 Interface name
<i>intf_name</i>	(Optional) Interface name
<i>dns_supress_server_list</i>	(Optional) DNS Supress server list
TABLE_list	(Optional) Search list
<i>list_no</i>	(Optional) Search list number
<i>list_name</i>	(Optional) Search list name
<i>finite</i>	(Optional) Search list life time
<i>infinite</i>	(Optional) Search list infinte time
<i>seq_no</i>	(Optional) Search list sequence number

Command Mode

- /exec

show ipv6 nd ra dns server

```
show ipv6 nd ra dns server [ interface <interface> ] [ __readonly__ [ { TABLE_intf_name [ <inf-name> ] } ] ] [ { TABLE_intf [ <dns-recursion-server-list> ] [ <dns-suppression-server-list> ] [ { TABLE_dns_server [ <dns-server-index> ] [ <dns-server-list> ] [ <lifetime> ] [ <second-seqno> ] } ] ] [ { TABLE_dns_seq [ <dns-server> ] [ <dns-addr> ] [ <infinite-seq-no> ] } ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
server	Domain Name System Server
interface	(Optional) Display Recursive DNS Server List information on interface
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_intf_name	(Optional) interface table
<i>inf-name</i>	(Optional) interface name
TABLE_intf	(Optional)
<i>dns-recursion-server-list</i>	(Optional) DNS recursion server list
<i>dns-suppression-server-list</i>	(Optional) DNS suppression server list
TABLE_dns_server	(Optional) DNS server table
<i>dns-server-index</i>	(Optional) dns server index
<i>dns-server-list</i>	(Optional) dns server list
<i>lifetime</i>	(Optional) server lifetime
<i>second-seqno</i>	(Optional) second sequence number
TABLE_dns_seq	(Optional) DNS sequence table
<i>dns-server</i>	(Optional) dns server
<i>dns-addr</i>	(Optional) dns address
<i>infinite-seq-no</i>	(Optional) infinite sequence number

Command Mode

- /exec

show ipv6 nd raguard policy

```
show ipv6 nd raguard policy [ <name> ] [ __readonly__ { TABLE_raguard_policy <policy> [ <port_type>
] <device_role> [ <min_hop_limit> ] [ <max_hop_limit> ] [ <mgd_conf_flag> ] [ <other_conf_flag> ] [
<rtr_pref_max> ] [ <ra_prefix_list> ] [ <ipv6_acl> ] [ { TABLE_raguard_targets <target> <target_type>
<target_policy> <feature> <target_range> } } ]
```

Syntax Description

<i>name</i>	(Optional) Policy name for feature RA guard
<i>__readonly__</i>	(Optional)
TABLE_raguard_policy	(Optional) IPv6 RA guard policy
<i>policy</i>	(Optional) Policy Name
<i>port_type</i>	(Optional) Port type
<i>device_role</i>	(Optional) Device role
<i>min_hop_limit</i>	(Optional) Minimum hop limit
<i>max_hop_limit</i>	(Optional) Minimum hop limit
<i>mgd_conf_flag</i>	(Optional) Check managed config flag
<i>other_conf_flag</i>	(Optional) Check other config flag
<i>rtr_pref_max</i>	(Optional) Router-preference maximum
<i>ra_prefix_list</i>	(Optional) Match RA prefix list
<i>ipv6_acl</i>	(Optional) Match IPv6 access list
TABLE_raguard_targets	(Optional) RA Guard Targets table
<i>target</i>	(Optional) Target Name
<i>target_type</i>	(Optional) Target Type
<i>target_policy</i>	(Optional) Policy Name
<i>feature</i>	(Optional) Feature
<i>target_range</i>	(Optional) Target Range

Command Mode

- /exec

show ipv6 nd suppression-cache

```
show ipv6 nd suppression-cache { detail [ vlan <vlan_id> ] | summary | statistics | vlan <vlan_id> | local [
vlan <vlan_id> ] | remote [ vlan <vlan_id> ] } [ __readonly__ TABLE_nd-suppression [ TABLE_entries
<ipv6-addr> <age> <mac> <vlan> <physical-iod> <flag> [ <remote-vtep-addr> | <remote-vtep-v6addr> ] ]
[ TABLE_summary <remote-count> <local-count> <total-count> ] [ TABLE_statistics <total-suppressed>
<requests> <replies> <ns-flood-to-bd> <total-recv> <recv-ns> <recv-nonlocal-ns> <recv-nonlocal-na>
<total-mobility> <remote-to-local> <local-to-remote> <remote-to-remote> <signal-refresh> <adds> <dels>
] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
suppression-cache	nd-suppression-cache
detail	show details
summary	show summary
statistics	show statistics
local	show local entries
remote	show remote entries
vlan	(Optional) L2vlan
<i>vlan_id</i>	(Optional) Vlan
<i>__readonly__</i>	(Optional)
TABLE_nd-suppression	(Optional) IPv6 ND suppression-cache
TABLE_entries	(Optional) IPv6 ND suppression entries
<i>age</i>	(Optional) Age
<i>mac</i>	(Optional) MAC address
<i>vlan</i>	(Optional) vlan id
<i>physical-iod</i>	(Optional) Physical iod
<i>flag</i>	(Optional) Flags
<i>remote-vtep-addr</i>	(Optional) Remote Vtep Address
TABLE_summary	(Optional) IP ND suppression-cache Summary
<i>remote-count</i>	(Optional) Remote count

<i>local-count</i>	(Optional) Local count
<i>total-count</i>	(Optional) Total count
TABLE_statistics	(Optional) IP ND suppression-cache Statistics
<i>total-suppressed</i>	(Optional) ND suppression Suppressed
<i>requests</i>	(Optional) ND suppression Requests
<i>replies</i>	(Optional) ND suppression Replies
<i>ns-flood-to-bd</i>	(Optional) ND suppression NS flood to bd
<i>total-recv</i>	(Optional) Total
<i>recv-ns</i>	(Optional) ND suppression recv ns
<i>recv-nonlocal-ns</i>	(Optional) ND suppression recv nonlocal ns
<i>recv-nonlocal-na</i>	(Optional) ND suppression recv nonlocal na
<i>total-mobility</i>	(Optional) Total
<i>remote-to-local</i>	(Optional) ND suppression remote to local
<i>local-to-remote</i>	(Optional) ND suppression local to remote
<i>remote-to-remote</i>	(Optional) ND suppression remote to remote
<i>signal-refresh</i>	(Optional) ND suppression RARP signal refresh
<i>adds</i>	(Optional) Adds
<i>dels</i>	(Optional) Deletes

Command Mode

- /exec

show ipv6 neighbor binding

```
show ipv6 neighbor binding [ { { vlan <vlanid> [ details ] } | { { address { <ipv6-addr> | all } } { interface <intfid> vlan <vlanid> [ details ] } }
```

Syntax Description

<i>intfid</i>	(Optional) [details]
show	Show running system information
ipv6	Show the IPv6 features of the system
<i>vlanid</i>	(Optional) Vlan number

Command Mode

- /exec

show ipv6 neighbor binding mac

```
show ipv6 neighbor binding mac <macaddr> { interface <intfid> vlan <vlanid> [ details ] |
```

Syntax Description

<i>intfid</i>	[details]
show	Show running system information
ipv6	Show the IPv6 features of the system
<i>macaddr</i>	48-bit hardware address
<i>vlanid</i>	Vlan number

Command Mode

- /exec

show ipv6 neighbor static

```
show ipv6 neighbor static [ interface <interface> ] [ __readonly__ [ TABLE_i6_nei { <nei-ipv6> <nei-mac>
<nei-iod> <nei-if-iod> } ] [ <tot-nei-ent> ] [ TABLE_nei_cnt { <nei-ipv6-tot> <nei-mac-tot> <nei-iod-tot>
<nei-if-iod-tot> } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
neighbor	Show IPv6 neighbor entry
static	Displays only static neighbors
interface	(Optional) Display IPv6 related interface information
<i>interface</i>	(Optional) Interface name to display
<i>__readonly__</i>	(Optional)
TABLE_i6_nei	(Optional) ipv6 neighbor table
<i>nei-mac</i>	(Optional) neighbor mac address
<i>nei-iod</i>	(Optional) neighbor iod
<i>nei-if-iod</i>	(Optional) neighbor interface iod
<i>tot-nei-ent</i>	(Optional) total neighbor entries
TABLE_nei_cnt	(Optional) neighbor count table
<i>nei-mac-tot</i>	(Optional) neighbor mac address
<i>nei-iod-tot</i>	(Optional) neighbor iod
<i>nei-if-iod-tot</i>	(Optional) neighbor physical interface iod

Command Mode

- /exec

show ipv6 pim df

```
show ipv6 pim df [ <rp-or-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [ __readonly__ ]
[ TABLE_ctx [ <out-context> ] ] [ TABLE_rp [ <rp-addr> ] [ <df-ordinal> ] [ <df-bits> ] [ <df-bits-count> ]
[ <metric-pref> ] [ <metric> ] [ TABLE_grange [ <grange-grp> ] [ <grange-masklen> ] ] [ TABLE_iod [
<if-name> ] [ <df-winner> ] [ <df-state> ] [ <winner-metric-pref> ] [ <winner-metric> ] [ <uptime> ] [ <is-rpf>
]]]]]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
df	Display Bidir Designated Forwarders
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	(Optional) Commands for internal use
<i>__readonly__</i>	(Optional)
TABLE_ctx	(Optional)
<i>out-context</i>	(Optional)
TABLE_rp	(Optional)
<i>df-ordinal</i>	(Optional)
<i>df-bits</i>	(Optional)
<i>df-bits-count</i>	(Optional)
<i>metric-pref</i>	(Optional)
<i>metric</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-masklen</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>df-state</i>	(Optional)

<i>winner-metric-pref</i>	(Optional)
<i>winner-metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>is-rpf</i>	(Optional)

Command Mode

- /exec

show ipv6 pim fabric info

```
show ipv6 pim fabric info [ __readonly__ <switch_role> <fabric_ctrl_addr> <peer_fabric_ctrl_infra>
<vpc_domain_id> <peer_fabric_ctrl_addr> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
fabric	Fabric functionality
info	show the fabric info
<i>__readonly__</i>	(Optional)
<i>switch_role</i>	(Optional)
<i>fabric_ctrl_addr</i>	(Optional)
<i>peer_fabric_ctrl_infra</i>	(Optional)
<i>vpc_domain_id</i>	(Optional)
<i>peer_fabric_ctrl_addr</i>	(Optional)

Command Mode

- /exec

show ipv6 pim fabric legacy-vlans

show ipv6 pim fabric legacy-vlans [__readonly__ TABLE_legacy_vlan <vlan_id>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
fabric	Fabric functionality
legacy-vlans	Show legacy VLANs on this switch
__readonly__	(Optional)
TABLE_legacy_vlan	(Optional)
vlan_id	(Optional)

Command Mode

- /exec

show ipv6 pim interface

```
show ipv6 pim interface [ <interface> ] [ brief ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ]
[ __readonly__ [ <is-pim-enabled> ] [ TABLE_vrf [ <out-context> ] [ TABLE_brief [ <if-name> ] [ <if-addr>
] [ <if-dr> ] [ <if-nbr-count> ] [ <if-is-border> ] ] [ TABLE_iod [ <if-name> ] [ <if-status> ] [
<cached_if_status> ] [ <if-addr-summary> ] [ <pim-dr-address> ] [ <dr-priority> ] [ <no-dr-priority> ] [
<nbr-cnt> ] [ <hello-interval-sec> ] [ <hello-interval-msec> ] [ <hello-timer> ] [ <holdtime-msec> ] [
<holdtime-sec> ] [ <if-conf-dr-priority> ] [ <if-conf-delay> ] [ <is-border> ] [ <genid> ] [ <isauth-config> ]
[ <nbr-policy-name> ] [ <jp-in-policy-name> ] [ <jp-out-policy-name> ] [ <jp-interval> ] [ <jp-next-send> ]
[ <pim-bfd-enabled> ] [ <is-passive> ] [ <is-pim-vpc-svi> ] [ <is-auto-enabled> ] [ <vpc-peer-nbr> ] [
<last-cleared> ] [ <hello-sent> ] [ <hello-rcvd> ] [ <hello-early-sent> ] [ <jp-sent> ] [ <jp-rcvd> ] [ <assert-sent>
] [ <assert-rcvd> ] [ <graft-sent> ] [ <graft-rcvd> ] [ <graft-ack-sent> ] [ <graft-ack-rcvd> ] [ <df-offer-sent>
] [ <df-offer-rcvd> ] [ <df-winner-sent> ] [ <df-winner-rcvd> ] [ <df-backoff-sent> ] [ <df-backoff-rcvd> ] [
<pass-sent> ] [ <pass-rcvd> ] [ <cksum-errors> ] [ <invalid-errors> ] [ <invalid-df-errors> ] [ <auth-failed>
] [ <pak-len-errors> ] [ <ver-errors> ] [ <pkts-self> ] [ <pkts-non-nbr> ] [ <pkts-on-passive> ] [ <jp-rcvd-on-rpf>
] [ <jp-rcvd-no-rp> ] [ <jp-rcvd-wrong-rp> ] [ <jp-rcvd-for-ssm> ] [ <jp-rcvd-for-bidir> ] [ <jp-in-policy-filter>
] [ <jp-out-policy-filter> ] [ <ecmp-redirect-sent> ] [ <ecmp-redirect-rcvd> ] [ <is-border-router> ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
interface	Display PIM6 interface related information
<i>interface</i>	(Optional) Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
<i>is-pim-enabled</i>	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_brief	(Optional)
<i>if-name</i>	(Optional)

<i>if-addr</i>	(Optional)
<i>if-dr</i>	(Optional)
<i>if-nbr-count</i>	(Optional)
<i>if-is-border</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>if-status</i>	(Optional)
<i>cached_if_status</i>	(Optional)
<i>if-addr-summary</i>	(Optional)
<i>pim-dr-address</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</i>	(Optional)
<i>nbr-cnt</i>	(Optional)
<i>hello-interval-sec</i>	(Optional)
<i>hello-interval-msec</i>	(Optional)
<i>hello-timer</i>	(Optional)
<i>holdtime-msec</i>	(Optional)
<i>holdtime-sec</i>	(Optional)
<i>if-conf-dr-priority</i>	(Optional)
<i>if-conf-delay</i>	(Optional)
<i>is-border</i>	(Optional)
<i>genid</i>	(Optional)
<i>isauth-config</i>	(Optional)
<i>nbr-policy-name</i>	(Optional)
<i>jp-in-policy-name</i>	(Optional)
<i>jp-out-policy-name</i>	(Optional)
<i>jp-interval</i>	(Optional)
<i>jp-next-send</i>	(Optional)
<i>pim-bfd-enabled</i>	(Optional)

<i>is-passive</i>	(Optional)
<i>is-pim-vpc-svi</i>	(Optional)
<i>is-auto-enabled</i>	(Optional)
<i>vpc-peer-nbr</i>	(Optional)
<i>last-cleared</i>	(Optional)
<i>hello-sent</i>	(Optional)
<i>hello-rcvd</i>	(Optional)
<i>hello-early-sent</i>	(Optional)
<i>jp-sent</i>	(Optional)
<i>jp-rcvd</i>	(Optional)
<i>assert-sent</i>	(Optional)
<i>assert-rcvd</i>	(Optional)
<i>graft-sent</i>	(Optional)
<i>graft-rcvd</i>	(Optional)
<i>graft-ack-sent</i>	(Optional)
<i>graft-ack-rcvd</i>	(Optional)
<i>df-offer-sent</i>	(Optional)
<i>df-offer-rcvd</i>	(Optional)
<i>df-winner-sent</i>	(Optional)
<i>df-winner-rcvd</i>	(Optional)
<i>df-backoff-sent</i>	(Optional)
<i>df-backoff-rcvd</i>	(Optional)
<i>pass-sent</i>	(Optional)
<i>pass-rcvd</i>	(Optional)
<i>cksum-errors</i>	(Optional)
<i>invalid-errors</i>	(Optional)
<i>invalid-df-errors</i>	(Optional)
<i>auth-failed</i>	(Optional)
<i>pak-len-errors</i>	(Optional)

<i>ver-errors</i>	(Optional)
<i>pkts-self</i>	(Optional)
<i>pkts-non-nbr</i>	(Optional)
<i>pkts-on-passive</i>	(Optional)
<i>jp-rcvd-on-rpf</i>	(Optional)
<i>jp-rcvd-no-rp</i>	(Optional)
<i>jp-rcvd-wrong-rp</i>	(Optional)
<i>jp-rcvd-for-ssm</i>	(Optional)
<i>jp-rcvd-for-bidir</i>	(Optional)
<i>jp-in-policy-filter</i>	(Optional)
<i>jp-out-policy-filter</i>	(Optional)
<i>ecmp-redirect-sent</i>	(Optional)
<i>ecmp-redirect-rcv</i>	(Optional)
<i>is-border-router</i>	(Optional)

Command Mode

- /exec

show ipv6 pim mdt

```
show ipv6 pim mdt [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <out_context>
<mti> <mti_status> <default_mdt_grp> <grp_mode> <asm_shared_tree> <mti_config_mtu> <mti_active_mtu>
<cfg_tunnel_src_if> <bgp_update_src_if> <hello_interval> <jp_interval> <data_mdt_join_interval>
<data_switchover_interval> <data_holddown_interval> <data_timeout_interval> <mdt_src> <mdt_src_if>
<bgp_rd> <bgp_rd_set> <send_join_count> <rcvd_join_count> { TABLE_data_mdt <grange_prefix>
<grange_mask_len> <threshold> [ <policy_name> ] } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
mdt	Display MDT information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
<i>mti</i>	(Optional)
<i>mti_status</i>	(Optional)
<i>grp_mode</i>	(Optional)
<i>asm_shared_tree</i>	(Optional)
<i>mti_config_mtu</i>	(Optional)
<i>mti_active_mtu</i>	(Optional)
<i>cfg_tunnel_src_if</i>	(Optional)
<i>bgp_update_src_if</i>	(Optional)
<i>hello_interval</i>	(Optional)
<i>jp_interval</i>	(Optional)
<i>data_mdt_join_interval</i>	(Optional)

<i>data_switchover_interval</i>	(Optional)
<i>data_holddown_interval</i>	(Optional)
<i>data_timeout_interval</i>	(Optional)
<i>mdt_src_if</i>	(Optional)
<i>bgp_rd</i>	(Optional)
<i>bgp_rd_set</i>	(Optional)
<i>send_join_count</i>	(Optional)
<i>rcvd_join_count</i>	(Optional)
TABLE_data_mdt	(Optional)
<i>grange_mask_len</i>	(Optional)
<i>threshold</i>	(Optional)
<i>policy_name</i>	(Optional)

Command Mode

- /exec

show ipv6 pim mdt bgp

```
show ipv6 pim mdt bgp [ mdt-source <src-addr> ] [ __readonly__ { TABLE_entry <bgp_rd> <mdt_src>
<mdt_grp> <local> } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
mdt	Display MDT information
bgp	Display BGP related information
mdt-source	(Optional) Source address of MVPN neighbor
__readonly__	(Optional)
TABLE_entry	(Optional)
<i>bgp_rd</i>	(Optional)
<i>local</i>	(Optional)

Command Mode

- /exec

show ipv6 pim mdt history interval

```
show ipv6 pim mdt history interval <min> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
mdt	Display MDT information
history	Display MDT Data Join Send Histoy
interval	Display in specified interval
<i>min</i>	Minutes
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>uptime</i>	(Optional)
<i>send_count</i>	(Optional)

Command Mode

- /exec

show ipv6 pim mdt receive

```
show ipv6 pim mdt receive [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
[ <out_context> ] [ TABLE_entry [ <csrc> ] [ <cgrp> ] [ <psrc> ] [ <pgrp> ] [ <uptime> ] [ <expires> ] [
<rcv_count> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
mdt	Display MDT information
receive	Display Received Data Joins Information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>uptime</i>	(Optional)
<i>expires</i>	(Optional)
<i>rcv_count</i>	(Optional)

Command Mode

- /exec

show ipv6 pim mdt send

```
show ipv6 pim mdt send [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
mdt	Display MDT information
send	Display MDT Data Join Send Information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out_context</i>	(Optional)
TABLE_entry	(Optional)
<i>uptime</i>	(Optional)
<i>send_count</i>	(Optional)

Command Mode

- /exec

show ipv6 pim neighbor

```
show ipv6 pim neighbor { [ <interface> ] | [ <address> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
detail | internal ] [ __readonly__ [ TABLE_vrf <out-context> [ TABLE_neighbor
<nbr-addr><if-name><uptime><expires> [ <dr-priority> ] <bidir-capable><bfd-state> [
<longest-hello-intvl><non-hello-pkts> ] [ <ecmp-redirect-capable> ] [ TABLE_secondary <sec-addr> ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
neighbor	Display PIM6 neighbor related information
<i>interface</i>	(Optional) Display neighbors on single interface name
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
internal	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_neighbor	(Optional)
<i>dr-priority</i>	(Optional)
<i>ecmp-redirect-capable</i>	(Optional)
TABLE_secondary	(Optional)

Command Mode

- /exec

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

Command Mode

- /exec

show ipv6 pim policy statistics jp

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

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	PIM6 global configuration commands
policy	Policy related information
statistics	Policy statistics
jp-policy	Statistics for jp-policy
neighbor-policy	Statistics for neighbor-policy
<i>interface</i>	Interface to display policy statistics for
<i>__readonly__</i>	(Optional)
TABLE_routemap	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq_num</i>	(Optional)
TABLE_cmd	(Optional)
<i>command</i>	(Optional)
<i>compare_count</i>	(Optional)
<i>match_count</i>	(Optional)
<i>total_accept_count</i>	(Optional)
<i>total_reject_count</i>	(Optional)

Command Mode

- /exec

show ipv6 pim route

```
show ipv6 pim route [ [ <source> [ <group> ] ] | [ <group> [ <source> ] ] ] [ bitfield ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf [ <context-name> ] [ <route-count> ] [ TABLE_one_route [ <mcast-addr> ] [ <rp-addr> ] [ <rp-local> ] [ <bidir> ] [ <sgexpire> ] [ <sgexpire> ] [ <timeleft> ] [ <rp-bit> ] [ <register> ] [ <intf-name> ] [ <rpf-nbr-1> ] [ <rpf-nbr-addr> ] [ <oif-count> ] [ <oif-bf-str> ] [ <timeout-count> ] [ <timeout-bf-str> ] [ <immediate-count> ] [ <immediate-bf-str> ] [ <immediate-timeout-count> ] [ <immediate-timeout-bf-str> ] [ <sgr-prune-list-count> ] [ <sgr-prune-list-bf-str> ] [ <timeout-interval> ] [ <jp-holdtime-rndup> ] [ <mdt-encap-index> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
route	Display PIM6 specific route information
bitfield	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>context-name</i>	(Optional)
<i>route-count</i>	(Optional)
TABLE_one_route	(Optional)
<i>mcast-addr</i>	(Optional)
<i>rp-addr</i>	(Optional)
<i>rp-local</i>	(Optional)
<i>bidir</i>	(Optional)
<i>sgexpire</i>	(Optional)
<i>sgexpire</i>	(Optional)
<i>timeleft</i>	(Optional)
<i>rp-bit</i>	(Optional)

<i>register</i>	(Optional)
<i>intf-name</i>	(Optional)
<i>rpf-nbr-1</i>	(Optional)
<i>rpf-nbr-addr</i>	(Optional)
<i>oif-count</i>	(Optional)
<i>oif-bf-str</i>	(Optional)
<i>timeout-count</i>	(Optional)
<i>timeout-bf-str</i>	(Optional)
<i>immediate-count</i>	(Optional)
<i>immediate-bf-str</i>	(Optional)
<i>immediate-timeout-count</i>	(Optional)
<i>immediate-timeout-bf-str</i>	(Optional)
<i>sgr-prune-list-count</i>	(Optional)
<i>sgr-prune-list-bf-str</i>	(Optional)
<i>timeout-interval</i>	(Optional)
<i>jp-holdtime-rndup</i>	(Optional)
<i>mdt-encap-index</i>	(Optional)

Command Mode

- /exec

show ipv6 pim rp-hash

```
show ipv6 pim rp-hash <group> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-context>
[ <rp-found> ] [ <is-rp-bsr-learnt> ] [ <out-group1> <rp-addr1> ] [ <out-group> <hash-length> <out-bsr> ]
[ { TABLE_rp <rp-addr> <hash> <isbest_hash> } ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
rp-hash	Display RP hash value for group
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
<i>rp-found</i>	(Optional)
<i>is-rp-bsr-learnt</i>	(Optional)
<i>hash-length</i>	(Optional)
TABLE_rp	(Optional)
<i>hash</i>	(Optional)
<i>isbest_hash</i>	(Optional)

Command Mode

- /exec

<i>bsr-uptime</i>	(Optional)
<i>bsr-expires</i>	(Optional)
<i>rp-cand-policy-name</i>	(Optional)
<i>bsr-policy-name</i>	(Optional)
TABLE_anycast_rp	(Optional)
<i>anycast-rp-addr</i>	(Optional)
TABLE_arp_rp	(Optional)
<i>arp-rp-addr</i>	(Optional)
<i>is-rpaddr-local</i>	(Optional)
TABLE_rp	(Optional)
<i>rp-addr</i>	(Optional)
<i>is-rp-local</i>	(Optional)
<i>df-ordinal</i>	(Optional)
<i>rp-uptime</i>	(Optional)
<i>rp-priority</i>	(Optional)
<i>is_atorp_source</i>	(Optional)
<i>is_bsr_source</i>	(Optional)
<i>is_static_source</i>	(Optional)
<i>rp-source</i>	(Optional)
<i>static-rp-group-map</i>	(Optional)
TABLE_grange	(Optional)
<i>grange-grp</i>	(Optional)
<i>grange-masklen</i>	(Optional)
<i>grange-is-deny</i>	(Optional)
<i>is-bidir-grp</i>	(Optional)
<i>atorp-expires</i>	(Optional)
<i>bsr-rp-expires</i>	(Optional)
<i>rp-owner-flags</i>	(Optional)
<i>bidir-ordinal</i>	(Optional)

<i>df-bits-recovered</i>	(Optional)
<i>rpf-nbr-address</i>	(Optional)
<i>metric</i>	(Optional)
<i>metric-preference</i>	(Optional)

Command Mode

- /exec

show ipv6 pim statistics

```
show ipv6 pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<vrf-name> [ <uptime> <reg-sent> <reg-rcvd> <null-reg-sent> <null-reg-rcvd> <reg-stop-sent> <reg-stop-rcvd>
<reg-rcvd-not-rp> <reg-rcvd-for-ssm> <reg-rcvd-for-bidir> <bootstrap-sent> <bootstrap-rcvd> <cand-rp-sent>
<cand-rp-rcvd> <bs-no-nbr> <bs-border-deny> <bs-len-errors> <bs-rpf-failed> <bs-no-listen>
<candrp-border-deny> <candrp-no-listen> <ctrl-no-route> <data-no-route> <no-state> <create-state> ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
statistics	Packet counter statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name</i>	(Optional)
<i>uptime</i>	(Optional)
<i>reg-sent</i>	(Optional)
<i>reg-rcvd</i>	(Optional)
<i>null-reg-sent</i>	(Optional)
<i>null-reg-rcvd</i>	(Optional)
<i>reg-stop-sent</i>	(Optional)
<i>reg-stop-rcvd</i>	(Optional)
<i>reg-rcvd-not-rp</i>	(Optional)
<i>reg-rcvd-for-ssm</i>	(Optional)
<i>reg-rcvd-for-bidir</i>	(Optional)
<i>bootstrap-sent</i>	(Optional)
<i>bootstrap-rcvd</i>	(Optional)

<i>cand-rp-sent</i>	(Optional)
<i>cand-rp-rcvd</i>	(Optional)
<i>bs-no-nbr</i>	(Optional)
<i>bs-border-deny</i>	(Optional)
<i>bs-len-errors</i>	(Optional)
<i>bs-rpf-failed</i>	(Optional)
<i>bs-no-listen</i>	(Optional)
<i>candrp-border-deny</i>	(Optional)
<i>candrp-no-listen</i>	(Optional)
<i>ctrl-no-route</i>	(Optional)
<i>data-no-route</i>	(Optional)
<i>no-state</i>	(Optional)
<i>create-state</i>	(Optional)

Command Mode

- /exec

show ipv6 pim vrf

```
show ipv6 pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail | internal ] [ __readonly__ {
TABLE_context <out-context> <context-id> <count> <table-id> <bfd> <mvpn> [ <strict_rfc_compliant> ]
[ <global-mcast-bndry> ] } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
vrf	Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs PIM6 is configured for
detail	(Optional) Display detailed information
internal	(Optional) VRF related internal information
__readonly__	(Optional)
TABLE_context	(Optional)
<i>out-context</i>	(Optional)
<i>context-id</i>	(Optional)
<i>table-id</i>	(Optional)
<i>count</i>	(Optional)
<i>bfd</i>	(Optional)
<i>mvpn</i>	(Optional)
<i>strict_rfc_compliant</i>	(Optional)
<i>global-mcast-bndry</i>	(Optional)

Command Mode

- /exec

show ipv6 policy

```
show ipv6 policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_pbr [ <interface> ] [ <rmap> ] [ <status> ] [ <vrf_name> ] } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
policy	Policy routing
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_pbr	(Optional)
<i>interface</i>	(Optional)
<i>rmap</i>	(Optional)
<i>status</i>	(Optional)
<i>vrf_name</i>	(Optional)

Command Mode

- /exec

show ipv6 prefix-list

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

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
detail	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
summary	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
prefix-list	List IPv6 prefix lists
<i>ipv6-pfl-name</i>	(Optional) Name of prefix-list
<i>ipv6-pfl-cfg-name</i>	(Optional) Known prefix-list name
seq	Sequence number
<i>seq-no</i>	Sequence number
first-match	(Optional) Find the first match
longer	(Optional) Find the more specific entries
<i>__readonly__</i>	(Optional)
TABLE_ipv6_pfl	(Optional)
<i>name</i>	(Optional)
<i>seq</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ipv6 process

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

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
process	Display IPv6 global information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display all VRFs
<i>__readonly__</i>	(Optional)
TABLE_ipv6_all	(Optional) IPV6 process table
<i>cnxt-name</i>	(Optional) context name
<i>cnxt-id</i>	(Optional) context name
TABLE_ipv6	(Optional) ipv6 table
<i>ipv6-vrf</i>	(Optional) vrf name
<i>ipv6-vrf-id</i>	(Optional) vrf id
<i>auto-disc</i>	(Optional) auto discard
<i>auto-add</i>	(Optional) auto add
<i>sta-disc</i>	(Optional) static discard
<i>sta-def</i>	(Optional) static def
<i>ipv6-unreach</i>	(Optional) ipv6 unreachable
TABLE_iod	(Optional) IOD table
<i>iod-val</i>	(Optional) iod value
<i>iod-ifind</i>	(Optional) iod if index
TABLE_ipv6_nxt	(Optional) ipv6 next hop table

Command Mode

- /exec

show ipv6 raguard statistics

```
show ipv6 raguard statistics [ interface <intf-range> ] [ __readonly__ <msg_stats_hdr> [ <intf2> ] [ <rx_pkts> ] [ <drop_count> ] ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
raguard	IPV6 raguard
statistics	RA packet drop count
interface	(Optional) Raguard enabled interfaces
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional)
<i>intf2</i>	(Optional) interface name
<i>rx_pkts</i>	(Optional)
<i>drop_count</i>	(Optional)

Command Mode

- /exec

show ipv6 rip policy statistics redistribute

```
show ipv6 rip [ instance <inst> ] policy statistics redistribute { bgp <as> | { eigrp | isis | <src-rip> | ospfv3 |
lisp } <tag> | direct | static } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_asn
<asn> TABLE_vrf <vrf> [ TABLE_rmap [ <name> <action> <seq_num> ] [ TABLE_cmd <command> [
<compare_count> ] <match_count> ] ] <total_accept_count> <total_reject_count> ] ]
```

Syntax Description

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

TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
TABLE_rmap	(Optional) Routemap table
<i>name</i>	(Optional) Route-map Name
<i>action</i>	(Optional) Route-map action
<i>seq_num</i>	(Optional) Sequence number of the rule in route-map
TABLE_cmd	(Optional) Route-map command table
<i>command</i>	(Optional) Route-map command
<i>compare_count</i>	(Optional) Number of comparisons
<i>match_count</i>	(Optional) Number of matches
<i>total_accept_count</i>	(Optional) Total number of packets accepted by the policy
<i>total_reject_count</i>	(Optional) Total number of packets rejected by the policy

Command Mode

- /exec

<code>interface</code>	(Optional) Display routes with this output interface only
<code>interface</code>	(Optional) Interface Name
<code>updated</code>	(Optional) Display routes filtered by last updated time
<code>since</code>	(Optional) Display those routes updated since this time
<code>stime</code>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
<code>until</code>	(Optional) Display those routes updated until this time
<code>utime</code>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
<code>summary</code>	(Optional) Display route counts
<code>cached</code>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<code>summary-counter-consistency-check</code>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<code>deleted</code>	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<code>detail</code>	(Optional) Display routes in full detail
<code>__readonly__</code>	(Optional)
<code>TABLE_vrf</code>	(Optional)
<code>vrf-name-out</code>	(Optional)
<code>TABLE_addrf</code>	(Optional)
<code>addrf</code>	(Optional)
<code>TABLE_prefix</code>	(Optional)
<code>ucast-nhops</code>	(Optional)
<code>mcast-nhops</code>	(Optional)
<code>attached</code>	(Optional)
<code>TABLE_path</code>	(Optional)
<code>ubest</code>	(Optional)
<code>mbest</code>	(Optional)
<code>nexthop-vrf-name</code>	(Optional)
<code>ifname</code>	(Optional)
<code>bindlbl</code>	(Optional)
<code>srv6-funct</code>	(Optional) Srv6 function
<code>pref</code>	(Optional)

<i>tag</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)
<i>linkbw</i>	(Optional)
<i>type</i>	(Optional)
<i>stale</i>	(Optional)
<i>stalelbl</i>	(Optional)
<i>hidden</i>	(Optional)
<i>remote-sid</i>	(Optional)
<i>sid-fct</i>	(Optional)
TABLE_summary	(Optional)
<i>routes</i>	(Optional)
<i>paths</i>	(Optional)
<i>multicast_paths</i>	(Optional)
TABLE_unicast	(Optional)
<i>clientnameuni</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientnamemulti</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_route_count	(Optional)
<i>mask_len</i>	(Optional)
<i>count</i>	(Optional)

Command Mode

- /exec

show ipv6 routers

```
show ipv6 routers [ all-routers ] [ [ interface <interface> ] | [ vrf { <vrf-name> | <vrf-known-name> | all } ] ] [ __readonly__ { TABLE_ipv6_routers [ TABLE_interface_ipv6 { <rtr-ipv6> <ipv6-int-addr> <rtr-flo-time> <curr-hop-lmt> <life-time> <addr-flag> <other-flg> <mtu-rtr> <hm-agent-flg> <preference> <reach-time> <retrans-time> [ TABLE_prefix_ipv6 { <ipv6-prefix> <buf-ipv6> <buf-autono> <valid-life-time> <prefer-life> } ] } ] } ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
routers	Display neighbor router information
all-routers	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
interface	(Optional) Display neighbor router information on interface
<i>interface</i>	(Optional) Interface name to display
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_ipv6_routers	(Optional) ipv6 router table
TABLE_interface_ipv6	(Optional) ipv6 interface table
<i>ipv6-int-addr</i>	(Optional) ipv6 interface address
<i>rtr-flo-time</i>	(Optional) last updated time
<i>curr-hop-lmt</i>	(Optional) current hop limit
<i>life-time</i>	(Optional) life time
<i>addr-flag</i>	(Optional) address flag
<i>other-flg</i>	(Optional) other flag
<i>mtu-rtr</i>	(Optional) router MTU
<i>hm-agent-flg</i>	(Optional) home agent flag
<i>preference</i>	(Optional) preference
<i>reach-time</i>	(Optional) reachable time

<i>retrans-time</i>	(Optional) retransmission time
TABLE_prefix_ipv6	(Optional) ipv6 prefix table
<i>ipv6-prefix</i>	(Optional) ipv6 prefix
<i>buf-ipv6</i>	(Optional) ipv6 buffer
<i>buf-autono</i>	(Optional) ipv6 buffer autonomous flag
<i>valid-life-time</i>	(Optional) ipv6 valid life time
<i>prefer-life</i>	(Optional) ipv6 preferred life time

Command Mode

- /exec

show ipv6 snooping capture-policy

```
show ipv6 snooping capture-policy [ vlan <vlanid> ] [ interface <intf> ] [ __readonly__ <cmdout> ]
```

Syntax Description

<code>show</code>	Show running system information
<code>ipv6</code>	Show the IPv6 features of the system
<i>vlanid</i>	(Optional) VLAN ID
<i>intf</i>	(Optional) interface
<code>__readonly__</code>	(Optional)
<i>cmdout</i>	(Optional)

Command Mode

- /exec

show ipv6 snooping counters vlan

```
show ipv6 snooping counters { { vlan <vlanid> } | { interface <intf> } } [ __readonly__ [ {
TABLE_target_counters <target> [ { TABLE_protocol_msgs <protocol_name> [ { TABLE_sub_protocol_msgs
[ <subfield_name> ] [ <msg_count> ] } ] } ] [ { TABLE_bridged_msgs <protocol_name> [ {
TABLE_sub_protocol_msgs [ <subfield_name> ] [ <msg_count> ] } ] } ] [ { TABLE_dropped_msgs
<feature_name> <protocol_name> [ { TABLE_sub_protocol_msgs [ <subfield_name> ] [ <msg_count> ] [
<drop_reason> ] } ] } ] } ] }
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>vlanid</i>	VLAN ID
<i>intf</i>	interface
<i>__readonly__</i>	(Optional)
TABLE_target_counters	(Optional) Policy counters per target
<i>target</i>	(Optional) Target Name
TABLE_protocol_msgs	(Optional) Protocol messages table
<i>protocol_name</i>	(Optional) Protocol name
TABLE_sub_protocol_msgs	(Optional) Protocol sub-messages table
<i>subfield_name</i>	(Optional) Sub-field name
<i>msg_count</i>	(Optional) Message count
TABLE_bridged_msgs	(Optional) Bridged messages table
<i>protocol_name</i>	(Optional) Protocol name
TABLE_sub_protocol_msgs	(Optional) Protocol sub-messages table
<i>subfield_name</i>	(Optional) Sub-field name
<i>msg_count</i>	(Optional) Message count
TABLE_dropped_msgs	(Optional) Bridged messages table
<i>feature_name</i>	(Optional) Feature name
<i>protocol_name</i>	(Optional) Protocol name
TABLE_sub_protocol_msgs	(Optional) Protocol sub-messages table
<i>subfield_name</i>	(Optional) Sub-field name

<i>msg_count</i>	(Optional) Message count
<i>drop_reason</i>	(Optional) Drop reason

Command Mode

- /exec

show ipv6 snooping events

show ipv6 snooping events [__readonly__ <cmdout>]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
__readonly__	(Optional)
<i>cmdout</i>	(Optional)

Command Mode

- /exec

show ipv6 snooping features

```
show ipv6 snooping features [ __readonly__ { TABLE_features <name> <priority> <state> } ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
__readonly__	(Optional)
TABLE_features	(Optional) IPv6 Snooping Features
<i>name</i>	(Optional) Name
<i>priority</i>	(Optional) Priority
<i>state</i>	(Optional) State

Command Mode

- /exec

show ipv6 snooping messages

show ipv6 snooping messages [detailed <count>] [__readonly__ <cmdout>]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>count</i>	(Optional) Number of messages to display
<i>__readonly__</i>	(Optional)
<i>cmdout</i>	(Optional)

Command Mode

- /exec

show ipv6 snooping policies

```
show ipv6 snooping policies { [ vlan <vlanid> ] | [ interface <intf> ] } [ __readonly__ { TABLE_policies
<target> <target_type> <policy> <feature> <target_range> } ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>vlanid</i>	(Optional) VLAN ID
<i>intf</i>	(Optional) interface
__readonly__	(Optional)
TABLE_policies	(Optional) IPv6 Snooping Policies
<i>target</i>	(Optional) Target Name
<i>target_type</i>	(Optional) Target Type
<i>policy</i>	(Optional) Policy Name
<i>feature</i>	(Optional) Feature
<i>target_range</i>	(Optional) Target Range

Command Mode

- /exec

show ipv6 snooping policy

```
show ipv6 snooping policy [ <policy_name> ] [ __readonly__ { [ TABLE_glean_policy <policy> [ <port_type>
] <sec_lvl> <device_role> [ <data_glean> ] [ <dest_glean> ] [ <glean_type> ] [ <reachable_lifetime> ] [
<stale_lifetime> ] } { [ TABLE_non_glean_protocols | TABLE_glean_protocols # 395
../feature/sisf/core/nxos/src/sisf_glean_dme.cmd <protocol> [ <prefix_list> ] } } [ <limit_address_cnt> ] [
<limit_address_cnt_v4_per_mac> ] [ <limit_address_cnt_v6_per_mac> ] [ <limit_address_cnt_v4_per_target>
] [ <tracking> ] { { [ TABLE_targets <target> <target_type> <target_policy> <feature> <target_range> ] } }
]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>policy_name</i>	(Optional) Policy name for feature snooping
<i>__readonly__</i>	(Optional)
TABLE_glean_policy	(Optional) IPv6 DHCP guard policy
<i>policy</i>	(Optional) Policy Name
<i>port_type</i>	(Optional) Port type
<i>sec_lvl</i>	(Optional) Security level
<i>device_role</i>	(Optional) Device role
<i>data_glean</i>	(Optional) Data glean
<i>dest_glean</i>	(Optional) Destination glean
<i>glean_type</i>	(Optional) Glean type
<i>reachable_lifetime</i>	(Optional) Reachable lifetime
<i>stale_lifetime</i>	(Optional) Stale lifetime
TABLE_non_glean_protocols	(Optional) Non Glean protocols
<i>protocol</i>	(Optional) Protocol
TABLE_glean_protocols	(Optional) Glean protocols
<i>prefix_list</i>	(Optional) Prefix list
<i>limit_address_cnt</i>	(Optional) Limit address count
<i>limit_address_cnt_v4_per_mac</i>	(Optional) Limit address count v4 per mac
<i>limit_address_cnt_v6_per_mac</i>	(Optional) Limit address count v6 per mac
<i>limit_address_cnt_v4_per_target</i>	(Optional) Limit address count v4 per target

<i>tracking</i>	(Optional) Tracking
TABLE_targets	(Optional) Targets table
<i>target</i>	(Optional) Target Name
<i>target_type</i>	(Optional) Target Type
<i>target_policy</i>	(Optional) Policy Name
<i>feature</i>	(Optional) Feature
<i>target_range</i>	(Optional) Target Range

Command Mode

- /exec

show ipv6 snooping pss database

show ipv6 snooping pss database [__readonly__ <cmdout>]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
__readonly__	(Optional)
<i>cmdout</i>	(Optional)

Command Mode

- /exec

show ipv6 static-route

```
show ipv6 static-route [ <prefix> ] [ multicast ] [ track-table ] [ vrf { <vrf-name> | <vrf-known-name> | all }
] [ __readonly__ [ TABLE_vrf <vrf-name-out> ] [ TABLE_route [ <prefix-out> ] [ <next-hop> ] [ <intf-name>
] [ <pref> ] [ <next-hop-vrf> ] [ <reslv-tid> ] [ <real-nh> ] [ <has-real-intf> ] [ <real-intf-name> ] [ <track-id>
] [ <track-status> ] [ <rnh-status> ] [ <bfd-status> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
static-route	Display configured static routes
track-table	(Optional) Display track object details associated with static routes
multicast	(Optional) Display configured static mroutes
all	(Optional) Display all VRFs
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name-out</i>	(Optional) vrf name
TABLE_route	(Optional) Route table
<i>intf-name</i>	(Optional) interface name
<i>pref</i>	(Optional) interface prefix
<i>next-hop-vrf</i>	(Optional) next hop vrf
<i>reslv-tid</i>	(Optional) reslv tid
<i>has-real-intf</i>	(Optional) has real interface
<i>real-intf-name</i>	(Optional) real interface name
<i>track-id</i>	(Optional) interface track id
<i>track-status</i>	(Optional) interface track status
<i>rnh-status</i>	(Optional) interface rn timer status
<i>bfd-status</i>	(Optional) interface bfd status

Command Mode

- /exec

show ipv6 traffic

```
show ipv6 traffic [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ TABLE_vrf
<vrf-name-out> ] TABLE_ipv6_traffic <uptime> <upkt-fwd> <mpkt-fwd> <ubyte-fwd> <mbyte-fwd>
<upkt-orig> <mpkt-orig> <ubyte-orig> <mbyte-orig> <upkt-consumed> <mpkt-consumed> <ubyte-consumed>
<mbyte-consumed> <ufrag-orig> <mfra-orig> <ufrag-consumed> <mfrag-consumed> <bad-version>
<rt-lookup-fail> <hoplimit-excd> <opt-header-error> <pld-length-too-small> <pm-failed> <mbuf-error>
<could-not-enc> <dest-if-down> <rx-pkts-recv> <rx-bytes-recv> <rx-inhderrors> <rx-innoroutes>
<rx-inaddrrerrors> <rx-inunknownprotos> <rx-intruncatedpkts> <rx-inforwdgrams> <rx-reasmreqds>
<rx-reasmoks> <rx-reasmfails> <rx-indiscards> <rx-indelivers> <rx-inmcastpkts> <rx-inmcastbytes>
<tx-pkts-sent> <tx-bytes-sent> <tx-outrequests> <tx-outnoroutes> <tx-outforwdgrams> <tx-outdiscards>
<tx-outfragreqds> <tx-outfragoks> <tx-outfragfails> <tx-outfragcreates> <tx-outtransmits> <tx-outmcastpkts>
<tx-outmcastbytes> ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
traffic	Display IPv6 traffic statistics
detail	(Optional) Display per protocol IPv6 statistics
vrf	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional) VRF table
<i>vrf-name-out</i>	(Optional) vrf name
TABLE_ipv6_traffic	(Optional) ipv6 traffic table
<i>uptime</i>	(Optional) up time
<i>upkt-fwd</i>	(Optional) unicast packets forward
<i>mpkt-fwd</i>	(Optional) multicast packets forward
<i>ubyte-fwd</i>	(Optional) unicast byte forward
<i>mbyte-fwd</i>	(Optional) multicast byte forward
<i>upkt-orig</i>	(Optional) unicast packet origin
<i>mpkt-orig</i>	(Optional) multicast packet origin
<i>ubyte-orig</i>	(Optional) unicast byte origin

<i>mbyte-orig</i>	(Optional) multicast byte origin
<i>upkt-consumed</i>	(Optional) unicast packet consumed
<i>mpkt-consumed</i>	(Optional) multicast packet consumed
<i>ubyte-consumed</i>	(Optional) unicast byte consumed
<i>mbyte-consumed</i>	(Optional) multicast byte consumed
<i>ufrag-orig</i>	(Optional) unicast fragment origin
<i>mfra-orig</i>	(Optional) multicast fragment origin
<i>ufrag-consumed</i>	(Optional) unicast fragment consumed
<i>mfrag-consumed</i>	(Optional) multicast fragment consumed
<i>bad-version</i>	(Optional) bad version
<i>rt-lookup-fail</i>	(Optional) route lookup fail
<i>hoplimit-excd</i>	(Optional) hoplimit exceeded
<i>opt-header-error</i>	(Optional) opt header error
<i>pld-length-too-small</i>	(Optional) pld length too small
<i>pm-failed</i>	(Optional) packet manager failed
<i>mbuf-error</i>	(Optional) m-buffer error
<i>could-not-enc</i>	(Optional) could not encode
<i>dest-if-down</i>	(Optional) destination if down
<i>rx-pkts-recv</i>	(Optional) packets received
<i>rx-bytes-recv</i>	(Optional) bytes received
<i>rx-inhdrrrors</i>	(Optional) inhdr error
<i>rx-innoroutes</i>	(Optional) in-no routes
<i>rx-inaddrerrors</i>	(Optional) in-address error
<i>rx-inunknownprotos</i>	(Optional) in-unknown protocol
<i>rx-intruncatedpkts</i>	(Optional) in-truncated packets
<i>rx-inforwdgrams</i>	(Optional) in-forward
<i>rx-reasmreqds</i>	(Optional) reasm request
<i>rx-reasmoks</i>	(Optional) reasm ok
<i>rx-reasmfails</i>	(Optional) reasm fail

<i>rx-indiscards</i>	(Optional) in-discards
<i>rx-indelivers</i>	(Optional) in-delivers
<i>rx-inmcastpkts</i>	(Optional) in multicast packets
<i>rx-inmcastbytes</i>	(Optional) in multicast bytes
<i>tx-pkts-sent</i>	(Optional) packets sent
<i>tx-bytes-sent</i>	(Optional) bytes sent
<i>tx-outrequests</i>	(Optional) out request
<i>tx-outnoroutes</i>	(Optional) out no routes
<i>tx-outforwdgrams</i>	(Optional) out forwardgrams
<i>tx-outdiscards</i>	(Optional) out discards
<i>tx-outfragreqds</i>	(Optional) out fragment request
<i>tx-outfragoks</i>	(Optional) out fragment oks
<i>tx-outfragfails</i>	(Optional) out fragment fails
<i>tx-outfragcreates</i>	(Optional) out fragment creates
<i>tx-outtransmits</i>	(Optional) out transmits
<i>tx-outmcastpkts</i>	(Optional) out multicast packets
<i>tx-outmcastbytes</i>	(Optional) out multicast bytes

Command Mode

- /exec

show isis

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ process | protocol ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <instance_num> <uuid>
<process-id> <vrf-name-out> <system-id-out> <is-type-out> <sap-out> <qh-out> <mtu-out> [ <gr-status-out>
] [ <gr-state-active-out> ] [ <gr-state-inactive-out> ] [ <last-gr-status-fail-out> ] [ <last-gr-status-success-out>
] [ <last-gr-status-none-out> ] [ <gr-status-disable-out> ] [ TABLE_afi_safi <af-ix> <af-bfd-config>
<af-pib-tag> ] <metric-style> <accept-metric> [ <net-set-none> ] [ TABLE_area_addr <area-addr-nsap> ] [
<proc-state-not-config> ] [ <proc-state-admin-down> ] [ <proc-state-l3vm-down> ] [
<proc-state-unknown-down> ] [ <proc-state-not-specified> ] [ <proc-state-no-net> ] [ <proc-state-no-vrf-id>
] [ <proc-state-out-memory> ] [ <proc-state-restart> ] [ <proc-state-running> ] <vrf-id-out> [ TABLE_te
<te-lvl-out> <te-lvl-active> ] [ <te-ted-out> ] [ <mpls-te-out> ] [ TABLE_mpls_te [ <mpls-te-lvl-out> ] [
<mpls-te-rtrid-intf-out> ] [ <mpls-te-fa-lvl-out> ] [ TABLE_te_fa <te-fa-sysid-out> <te-fa-intf-out> ] [
<te-stat-sys-id-out> ] [ <te-stat-rtr-id-out> ] [ TABLE_te_stat_lvl <te-stat-lvl-out> <te-stat-up-out>
<te-stat-down-out> ] [ <srte-registered-out> ] [ TABLE_segment_routing <af-out> <ptag-out> <cfg-out>
<enable-out> [ <exp-null-cfg> ] ] [ <srv6-enabled> ] [ TABLE_iib_list yeild <intf-name-out> ] [ TABLE_auth
<auth-lvl-out> [ <auth-type-no-type> ] [ <auth-type-clear-text> ] [ <auth-type-md5> ] [ <auth-type-key-chain>
] [ <auth-type-none> ] [ <auth-check> ] [ <auth-no-check> ] ] [ TABLE_spf <spf-lvl-out> [ <spf-timer> ] ]
[ TABLE_distribute_ls <distribute-linkst-lvl> ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
process	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
protocol	(Optional) Display IS-IS process information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>instance_num</i>	(Optional)
<i>uuid</i>	(Optional)
<i>process-id</i>	(Optional)
<i>vrf-name-out</i>	(Optional)

<i>system-id-out</i>	(Optional)
<i>is-type-out</i>	(Optional)
<i>sap-out</i>	(Optional)
<i>qh-out</i>	(Optional)
<i>mtu-out</i>	(Optional)
<i>gr-status-out</i>	(Optional)
<i>gr-state-active-out</i>	(Optional)
<i>gr-state-inactive-out</i>	(Optional)
<i>last-gr-status-fail-out</i>	(Optional)
<i>last-gr-status-success-out</i>	(Optional)
<i>last-gr-status-none-out</i>	(Optional)
<i>gr-status-disable-out</i>	(Optional)
TABLE_afi_safi	(Optional)
<i>af-ix</i>	(Optional)
<i>af-bfd-config</i>	(Optional)
<i>af-pib-tag</i>	(Optional)
<i>metric-style</i>	(Optional)
<i>accept-metric</i>	(Optional)
<i>net-set-none</i>	(Optional)
TABLE_area_addr	(Optional)
<i>area-addr-nsap</i>	(Optional)
<i>proc-state-not-config</i>	(Optional)
<i>proc-state-admin-down</i>	(Optional)
<i>proc-state-l3vm-down</i>	(Optional)
<i>proc-state-unknown-down</i>	(Optional)
<i>proc-state-not-specified</i>	(Optional)
<i>proc-state-no-net</i>	(Optional)
<i>proc-state-no-vrf-id</i>	(Optional)
<i>proc-state-out-memory</i>	(Optional)

<i>proc-state-restart</i>	(Optional)
<i>proc-state-running</i>	(Optional)
<i>vrf-id-out</i>	(Optional)
TABLE_te	(Optional)
<i>te-lvl-out</i>	(Optional)
<i>te-lvl-active</i>	(Optional)
<i>te-ted-out</i>	(Optional)
<i>mpls-te-out</i>	(Optional)
TABLE_mpls_te	(Optional)
<i>mpls-te-lvl-out</i>	(Optional)
<i>mpls-te-rtrid-intf-out</i>	(Optional)
<i>mpls-te-fa-lvl-out</i>	(Optional)
TABLE_te_fa	(Optional)
<i>te-fa-sysid-out</i>	(Optional)
<i>te-fa-intf-out</i>	(Optional)
<i>te-stat-sys-id-out</i>	(Optional)
<i>te-stat-rtr-id-out</i>	(Optional)
TABLE_te_stat_lvl	(Optional)
<i>te-stat-lvl-out</i>	(Optional)
<i>te-stat-up-out</i>	(Optional)
<i>te-stat-down-out</i>	(Optional)
<i>srte-registered-out</i>	(Optional)
TABLE_segment_routing	(Optional)
<i>af-out</i>	(Optional)
<i>ptag-out</i>	(Optional)
<i>cfg-out</i>	(Optional)
<i>enable-out</i>	(Optional)
<i>exp-null-cfg</i>	(Optional)
<i>srv6-enabled</i>	(Optional)

TABLE_iib_list_yeild	(Optional)
<i>intf-name-out</i>	(Optional)
TABLE_auth	(Optional)
<i>auth-lvl-out</i>	(Optional)
<i>auth-type-no-type</i>	(Optional)
<i>auth-type-cleartext</i>	(Optional)
<i>auth-type-md5</i>	(Optional)
<i>auth-type-key-chain</i>	(Optional)
<i>auth-type-none</i>	(Optional)
<i>auth-check</i>	(Optional)
<i>auth-no-check</i>	(Optional)
TABLE_spf	(Optional)
<i>spf-lvl-out</i>	(Optional)
<i>spf-timer</i>	(Optional)
TABLE_distribute_ls	(Optional)
<i>distribute-linkst-lvl</i>	(Optional)

Command Mode

- /exec

show isis adjacency

```
show isis [<isis-tag>] [ vrf { <vrf-name> | <vrf-known-name> | all } ] adjacency [ <interface> [ p2p-level-1-2
] ] [ { system-id <sid> } ] [ [ detail ] | [ summary ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <adj-summary-out>
<adj-interface-out> [ <adj-interface-name-out> ] [ { TABLE_process_adj <adj-sys-name-out> <adj-sys-id-out>
[ <adj-usage-out> ] [ <adj-level-out> ] <adj-state-out> <adj-hold-time-out> <adj-intf-name-out>
<adj-detail-set-out> [ [ { TABLE_area_address <adj-area-addr-out> } ] <adj-transitions-out> <adj-flap-out>
[ <adj-flap-time-out> ] <adj-ckt-type-out> <adj-ipv4-addr-out> <adj-ipv6-addr-out> <adj-bcast-out> [ {
<adj-ckt-id-out> <adj-lan-prio-out> } ] <adj-bfd-ipv4-establish-out> <adj-bfd-ipv6-establish-out>
<adj-resurrect-out> [ { <adj-resurrect-count-out> <adj-resurrect-hwm-out> } ] <adj-restart-capable-out>
<adj-restart-ack-out> [ { <adj-restart-mode-out> <adj-restart-adj-seen-ra-out> <adj-restart-adj-seen-csnp-out>
<adj-restart-adj-seen-l1-csnp-out> <adj-restart-adj-seen-l2-csnp-out> <adj-restart-suppress-adj-out> } ] [ {
TABLE_adj_sid <adj-sid-value> <adj-sid-f-flag> <adj-sid-b-flag> <adj-sid-v-flag> <adj-sid-l-flag>
<adj-sid-s-flag> <adj-sid-p-flag> <adj-sid-weight> } ] ] ] [ { TABLE_p2p_adj_sum
<adj-summ-p2p-level-out> <adj-summ-p2p-state-out> <adj-summ-p2p-count-out> } ] [ { TABLE_lan_adj_sum
<adj-summ-lan-level-out> <adj-summ-lan-state-out> <adj-summ-lan-count-out> } ] ] ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
adjacency	Display IS-IS adjacency information
<i>interface</i>	(Optional) IS-IS interface
system-id	(Optional) Hostname or System ID
<i>sid</i>	(Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX)
detail	(Optional) Display IS-IS adjacency detail information
p2p-level-1-2	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
summary	(Optional) Display IS-IS adjacency summary information
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)

TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>adj-summary-out</i>	(Optional)
<i>adj-interface-out</i>	(Optional)
<i>adj-interface-name-out</i>	(Optional)
TABLE_process_adj	(Optional)
<i>adj-sys-name-out</i>	(Optional)
<i>adj-sys-id-out</i>	(Optional)
<i>adj-usage-out</i>	(Optional)
<i>adj-level-out</i>	(Optional)
<i>adj-state-out</i>	(Optional)
<i>adj-hold-time-out</i>	(Optional)
<i>adj-intf-name-out</i>	(Optional)
<i>adj-detail-set-out</i>	(Optional)
TABLE_area_address	(Optional)
<i>adj-area-addr-out</i>	(Optional)
<i>adj-transitions-out</i>	(Optional)
<i>adj-flap-out</i>	(Optional)
<i>adj-flap-time-out</i>	(Optional)
<i>adj-ckt-type-out</i>	(Optional)
<i>adj-ipv4-addr-out</i>	(Optional)
<i>adj-ipv6-addr-out</i>	(Optional)
<i>adj-bcast-out</i>	(Optional)
<i>adj-ckt-id-out</i>	(Optional)
<i>adj-lan-prio-out</i>	(Optional)
<i>adj-bfd-ipv4-establish-out</i>	(Optional)
<i>adj-bfd-ipv6-establish-out</i>	(Optional)
<i>adj-resurrect-out</i>	(Optional)
<i>adj-resurrect-count-out</i>	(Optional)

<i>adj-resurrect-hwm-out</i>	(Optional)
<i>adj-restart-capable-out</i>	(Optional)
<i>adj-restart-ack-out</i>	(Optional)
<i>adj-restart-mode-out</i>	(Optional)
<i>adj-restart-adj-seen-ra-out</i>	(Optional)
<i>adj-restart-adj-seen-csnp-out</i>	(Optional)
<i>adj-restart-adj-seen-l1-csnp-out</i>	(Optional)
<i>adj-restart-adj-seen-l2-csnp-out</i>	(Optional)
<i>adj-restart-suppress-adj-out</i>	(Optional)
TABLE_adj_sid	(Optional)
<i>adj-sid-value</i>	(Optional)
<i>adj-sid-f-flag</i>	(Optional)
<i>adj-sid-b-flag</i>	(Optional)
<i>adj-sid-v-flag</i>	(Optional)
<i>adj-sid-l-flag</i>	(Optional)
<i>adj-sid-s-flag</i>	(Optional)
<i>adj-sid-p-flag</i>	(Optional)
<i>adj-sid-weight</i>	(Optional)
TABLE_p2p_adj_sum	(Optional)
<i>adj-summ-p2p-level-out</i>	(Optional)
<i>adj-summ-p2p-state-out</i>	(Optional)
<i>adj-summ-p2p-count-out</i>	(Optional)
TABLE_lan_adj_sum	(Optional)
<i>adj-summ-lan-level-out</i>	(Optional)
<i>adj-summ-lan-state-out</i>	(Optional)
<i>adj-summ-lan-count-out</i>	(Optional)

Command Mode

- /exec

show isis csnp

```
show isis [ <isis-tag> ] csnp [ detail ] [ __readonly__ TABLE_process_tag <process-tag-out> [ {
TABLE_CSNPLEVEL <csnp-level> <csnp-cache-valid> <csnp-cache-hit> <cscnp-cache-miss> <csnp-hit-rate>
[ { TABLE_CSNPLSPS <csnp-start-lsp-id> <csnp-end-lsp-id> <csnp-entry-valid> <csnp-pdu-lengh> [ {
TABLE_CSNPONELSP <csnp-lsp-id> <csnp-lsp-seq-num> <csnp-lsp-chk-sum> <csnp-lsp-life-time> } ] }
] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
csnp	Display IS-IS CSNP cache contents
detail	(Optional) Display detailed IS-IS information
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_CSNPLEVEL	(Optional)
<i>csnp-level</i>	(Optional)
<i>csnp-cache-valid</i>	(Optional)
<i>csnp-cache-hit</i>	(Optional)
<i>cscnp-cache-miss</i>	(Optional)
<i>csnp-hit-rate</i>	(Optional)
TABLE_CSNPLSPS	(Optional)
<i>csnp-start-lsp-id</i>	(Optional)
<i>csnp-end-lsp-id</i>	(Optional)
<i>csnp-entry-valid</i>	(Optional)
<i>csnp-pdu-lengh</i>	(Optional)
TABLE_CSNPONELSP	(Optional)
<i>csnp-lsp-id</i>	(Optional)
<i>csnp-lsp-seq-num</i>	(Optional)
<i>csnp-lsp-chk-sum</i>	(Optional)

<i>csnp-lsp-life-time</i>	(Optional)
---------------------------	------------

Command Mode

- /exec

show isis database

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ <level> ] [ detail | advertise
| summary ] [ <lid> ] { [ zero-sequence ] | [ ip prefix <ip-prefix> ] | [ ipv6 prefix <ipv6-prefix> ] | [ router-id
<rid> ] | [ adjacency <adj-id> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ {
TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [ <dbase-hname-absent-out> ] [ {
TABLE_process_lvl <dbase-level-out> [ { TABLE_process_lsp <dbase-lsp-name-out> <dbase-lsp-status-out>
<dbase-lsp-absent-out> [ { <dbase-lsp-seqnum-out> <dbase-lsp-cksum-out> [ <dbase-lsp-lifetime-str-out> ]
[ <dbase-lsp-lifetime-out> ] <dbase-att-out> <dbase-partition-out> <dbase-overload-out> <dbase-istype-out>
} ] [ <dbase-lsp-instance-out> [ { TABLE_process_tlv <dbase-lsp-tlv-name-out> [ <dbase-lsp-area-addr-out>
] [ <dbase-lsp-is-nbr-name-out> ] [ <dbase-lsp-is-nbr-metric-out> ] [ <dbase-lsp-is-nbr-ext-metric-out> ] [
<dbase-lsp-es-nbr-name-out> ] [ <dbase-lsp-es-nbr-metric-out> ] [ <dbase-lsp-es-nbr-ext-metric-out> ] [
<dbase-lsp-auth-type-out> ] [ <dbase-lsp-auth-len-out> ] [ { TABLE_process_extis [
<dbase-lsp-ext-is-name-out> ] [ <dbase-lsp-ext-is-metric-out> ] } ] [ <dbase-lsp-ip-ri-addr-out> ] [
<dbase-lsp-ip-ri-mask-out> ] [ <dbase-lsp-ip-ri-metric-out> ] [ <dbase-lsp-ip-ri-ext-metric-out> ] [
<dbase-lsp-ip-ri-up-down-out> ] [ <dbase-lsp-cap-rtrid> ] [ <dbase-lsp-cap-flags> ] [ { TABLE_process_nlpid
<dbase-lsp-prot-support-out> } ] [ <dbase-lsp-ip-addr-out> ] [ <dbase-lsp-ipv6-addr-out> ] [ {
TABLE_process_extip <dbase-lsp-extip-addr-out> <dbase-lsp-extip-prefix-len-out>
<dbase-lsp-extip-metric-out> <dbase-lsp-extip-up-down-out> [ <dbase-lsp-extip-pfxsid> ] [
<dbase-lsp-extip-pfxsid-algo> ] [ <dbase-lsp-extip-pfxsid-flags> ] [ <dbase-lsp-extip-unknown-out> ] } ] [
<dbase-lsp-hname-out> ] [ <dbase-lsp-hname-len-out> ] [ { TABLE_process_extipv6
<dbase-lsp-extipv6-addr-out> <dbase-lsp-extipv6-prefix-len-out> <dbase-lsp-extipv6-metric-out>
<dbase-lsp-extipv6-up-down-out> <dbase-lsp-extipv6-ext-origin-out> [ <dbase-lsp-extipv6-pfxsid> ] [
<dbase-lsp-extipv6-pfxsid-algo> ] [ <dbase-lsp-extipv6-pfxsid-flags> ] [ <dbase-lsp-extipv6-unknown-out>
] } ] [ { TABLE_process_subtlv <dbase-lsp-subtlv-name-out> [ <dbase-lsp-extis-admin-group-out> ] [
<dbase-lsp-subtlv-ip-addr-out> ] [ <dbase-lsp-extis-bw-out> ] [ <dbase-lsp-extis-pri1-out> ] [
<dbase-lsp-extis-pri1-val-out> ] [ <dbase-lsp-extis-pri2-out> ] [ <dbase-lsp-extis-pri2-val-out> ] [
<dbase-lsp-extis-te-metric-out> ] [ <dbase-lsp-extis-p2p-adjsid-out> ] [ <dbase-lsp-extis-p2p-adjsid-flags> ]
[ <dbase-lsp-extis-p2p-adjsid-weight> ] [ <dbase-lsp-extis-lan-adjsid-out> ] [ <dbase-lsp-extis-lan-adjsid-sysid>
] [ <dbase-lsp-extis-lan-adjsid-flags> ] [ <dbase-lsp-extis-lan-adjsid-weight> ] [
<dbase-lsp-cap-subtlv-sr-start-sid> ] [ <dbase-lsp-cap-subtlv-sr-end-sid> ] [ <dbase-lsp-cap-subtlv-sr-range>
] [ <dbase-lsp-cap-subtlv-sr-flags> ] [ <dbase-lsp-subtlv-len-out> ] [ <dbase-lsp-subtlv-unknown-out> ] } ]
[ <dbase-lsp-tlv-len-out> ] [ <dbase-lsp-tlv-unknown-out> ] } ] <dbase-lsp-digest-out> } } ] [ {
<dbase-lsp-total-out> [ { <dbase-lsp-empty-out> <dbase-lsp-zeroseq-out> } } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Display IS-IS database information

<i>level</i>	(Optional) IS-IS level
<i>lid</i>	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
detail	(Optional) Display detailed IS-IS information
advertise	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
summary	(Optional) Display summary IS-IS information
zero-sequence	(Optional) LSP with zero sequence number
ip	(Optional) IP attribute filter
ipv6	(Optional) IPv6 attribute filter
prefix	(Optional) Prefix filter
<i>ip-prefix</i>	(Optional) Single exact match IP prefix filter
adjacency	(Optional) Adjacency filter
<i>adj-id</i>	(Optional) Single exact match adjacency filter
router-id	(Optional) Router-id filter
<i>rid</i>	(Optional) single exact match router-id filter
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>dbase-hname-absent-out</i>	(Optional)
TABLE_process_lvl	(Optional)
<i>dbase-level-out</i>	(Optional)
TABLE_process_lsp	(Optional)
<i>dbase-lsp-name-out</i>	(Optional)
<i>dbase-lsp-status-out</i>	(Optional)
<i>dbase-lsp-absent-out</i>	(Optional)
<i>dbase-lsp-seqnum-out</i>	(Optional)
<i>dbase-lsp-cksum-out</i>	(Optional)
<i>dbase-lsp-lifetime-str-out</i>	(Optional)

<i>dbase-lsp-lifetime-out</i>	(Optional)
<i>dbase-att-out</i>	(Optional)
<i>dbase-partition-out</i>	(Optional)
<i>dbase-overload-out</i>	(Optional)
<i>dbase-istype-out</i>	(Optional)
<i>dbase-lsp-instance-out</i>	(Optional)
TABLE_process_tlv	(Optional)
<i>dbase-lsp-tlv-name-out</i>	(Optional)
<i>dbase-lsp-area-addr-out</i>	(Optional)
<i>dbase-lsp-is-nbr-name-out</i>	(Optional)
<i>dbase-lsp-is-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-is-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-name-out</i>	(Optional)
<i>dbase-lsp-es-nbr-metric-out</i>	(Optional)
<i>dbase-lsp-es-nbr-ext-metric-out</i>	(Optional)
<i>dbase-lsp-auth-type-out</i>	(Optional)
<i>dbase-lsp-auth-len-out</i>	(Optional)
TABLE_process_extis	(Optional)
<i>dbase-lsp-ext-is-name-out</i>	(Optional)
<i>dbase-lsp-ext-is-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-addr-out</i>	(Optional)
<i>dbase-lsp-ip-ri-mask-out</i>	(Optional)
<i>dbase-lsp-ip-ri-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-ext-metric-out</i>	(Optional)
<i>dbase-lsp-ip-ri-up-down-out</i>	(Optional)
TABLE_process_nlpid	(Optional)
<i>dbase-lsp-prot-support-out</i>	(Optional)
<i>dbase-lsp-ip-addr-out</i>	(Optional)
<i>dbase-lsp-ipv6-addr-out</i>	(Optional)

TABLE_process_extip	(Optional)
<i>dbase-lsp-extip-addr-out</i>	(Optional)
<i>dbase-lsp-extip-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extip-metric-out</i>	(Optional)
<i>dbase-lsp-extip-up-down-out</i>	(Optional)
<i>dbase-lsp-extip-pfxsid</i>	(Optional)
<i>dbase-lsp-extip-pfxsid-algo</i>	(Optional)
<i>dbase-lsp-extip-pfxsid-flags</i>	(Optional)
<i>dbase-lsp-extip-unknown-out</i>	(Optional)
<i>dbase-lsp-hname-out</i>	(Optional)
<i>dbase-lsp-hname-len-out</i>	(Optional)
TABLE_process_extipv6	(Optional)
<i>dbase-lsp-extipv6-addr-out</i>	(Optional)
<i>dbase-lsp-extipv6-prefix-len-out</i>	(Optional)
<i>dbase-lsp-extipv6-metric-out</i>	(Optional)
<i>dbase-lsp-extipv6-up-down-out</i>	(Optional)
<i>dbase-lsp-extipv6-ext-origin-out</i>	(Optional)
<i>dbase-lsp-extipv6-pfxsid</i>	(Optional)
<i>dbase-lsp-extipv6-pfxsid-algo</i>	(Optional)
<i>dbase-lsp-extipv6-pfxsid-flags</i>	(Optional)
<i>dbase-lsp-extipv6-unknown-out</i>	(Optional)
<i>dbase-lsp-tlv-len-out</i>	(Optional)
<i>dbase-lsp-tlv-unknown-out</i>	(Optional)
TABLE_process_subtlv	(Optional)
<i>dbase-lsp-subtlv-name-out</i>	(Optional)
<i>dbase-lsp-extis-admin-group-out</i>	(Optional)
<i>dbase-lsp-subtlv-ip-addr-out</i>	(Optional)
<i>dbase-lsp-extis-bw-out</i>	(Optional)
<i>dbase-lsp-extis-pri1-out</i>	(Optional)

<i>dbase-lsp-extis-pri1-val-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-out</i>	(Optional)
<i>dbase-lsp-extis-pri2-val-out</i>	(Optional)
<i>dbase-lsp-extis-te-metric-out</i>	(Optional)
<i>dbase-lsp-extis-p2p-adjsid-out</i>	(Optional)
<i>dbase-lsp-extis-p2p-adjsid-flags</i>	(Optional)
<i>dbase-lsp-extis-p2p-adjsid-weight</i>	(Optional)
<i>dbase-lsp-extis-lan-adjsid-out</i>	(Optional)
<i>dbase-lsp-extis-lan-adjsid-sysid</i>	(Optional)
<i>dbase-lsp-extis-lan-adjsid-flags</i>	(Optional)
<i>dbase-lsp-extis-lan-adjsid-weight</i>	(Optional)
<i>dbase-lsp-subtlv-len-out</i>	(Optional)
<i>dbase-lsp-subtlv-unknown-out</i>	(Optional)
<i>dbase-lsp-digest-out</i>	(Optional)
<i>dbase-lsp-total-out</i>	(Optional)
<i>dbase-lsp-empty-out</i>	(Optional)
<i>dbase-lsp-zeroseq-out</i>	(Optional)
<i>dbase-lsp-cap-rtrid</i>	(Optional)
<i>dbase-lsp-cap-flags</i>	(Optional)
<i>dbase-lsp-cap-subtlv-sr-start-sid</i>	(Optional)
<i>dbase-lsp-cap-subtlv-sr-end-sid</i>	(Optional)
<i>dbase-lsp-cap-subtlv-sr-range</i>	(Optional)
<i>dbase-lsp-cap-subtlv-sr-flags</i>	(Optional)

Command Mode

- /exec

show isis distribute-ls

```
show isis [ <isis-tag> ] distribute-ls { [ system-id <sid> ] [ lsp-id <lid> ] } [ brief ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <vrf-name-out>
<vrf-id-out> <lslib-connection-out> <client-type-out> <protocol-instance-out> <nxos-instance-out>
<ha-recovery-out> [ <queue-all-out> ] <update-timer-sec-out> <update-timer-msec-out>
<update-timer-running-out> [ <update-timer-due-in> ] [ { TABLE_process_lvl <level-out>
<level-distributing-out> [ { TABLE_ls_node [ <node-id-out> ] [ <node-name-out> ] [ { TABLE_ls_lsp
<lsp-id-out> <lsp-name-out> <lsp-purged-out> [ <node-grpid-out> ] [ <prefix-grpid-out> ] [ <link-grpid-out>
] [ <node-attr-bitfield-out> ] [ <node-flags-out> ] [ <attached-bit-out> ] [ <overloaded-bit-out> ] [ <area-id-out>
] [ <area-length-out> ] [ <name-out> ] [ <ipv4-id-out> ] [ { TABLE_srgb <number-out> <start-out> <size-out>
} ] [ <sr-algo-count-out> ] [ { TABLE_sr_algo <algo-out> } ] [ { TABLE_ls_link <nbr-node-out>
<local-ip-out> <remote-ip-out> [ <link-attr-bitfield-out> ] [ <metric-out> ] [ <local-ip-attr-out> ] [
<remote-ip-attr-out> ] [ <admin-group-out> ] [ <max-link-bw-out> ] [ <max-resv-bw-out> ] [ {
TABLE_unresv_bw <number-out> <bw-out> } ] [ <metric-te-out> ] [ { TABLE_adj_sid <asid-out> <flag-out>
<weight-out> } ] } ] [ { TABLE_ls_prefix <prefix-out> <prefix-len-out> [ <prefix-attr-bitfield-out> ] [
<metric-out> ] [ { TABLE_sid <sid-out> <algo-out> <flags-out> } ] } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
distribute-ls	Link-state distribution database
system-id	(Optional) Hostname or System ID
<i>sid</i>	(Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX)
lsp-id	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
<i>lid</i>	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
brief	(Optional) Short output
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>vrf-name-out</i>	(Optional)

<i>vrf-id-out</i>	(Optional)
<i>lplib-connection-out</i>	(Optional)
<i>client-type-out</i>	(Optional)
<i>protocol-instance-out</i>	(Optional)
<i>nxos-instance-out</i>	(Optional)
<i>ha-recovery-out</i>	(Optional)
<i>queue-all-out</i>	(Optional)
<i>update-timer-sec-out</i>	(Optional)
<i>update-timer-msec-out</i>	(Optional)
<i>update-timer-running-out</i>	(Optional)
<i>update-timer-due-in</i>	(Optional)
TABLE_process_lvl	(Optional)
<i>level-out</i>	(Optional)
<i>level-distributing-out</i>	(Optional)
TABLE_ls_node	(Optional)
<i>node-id-out</i>	(Optional)
<i>node-name-out</i>	(Optional)
TABLE_ls_lsp	(Optional)
<i>lsp-id-out</i>	(Optional)
<i>lsp-name-out</i>	(Optional)
<i>lsp-purged-out</i>	(Optional)
<i>node-grpid-out</i>	(Optional)
<i>prefix-grpid-out</i>	(Optional)
<i>link-grpid-out</i>	(Optional)
<i>node-attr-bitfield-out</i>	(Optional)
<i>node-flags-out</i>	(Optional)
<i>attached-bit-out</i>	(Optional)
<i>overloaded-bit-out</i>	(Optional)
<i>area-id-out</i>	(Optional)

<i>area-length-out</i>	(Optional)
<i>name-out</i>	(Optional)
<i>ipv4-id-out</i>	(Optional)
TABLE_srgb	(Optional)
<i>number-out</i>	(Optional)
<i>start-out</i>	(Optional)
<i>size-out</i>	(Optional)
<i>sr-algo-count-out</i>	(Optional)
TABLE_sr_algo	(Optional)
<i>algo-out</i>	(Optional)
TABLE_ls_link	(Optional)
<i>nbr-node-out</i>	(Optional)
<i>local-ip-out</i>	(Optional)
<i>remote-ip-out</i>	(Optional)
<i>link-attr-bitfield-out</i>	(Optional)
<i>metric-out</i>	(Optional)
<i>local-ip-attr-out</i>	(Optional)
<i>remote-ip-attr-out</i>	(Optional)
<i>admin-group-out</i>	(Optional)
<i>max-link-bw-out</i>	(Optional)
<i>max-resv-bw-out</i>	(Optional)
TABLE_unresv_bw	(Optional)
<i>number-out</i>	(Optional)
<i>bw-out</i>	(Optional)
<i>metric-te-out</i>	(Optional)
TABLE_adj_sid	(Optional)
<i>asid-out</i>	(Optional)
<i>flag-out</i>	(Optional)
<i>weight-out</i>	(Optional)

TABLE_ls_prefix	(Optional)
<i>prefix-out</i>	(Optional)
<i>prefix-len-out</i>	(Optional)
<i>prefix-attr-bitfield-out</i>	(Optional)
<i>metric-out</i>	(Optional)
TABLE_sid	(Optional)
<i>sid-out</i>	(Optional)
<i>algo-out</i>	(Optional)
<i>flags-out</i>	(Optional)

Command Mode

- /exec

<i>df-primary-leader-algo-name</i>	(Optional)
<i>df-primary-leader-algo-out</i>	(Optional)
<i>df-primary-leader-priority-out</i>	(Optional)
<i>df-primary-leader-sysid-out</i>	(Optional)
<i>df-secondary-leader-level-out</i>	(Optional)
<i>df-secondary-leader-algo-name-out</i>	(Optional)
<i>df-secondary-leader-algo-out</i>	(Optional)
<i>df-secondary-leader-priority-out</i>	(Optional)
<i>df-secondary-leader-sysid-out</i>	(Optional)
<i>df-reach-matrix-level-out</i>	(Optional)
TABLE_source_info	(Optional)
<i>df-reach-source-id-info</i>	(Optional)
TABLE_neighbor_info	(Optional)
<i>df-reach-neighbor-id-out</i>	(Optional)
<i>df-neighbor-overall-out</i>	(Optional)
<i>df-neighbor-tree1-out</i>	(Optional)
<i>df-neighbor-tree2-out</i>	(Optional)
<i>df-neighbor-interface-id-out</i>	(Optional)
<i>df-neighbor-name-out</i>	(Optional)
TABLE_FT_interface_info	(Optional)
<i>df-ft-interface-name-out</i>	(Optional)
TABLE_Temp_interface_info	(Optional)
<i>df-temp-ft-interface-name-out</i>	(Optional)
TABLE_broadcast_interfaceinfo	(Optional)
<i>df-interface-name-out</i>	(Optional)

Command Mode

- /exec

show isis interface

```
show isis [<isis-tag>] [vrf {<vrf-name> | <vrf-known-name> | all}] interface [brief | <interface>] [level-1 | level-2] [vrf {<vrf-name> | <vrf-known-name> | all}] [ __readonly__ { TABLE_process_tag
<process-tag-out> { TABLE_vrf <vrf-name-out> [ { TABLE_interface [ { <intfb-name-out> <intfb-type-out>
<intfb-ix-out> <intfb-state-out> <intfb-ready-state-out> <intfb-cid-out> <intfb-ckt-type-out> <intfb-mtu-out>
[ { <intf-p2p-metric-lvl-1-out> <intf-p2p-metric-lvl-2-out> <intf-p2p-prio-lvl-1-out> <intf-p2p-prio-lvl-2-out>
<intf-p2p-adj-count-lvl-1-out> <intf-p2p-adj-up-count-lvl-1-out> <intf-p2p-adj-count-lvl-2-out>
<intf-p2p-adj-up-count-lvl-2-out> } ] [ { <intf-loopback-metric-lvl-1-out> <intf-loopback-metric-lvl-2-out>
<intf-loopback-prio-lvl-1-out> <intf-loopback-prio-lvl-2-out> <intf-loopback-adj-count-lvl-1-out>
<intf-loopback-adj-up-count-lvl-1-out> <intf-loopback-adj-count-lvl-2-out>
<intf-loopback-adj-up-count-lvl-2-out> } ] [ { <intf-bcast-metric-lvl-1-out> <intf-bcast-metric-lvl-2-out>
<intf-bcast-prio-lvl-1-out> <intf-bcast-prio-lvl-2-out> <intf-bcast-adj-count-lvl-1-out>
<intf-bcast-adj-up-count-lvl-1-out> <intf-bcast-adj-count-lvl-2-out> <intf-bcast-adj-up-count-lvl-2-out> } ]
} ] [ { <intf-name-out> <intf-status-out> } ] [ { <intf-state-out> <intf-internal-state-out> [
<intf-cib-disabled-out> ] [ <intf-cid-invalid-out> } ] ] [ <intf-admin-group-out> <intf-admin-group-stale-out>
] [ { TABLE_auth [ { <intf-auth-info-out> [ <intf-auth-kchain-out> ] <intf-auth-chk-info-out> } ] ] [ {
<intf-ix-out> <intf-cid-out> <intf-ckt-type-out> } ] [ { <prefix-suppression-state-out> <suppressed-ix-out>
} ] ] [ { TABLE_advertise_passive_lvl [ { <advertise-passive-level-out> <advertise-passive-ipv4-state-out>
<advertise-passive-ipv6-state-out> } ] ] [ { TABLE_bfd [ <intf-bfd-ipv4-state-out> ] [
<intf-bfd-ipv6-state-out> } ] ] [ <intf-passive-mask-out> ] [ <intf-passive-mask-lvl-out> ] [ <intf-mgrp-set-out>
] [ <intf-mgrp-state-out> ] [ <intf-mgrp-id-out> ] [ <intf-p2p-type-out> ] [ { <intf-p2p-ext-local-cid-out>
<intf-p2p-cid-out> <intf-retx-intv-out> <intf-retx-throttle-out> } ] [ <intf-loopback-type-out> ] [ {
<intf-lsp-intv-out> <intf-mtu-out> [ <intf-hpad-state-out> } ] ] [ { <intf-p2p-pad-ts-out> ]
<intf-p2p-adj-count-out> <intf-p2p-adj-up-count-out> <intf-p2p-prio-out> <intf-p2p-hello-intv-out>
<intf-p2p-hello-multi-out> <intf-p2p-hello-next-out> [ { TABLE_p2p <intf-p2p-lvl-out> <intf-p2p-adj-lvl-out>
<intf-p2p-adj-up-lvl-out> <intf-p2p-metric-lvl-out> <intf-p2p-csnp-lvl-out> <intf-p2p-csnp-nxt-lvl-out>
<intf-p2p-lspid-last-lvl-out> } ] ] [ { <intf-bcast-type-out> [ { TABLE_bcast_pad [ { <intf-bcast-lvl-out>
<intf-bcast-pad-ts-out> } ] ] [ { TABLE_bcast_dis [ { <intf-bcast-lvl-dis-out> <intf-bcast-dis-ts-out> } ] ]
} ] ] [ { TABLE_bcast_pkt <intf-bcast-lvl-info-out> <intf-bcast-lvl-metric-0-out> <intf-bcast-lvl-metric-2-out>
<intf-bcast-lvl-csnp-intv-out> <intf-bcast-lvl-csnp-next-out> <intf-bcast-lvl-iih-intv-out>
<intf-bcast-lvl-iih-multi-out> <intf-bcast-lvl-iih-next-out> } ] [ { TABLE_bcast_adj <intf-bcast-lvl-value-out>
<intf-bcast-lvl-adj-out> <intf-bcast-lvl-adj-up-out> <intf-bcast-lvl-prio-out> <intf-bcast-lvl-ctid-out>
<intf-bcast-lvl-ctid-ts-out> } ] ] [ { TABLE_loopback <intf-loopback-lvl-out> <intf-loopback-lvl-metric-out>
} ] [ <intf-unknown-out> } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

brief	(Optional) Brief display of IS-IS interfaces
interface	Display IS-IS interface information
level-1	(Optional) Display Level-1 interfaces
level-2	(Optional) Display level-2 interfaces
<i>interface</i>	(Optional) IS-IS interface
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_interface	(Optional)
<i>intf-status-out</i>	(Optional)
<i>intf-name-out</i>	(Optional)
<i>intf-ix-out</i>	(Optional)
<i>intf-state-out</i>	(Optional)
<i>intf-cid-out</i>	(Optional)
<i>intf-ckt-type-out</i>	(Optional)
<i>intfb-name-out</i>	(Optional)
<i>intfb-type-out</i>	(Optional)
<i>intfb-ix-out</i>	(Optional)
<i>intfb-state-out</i>	(Optional)
<i>intfb-ready-state-out</i>	(Optional)
<i>intfb-cid-out</i>	(Optional)
<i>intfb-ckt-type-out</i>	(Optional)
<i>intf-p2p-metric-lvl-1-out</i>	(Optional)
<i>intf-p2p-metric-lvl-2-out</i>	(Optional)
<i>intf-p2p-prio-lvl-1-out</i>	(Optional)
<i>intf-p2p-prio-lvl-2-out</i>	(Optional)
<i>intf-p2p-adj-count-lvl-1-out</i>	(Optional)

<i>intf-p2p-adj-count-lvl-2-out</i>	(Optional)
<i>intf-p2p-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-p2p-adj-up-count-lvl-2-out</i>	(Optional)
<i>intf-loopback-metric-lvl-1-out</i>	(Optional)
<i>intf-loopback-metric-lvl-2-out</i>	(Optional)
<i>intf-loopback-prio-lvl-1-out</i>	(Optional)
<i>intf-loopback-prio-lvl-2-out</i>	(Optional)
<i>intf-loopback-adj-count-lvl-1-out</i>	(Optional)
<i>intf-loopback-adj-count-lvl-2-out</i>	(Optional)
<i>intf-loopback-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-loopback-adj-up-count-lvl-2-out</i>	(Optional)
<i>intf-bcast-metric-lvl-1-out</i>	(Optional)
<i>intf-bcast-metric-lvl-2-out</i>	(Optional)
<i>intf-bcast-prio-lvl-1-out</i>	(Optional)
<i>intf-bcast-prio-lvl-2-out</i>	(Optional)
<i>intf-bcast-adj-count-lvl-1-out</i>	(Optional)
<i>intf-bcast-adj-count-lvl-2-out</i>	(Optional)
<i>intf-bcast-adj-up-count-lvl-1-out</i>	(Optional)
<i>intf-bcast-adj-up-count-lvl-2-out</i>	(Optional)
<i>intf-internal-state-out</i>	(Optional)
<i>intf-cib-disabled-out</i>	(Optional)
<i>intf-cid-invalid-out</i>	(Optional)
<i>intf-admin-group-out</i>	(Optional)
<i>intf-admin-group-stale-out</i>	(Optional)
TABLE_auth	(Optional)
<i>intf-auth-info-out</i>	(Optional)
<i>intf-auth-kchain-out</i>	(Optional)
<i>intf-auth-chk-info-out</i>	(Optional)
<i>prefix-suppression-state-out</i>	(Optional)

<i>suppressed-ix-out</i>	(Optional)
TABLE_advertise_passive_lvl	(Optional)
<i>advertise-passive-level-out</i>	(Optional)
<i>advertise-passive-ipv4-state-out</i>	(Optional)
<i>advertise-passive-ipv6-state-out</i>	(Optional)
TABLE_bfd	(Optional)
<i>intf-bfd-ipv4-state-out</i>	(Optional)
<i>intf-bfd-ipv6-state-out</i>	(Optional)
<i>intf-passive-mask-out</i>	(Optional)
<i>intf-passive-mask-lvl-out</i>	(Optional)
<i>intf-mgrp-set-out</i>	(Optional)
<i>intf-mgrp-state-out</i>	(Optional)
<i>intf-mgrp-id-out</i>	(Optional)
<i>intf-p2p-type-out</i>	(Optional)
<i>intf-p2p-ext-local-cid-out</i>	(Optional)
<i>intf-p2p-cid-out</i>	(Optional)
<i>intf-retx-intv-out</i>	(Optional)
<i>intf-retx-throttle-out</i>	(Optional)
<i>intf-loopback-type-out</i>	(Optional)
<i>intf-lsp-intv-out</i>	(Optional)
<i>intf-mtu-out</i>	(Optional)
<i>intfb-mtu-out</i>	(Optional)
<i>intf-hpad-state-out</i>	(Optional)
<i>intf-p2p-pad-ts-out</i>	(Optional)
<i>intf-p2p-adj-count-out</i>	(Optional)
<i>intf-p2p-adj-up-count-out</i>	(Optional)
<i>intf-p2p-prio-out</i>	(Optional)
<i>intf-p2p-hello-intv-out</i>	(Optional)
<i>intf-p2p-hello-multi-out</i>	(Optional)

<i>intf-p2p-hello-next-out</i>	(Optional)
TABLE_p2p	(Optional)
<i>intf-p2p-lvl-out</i>	(Optional)
<i>intf-p2p-adj-lvl-out</i>	(Optional)
<i>intf-p2p-adj-up-lvl-out</i>	(Optional)
<i>intf-p2p-metric-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-lvl-out</i>	(Optional)
<i>intf-p2p-csnp-nxt-lvl-out</i>	(Optional)
<i>intf-p2p-lspid-last-lvl-out</i>	(Optional)
<i>intf-bcast-type-out</i>	(Optional)
TABLE_bcast_pad	(Optional)
<i>intf-bcast-lvl-out</i>	(Optional)
<i>intf-bcast-pad-ts-out</i>	(Optional)
TABLE_bcast_dis	(Optional)
<i>intf-bcast-lvl-dis-out</i>	(Optional)
<i>intf-bcast-dis-ts-out</i>	(Optional)
TABLE_bcast_pkt	(Optional)
<i>intf-bcast-lvl-info-out</i>	(Optional)
<i>intf-bcast-lvl-metric-0-out</i>	(Optional)
<i>intf-bcast-lvl-metric-2-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-intv-out</i>	(Optional)
<i>intf-bcast-lvl-csnp-next-out</i>	(Optional)
<i>intf-bcast-lvl-iih-intv-out</i>	(Optional)
<i>intf-bcast-lvl-iih-multi-out</i>	(Optional)
<i>intf-bcast-lvl-iih-next-out</i>	(Optional)
TABLE_bcast_adj	(Optional)
<i>intf-bcast-lvl-value-out</i>	(Optional)
<i>intf-bcast-lvl-adj-out</i>	(Optional)
<i>intf-bcast-lvl-adj-up-out</i>	(Optional)

<i>intf-bcast-lvl-prio-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-out</i>	(Optional)
<i>intf-bcast-lvl-ctid-ts-out</i>	(Optional)
TABLE_loopback	(Optional)
<i>intf-loopback-lvl-out</i>	(Optional)
<i>intf-loopback-lvl-metric-out</i>	(Optional)
<i>intf-unknown-out</i>	(Optional)

Command Mode

- /exec

<i>process-tag-out</i>	(Optional)
<i>redist-route-ipv6-vrf</i>	(Optional)
<i>redist-route-ipv6-topo-id</i>	(Optional)
<i>redist-route-ipv6-af-ix</i>	(Optional)
TABLE_one_route	(Optional)
<i>redist-route-ipv6-prefix</i>	(Optional)
<i>redist-route-ipv6-mask-len</i>	(Optional)
<i>redist-route-ipv6-stale</i>	(Optional)
<i>redist-route-ipv6-pib-name</i>	(Optional)
<i>redist-route-ipv6-direct-mask</i>	(Optional)
<i>redist-route-ipv6-route-type</i>	(Optional)
TABLE_redist	(Optional)
<i>redist-route-ipv6-status</i>	(Optional)
<i>redist-route-ipv6-level</i>	(Optional)
<i>redist-route-ipv6-metric</i>	(Optional)
<i>redist-route-ipv6-sum-addr-prefix</i>	(Optional)
<i>redist-route-ipv6-sum-addr-mask-len</i>	(Optional)
<i>redist-route-ipv6-summary-addr-prefix</i>	(Optional)
<i>redist-route-ipv6-summary-addr-mask-len</i>	(Optional)
<i>redist-route-ipv6-summary-route-total</i>	(Optional)
TABLE_protocol	(Optional)
<i>redist-route-ipv6-summary-pib-name</i>	(Optional)
<i>redist-route-ipv6-summary-prot-route-total</i>	(Optional)
<i>redist-route-ipv6-summary-pending-total</i>	(Optional)
TABLE_mask_len	(Optional)
<i>redist-route-ipv6-summary-mask-len-ix</i>	(Optional)
<i>redist-route-ipv6-summary-mask-len</i>	(Optional)

Command Mode

- /exec

detail	(Optional) Display detail route information
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<u>__readonly__</u>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>topo-id-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
TABLE_prefix	(Optional)
<i>route-prefix-out</i>	(Optional)
<i>route-mask-len-out</i>	(Optional)
<i>route-level-out</i>	(Optional)
<i>route-summ-discard-addr-out</i>	(Optional)
<i>route-summ-discard-mask-len-out</i>	(Optional)
<i>route-discard-addr-out</i>	(Optional)
<i>route-discard-mask-len-out</i>	(Optional)
<i>route-addr-print-out</i>	(Optional)
<i>route-mask-len-print-out</i>	(Optional)
<i>route-direct-print-out</i>	(Optional)
TABLE_direct_path	(Optional)
<i>route-direct-out</i>	(Optional)
<i>route-direct-via-out</i>	(Optional)
<i>route-direct-if-name-out</i>	(Optional)
<i>route-direct-metric-out</i>	(Optional)
<i>route-direct-level-out</i>	(Optional)
<i>route-direct-instance-out</i>	(Optional)
TABLE_best_path	(Optional)
<i>route-no-def-prefix-out</i>	(Optional)

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

<i>backup-path-sum-lvl-out</i>	(Optional)
<i>backup-path-sum-total-out</i>	(Optional)
<i>backup-path-sum-direct-out</i>	(Optional)
<i>backup-path-sum-normal-out</i>	(Optional)
<i>route-bestroutes-per-mask-out</i>	(Optional)
TABLE_best_mask	(Optional)
<i>route-best-mask-val-out</i>	(Optional)
<i>route-best-mask-count-out</i>	(Optional)
<i>route-pend-q-count-out</i>	(Optional)

Command Mode

- /exec

<i>addr-metric-absent-out</i>	(Optional)
<i>addr-metric-out</i>	(Optional)
<i>addr-route-count-out</i>	(Optional)

Command Mode

- /exec

show isis lslib

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] lslib [ cache [ nodes | links | prefixes
| node <s0> | link <s1> | prefix <s2> | links-of-node <s3> | prefixes-of-node <s4> ] [ detail ] ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
lslib	LSLIB client information
cache	(Optional) Link-state cache in LSLIB
nodes	(Optional) All Node objects
links	(Optional) All Link objects
prefixes	(Optional) All Prefix objects
node	(Optional) One node object information
<i>s0</i>	(Optional) Node information
link	(Optional) One link object information
<i>s1</i>	(Optional) Link information
prefix	(Optional) One prefix object information
<i>s2</i>	(Optional) Prefix information
links-of-node	(Optional) All links information of a node
<i>s3</i>	(Optional) Node information
prefixes-of-node	(Optional) All prefixes information of a node
<i>s4</i>	(Optional) Node information
detail	(Optional) Detailed info
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show isis mesh-group

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] mesh-group [ <mesh-id> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <vrf-name-out> <tag-out> [
<mesh-id-set-out> ] [ <mesh-id-invalid-out> ] [ <mesh-id-none-out> ] [ { TABLE_meshid <mesh-set-id-out>
[ { TABLE_if <mesh-id-intf-name-out> } } ] ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mesh-group	Display IS-IS mesh-groups
<i>mesh-id</i>	(Optional) Display a single mesh-group
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>tag-out</i>	(Optional)
<i>mesh-id-set-out</i>	(Optional)
<i>mesh-id-invalid-out</i>	(Optional)
<i>mesh-id-none-out</i>	(Optional)
TABLE_meshid	(Optional)
<i>mesh-set-id-out</i>	(Optional)
TABLE_if	(Optional)
<i>mesh-id-intf-name-out</i>	(Optional)

Command Mode

- /exec

show isis redistribute route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] redistribute route [ summary |
<ip-addr> | <ip-prefix> [ longer-prefixes [ summary ] ] ] [ direct-mask ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <redist-route-vrf> [ <redist-route-af-ix> ] [
{ TABLE_one_route <redist-route-prefix> [ <redist-route-mask-len> ] [ <redist-route-stale> ] [
<redist-route-pib-name> ] [ <redist-route-direct-mask> ] [ <redist-route-route-type> ] [ { TABLE_redist
<redist-route-status> <redist-route-level> [ <redist-route-metric> ] [ <redist-route-sum-addr-prefix> ] [
<redist-route-sum-addr-mask-len> ] } ] } ] [ <redist-route-summary-addr-prefix> ] [
<redist-route-summary-addr-mask-len> ] [ <redist-route-summary-route-total> ] [ { TABLE_protocol
<redist-route-summary-pib-name> [ <redist-route-summary-prot-route-total> ] } ] [
<redist-route-summary-pending-total> ] [ { TABLE_mask_len <redist-route-summary-mask-len-ix> [
<redist-route-summary-mask-len> ] } ] ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ip	(Optional) Display IS-IS IPv4 information
<i>ip-addr</i>	(Optional) Display single IP redistribute route
<i>ip-prefix</i>	(Optional) Display single exact match IP redistribute route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
direct-mask	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<u>__readonly__</u>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>redist-route-vrf</i>	(Optional)

<i>redist-route-af-ix</i>	(Optional)
TABLE_one_route	(Optional)
<i>redist-route-prefix</i>	(Optional)
<i>redist-route-mask-len</i>	(Optional)
<i>redist-route-stale</i>	(Optional)
<i>redist-route-pib-name</i>	(Optional)
<i>redist-route-direct-mask</i>	(Optional)
<i>redist-route-route-type</i>	(Optional)
TABLE_redist	(Optional)
<i>redist-route-status</i>	(Optional)
<i>redist-route-level</i>	(Optional)
<i>redist-route-metric</i>	(Optional)
<i>redist-route-sum-addr-prefix</i>	(Optional)
<i>redist-route-sum-addr-mask-len</i>	(Optional)
<i>redist-route-summary-addr-prefix</i>	(Optional)
<i>redist-route-summary-addr-mask-len</i>	(Optional)
<i>redist-route-summary-route-total</i>	(Optional)
TABLE_protocol	(Optional)
<i>redist-route-summary-pib-name</i>	(Optional)
<i>redist-route-summary-prot-route-total</i>	(Optional)
<i>redist-route-summary-pending-total</i>	(Optional)
TABLE_mask_len	(Optional)
<i>redist-route-summary-mask-len-ix</i>	(Optional)
<i>redist-route-summary-mask-len</i>	(Optional)

Command Mode

- /exec

show isis route

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

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
route	Display IS-IS route information
<i>ip-addr</i>	(Optional) Display single IP route
<i>ip-prefix</i>	(Optional) Display single exact match IP route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
detail	(Optional) Display detail route information
private	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

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

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

<i>backup-path-sum-normal-out</i>	(Optional)
<i>route-bestroutes-per-mask-out</i>	(Optional)
TABLE_best_mask	(Optional)
<i>route-best-mask-val-out</i>	(Optional)
<i>route-best-mask-count-out</i>	(Optional)
<i>route-pend-q-count-out</i>	(Optional)

Command Mode

- /exec

<i>rrm-dbase-hdr</i>	(Optional)
<i>rrm-timestamp</i>	(Optional)
<i>rrm-lsp-retx-instance</i>	(Optional)
<i>rrm-lsp-db-instance</i>	(Optional)
<i>rrm-rrm-set</i>	(Optional)
<i>rrm-srm-set</i>	(Optional)

Command Mode

- /exec

show isis segment-routing mapcache

```
show isis [ <isis-tag> ] segment-routing mapcache [ level-1 | level-2 ] [ <ipv4-prefix> ] [ sid <sr-sid> ] [ vrf
{ <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> {
TABLE_vrf <vrf-name-out> <srmap-v4-state> <srmap-v6-state> [ { TABLE_srmap_level <srmap-level> [
{ TABLE_srmap_pfxsid <srmap-pfxsid> <srmap-lsp-id> <srmap-pfxsid-valid> <srmap-pfxsid-flags>
<srmap-prefix> } ] } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
segment-routing	show segment-routing information
mapcache	prefix-sid mappings
level-1	(Optional) show information for level 1 only
level-2	(Optional) show information for level 2 only
<i>ipv4-prefix</i>	(Optional) Display single exact match IP route
sid	(Optional) show information for this SR SID value
<i>sr-sid</i>	(Optional) SR SID value
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>srmap-v4-state</i>	(Optional)
<i>srmap-v6-state</i>	(Optional)
TABLE_srmap_level	(Optional)
<i>srmap-level</i>	(Optional)

TABLE_srmap_pfxsid	(Optional)
<i>srmap-pfxsid</i>	(Optional)
<i>srmap-lsp-id</i>	(Optional)
<i>srmap-pfxsid-valid</i>	(Optional)
<i>srmap-pfxsid-flags</i>	(Optional)
<i>srmap-prefix</i>	(Optional)

Command Mode

- /exec

show isis segment-routing remote-srgb

```
show isis [ <isis-tag> ] segment-routing remote-srgb [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <sr-v4-state>
<sr-v6-state> [ { TABLE_srgb_lsp <srgb-level> <srgb-lspid> <srgb-num-entries> <srgb-flags> [ {
TABLE_srgb_label <srgb-start-label> <srgb-range> } ] } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
segment-routing	show segment-routing information
remote-srgb	remote SR ranges
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>sr-v4-state</i>	(Optional)
<i>sr-v6-state</i>	(Optional)
TABLE_srgb_lsp	(Optional)
<i>srgb-level</i>	(Optional)
<i>srgb-lspid</i>	(Optional)
<i>srgb-num-entries</i>	(Optional)
<i>srgb-flags</i>	(Optional)
TABLE_srgb_label	(Optional)
<i>srgb-start-label</i>	(Optional)

<i>srgb-range</i>	(Optional)
-------------------	------------

Command Mode

- /exec

show isis segment-routing sids

```
show isis [ <isis-tag> ] segment-routing sids [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
{ TABLE_process_tag <process-tag-out> <vrf-name-out> [ { TABLE_sr_sids <sr-sid> [ <sr-prefix> ] [
<sr-local-flag> ] [ <sr-conflict-flag> ] } } ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
segment-routing	show segment-routing information
sids	sid database
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_sr_sids	(Optional)
<i>sr-sid</i>	(Optional)
<i>sr-prefix</i>	(Optional)
<i>sr-local-flag</i>	(Optional)
<i>sr-conflict-flag</i>	(Optional)

Command Mode

- /exec

show isis segment-routing srv6

```
show isis [ <isis-tag> ] segment-routing srv6 [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
{ TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <vrf-id-out> <srv6-enabled-out>
<sidmgr-registered-out> } } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
segment-routing	Segment-routing properties
srv6	Segment-routing for IPv6
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>vrf-id-out</i>	(Optional)
<i>srv6-enabled-out</i>	(Optional)
<i>sidmgr-registered-out</i>	(Optional)

Command Mode

- /exec

show isis segment-routing srv6 locators

```
show isis [ <isis-tag> ] segment-routing srv6 locators [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <vrf-id-out>
<srv6-enabled-out> [ { TABLE_locators <name-out> <active-out> [ <ipv6-prefix-out> ] [ <mask-len-out> ]
<sidmgr-cfg-complete-out> <isis-cfg-complete-out> <stale-locator-out> [ { TABLE_level <level-out>
<advertised> [ <lsp-id-out> ] } ] } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
segment-routing	Segment-routing properties
srv6	Segment-routing for IPv6
locators	IS-IS SRv6 Locator Table
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>vrf-id-out</i>	(Optional)
<i>srv6-enabled-out</i>	(Optional)
TABLE_locators	(Optional)
<i>name-out</i>	(Optional)
<i>active-out</i>	(Optional)
<i>ipv6-prefix-out</i>	(Optional)
<i>mask-len-out</i>	(Optional)
<i>sidmgr-cfg-complete-out</i>	(Optional)

<i>isis-cfg-complete-out</i>	(Optional)
<i>stale-locator-out</i>	(Optional)
TABLE_level	(Optional)
<i>level-out</i>	(Optional)
<i>advertised</i>	(Optional)
<i>lsp-id-out</i>	(Optional)

Command Mode

- /exec

show isis spf-log

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] spf-log [ detail ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ [ { TABLE_process_tag [ <process-tag-out> ] [ <vrf-name-out>
] [ { TABLE_topo [ <topo-id-out> ] [ <spflog-calc-out> ] [ <spflog-size-out> ] [ <spflog-maxsize-out> ] [ {
TABLE_log_detail [ <num-out> ] [ <ts-out> ] [ <date-out> ] [ { TABLE_lvl_detail [ <lvlid-out> ] [
<instance-out> ] [ <init-ts-out> ] [ <ts-lvl-out> ] } ] [ <ts-is-out> ] [ <ts-urib-out> ] [ <ts-elapsed-out> ] [ {
TABLE_lvl_second [ <lvls-out> ] [ <spf-node-out> ] [ <spf-cnt-out> ] [ <changed-cnt-out> ] [ <spf-reason-out>
] } ] } ] [ { TABLE_log_brief [ <ago-time-out> ] [ { TABLE_lvl [ <lvl-out> ] [ <reason-out> ] [ <count-out>
] } ] [ <elapsed-ts-out> ] } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
spf-log	Display IS-IS SPF information
detail	(Optional) Display detail ISIS SPF information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_topo	(Optional)
<i>topo-id-out</i>	(Optional)
<i>spflog-calc-out</i>	(Optional)
<i>spflog-size-out</i>	(Optional)
<i>spflog-maxsize-out</i>	(Optional)
TABLE_log_detail	(Optional)
<i>num-out</i>	(Optional)
<i>ts-out</i>	(Optional)

<i>date-out</i>	(Optional)
TABLE_lvl_detail	(Optional)
<i>lvld-out</i>	(Optional)
<i>instance-out</i>	(Optional)
<i>init-ts-out</i>	(Optional)
<i>ts-lvl-out</i>	(Optional)
<i>ts-is-out</i>	(Optional)
<i>ts-urib-out</i>	(Optional)
<i>ts-elapsed-out</i>	(Optional)
TABLE_lvl_second	(Optional)
<i>lvls-out</i>	(Optional)
<i>spf-node-out</i>	(Optional)
<i>spf-cnt-out</i>	(Optional)
<i>changed-cnt-out</i>	(Optional)
<i>spf-reason-out</i>	(Optional)
TABLE_log_brief	(Optional)
<i>ago-time-out</i>	(Optional)
TABLE_lvl	(Optional)
<i>lvl-out</i>	(Optional)
<i>reason-out</i>	(Optional)
<i>count-out</i>	(Optional)
<i>elapsed-ts-out</i>	(Optional)

Command Mode

- /exec

show isis srm

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] srm <interface> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <srm-if-name> [ { TABLE_srm <srm-level> <srm-if-eligible> <srm-if-not-on-srm-list> <srm-lsp-interval> <srm-next-lsp> <srm-dbase-hdr> } ] } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
srm	Display IS-IS Send-Routing-Message information
<i>interface</i>	IS-IS interface
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>srm-if-name</i>	(Optional)
TABLE_srm	(Optional)
<i>srm-level</i>	(Optional)
<i>srm-if-eligible</i>	(Optional)
<i>srm-if-not-on-srm-list</i>	(Optional)
<i>srm-lsp-interval</i>	(Optional)
<i>srm-next-lsp</i>	(Optional)
<i>srm-dbase-hdr</i>	(Optional)

Command Mode

- /exec

show isis ssn

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ssn <interface> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <snn-if-name> [ { TABLE_ssn <snn-level> <snn-psnp-eligible> <snn-next-psnp> <snn-dbase_hdr> } ] } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ssn	Display IS-IS Send-Sequence-Number information
<i>interface</i>	IS-IS interface
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>snn-if-name</i>	(Optional)
TABLE_ssn	(Optional)
<i>snn-level</i>	(Optional)
<i>snn-psnp-eligible</i>	(Optional)
<i>snn-next-psnp</i>	(Optional)
<i>snn-dbase_hdr</i>	(Optional)

Command Mode

- /exec

show isis statistics

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics [ <interface> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ { TABLE_interface_set [ <stat-if-out> ] [
<process-tag-out> ] [ <vrf-name-out> ] [ <stat-if-name-out> ] [ <stat-spf-calc-out> ] [ <stat-lsp-sourced-out>
] [ <stat-lsp-refresh-out> ] [ <stat-lsp-purge-out> ] [ <stat-dis-elections-out> } } ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Display IS-IS protocol statistics
<i>interface</i>	(Optional) IS-IS interface
<i>__readonly__</i>	(Optional)
<i>TABLE_interface_set</i>	(Optional)
<i>stat-if-out</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>stat-if-name-out</i>	(Optional)
<i>stat-spf-calc-out</i>	(Optional)
<i>stat-lsp-sourced-out</i>	(Optional)
<i>stat-lsp-refresh-out</i>	(Optional)
<i>stat-lsp-purge-out</i>	(Optional)
<i>stat-dis-elections-out</i>	(Optional)

Command Mode

- /exec

show isis summary-address

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] summary-address [ <ip-addr> |
<ip-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<vrf-name-out> <tag-out> <afi-safi-out> [ <addr-absent-out> ] [ { TABLE_addr <sum-prefix-out>
<mask-len-out> <level-out> [ { TABLE_lvl <addr-lvl-out> <addr-num-out> [ <addr-metric-absent-out> ] [
<addr-metric-out> ] [ <addr-route-count-out> } ] } ] ] ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
summary-address	Display IS-IS summary address
<i>ip-addr</i>	(Optional) Display single IP summary address
<i>ip-prefix</i>	(Optional) Display single exact match IP summary address
longer-prefixes	(Optional) Display exact match and more specific summary address
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>tag-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
<i>addr-absent-out</i>	(Optional)
TABLE_addr	(Optional)
<i>sum-prefix-out</i>	(Optional)
<i>mask-len-out</i>	(Optional)
<i>level-out</i>	(Optional)
TABLE_lvl	(Optional)

<i>addr-lvl-out</i>	(Optional)
<i>addr-num-out</i>	(Optional)
<i>addr-metric-absent-out</i>	(Optional)
<i>addr-metric-out</i>	(Optional)
<i>addr-route-count-out</i>	(Optional)

Command Mode

- /exec

show isis topology

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] topology [ base | mt-ipv6 ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <topology-vrf>
<topo-id-out> [ { TABLE_LEVEL <topology-level> [ { TABLE_ONE_ROUTE
<topology-one-route-node-name> [ <topology-one-route-spf-instance> ] [ <topology-one-route-on-path> ] [
<topology-one-route-mt-id> ] [ { TABLE_ONE_ROUTE_NH <topology-one-route-nh-system-name> [
<topology-one-route-nh-if-name> ] [ <topology-one-route-nh-metric> } ] [ { TABLE_ONE_ROUTE_MBEST
<topology-one-route-mbest-system-name> [ <topology-one-route-mbest-if-name> ] [
<topology-one-route-mbest-metric> } ] } ] [ <topology-default-spf-instance> ] [ { TABLE_NH
<topology-nh-system-name> [ <topology-nh-if-name> ] [ <topology-nh-metric> } ] [ { TABLE_MBEST
<topology-mbest-system-name> [ <topology-mbest-if-name> ] [ <topology-mbest-metric> } ] } ] }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
topology	Display IS-IS Topology information
base	(Optional) Display routes for BASE topology
mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
<u>__readonly__</u>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>topology-vrf</i>	(Optional)
<i>topo-id-out</i>	(Optional)
TABLE_LEVEL	(Optional)
<i>topology-level</i>	(Optional)
TABLE_ONE_ROUTE	(Optional)
<i>topology-one-route-node-name</i>	(Optional)
<i>topology-one-route-spf-instance</i>	(Optional)

<i>topology-one-route-on-path</i>	(Optional)
<i>topology-one-route-mt-id</i>	(Optional)
TABLE_ONE_ROUTE_NH	(Optional)
<i>topology-one-route-nh-system-name</i>	(Optional)
<i>topology-one-route-nh-if-name</i>	(Optional)
<i>topology-one-route-nh-metric</i>	(Optional)
TABLE_ONE_ROUTE_MBEST	(Optional)
<i>topology-one-route-mbest-system-name</i>	(Optional)
<i>topology-one-route-mbest-if-name</i>	(Optional)
<i>topology-one-route-mbest-metric</i>	(Optional)
<i>topology-default-spf-instance</i>	(Optional)
TABLE_NH	(Optional)
<i>topology-nh-system-name</i>	(Optional)
<i>topology-nh-if-name</i>	(Optional)
<i>topology-nh-metric</i>	(Optional)
TABLE_MBEST	(Optional)
<i>topology-mbest-system-name</i>	(Optional)
<i>topology-mbest-if-name</i>	(Optional)
<i>topology-mbest-metric</i>	(Optional)

Command Mode

- /exec

show isis traffic

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> ] [ interfaces ] [
mbuf-priority ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag
<process-tag-out> [ { TABLE_vrf [ <vrf-name-out> ] [ { TABLE_interface [ <traffic-if-name-out> ] [
<traffic-lan-iih-out> ] [ <traffic-lan-iih-rcv-out> ] [ <traffic-lan-iih-xmit-out> ] [
<traffic-lan-iih-rcv-auth-err-out> ] [ <traffic-lan-iih-rcv-err-out> ] [ <traffic-p2p-iih-out> ] [
<traffic-p2p-iih-rcv-out> ] [ <traffic-p2p-iih-xmit-out> ] [ <traffic-p2p-iih-rcv-auth-err-out> ] [
<traffic-p2p-iih-rcv-err-out> ] [ <traffic-csnp-out> ] [ <traffic-csnp-rcv-out> ] [ <traffic-csnp-xmit-out> ] [
<traffic-csnp-rcv-auth-err-out> ] [ <traffic-csnp-rcv-err-out> ] [ <traffic-psnp-out> ] [ <traffic-psnp-rcv-out>
] [ <traffic-psnp-xmit-out> ] [ <traffic-psnp-rcv-auth-err-out> ] [ <traffic-psnp-rcv-err-out> ] [ <traffic-lsp-out>
] [ <traffic-lsp-rcv-out> ] [ <traffic-lsp-flood-out> ] [ <traffic-lsp-rcv-auth-err-out> ] [ <traffic-lsp-rcv-err-out>
] [ <traffic-lsp-rexmit-out> ] [ <traffic-xmit-err-out> ] [ <traffic-unknown-pdu-rcv-out> } } ] [
<traffic-lan-iih-out> ] [ <traffic-lan-iih-rcv-out> ] [ <traffic-lan-iih-xmit-out> ] [
<traffic-lan-iih-rcv-auth-err-out> ] [ <traffic-lan-iih-rcv-err-out> ] [ <traffic-p2p-iih-out> ] [
<traffic-p2p-iih-rcv-out> ] [ <traffic-p2p-iih-xmit-out> ] [ <traffic-p2p-iih-rcv-auth-err-out> ] [
<traffic-p2p-iih-rcv-err-out> ] [ <traffic-csnp-out> ] [ <traffic-csnp-rcv-out> ] [ <traffic-csnp-xmit-out> ] [
<traffic-csnp-rcv-auth-err-out> ] [ <traffic-csnp-rcv-err-out> ] [ <traffic-psnp-out> ] [ <traffic-psnp-rcv-out>
] [ <traffic-psnp-xmit-out> ] [ <traffic-psnp-rcv-auth-err-out> ] [ <traffic-psnp-rcv-err-out> ] [ <traffic-lsp-out>
] [ <traffic-lsp-rcv-out> ] [ <traffic-lsp-flood-out> ] [ <traffic-lsp-rcv-auth-err-out> ] [ <traffic-lsp-rcv-err-out>
] [ <traffic-lsp-rexmit-out> ] [ <traffic-xmit-err-out> ] [ <traffic-unknown-pdu-rcv-out> } } } ]
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Display IS-IS traffic information
<i>interface</i>	(Optional) IS-IS interface
interfaces	(Optional) Display IS-IS traffic information for all interfaces
mbuf-priority	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_interface	(Optional)

<i>traffic-if-name-out</i>	(Optional)
<i>traffic-lan-iih-out</i>	(Optional)
<i>traffic-lan-iih-rcv-out</i>	(Optional)
<i>traffic-lan-iih-xmit-out</i>	(Optional)
<i>traffic-lan-iih-rcv-auth-err-out</i>	(Optional)
<i>traffic-lan-iih-rcv-err-out</i>	(Optional)
<i>traffic-p2p-iih-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-out</i>	(Optional)
<i>traffic-p2p-iih-xmit-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-auth-err-out</i>	(Optional)
<i>traffic-p2p-iih-rcv-err-out</i>	(Optional)
<i>traffic-csnp-out</i>	(Optional)
<i>traffic-csnp-rcv-out</i>	(Optional)
<i>traffic-csnp-xmit-out</i>	(Optional)
<i>traffic-csnp-rcv-auth-err-out</i>	(Optional)
<i>traffic-csnp-rcv-err-out</i>	(Optional)
<i>traffic-psnp-out</i>	(Optional)
<i>traffic-psnp-rcv-out</i>	(Optional)
<i>traffic-psnp-xmit-out</i>	(Optional)
<i>traffic-psnp-rcv-auth-err-out</i>	(Optional)
<i>traffic-psnp-rcv-err-out</i>	(Optional)
<i>traffic-lsp-out</i>	(Optional)
<i>traffic-lsp-rcv-out</i>	(Optional)
<i>traffic-lsp-flood-out</i>	(Optional)
<i>traffic-lsp-rcv-auth-err-out</i>	(Optional)
<i>traffic-lsp-rcv-err-out</i>	(Optional)
<i>traffic-lsp-rexmit-out</i>	(Optional)
<i>traffic-xmit-err-out</i>	(Optional)
<i>traffic-unknown-pdu-rcv-out</i>	(Optional)

TABLE_vrf	(Optional)
vrf-name-out	(Optional)
traffic-lan-iih-out	(Optional)
traffic-lan-iih-rcv-out	(Optional)
traffic-lan-iih-xmit-out	(Optional)
traffic-lan-iih-rcv-auth-err-out	(Optional)
traffic-lan-iih-rcv-err-out	(Optional)
traffic-p2p-iih-out	(Optional)
traffic-p2p-iih-rcv-out	(Optional)
traffic-p2p-iih-xmit-out	(Optional)
traffic-p2p-iih-rcv-auth-err-out	(Optional)
traffic-p2p-iih-rcv-err-out	(Optional)
traffic-csnp-out	(Optional)
traffic-csnp-rcv-out	(Optional)
traffic-csnp-xmit-out	(Optional)
traffic-csnp-rcv-auth-err-out	(Optional)
traffic-csnp-rcv-err-out	(Optional)
traffic-psnp-out	(Optional)
traffic-psnp-rcv-out	(Optional)
traffic-psnp-xmit-out	(Optional)
traffic-psnp-rcv-auth-err-out	(Optional)
traffic-psnp-rcv-err-out	(Optional)
traffic-lsp-out	(Optional)
traffic-lsp-rcv-out	(Optional)
traffic-lsp-flood-out	(Optional)
traffic-lsp-rcv-auth-err-out	(Optional)
traffic-lsp-rcv-err-out	(Optional)
traffic-lsp-rexmit-out	(Optional)
traffic-xmit-err-out	(Optional)

<i>traffic-unknown-pdu-rcv-out</i>	(Optional)
------------------------------------	------------

Command Mode

- /exec

show itd

```
show itd [ <svc-name> ] [ brief ] [ __readonly__ ] [ TABLE_summary <is_detail> <is_active> <service_name>
<is_include_acl> <probe> <lb_scheme> <state> <buckets> [ <interface_num> ] [ <interface> ] [
TABLE_interface <interface_grp> ] [ <reason> ] [ <src_interface> ] [ <source_vlan> ] [ <vrf_name> ] [
<excludeACL> ] [ <peer_status> ] <is_l2> [ TABLE_device <device_grp> [ <dg_probe> ] [ <dg_probe_port>
] [ <dg_vrf_name> ] ] [ <is_firstentry_routemap> ] [ TABLE_route_map [ <route_map> ] [
TABLE_rmap_interface [ <r_interface> ] [ <r_status> ] [ <int_track_id> ] ] ] [ TABLE_vip [ <vip_flags> ]
[ <vip_acl_key> ] [ <vip_probe> ] [ <vip_port> ] [ <ace_buckets> ] [ <vip_dgname> ] [ <vip_dg_vrf_name>
] [ <is_firstentry_vip_node> ] [ TABLE_vip_node <is_vip_node_ipv6> <vip_node> [ <vip_node_cluster> ]
<vip_config> <vip_weight> <vip_node_port> <vip_node_probe> <vip_node_probe_port>
<vip_node_probe_ip> <vip_status> <vip_track_id> <vip_ip_sla_id> [ <is_firstentry_standby> ] [
TABLE_vip_standby <is_standby_vip_node_ipv6> <vip_standby_ip> <vip_standby_config>
<vip_standby_weight> <vip_standby_probe> <vip_standby_probe_port> <vip_standby_probe_ip>
<vip_standby_status> <vip_standby_track_id> <vip_standby_sla_id> ] [ <is_firstentry_acl> ] [ TABLE_vip_acl
[ <vip_access_list> ] ] ] [ <is_firstentry> ] [ TABLE_node [ <is_node_ipv6> ] <node> [ <node_cluster> ]
[ <config> ] [ <weight> ] [ <port> ] [ <node_probe> ] [ <node_probe_port> ] [ <node_probe_ip> ] [ <status>
] [ <track_id> ] [ <ip_sla_id> ] [ <is_first_def_stdby> ] [ TABLE_standby <is_standby_node_ipv6>
<standby_ip> <standby_config> <standby_weight> <standby_probe> <standby_probe_port>
<standby_probe_ip> <standby_status> <standby_track_id> <standby_sla_id> ] [ <is_first_defdg_acl> ] [
TABLE_acl [ <access_list> ] ] ] ] [ <is_lastentry> ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
<i>svc-name</i>	(Optional) ITD service name
brief	(Optional) brief
<i>__readonly__</i>	(Optional) Read Only
<i>is_firstentry</i>	(Optional) First entry
<i>is_firstentry_vip_node</i>	(Optional) First VIP node entry
<i>is_detail</i>	(Optional) In detail
<i>is_active</i>	(Optional) Is active
<i>is_firstentry_routemap</i>	(Optional) Is first route-map entry
<i>is_firstentry_acl</i>	(Optional) Is first acl entry
<i>is_firstentry_standby</i>	(Optional) Is first standby entry
<i>is_include_acl</i>	(Optional) Is include acl
<i>is_first_defdg_acl</i>	(Optional) Is first default dg acl
<i>is_l2</i>	(Optional) Is L2 service

TABLE_summary	(Optional)
<i>service_name</i>	(Optional) service_name
<i>probe</i>	(Optional) probe
<i>lb_scheme</i>	(Optional) lb scheme
<i>interface_num</i>	(Optional) Number of ingress interfaces
<i>interface</i>	(Optional) interface
TABLE_interface	(Optional)
<i>interface_grp</i>	(Optional) interface_grp
<i>src_interface</i>	(Optional) source interface for probe
<i>state</i>	(Optional) state
<i>buckets</i>	(Optional) buckets
<i>reason</i>	(Optional) inactive reason
<i>vrf_name</i>	(Optional) VRF-Name
<i>excludeACL</i>	(Optional) exclude access-list
<i>peer_status</i>	(Optional) peer status
TABLE_device	(Optional)
<i>device_grp</i>	(Optional) service device group
<i>dg_probe</i>	(Optional) probe type
<i>dg_probe_port</i>	(Optional) probe port
<i>dg_vrf_name</i>	(Optional) VRF name for device-group
TABLE_route_map	(Optional)
<i>route_map</i>	(Optional) service route map
TABLE_rmap_interface	(Optional)
<i>r_interface</i>	(Optional) interface
<i>r_status</i>	(Optional) route map status
<i>int_track_id</i>	(Optional) interface track id
TABLE_vip	(Optional)
<i>vip_flags</i>	(Optional) VIP encoded flags
<i>vip_acl_key</i>	(Optional) vip ip or acl name

<i>vip_probe</i>	(Optional) vip protocol
<i>vip_port</i>	(Optional) vip port
<i>vip_dgname</i>	(Optional) vip device group
<i>vip_dg_vrf_name</i>	(Optional) VRF name for VIP device-group
<i>ace_buckets</i>	(Optional) ace active buckets
TABLE_vip_node	(Optional)
<i>is_vip_node_ipv6</i>	(Optional) is node ipv6
<i>vip_node</i>	(Optional) service node ip
<i>vip_node_cluster</i>	(Optional) cluster id
<i>vip_config</i>	(Optional) node config
<i>vip_weight</i>	(Optional) node weight
<i>vip_node_port</i>	(Optional) node port
<i>vip_status</i>	(Optional) node status
<i>vip_node_probe</i>	(Optional) node probe type
<i>vip_node_probe_port</i>	(Optional) node probe port
<i>vip_node_probe_ip</i>	(Optional) node probe ip
<i>vip_track_id</i>	(Optional) node track id
<i>vip_ip_sla_id</i>	(Optional) node ip sla id
TABLE_vip_standby	(Optional)
<i>is_standby_vip_node_ipv6</i>	(Optional) is standby node ipv6
<i>vip_standby_ip</i>	(Optional) standby node ip
<i>vip_standby_config</i>	(Optional) standby node config
<i>vip_standby_weight</i>	(Optional) standby node weight
<i>vip_standby_status</i>	(Optional) standby node status
<i>vip_standby_probe</i>	(Optional) standby node probe type
<i>vip_standby_probe_port</i>	(Optional) standby node probe port
<i>vip_standby_probe_ip</i>	(Optional) standby node probe ip
<i>vip_standby_track_id</i>	(Optional) standby node track id
<i>vip_standby_sla_id</i>	(Optional) standby node sla id

TABLE_vip_acl	(Optional)
<i>vip_access_list</i>	(Optional) access list
TABLE_node	(Optional)
<i>is_node_ipv6</i>	(Optional) is node ipv6
<i>node</i>	(Optional) service node ip
<i>node_cluster</i>	(Optional) cluster id
<i>config</i>	(Optional) node config
<i>weight</i>	(Optional) node weight
<i>port</i>	(Optional) node port
<i>status</i>	(Optional) node status
<i>node_probe</i>	(Optional) node probe type
<i>node_probe_port</i>	(Optional) node probe port
<i>node_probe_ip</i>	(Optional) node probe ip
<i>track_id</i>	(Optional) node track id
<i>ip_sla_id</i>	(Optional) node ip sla id
<i>is_first_def_stdby</i>	(Optional) first default dg standby
TABLE_standby	(Optional)
<i>is_standby_node_ipv6</i>	(Optional) is standby node ipv6
<i>standby_ip</i>	(Optional) standby node ip
<i>standby_config</i>	(Optional) standby node config
<i>standby_weight</i>	(Optional) standby node weight
<i>standby_status</i>	(Optional) standby node status
<i>standby_probe</i>	(Optional) standby node probe type
<i>standby_probe_port</i>	(Optional) standby node probe port
<i>standby_probe_ip</i>	(Optional) standby node probe ip
<i>standby_track_id</i>	(Optional) standby node track id
<i>standby_sla_id</i>	(Optional) standby node sla id
TABLE_acl	(Optional)
<i>access_list</i>	(Optional) access list

<i>is_lastentry</i>	(Optional) last entry
<i>source_vlan</i>	(Optional) source vlan for L2 service

Command Mode

- /exec

show itd session device-group

```
show itd session device-group [ <name> ] [ __readonly__ [ TABLE_dg <dg_name> <first_entry> [ TABLE_svc
<node> [ <utrackid> ] [ <clusterid> ] [ <weight> ] ] ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
session	ITD service session
device-group	ITD service session device-group
<i>name</i>	(Optional) ITD Service session name
<i>__readonly__</i>	(Optional) Read Only
TABLE_dg	(Optional)
<i>dg_name</i>	(Optional) Device-group name
<i>first_entry</i>	(Optional)
TABLE_svc	(Optional)
<i>node</i>	(Optional) node
<i>utrackid</i>	(Optional) track for node
<i>clusterid</i>	(Optional) cluster id for node
<i>weight</i>	(Optional) weight for node

Command Mode

- /exec

show itd statistics

```
show itd { <svc-name> | all } [ { src { <src-ip> | <src-IPv6> } } | { dst { <dst-ip> | <dst-IPv6> } } ] statistics
[ brief ] [ __readonly__ [ TABLE_nice [ <is_for_ace> ] <service_name> <dev_grp> [ <vip> ] [ <ace_seq> ]
[ <ace_ip> ] <vip_pkt> <percentage> [ TABLE_node <node_num> [ TABLE_bucket <bucket_acl> <node>
<mode> <orig_node> <acl_pkt> <bucket_per> ] ] [ TABLE_return_pkt <return_node_num> <return_node>
<return_node_pkt> <return_node_percentage> ] [ <return_pkt> ] [ <return_percentage> ] ] ]
```

Syntax Description

show	Show running system information
__readonly__	(Optional) Read Only
itd	ITD service
statistics	ITD statistics
brief	(Optional) brief
<i>svc-name</i>	ITD service name
all	All ITD services
src	(Optional) Statistics for src ip
<i>src-ip</i>	(Optional) Provide statistics for src ip
dst	(Optional) Statistics for dst ip
<i>dst-ip</i>	(Optional) Provide statistics for dst ip
TABLE_nice	(Optional)
<i>is_for_ace</i>	(Optional) ACE/VIP based services
<i>service_name</i>	(Optional) ITD service name
<i>dev_grp</i>	(Optional) device group
<i>vip</i>	(Optional) service virtual ip
<i>ace_seq</i>	(Optional) service ACE name and sequence number
<i>ace_ip</i>	(Optional) service ACE ip/mask/prefix
<i>vip_pkt</i>	(Optional) virtual ip pkt_count
<i>percentage</i>	(Optional) Packet percentage
<i>return_pkt</i>	(Optional) total return traffic packet count
<i>return_percentage</i>	(Optional) total return traffic packet percentage
TABLE_node	(Optional)

<i>node_num</i>	(Optional) Node number
TABLE_bucket	(Optional)
<i>bucket_acl</i>	(Optional) access list
<i>node</i>	(Optional) service node ip
<i>mode</i>	(Optional) Redirect mode
<i>orig_node</i>	(Optional) original node ip
<i>acl_pkt</i>	(Optional) acl pkt count
<i>bucket_per</i>	(Optional) Packet percentage
TABLE_return_pkt	(Optional)
<i>return_node_num</i>	(Optional) Node number
<i>return_node</i>	(Optional) return traffic node ip
<i>return_node_pkt</i>	(Optional) return traffic packet count
<i>return_node_percentage</i>	(Optional) return traffic packet percentage

Command Mode

- /exec

show itd vrf

```
show itd vrf [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <service_name> <vrf_name> <vrf_id> ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
vrf	ITD service vrf
<i>name</i>	(Optional) ITD Service VRF name
<i>__readonly__</i>	(Optional) Read Only
<i>first_entry</i>	(Optional)
TABLE_svc	(Optional)
<i>service_name</i>	(Optional) itd service name
<i>vrf_name</i>	(Optional) vrf name
<i>vrf_id</i>	(Optional) vrf id

Command Mode

- /exec

show itu channel

```
show itu channel { <itu_val> | all } [ __readonly__ TABLE_itu <ituchannel> <frequency> <wavelength> ]
```

Syntax Description

show	Show running system information
itu	Show itu channel mapping
channel	Show itu channel mapping
<i>itu_val</i>	Enter itu channel
all	Show all itu channel mapping
<u>__readonly__</u>	(Optional) Read Only
TABLE_itu	(Optional) show itu channel
<i>ituchannel</i>	(Optional) itu channel
<i>frequency</i>	(Optional) frequency in THz
<i>wavelength</i>	(Optional) wavelength in nm

Command Mode

- /exec

show itu channel