Avaya Command Line Interface Commands Reference

Introduction

This guides describes the Avaya Command Line Interface (ACLI) commands for the configuration of various features in Avaya ERS5600 for the 6.6 release.

This document provides two different ways of navigating ACLI command documentation.

- alphabetically Each command is listed corresponding to the first letter of the command.
- command mode Each command mode page has a list of commands that are available in that mode. Each page is organized alphabetically for those commands in that mode.

Use the 'find-in-page' function of the browser to search for a command based on the page you are viewing. Most browsers launch 'find' using CTRL+F.

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Alphabetized list of commands

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Command mode index

The following command modes are available. Select the command mode to see a list of commands available in that mode.

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Commands starting with B organized alphabetically

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A | B | C | D | E | F | G | H | I | J | L | M | N | O | P | Q | R | S | T | U | V | W

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Commands starting with C organized alphabetically

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- copy usb

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Commands starting with E organized alphabetically

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- flowcontrol

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Commands starting with G organized alphabetically

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Commands starting with H organized alphabetically

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A | B | C | D | E | F | G | H | I | J | L | M | N | O | P | Q | R | S | T | U | V | W

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Commands starting with O organized alphabetically

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- ospf

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A | B | C | D | E | F | G | H | I | J | L | M | N | O | P | Q | R | S | T | U | V | W

Commands starting with T organized alphabetically

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Commands starting with U organized alphabetically

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- ui-button
- usb-host-port
- username

A | B | C | D | E | F | G | H | I | J | L | M | N | O | P | Q | R | S | T | U | V | W

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Commands starting with V organized alphabetically

A | B | C | D | E | F | G | H | I | J | L | M | N | O | P | Q | R | S | T | U | V | W

A | B | C | D | E | F | G | H | I | J | L | M | N | O | P | Q | R | S | T | U | V | W

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Commands starting with W organized alphabetically

A | B | C | D | E | F | G | H | I | J | L | M | N | O | P | Q | R | S | T | U | V | W

- wan-mode
- web-server
- write

A | B | C | D | E | F | G | H | I | J | L | M | N | O | P | Q | R | S | T | U | V | W

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BGP Router Configuration

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- wan-mode

Global configuration mode

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L

M

- mac-security
- maximum-path
- mlt

O

- ospf

P

- password
- poe
- port-mirroring

Q

- qos acl-assign
- qos action
- qos agent aq-mode
- qos agent buffer
- qos agent dos-attack-prevention
- qos agent nvram-delay
- qos agent oper-mode
- qos agent queue-set
- qos agent reset-default
- qos agent reset-partial-default
- qos agent statistics-tracking
- qos agent ubp
- qos classifier
- qos classifier-block
- qos clear-stats
- qos egressmap
- qos if-action-extension
- qos if-assign
- qos if-group
- qos ingressmap
- qos ip-acl
- qos ip-element
- qos l2-acl
- qos l2-element
- qos meter
- qos policy
- qos queue-set-assignment
- qos system-element
- qos traffic-profile classifier
- qos traffic-profile set
- qos ubp classifier
- qos ubp set
- quickconfig (Global configuration mode)

R

- radius accounting
- radius dynamic-server
- radius reachability
- radius server
- radius-server
- radius use-management-ip
- renumber
- rip
- rmon alarm
- rmon event
- rmon history
- rmon stats
- route-map
- router bgp

- router ospf
- router rip
- router vrf
- router vrrp

S

- serial-console
- serial-security
- sftp-server
- slpp
- slpp-guard
- snmp-server bootstrap
- snmp-server community
- snmp-server contact
- snmp-server disable
- snmp-server enable
- snmp-server host
- snmp-server location
- snmp-server name
- snmp-server notification-control
- snmp-server notify-filter
- snmp-server user
- snmp-server view
- sntp enable
- sntp server primary
- sntp server secondary
- sntp sync-interval
- sntp sync-now
- spanning-tree 802dot1d-port-compliance
- spanning-tree add-vlan
- spanning-tree bpdu-filtering
- spanning-tree cost-calc-mode
- spanning-tree forward-time
- spanning-tree hello-time
- spanning-tree max-age
- spanning-tree mode
- spanning-tree multicast-address
- spanning-tree port-mode
- spanning-tree priority
- spanning-tree remove-vlan
- spanning-tree stp
- spanning-tree tagged-bpdu
- spanning-tree tagged-bpdu-vid
- ssh
- sshc
- ssl
- stack auto-unit-replacement
- stack auto-unit-replacement-image
- stack forced-mode
- stack-monitor
- stack reboot-on-failure
- stack replace
- stack retry-count
- storm-control unicast

T

- tacacs accounting
- tacacs authorization
- tacacs server
- tacacs switch
- telnet-access
- tftp-server

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Loopback Interface Configuration

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- ip (Loopback Interface Configuration)

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Privileged EXEC mode

B

- blink-leds
- boot

C

- clear arp-cache
- clear eapol
- clear ip-blocking
- clear ip dhcp-snooping
- clear ip forward-protocol
- clear ip igmp
- clear ip ospf
- clear ipv6 neighbor-cache
- clear license
- clear logging
- clear ssh banner
- clear sshc known-host
- clear stack port-statistics
- clear system last-exception
- clock set
- cmd-interface
- configure network address
- configure network filename
- configure network load-on-boot
- configure sftp
- configure terminal
- configure usb
- copy config nvram
- copy config sftp
- copy config tftp
- copy config usb
- copy nvram
- copy running-config sftp
- copy running-config tftp
- copy running-config usb
- copy sftp config
- copy sftp license
- copy tftp config
- copy tftp license
- copy usb

D

- disable
- download

E

- enable (Privileged EXEC mode)

- show ecmp (Privileged EXEC mode)
- show edm (Privileged EXEC mode)
- show energy-saver interface (Privileged EXEC mode)
- show energy-saver (Privileged EXEC mode)
- show energy-saver savings (Privileged EXEC mode)
- show energy-saver schedule (Privileged EXEC mode)
- show environmental (Privileged EXEC mode)
- show flash (Privileged EXEC mode)
- show http-port
- show interfaces (Privileged EXEC mode)
- show ip arp-inspection interface (Privileged EXEC mode)
- show ip arp-inspection (Privileged EXEC mode)
- show ip arp-proxy (Privileged EXEC mode)
- show ip-blocking
- show ip blocking-mode (Privileged EXEC mode)
- show ip default-ttl (Privileged EXEC mode)
- show ip dhcp (Privileged EXEC mode)
- show ip dhcp-relay
- show ip dhcp-relay counters (Privileged EXEC mode)
- show ip dhcp-relay fwd-path (Privileged EXEC mode)
- show ip dhcp-snooping binding (Privileged EXEC mode)
- show ip dhcp-snooping external-save (Privileged EXEC mode)
- show ip dhcp-snooping interface (Privileged EXEC mode)
- show ip dhcp-snooping (Privileged EXEC mode)
- show ip dhcp-snooping vlan (Privileged EXEC mode)
- show ip directed-broadcast (Privileged EXEC mode)
- show ip dns (Privileged EXEC mode)
- show ip forward-protocol (Privileged EXEC mode)
- show ip fwd-nh
- show ip igmp cache
- show ip igmp group
- show ip igmp group-ext
- show ip igmp interface
- show ip igmp multicast-filter-mode
- show ip igmp profile
- show ip igmp router-alert
- show ip igmp snooping
- show ip igmp ssm
- show ip igmp ssm-map
- show ip ipfix collector (Privileged EXEC mode)
- show ip ipfix interface (Privileged EXEC mode)
- show ip ipfix (Privileged EXEC mode)
- show ip ipfix slot (Privileged EXEC mode)
- show ip ipfix table (Privileged EXEC mode)
- show ip mgmt (Privileged EXEC mode)
- show ipmgr
- show ip mroute
- show ip netstat (Privileged EXEC mode)
- show ip ospf
- show ip ospf accept
- show ip ospf area
- show ip ospf area-range
- show ip ospf ase
- show ip ospf authentication
- show ip ospf default-cost
- show ip ospf host-route
- show ip ospf ifstats
- show ip ospf int-auth
- show ip ospf interface
- show ip ospf int-timers
- show ip ospf lsdb
- show ip ospf neighbor
- show ip ospf redistribute
- show ip ospf stats
- show ip ospf timer

- show ip ospf virtual-links
- show ip ospf virtual-neighbors
- show ip pim
- show ip prefix-list
- show ip (Privileged EXEC mode)
- show ip rip
- show ip rip interface
- show ip rip stats
- show ip route
- show ip source
- show ipv6 address
- show ipv6 address interface
- show ipv6 default-gateway
- show ipv6 global
- show ipv6 interface
- show ipv6 mld
- show ipv6 neighbor
- show ipv6 tcp
- show ipv6 tcp connections
- show ipv6 tcp listener
- show ipv6 udp
- show ip verify
- show ip vrrp
- show ip vrrp address
- show ip vrrp interface
- show jumbo-frames
- show lacp aggr
- show lacp debug
- show lacp key
- show lacp port
- show lacp port-mode
- show lacp stats
- show lacp system
- show license
- show link-state
- show lldp local-sys-data
- show lldp med-network-policies
- show lldp mgmt-sys-data
- show lldp neighbor
- show lldp neighbor-mgmt-addr
- show lldp pdu-tlv-size
- show lldp port
- show lldp rx-stats
- show lldp stats
- show lldp tx-stats
- show lldp tx-tlv
- show lldp vendor-specific
- show logging
- show mac-address-table address
- show mac-address-table aging-time
- show mac-address-table mlt
- show mac-address-table port
- show mac-address-table vid
- show mac-security
- show memory-utilization
- show mlt
- show mlt hash-calc
- show nvram
- show password
- show poe-main-status
- show poe-port-status
- show poe-power-measurement
- show port-mirroring
- show port-statistics
- show qos acl-assign

- show qos action
- show qos agent
- show qos capability
- show qos classifier
- show qos classifier-block
- show qos diag
- show qos egressmap
- show qos if-action-extension
- show qos if-assign
- show qos if-group
- show qos if-queue-shaper
- show qos if-shaper
- show qos ingressmap
- show qos ip-acl
- show qos ip-element
- show qos l2-acl
- show qos l2-element
- show qos meter
- show qos policy
- show qos port
- show qos queue-set
- show qos queue-set-assignment
- show qos statistics
- show qos system-element
- show qos traffic-profile
- show qos ubp
- show qos user-policy
- show quickconfig
- show radius
- show radius-server
- show rate-limit
- show rmon alarm
- show rmon ethernet history
- show rmon ethernet packets
- show rmon ethernet statistics
- show rmon event
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- show running-config
- show serial-console
- show serial-security
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- show snmp-server
- show sntp
- show spanning-tree 802dot1d-port-compliance
- show spanning-tree bpdu-filtering
- show spanning-tree config
- show spanning-tree cost-calc-mode
- show spanning-tree mode
- show spanning-tree mstp
- show spanning-tree port
- show spanning-tree port-mode
- show spanning-tree rstp
- show spanning-tree stp
- show spanning-tree vlans
- show ssh
- show ssl
- show stack auto-unit-replacement
- show stack auto-unit-replacement-image
- show stack forced-mode
- show stack health
- show stack-info
- show stack-monitor

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- default-metric

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- end (RIP Router Configuration)
- exit (RIP Router Configuration)

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- network (RIP Router Configuration)

T

- timers basic

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- enable (User Exec)
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- help (User Exec)

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- show arp-table (User Exec)
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- show brouter (User Exec)
- show config-usb-loadonboot
- show cpu-utilization (User Exec)
- show ecmp (User Exec)
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- show energy-saver interface (User Exec)
- show energy-saver savings (User Exec)
- show energy-saver schedule (User Exec)
- show energy-saver (User Exec)
- show environmental (User Exec)
- show flash (User Exec)
- show interfaces (User Exec)
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- show ip arp-inspection (User Exec)
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- show ip as-list (User Exec)
- show ip bgp (User Exec)
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- show ip community-list (User Exec)
- show ip default-ttl (User Exec)
- show ip dhcp-relay counters (User Exec)
- show ip dhcp-relay fwd-path (User Exec)
- show ip dhcp-relay interface

- show ip dhcp-snooping binding (User Exec)
- show ip dhcp-snooping external-save (User Exec)
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- show ip forward-protocol (User Exec)
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- show ip ipfix interface (User Exec)
- show ip ipfix slot (User Exec)
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- show ip ipfix (User Exec)
- show ip mgmt (User Exec)
- show ip netstat (User Exec)
- show ip ospf accept (User Exec)
- show ip ospf area-range (User Exec)
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- show ip ospf authentication (User Exec)
- show ip ospf default-cost (User Exec)
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- show ip ospf ifstats (User Exec)
- show ip ospf int-auth (User Exec)
- show ip ospf interface
- show ip ospf int-timers (User Exec)
- show ip ospf lsdb (User Exec)
- show ip ospf neighbor (User Exec)
- show ip ospf redistribute (User Exec)
- show ip ospf stats
- show ip ospf timer (User Exec)
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- show ip prefix-list (User Exec)
- show ip rip interface (User Exec)
- show ip rip stats (User Exec)
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- show ip routing
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- show ip (User Exec)
- show ipv6 address interface (User Exec)
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- show ipv6 interface (User Exec)
- show ipv6 mgmt
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- show ipv6 nd-prefix interface
- show ipv6 neighbor interface
- show ipv6 neighbor summary
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- show ipv6 route
- show ipv6 tcp connections (User Exec)
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VRRP Router Configuration

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accept adv-rtr

Configures the OSPF accept-advertisements router policy

Syntax

- `accept adv-rtr <router_ip_address> [enable] [metric-type {any | type1 | type2}] [route-policy <rmap_name>]`
- `default accept adv-rtr <router_ip_address> [enable] [metric-type] [route-policy]`
- `no accept adv-rtr <router_ip_address> [enable]`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
`enable`	Enables the accept entry for the router specified in the <ip_address> parameter.
`metric-type {any | type1 | type2}`	Indicates the type of OSPF external routes that will be accepted from this router.
`no`	Configures the router to not accept advertisements from another router in the system.
`route-policy <rmap_name>`	Specifies the name of a previously configured route map to be used for filtering external routes advertised by the specified advertising router before accepting them into the routing table.
`router_ip_address`	Represents the IP address of the router from which advertisements are to be accepted. The value 0.0.0.0 denotes that advertisements from all routers are accepted.

adac call-server-port

Set call server port(s) range

Syntax

- `adac call-server-port <LINE>`
- `no adac call-server-port`
- `default adac call-server-port`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	Set call server port(s) range

adac detection

Enables detection mechanisms on ports.

Syntax

- `adac detection [port <LINE>] {[mac][lldp]}`
- `no adac detection [port <LINE>] {[mac][lldp]}`
- `default adac detection [port <LINE>] {[mac][lldp]}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`lldp`	Enable 802.1ab-based detection on ports.
`mac`	Enable MAC-based detection on ports.
`port <LINE>`	Port number(s) for which to change settings.

adac enable

Enable adac on the port or ports listed.

Syntax

- `adac enable [op-mode] [voice-vlan <1-4094>] [uplink-port <LINE>] [call-server-port <LINE>]`
- `no adac enable [voice-vlan] [uplink-port] [call-server-port]`
- `default adac enable [voice-vlan] [uplink-port] [call-server-port]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`call-server-port <LINE>`	Set call server port(s) range
`op-mode`	Set ADAC operation mode
`uplink-port <LINE>`	Set uplink port(s) range
`voice-vlan <1-4094>`	Set Voice-VLAN

adac (Ethernet Interface Configuration)

Modifies ADAC port settings.

Syntax

- `adac [port <LINE>] {[enable] [tagged-frames-pvid (<1-4094>| no-change)] [tagged-frames-tagging (tag-all|tag-pvid-only|untag-pvid-only|no-change)]}`
- `no adac [enable] [port <LINE> enable]`
- `default adac [enable] [port <LINE> tagged-frames-pvid enable] [port <LINE> tagged-frames-tagging enable]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`enable`	Enable auto-detection on ports.
`port <LINE>`	Ports to which to apply the ADAC configuration.
`tagged-frames-pvid {<1-4094>| [no-change]}`	Sets Tagged-Frames PVID on the port or ports listed. Use no-change to keep the current setting.
`tagged-frames-tagging {no-change|tag-all|tag-pvid-only|untag-pvid-only}`	Set the tagging to be configured for telephony ports in Tagged Frames operating mode.

adac mac-range-table

Add new supported MAC address range

Syntax

- `adac mac-range-table low-end <H.H.H> high-end <H.H.H>`
- `no adac mac-range-table low-end <H.H.H> high-end <H.H.H>`
- `default adac mac-range-table`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<H.H.H>	MAC Address to add (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
high-end	High end of the MAC address range to add
low-end	Low end of the MAC address range to add

adac op-mode

Set ADAC operation mode

Syntax

- `adac op-mode {tagged-frames | untagged-frames-advanced | untagged-frames-basic} [voice-vlan <1-4094>] [uplink-port <LINE>] [call-server-port <LINE>]`
- `default adac op-mode [voice-vlan] [uplink-port] [call-server-port]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`call-server-port <LINE>`	Set call server port(s) range
`tagged-frames`	IP phones send tagged frames
`untagged-frames-advanced`	IP phones send untagged frames and Voice-VLAN is created
`untagged-frames-basic`	IP phones send untagged frames and Voice-VLAN is not created
`uplink-port <LINE>`	Set uplink port(s) range
`voice-vlan <1-4094>`	Set Voice-VLAN

adac uplink-port

Set uplink port(s) range

Syntax

- `adac uplink-port <LINE> [call-server-port <LINE>]`
- `no adac uplink-port [call-server-port]`
- `default adac uplink-port [call-server-port]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	Uplink port(s) range
call-server-port <LINE>	Call server port(s) range

adac voice-vlan

Set Voice-VLAN ID

Syntax

- `adac voice-vlan <1-4094> [uplink-port <LINE>] [call-server-port <LINE>]`
- `no adac voice-vlan [uplink-port] [call-server-port]`
- `default adac voice-vlan [uplink-port] [call-server-port]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<1-4094>`	Voice-VLAN ID
`call-server-port <LINE>`	Set call server port(s) range
`uplink-port <LINE>`	Set uplink port(s) range

aggregate-address

Add an aggregate address in a BGP routing table

Syntax

- `aggregate-address A.B.C.D/<0-32> [as-set ] [summary-only]`
- `default aggregate-address A.B.C.D/<0-32> [as-set ] [summary-only]`
- `no aggregate-address A.B.C.D/<0-32> [as-set ] [summary-only]`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
`A.B.C.D/<0-32>`	IP address and length between 0 and 32
`as-set`	Enables autonomous system information
`summary-only`	Enables the summarization of routes not included in routing updates

area

Configures area.

Syntax

- `[default] [no] area <area-id> [default-cost {0-16777215}] [import {external | noexternal | nssa}] [import-summaries {enable}] [range {ip_addr/subnet_mask} {nssa-extlink {advertise-metric <0-65535> | advertise-mode {no-summarize | summarize | suppress} } | summary-link {advertise-metric <0-65535> | advertise-mode {no-summarize | summarize | suppress} }]`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
`advertise-metric <0-65535>`	Configure metric to be advertised for area range.
`advertise-mode {no-summarize | summarize | suppress}`	Select advertise mode for area range.
`area-id`	Specifies the Area ID in dotted decimal notation (A.B.C.D).
`default`	Sets the specified parameter to the default value (applicable only for default-cost, import, import-summaries, and range).
`default-cost {0-16777215}`	Specifies the default cost associated with an OSPF stub area.
`import {external | noexternal | nssa}`	Specifies the area type by defining the area's support for importing Autonomous System external link state advertisements: external: specifies a normal area ;noexternal: specifies a stub area ; nssa: specifies an NSSA.
`import-summaries {enable}`	Controls the import of summary link state advertisements into stub areas. This setting has no effect on other areas.
`no`	Removes the specified OSPF configuration (applicable only for import-summaries [disables] and range [removes the specified range]).
`range {ip_addr/subnet_mask} [{nssa-entlink | summary-link}]`	Specifies range parameters for the OSPF area.

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area virtual-link

Creates a virtual link.

Syntax

- `[default] [no] area virtual-link <area-id> <nghbr-router-id> {[authentication-key <WORD>] [authentication-type {none| simple|message-digest}] [primary-md5-key <1-255>] [dead-interval <1-2147483647>] [hello-interval <1-65535>] [retransmit-interval <1-3600>] [transit-delay <1-3600>]`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
<area_id>	Specifies the transit area ID in dotted decimal notation (A.B.C.D).
<nghbr-routerid>	Specifies the neighbor router ID in dotted decimal notation (A.B.C.D).
authentication-key <WORD>	Specifies the unique identifier assigned to the authentication key.
authentication-type {message-digest | none | simple}	Specifies one of the following authentication types: message-digest (MD5), none, simple (simple password authentication type)
dead-interval <1-2147483647>	Specifies the time interval, in seconds, that a Hello packet has not been transmitted from the virtual interface before its neighbors declare it down. Expressed as an integer from 1-2147483647, the default dead interval value is 60 seconds
hello-interval <1-65535>	Specifies the time interval, in seconds, between transmission of Hello packets from the virtual interface. Expressed as an integer from 1-65535, the hello-interval default value is 10 seconds
no	Deletes a virtual interface.
primary-md5-key <1-255>	Specifies the user-selected key used to encrypt OSPF protocol packets for transmission.
retransmit-interval <1-3600>	Specifies the time interval, in seconds, between link stage advertisement retransmissions for adjacencies belonging to the virtual interface. Expressed as an integer from 1-3600, the default value is 5 seconds.
transit-delay	Specifies the estimated number of seconds required to transmit a link state

<1-3600>	update packet over the virtual interface. Expressed as an integer from 1-3600, the default value is 1 second.

area virtual-link message-digest-key

Creates a virtual interface message digest key.

Syntax

- `area virtual-link message-digest-key <area_id> <neighbor_id> <1-255> md5-key <WORD>`
- `default area virtual-link message-digest-key <area_id> <neighbor_id> <1-255>`
- `no area virtual-link message-digest-key <area_id> <neighbor_id> <1-255>`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
<1-255>	Specifies the primary MD5 key value, expressed as an integer from 1-255.
<area_id>	Specifies the transit area Id expressed as an IP address
<neighbor_id>	Specifies the neighbor router ID expressed as an IP address
md5-key <WORD>	Specifies the user-selected key used to encrypt OSPF protocol packets for transmission.
no	Deletes a virtual interface message digest key.

arp

Configure a static ARP entry

Syntax

- `arp {<A.B.C.D> <H.H.H> <WORD> id <1-4094> | timeout <5-360>}`
- `no arp {A.B.C.D}`
- `default arp timeout`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<A.B.C.D>	IP addr of ARP entry
<H.H.H>	MAC addr of ARP entry (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
<WORD>	unit/port
id <1-4094>	VLAN ID to apply ARP entry for
timeout <5-360>	time for the entry to exist

as-boundary-router

Configures a router as an ASBR.

Syntax

- `[default] [no] as-boundary-router [enable]`

Default

`Disabled`

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
`enable`	Configure switch as ASBR

asset-id

Configure the Asset-ID

Syntax

- `asset-id {stack <WORD> | unit <1-8> <WORD>| <WORD>}`
- `no asset-id {stack | unit <1-8>}`
- `default asset-id {stack | unit <1-8>}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<WORD>	Asset-ID of this unit
stack <WORD>	Asset-ID for the Stack
unit <1-8>	Asset-ID for specific unit in the Stack

audit

Configure audit settings

Syntax

- `audit log {noerase enable | save}`
- `no audit log`
- `default audit log`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`log`	Configure audit log settings
`noerase enable`	Enable noerase for audit log
`save`	Enable audit log save settings

auto-negotiation-advertisements

Configures auto-negotiation advertisement settings.

Syntax

- `auto-negotiation-advertisements [[10-full] [10-half] [100-full] [100-half] [1000-full] [asymm-pause-frame] [pause-frame]]`
- `no auto-negotiation-advertisements [port <LINE>]`
- `default auto-negotiation-advertisements [port <LINE>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`1000-full`	Advertise 1000Mbps full-duplex.
`100-full`	Advertise 100Mbps half-duplex.
`100-half`	Advertise 100Mbps full-duplex.
`10-full`	Advertise 10Mbps half-duplex.
`10-half`	Advertise 10Mbps full-duplex.
`asymm-pause-frame`	Advertise use of asymmetric pause frames half-duplex.
`none`	Do not advertise anything during auto-negotiation.
`port <LINE>`	Select port for operation.

auto-peer-restart

Restart a connection to a BGP neighbor

Syntax

- `auto-peer-restart [enable]`
- `default auto-peer-restart [enable]`
- `no auto-peer-restart [enable]`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
`enable`	Enables the process that automatically restarts a connection to a BGP neighbor. Default is enable.

auto-pvid

Enable Auto-PVID (for all ports)

Syntax

- `auto-pvid`
- `no auto-pvid`

Default

None

Command mode

Global configuration mode

autosave

Change autosave settings

Syntax

- `autosave enable`
- `no autosave enable`
- `default autosave enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
enable	Enable autosave

auto-summary

Allow BGP to summarize networks

Syntax

- `auto-summary`
- `default auto-summary`
- `no auto-summary`

Default

None

Command mode

BGP Router Configuration

autotopology

Enable the autotopology protocol

Syntax

- `autotopology`
- `no autotopology`
- `default autotopology`

Default

None

Command mode

Global configuration mode

Avaya Ethernet Routing Switch 5000 Series Release 6.6
NN47200-512 Avaya Command Line Interface Commands Reference
Version 01.01 December 2013

Avaya.com/support

auto-vlink

Enables global automatic Virtual Link creation.

Syntax

- `[default] [no] auto-vlink`

Default

None

Command mode

OSPF Router Configuration

banner

Set custom banner info

Syntax

- `banner {<1-19> <LINE> | custom | disabled | static}`
- `no banner`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<1-19> <LINE>`	Custom banner line number
`custom`	Use custom banner
`disabled`	Skip banner display
`static`	Use static banner

bgp

IP BGP configuration commands

Syntax

- `bgp { aggregation [enable] | always-compare-med | client-to-client reflection | cluster-id <A.B.C.D> | default local-preference <0-2147483647> }`
- `default bgp { aggregation [enable] | always-compare-med | client-to-client reflection | default local-preference }`
- `no bgp { aggregation [enable] | always-compare-med | client-to-client reflection | cluster-id <A.B.C.D> | default local-preference <0-2147483647> }`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
`aggregation`	Enables the aggregation feature on this interface. Default is enable.
`always-compare-med`	Enables the comparison of the multi-exit discriminator (MED) parameter for paths from neighbors in different autonomous systems.
`client-to-client reflection`	Enables route reflection between two route reflector clients.
`cluster-id <A.B.C.D>`	Sets a cluster ID. This option is applicable only if the route reflection value is set to enable, and if multiple route reflectors are in a cluster.
`default local-preference <0-2147483647>`	Specifies the default value of the local preference attribute. Default is 100.

bgp maximum-path

Set the maximum number of ECMP paths

Syntax

- `bgp maximum-path <1-4>`
- `default bgp maximum-path`
- `no bgp maximum-path`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-4>	Specify ECMP path value

blink-leds

Blink the LEDs on the display panel to identify the unit

Syntax

- `blink-leds [unit <1-8>] { time <1-10> | off}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`off`	Stop blinking the LEDs
`time <1-10>`	How long to blink the LEDs
`unit <1-8>`	Unit number

boot

Reset the switch/stack

Syntax

- `boot {default unit <1-8> | partial-default | primary | secondary | unit <1-8>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`default`	Reboot the stack/switch and use the factory default configurations
`partial-default`	Reboot the stack/switch and use partial factory default configurations
`primary`	Reboot the stack/switch and use the primary agent image
`secondary`	Reboot the stack/switch and use the secondary agent image
`unit <1-8>`	Unit number

brouter

Configures brouter ports.

Syntax

- `brouter [port <LINE>] vlan <1-4094> subnet <ip_address/mask> [routing enable]`
- `no brouter [port <LINE>] [routing enable]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`port <LINE>`	Specifies the port to configure as a brouter port.
`routing enable`	Enables Layer 3 routing on the brouter port.
`subnet A.B.C.D/<0-32>`	Specifies the IP address and subnet mask of the brouter. When creating a new brouter, this is the IP address and subnet mask assigned.
`vlan <1-4094>`	Specifies the VLAN ID of the brouter. When creating a new brouter port, this is the VLAN ID assigned to the brouter port.

clear arp-cache

Clear the Layer 3 ARP cache

Syntax

- `clear arp-cache`

Default

None

Command mode

Privileged EXEC mode

clear arp-cache (Ethernet Interface Configuration)

Clears the Layer 3 ARP cache.

Syntax

- `clear arp-cache`

Default

None

Command mode

Ethernet Interface Configuration

clear eapol

Clear authenticated clients

Syntax

- `clear eapol non-eap [<LINE>] address <H.H.H>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
address <H.H.H>	Non-EAP MAC address
non-eap	Clear NEAP authenticated clients

clear eapol non-eap (Ethernet Interface Configuration)

Clears NEAP authenticated clients.

Syntax

- `clear eapol non-eap [<portList>] [address <H.H.H>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`<portList>`	Specifies an individual port or list of ports from which to clear authenticated NEAP clients.
`address <H.H.H>`	Specifies the MAC address of an authenticated NEAP client to clear from the port. If you enter a MAC address value of 00:00:00:00:00:00, all authenticated NEAP clients are cleared from the specified port.

clear ip-blocking

Clears the Layer 3 IP blocking state.

Syntax

- `clear ip-blocking`

Default

None

Command mode

Privileged EXEC mode

clear ip dhcp-snooping

Clear DHCP snooping data

Syntax

- `clear ip dhcp-snooping binding {dynamic | static}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`binding`	Clear DHCP snooping bindings
`dynamic`	Clear DHCP snooping dynamic bindings
`static`	Clear DHCP snooping static bindings

clear ip dhcp-snooping binding (Ethernet Interface Configuration)

Clears DHCP snooping bindings.

Syntax

- `clear ip dhcp-snooping binding [dynamic|static]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
dynamic	Clear DHCP snooping dynamic bindings.
static	Clear DHCP snooping static bindings.

clear ip forward-protocol

Clear broadcast protocols counters

Syntax

- `clear ip forward-protocol udp counters <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	Clear counters for specific VLAN
udp counters	Clear UDP broadcast counters

clear ip forward-protocol udp counters (Ethernet Interface Configuration)

Clears UDP broadcast counters.

Syntax

- `clear ip forward-protocol udp counters [port <LINE>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<LINE>	Clear counters for specific VLAN.

clear ip igmp

Clear IGMP data

Syntax

- `clear ip igmp profile stats <1-65535>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-65535>	Profile ID
profile	Clear IGMP profile data
stats	Clear IGMP profile statistics

clear ip igmp profile stats (Ethernet Interface Configuration)

Clears IGMP profile statistics.

Syntax

- `clear ip igmp profile stats [<1-65535>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-65535>	Specifies the profile ID. If you do not include this variable in the command, statistics for all profiles are cleared.

clear ip ospf

Clear OSPF-related data

Syntax

- `clear ip ospf counters <1-4094>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-4094>	VLAN ID
counters	Clear OSPF counters

clear ip ospf counters (Ethernet Interface Configuration)

Clears OSPF statistics counters.

Syntax

- `clear ip ospf counters <1-4094>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-4094>	Specifies the VLAN ID. Range is 1-4094. If no VLAN is specified, the command clears OSPF global counters.

clear ipv6 dhcp-relay counters (Ethernet Interface Configuration)

Clears the IPv6 DHCP-relay counters.

Syntax

- `clear ipv6 dhcp-relay counters [vlan <1-4094>]`

Default

None

Command mode

Ethernet Interface Configuration

clear ipv6 neighbor-cache

Clears the IPv6 neighbor-cache.

Syntax

- `clear ipv6 neighbor-cache`

Default

None

Command mode

Privileged EXEC mode

clear license

Clears licenses.

Syntax

- `clear license {<1-10>|all}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-10>	Specify an individual license with the designated number.
all	Delete all installed licenses.

clear logging

Clears log messages (with no parameters, from DRAM only).

Syntax

- `clear logging [non-volatile <critical> <serious>|nv|volatile <critical> <informational> <serious>]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`critical`	Clear critical log messages.
`informational`	Clear informational log messages.
`non-volatile`	Clear log messages from NVRAM.
`nv`	Clear log messages from NVRAM and DRAM.
`serious`	Clear serious log messages.
`volatile`	Clear log messages from DRAM.

clear mac-address-table

Flushes the MAC address table for a specific VLAN.

Syntax

- `clear mac-address-table interface { Ethernet <portlist> | mlt <1-32> | vlan <1-4094>}`
- `clear mac-address-table address <H.H.H>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`vlan 1-4094>`	Vlan to be flushed out.
`address <H.H.H>`	Flush a single MAC Address.
`Ethernet <portlist>`	Flush all MAC Addresses on a port, or a list of ports
`interface`	Flush MAC Addresses of a specific interface.
`mlt <1-32>`	Trunk to be flushed out.

clear ssh banner

Clear SSH Banner

Syntax

- `clear ssh banner`

Default

None

Command mode

Privileged EXEC mode

clear sshc known-host

Clears the public key of a known host.

Syntax

- `clear sshc known-host {<A.B.C.D> | <host_name> | <ipv6_address> | all}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<A.B.C.D>	IP address.
<host_name>	Remote host name.
<ipv6_address>	Remote host IPv6 address.
all	Clear all licenses.

clear stack port-statistics

Clears the stack port counters.

Syntax

- `clear stack port-statistics [unit <1-8>]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`unit <1-8>`	Specifies the unit in the stack.

clear-stats

Clears the port counter.

Syntax

- `clear-stats port <LINE>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`port <LINE>`	Selects a port to clear the port counter.

clear system last-exception

Clears last software exception information.

Syntax

- `clear system last-exception [ unit ]{ <1-8>| all ]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-8>	Clear last software exception for a specified unit.
all	All units.

cli

Modify session settings

Syntax

- `cli { [ timestamp enable ] | [ password [{read-only | read-write} <WORD>] | [{serial | telnet} {local | none | radius | tacacs }]] }`
- `no cli timestamp enable`
- `default cli timestamp enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<WORD>	password
local	Use local password.
none	Disable password.
password	Modify CLI passwords
radius	Use RADIUS password authentication.
read-only	Modify read-only password
read-write	Modify read-write password
serial	Enable/disable serial port password
tacacs	Use TACACS+ AAA services
telnet	Enable/disable telnet, ssh and web password
timestamp	Enable show timestamp

clock set

Configure Real Time Clock

Syntax

- `clock set {hh:mm:ss <1-31> <MONTH> <2005-2099> | <LINE>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
hh:mm:ss	Specify the current local time in the hh:mm:ss format
LINE	Specify a string in the format of mmddyyyyhhmmss that defines the current local time
<1-31>	RTC date
<MONTH>	RTC month
<2005-2099>	RTC year

clock source

Configure time source

Syntax

- `clock source { ntp | sntp | sysUpTime }`
- `default clock source`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`ntp`	Configure NTP as time source
`sntp`	Configure SNTP as time source
`sysUpTime`	Configure System Up Time as time source

clock summer-time

Configure the system to automatically switch to summer time (daylight saving time)

Syntax

- `clock summer-time {[recurring <1-5 | Last > <Day> <Month> <hh:mm> <1-5 | Last > <Day> <Month> <hh:mm> <1-1440>] | [<WPRD> date <1-31> <Month> <1999-2099> hh:mm <1-31> <Month> <1999-2099> hh:mm <-840 - 840>]}`
- `no clock summer-time recurring`
- `default clock summer-time recurring`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-1440>	Number of minutes to add/substract during summer-time recurring
<1-31>	Day of the month, when summer time starts/ends
<1-5>	Week of the month when the summer-time recurring starts/ends
<1990-2099>	Year when summer time starts/ends
<-840 - 840>	Number of minutes to add/substract during summer time
<WORD>	Set time zone acronym containing at most 4 chars (for example 'PDT' for Pacific Daylight Time) to be displayed when summer time is in effect.
date	Indicates that summer time should start on the first specific date listed in the command and end the second specific date in the command
day	Day of the week when summer-time recurring starts/ends (Monday, Tuesday etc)
hh:mm	Time in hours and minutes when summer-time recurring starts
last	Select the last day which will be specified of the month for summer-time starts/ends
month	Month when summer-time recurring starts/ends (January, February etc)
recurring	Specify the summer-time dates which recur every year.

clock sync-rtc-with-ntp

Configure sync RTC with NTP/SNTP status

Syntax

- `clock sync-rtc-with-ntp enable`
- `default clock sync-rtc-with-ntp enable`
- `no clock sync-rtc-with-ntp enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
enable	Enable RTC sync with NTP/SNTP status

clock time-zone

set local time zone

Syntax

- `clock time-zone <WORD> <-12 - 13> <0-59>`
- `no clock time-zone`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<0-59>	Minutes difference from UTC (0, 15, 30 or 45)
<-12 - 13>	Hours difference from UTC
<WORD>	Set time zone acronym containing at most 4 chars

cmd-interface

Select default console/telnet interface

Syntax

- `cmd-interface {cli | menu}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
cli	Sets CLI as default itnerface for console/telnet
menu	Sets menu as default interface for console/telnet

configure network address

Specify address of TFTP server

Syntax

- `configure network address {A.B.C.D | <WORD>} filename <WORD>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
{A.B.C.D}	TFTP Server IP address
<WORD>	TFTP Server IPv6 address
filename <word>	Specify filename of config file

configure network filename

Specify filename of config file

Syntax

- `configure network filename <WORD> address {<A.B.C.D> | <WORD>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
{<A.B.C.D> | word}	TFTP Server IP address or TFTP Server IPv6 address
<WORD>	Config file name
address	Specify address of TFTP server

configure network load-on-boot

Specify settings for loading config file at boot time

Syntax

- `configure network load-on-boot {[disable] [use-config] [filename <word>] address {A.B.C.D | <WORD>} filename <word>} | use-bootp`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
{A.B.C.D}	TFTP Server IP address
<WORD>	TFTP Server IPv6 address
address {A.B.C.D | <WORD>}	Specify address of TFTP server
disable	Disable loading of config file at boot time
filename <word>	Specify filename of config file
use-bootp	Load config file at boot time using BOOTP
use-config	Load config file at boot time using configured parameters

configure sftp

Confiugre from an SFTP network host

Syntax

- `configure sftp address {A.B.C.D | <WORD>} filename <WORD> username <WORD>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`address {A.B.C.D | <WORD>}`	IP address of SFTP server
`filename <WORD>`	Specify filename of config file
`username <WORD>`	Specify username

configure terminal

Configure from the terminal

Syntax

- `configure terminal`

Default

None

Command mode

Privileged EXEC mode

configure usb

Configure from USB

Syntax

- `configure usb filename <WORD> unit <1-8>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`filename <WORD>`	Specify target filename of config file
`unit <1-8>`	Configure from USB of another unit in a stack

copper-sfp

Configure copper sfp settings

Syntax

- `copper-sfp multispeed enable`
- `no copper-sfp multispeed enable`
- `default copper-sfp multispeed`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`multispeed enable`	Enable copper SFP multispeed operation

copy config nvram

Copy to local NV storage

Syntax

- `copy config nvram block <1-2> name <WORD>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`block <1-2>`	Specify configuration block number
`name <WORD>`	Specify configuration block name

copy config sftp

Copy to SFTP server

Syntax

- `copy config sftp [filename <word>] address {A.B.C.D | <WORD>} filename <WORD>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`address {<A.B.C.D> | <WORD>]`	Specify address of the SFTP server
`filename <WORD>`	Specify the filname on the SFTP server from which to copy the configuration
`username <WORD>`	Specify username

copy config tftp

Copy to TFTP server

Syntax

- `copy config tftp [filename <word>] address {A.B.C.D | <WORD>} filename <WORD>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
{A.B.C.D}	TFTP Server IP address
<WORD>	TFTP Server IPv6 address
address {A.B.C.D | <WORD>	Specify address of the TFTP server
filename <word>	Specify filename in which to store configuration on TFTP server

copy config usb

Copy to USB

Syntax

- `copy config usb filename <word> unit <1-8>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`filename <word>`	Specify filename in which to store configuration on USB
`unit <1-8>`	Copy to USB of another unit in a stack

copy nvram

Load the configuration from the specified NV storage configuration block

Syntax

- `copy nvram config block <1-2>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`block <1-2>`	Specify configuration block number
`config`	Load the configuration from the specified NV storage configuration block

copy running-config sftp

Copy to SFTP server

Syntax

- `copy running-config sftp [verbose] [module [802.1ab] [aaur] [adac] [arp-inspection] [asset-id] [aur] [banner] [brouter] [core] [default-cmd-interface][dhcp-relay] [dhcp-snooping] [eap] [energy-saver] [igmp] [interface] [ip] [ip-source-guard] [ipfix] [ipmgr] [ipv6] [ipv6_fhs][l3] [l3-protocols] [lacp] [link-state] [logging] [mac-security][mld] [mlt] [pim][poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp] [smlt][snmp] [ssh][sshc][ssl] [stack] [stkmon] [stp] [unicast-storm-control][vlacp] [vlan]] filename <file-name> address {A.B.C.D | <WORD>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<file-name>`	Config file name on SFTP server
`802.1ab`	Copy 802.1ab configuration
`A.B.C.D`	SFTP server IP address
`aaur`	Copy AAUR configuration
`adac`	Copy ADAC configuration
`address`	Specify address of the SFTP server
`arp-inspection`	Copy ARP Inspection configuration
`asset-id`	Copy Asset ID configuration
`aur`	Copy AUR configuration
`banner`	Copy Custom Banner configuration
`brouter`	Copy Brouter configuration
`core`	Copy Core configuration
`default-cmd-interface`	Copy Default Command Interface configuration
`dhcp-relay`	Copy DHCP Relay configuration
`dhcp-snooping`	Copy DHCP Snooping configuration
`eap`	Copy EAP configuration
`energy-saver`	Copy Energy Saver configuration

filename	Specify filename in which to store configuration on SFTP server
igmp	Copy IGMP configuration
interface	Copy Interface configuration
ip	Copy IP configuration
ipfix	Copy IPFIX configuration
ipmgr	Copy IP Manager configuration
ip-source-guard	Copy IP Source Guard configuration
ipv6	Copy IPV6 configuration
ipv6_fhs	Copy fhs settings
l3	Copy L3 configuration
l3-protocols	Copy L3 Protocols configuration
lacp	Copy LACP configuration
link-state	Copy Link State Tracking configuration
logging	Copy System Logging configuration
mac-security	Copy MAC Security configuration
mld	Copy MLD configuration
mlt	Copy MLT configuration
module	Copy configuration of an application
pim	Copy PIM configuration
poe	Copy PoE configuration
port-mirroring	Copy Port Mirroring configuration
qos	Copy QoS configuration
rate-limit	Copy Rate Limiting configuration
rmon	Copy RMON configuration
rtc	Copy RTC configuration
slamon	Copy SLAMon configuration
slpp	Copy SLPP configuration
smlt	Copy SMLT configuration
snmp	Copy SNMP configuration
ssh	Copy SSH configuration
sshc	Copy SSH configuration
ssl	Copy SSH configuration
stack	Copy Stack configuration
stkmon	Copy Stack Monitor configuration
stp	Copy STP configuration
stp	Copy STP configuration
unicast-storm-control	Sopy Unicast Storm Control
verbose	Copy entire configuration (defaults and non-defaults)
vlacp	Copy VLACP configuration
vlan	Copy VLAN configuration
WORD	TFTP server IPv6 address

Version 01.01 December 2013

Avaya.com/support

copy running-config tftp

Copy to TFTP server

Syntax

- `copy running-config tftp [verbose] [module [802.1ab] [aaur] [adac] [arp-inspection] [asset-id] [aur] [banner] [brouter] [core] [default-cmd-interface][dhcp-relay] [dhcp-snooping] [eap] [energy-saver] [igmp] [interface] [ip] [ip-source-guard] [ipfix] [ipmgr] [ipv6] [ipv6_fhs][l3] [l3-protocols] [lacp] [link-state] [logging] [mac-security][mld] [mlt] [pim][poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp] [smlt][snmp] [ssh][sshc][ssl] [stack] [stkmon] [stp] [unicast-storm-control][vlacp] [vlan]] filename <file-name> address {A.B.C.D | <WORD>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<file-name>`	Config file name on TFTP server
`802.1ab`	Copy 802.1ab configuration
`A.B.C.D`	TFTP server IP address
`aaur`	Copy AAUR configuration
`adac`	Copy ADAC configuration
`address`	Specify address of the TFTP server
`arp-inspection`	Copy ARP Inspection configuration
`asset-id`	Copy Asset ID configuration
`aur`	Copy AUR configuration
`banner`	Copy Custom Banner configuration
`brouter`	Copy Brouter configuration
`core`	Copy Core configuration
`default-cmd-interface`	Copy Default Command Interface configuration
`dhcp-relay`	Copy DHCP Relay configuration
`dhcp-snooping`	Copy DHCP Snooping configuration
`eap`	Copy EAP configuration
`energy-saver`	Copy Energy Saver configuration

filename	Specify filename in which to store configuration on TFTP server
igmp	Copy IGMP configuration
interface	Copy Interface configuration
ip	Copy IP configuration
ipfix	Copy IPFIX configuration
ipmgr	Copy IP Manager configuration
ip-source-guard	Copy IP Source Guard configuration
ipv6	Copy IPV6 configuration
ipv6_fhs	Copy fhs settings
l3	Copy L3 configuration
l3-protocols	Copy L3 Protocols configuration
lacp	Copy LACP configuration
link-state	Copy Link State Tracking configuration
logging	Copy System Logging configuration
mac-security	Copy MAC Security configuration
mld	Copy MLD configuration
mlt	Copy MLT configuration
module	Copy configuration of an application
pim	Copy PIM configuration
poe	Copy PoE configuration
port-mirroring	Copy Port Mirroring configuration
qos	Copy QoS configuration
rate-limit	Copy Rate Limiting configuration
rmon	Copy RMON configuration
rtc	Copy RTC configuration
slamon	Copy SLAMon configuration
slpp	Copy SLPP configuration
smlt	Copy SMLT configuration
snmp	Copy SNMP configuration
ssh	Copy SSH configuration
sshc	Copy SSH configuration
ssl	Copy SSH configuration
stack	Copy Stack configuration
stkmon	Copy Stack Monitor configuration
stp	Copy STP configuration
stp	Copy STP configuration
unicast-storm-control	Sopy Unicast Storm Control
verbose	Copy entire configuration (defaults and non-defaults)
vlacp	Copy VLACP configuration
vlan	Copy VLAN configuration
WORD	TFTP server IPv6 address

Version 01.01 December 2013

Avaya.com/support

copy running-config usb

Copy to USB

Syntax

- `copy running-config usb [verbose] [module [802.1ab] [aaur] [adac] [arp-inspection] [asset-id] [aur] [banner] [brouter] [core] [default-cmd-interface][dhcp-relay] [dhcp-snooping] [eap] [energy-saver] [igmp] [interface] [ip] [ip-source-guard] [ipfix] [ipmgr] [ipv6] [ipv6_fhs][l3] [l3-protocols] [lacp] [link-state] [logging] [mac-security][mld] [mlt] [pim][poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp] [smlt][snmp] [ssh][sshc][ssl] [stack] [stkmon] [stp] [unicast-storm-control][vlacp] [vlan]] filename <file-name>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<file-name>`	Config file name on USB server
`802.1ab`	Copy 802.1ab configuration
`aaur`	Copy AAUR configuration
`adac`	Copy ADAC configuration
`arp-inspection`	Copy ARP Inspection configuration
`asset-id`	Copy Asset ID configuration
`aur`	Copy AUR configuration
`banner`	Copy Custom Banner configuration
`brouter`	Copy Brouter configuration
`cfm`	Copy CFM configuration
`core`	Copy Core configuration
`dhcp-relay`	Copy DHCP Relay configuration
`dhcp-snooping`	Copy DHCP Snooping configuration
`eap`	Copy EAP configuration
`energy-saver`	Copy Energy Saver configuration
`filename`	Specify filename in which to store configuration on USB
`igmp`	Copy IGMP configuration

interface	Copy Interface configuration
ip	Copy IP configuration
ipfix	Copy IPFIX configuration
ipmgr	Copy IP Manager configuration
ip-source-guard	Copy IP Source Guard configuration
ipv6	Copy IPV6 configuration
l3	Copy L3 configuration
l3-protocols	Copy L3 Protocols configuration
lacp	Copy LACP configuration
link-state	Copy Link State Tracking configuration
logging	Copy System Logging configuration
mac-security	Copy MAC Security configuration
mlt	Copy MLT configuration
module	Copy configuration of an application
poe	Copy PoE configuration
port-mirroring	Copy Port Mirroring configuration
qos	Copy QoS configuration
rate-limit	Copy Rate Limiting configuration
rmon	Copy RMON configuration
rtc	Copy RTC configuration
slamon	Copy SLAMon configuration
slpp	Copy SLPP configuration
smlt	Copy SMLT configuration
snmp	Copy SNMP configuration
ssh	Copy SSH configuration
sshc	Copy SSH configuration
ssl	Copy SSH configuration
stack	Copy Stack configuration
stkmon	Copy Stack Monitor configuration
stp	Copy STP configuration
unit <1-8>	Copy to USB of another unit in a stack
verbose	Copy entire configuration (defaults and non-defaults)
vlacp	Copy VLACP configuration
vlan	Copy VLAN configuration

copy sftp config

Copy to local configuration

Syntax

- `copy sftp config [filename <word>] [address {A.B.C.D | <WORD>} [filename <word>]] unit {<1-8> | all}`

Default

None

Command mode

Privileged EXEC mode

copy sftp license

Copy license from SFTP server

Syntax

- `copy sftp license {address {A.B.C.D | <WORD>} filename <file-name> | filename <file-name> address {A.B.C.D | <WORD>}}`

Default

None

Command mode

Privileged EXEC mode

copy tftp config

Copy to local configuration

Syntax

- `copy tftp config [filename <word>] [address {A.B.C.D | <WORD>} [filename <word>]] unit {<1-8> | all}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
{A.B.C.D}	TFTP server IP address
<WORD>	TFTP server IPv6 address
address	Specify address of the TFTP server
filename	Specify filename on TFTP server from which to copy configuration
unit {<1-8> | all}	Select units from which config should be copied

copy tftp license

Copy license from TFTP server

Syntax

- `copy tftp license {address {A.B.C.D | <WORD>} filename <file-name> | filename <file-name> address {A.B.C.D | <WORD>}}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<file-name>	License file name on TFTP server
<WORD>	TFTP server IPv6 address
A.B.C.D	TFTP server IP address
address	Specify address of the TFTP server
filename	Specify filename on TFTP server from which to license file

copy usb

Copy from USB memory stick

Syntax

- `copy usb {config | license} filename <WORD> unit <1-8>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<WORD>	Config file name on USB
config	Copy configuration from usb
filename	Specify filename from which to copy configuration from USB
license	Copy license file from USB
unit <1-8>	Unit number

debug-screen

Display debug messages on the console

Syntax

- `debug-screen [ off | on ]`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
`off	on`	Disable or enable BGP screen logging. Default is off (disabled).

default-cost

Configures the OSPF default cost metric.

Syntax

- `default-cost {ethernet | fast-ethernet | gig-ethernet | ten-gig-ethernet} <metric_value>`
- `default default-cost {ethernet | fast-ethernet | gig-ethernet | ten-gig-ethernet}`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
`<metric_value>`	Specifies the default cost metric to assign to the specified port type. The metric value is an integer between 1 and 65535.
`default`	Sets the OSPF default cost metric to factory default values. The default values are as follows: ethernet (10 Mb/s): 100; fast-ethernet (100 Mb/s): 10; gig-ethernet (1000 Mb/s): 1; ten-gig-ethernet (10000 Mb/s): 1.

default-information

Enables the advertisement of a default route to peers, if it is present in the routing table.

Syntax

- `default-information originate`
- `default default-information originate`
- `no default-information originate`

Default

None

Command mode

BGP Router Configuration

default-metric

Configures the default RIP metric value.

Syntax

- `default-metric <metric_value>`
- `default default-metric`

Default

None

Command mode

RIP Router Configuration

Command parameters

Parameter	Description
`<metric_value>`	Specifies a metric value between 0 and 15.

default-metric (BGP Router Configuration)

Configures the deffault BGP metric value.

Syntax

- `default-metric <-1 - 2147483647>`
- `default default-metric`
- `no default-metric <-1 - 2147483647>`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
<-1 - 2147483647>	Use this option in conjunction with the redistribute commands so the current routing protocol uses the same metric for all redistributed routes.

disable

Turn off privileged commands

Syntax

- `disable`

Default

None

Command mode

Privileged EXEC mode

download

Download and run new image

Syntax

- `download {{[address {A.B.C.D | <WORD>}] [diag <image-name>] [image <image-name>] [image-if-newer <image-name>] no-reset} | usb {[diag <image-name>] [image <image-name>] [image-if-newer <image-name>]} [unit <1-8>] [no-reset]`
- `download {{[address {A.B.C.D | <WORD>}] [diag <image-name>] [image <image-name>] [image-if-newer <image-name>] no-reset} | usb {[diag <image-name>] [image <image-name>] [image-if-newer <image-name>]} [unit <1-8>] no-reset | usb poe_module_image <image-name> [unit <1-8>]`
- `download poe_module_image <image-name>`
- `download sftp [address {<A.B.C.D> | <WORD>}] [diag <image-name>][image <image-name>][primary image <image-name>][secondary image <image-name>][no-reset][username <WORD>]`
- `download usb {[diag <image-name>] [image <image-name>] [image-if-newer <image-name>]} [unit <1-8>] [no-reset] [primary][secondary]| usb poe_module_image <image-name> [unit <1-8>]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
{A.B.C.D}	TFTP Server IP address
<WORD>	TFTP server IPv6 address
address {A.B.C.D | <WORD>}	Specify IP address of TFTP server
diag <image-name>	Diagnostics image file name
image <image-name>	Software image
image-if-newer <image-name>	Software image if version newer
no-reset	Do not reset the switch after downloading
poe_module_image <image-name>	PoE image file name
primary	Download the primary agent image
secondary	Download the secondary agent image
sftp	Download from SFTP server

`unit <1-8>`	Diagnostics image download from USB of another unit in a stack
`usb`	Download image from USB

duplex

Configures duplex mode of a port.

Syntax

- `duplex [port <LINE>] {full | half | auto}`
- `default duplex [port <LINE>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
auto	Set duplex to autonegotiation.
full	Set duplex to full-duplex mode.
half	Set duplex to half-duplex mode.
port	Select port for operation.

eapol

Enable/Disable EAPOL protocol

Syntax

- `eapol disable | enable`
- `no eapol`
- `default eapol`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`disable|enable`	Disable/enable EAPOL protocol
`init`	Reinitiates EAP authentication.
`port <LINE>`	Specifies the ports to configure for EAPOL.

eapol allow-port-mirroring

Enable port mirroring on eap ports

Syntax

- `eapol allow-port-mirroring`
- `no eapol allow-port-mirroring`
- `default eapol allow-port-mirroring`

Default

None

Command mode

Global configuration mode

Avaya Ethernet Routing Switch 5000 Series Release 6.6
NN47200-512 Avaya Command Line Interface Commands Reference
Version 01.01 December 2013

Avaya.com/support

eapol (Ethernet Interface Configuration)

Modifies EAPOL-based security parameters.

Syntax

- `eapol [port <portlist>] [init] [status {authorized|unauthorized| auto}] [traffic-control {in-out|in}] [re-authentication {enable| disable}] [re-authentication-period <1-604800>] [re-authenticate] [quiet-interval <0-65535>] [supplicant-timeout <1-65535>] [server-timeout <1-65535>] [max-request <1-10>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`max-request <1-10>`	Enter the number of times to retry sending packets to supplicant.
`quiet-interval <0-65535>`	Enter the desired number of seconds between an authentication failure and the start of a new authentication attempt.
`re-authenticate`	Specifies an immediate reauthentication. NonEAP clients are not reauthenticated even if reauthentication is enabled on the port.
`reauthentication enable|disable`	Enables or disables reauthentication for EAPOL clients.
`reauthentication-period <1-604800>`	Enter the desired number of seconds between reauthentication attempts.
`server-timeout <1-65535>`	Specifies a waiting period for response from the server. Enter the number of seconds to wait; range is 1 to 65535.
`status {authorized | unauthorized |auto}`	Specifies the EAP status of the port (authorized — port is always authorized; unauthorized — port is always unauthorized; auto — port authorization status depends on the result of the EAP authentication).
`supplicant-timeout <1-65535>`	Specifies a waiting period for response from supplicant for all EAP packets except EAP Request/Identity packets. Enter the number of seconds to wait.
`traffic-control`	Sets the level of traffic control (in-out — if EAP authentication fails, both

{in-out | in}	ingressing and egressing traffic are blocked; in — if EAP authentication fails, only ingressing traffic is blocked).

eapol guest-vlan

Set guest-vlan

Syntax

- `eapol guest-vlan [enable] vid <1-4094>`
- `no eapol guest-vlan enable`
- `default eapol guest-vlan [enable] vid <1-4094>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable guest-vlan
`vid <1-4094>`	guest-vlan ID

eapol guest-vlan (Ethernet Interface Configuration)

Sets guest-vlan.

Syntax

- `eapol guest-vlan [port <LINE>] {enable|vid {<1-4094>|global}}`
- `no eapol [port<LINE>] enable`
- `default eapol guest-vlan [port <LINE>] [enable] [vid]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`enable`	Enable guest-vlan.
`port <LINE>`	Port number on which to enable EAPOL.
`vid { <1-4094> | global }`	Guest-vlan ID.

eapol multihost

Set EAPOL multihost settings of port

Syntax

- `eapol multihost [allow-non-eap-enable] [radius-non-eap-enable] [auto-non-eap-mhsa-enable] [non-eap-phone-enable] [use-radius-assigned-vlan] [use-most-recent-radius-vlan] [non-eap-use-radius-assigned-vlan] [eap-packet-mode { multicast | unicast }] [eap-protocol-enable] [non-eap-reauthentication-enable] [block-different-radius-assigned-vlan] [adac-non-eap-enable]`
- `no eapol multihost [allow-non-eap-enable] [radius-non-eap-enable] [auto-non-eap-mhsa-enable] [non-eap-phone-enable] [use-radius-assigned-vlan] [use-most-recent-radius-vlan] [non-eap-use-radius-assigned-vlan] [eap-protocol-enable] [non-eap-reauthentication-enable] [block-different-radius-assigned-vlan] [adac-non-eap-enable]`
- `default eapol multihost [allow-non-eap-enable] [radius-non-eap-enable] [auto-non-eap-mhsa-enable] [non-eap-phone-enable] [use-radius-assigned-vlan] [use-most-recent-radius-vlan] [non-eap-use-radius-assigned-vlan] [eap-packet-mode] [eap-protocol-enable] [non-eap-reauthentication-enable] [block-different-radius-assigned-vlan] [adac-non-eap-enable]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`adac-non-eap-enable`	Allow authentication of Non-EAP Phones using ADAC
`allow-non-eap-enable`	Control of non-EAP clients (MAC addresses)
`auto-non-eap-mhsa-enable`	Allow auto-auth of non-EAP clients
`block-different-radius-assigned-vlan`	Block clients with different RADIUS Assigned VLAN
`eap-packet-mode`	Select type of packet used for initial eap request for ids
`eap-protocol-enable`	Enable EAP protocol on port
`non-eap-phone-enable`	Allow non-eap phone clients
`non-eap-reauthentication-enable`	Enable re-authentication for non-EAP clients
`non-eap-use-radius-assigned-vlan`	Allow the use of VLAN IDs assigned by RADIUS for non-EAP clients
`radius-non-eap-enable`	Enable RADIUS authentication of non-eap clients

use-most-recent-radius-vlan	Allow the use of most recent RADIUS vlan
use-radius-assigned-vlan	Allow the use of VLAN IDs assigned by RADIUS

eapol multihost dummy-adac-radius-requests

Set dummy radius request status

Syntax

- `eapol multihost dummy-adac-radius-requests enable`
- `no eapol multihost dummy-adac-radius-requests enable`
- `default eapol multihost dummy-adac-radius-requests enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
enable	Enable dummy request for ADAC non-eap clients

eapol multihost (Ethernet Interface Configuration)

Sets EAPOL multihost settings.

Syntax

- `eapol multihost [port <LINE>] {[adac-non-eap-enable] [allow-non-eap-enable] [auto-non-eap-mhsa-enable] [block-different-radius-assigned-vlan] [eap-mac-max <1-32>] [eap-packet-mode {multicast | unicast}] [eap-protocol-enable] [enable] [mac-max <1–64>][non-eap-mac-max <1-32>] [non-eap-phone-enable] [non-eap-use-radius-assigned-vlan][radius-non-eap-enable][use-most-recent-radius-vlan] [use-radius-assigned-vlan]}`
- `no eapol multihost [port <LINE>][enable][allow-non-eap-enable] [radius-non-eap-enable] [auto-non-eap-mhsa-enable] [non-eap-phone-enable] [use-radius-assigned-vlan] [non-eap-use-radius-assigned-vlan] [use-most-recent-radius-vlan]`
- `default eapol multihost [port <LINE>] [enable] [mac-max] [eap-mac-max] [non-eap-mac- max] [allow-non-eap-enable] [radius-non-eap-enable] [auto-non-eap-mhsa-enable] [non-eap-phone-enable][use-radius assigned-vlan] [eap-packet-mode] [use-most-recent-radius-vlan] [non-eap-use-radius-assigned-vlan]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`radius-non-eap-enable`	Enable RADIUS authentication of non-eap clients.
`adac-non-eap-enable`	Allow authentication of Non-EAP Phones using ADAC.
`allow-non-eap-enable`	Control of non-EAP clients (MAC addresses).
`auto-non-eap-mhsa-enable`	Allow auto-auth of non-EAP clients.
`block-different-radius-assigned-vlan`	Block clients with different RADIUS Assigned VLAN.
`eap-mac-max <1-32>`	Maximum number of EAP-authentication MAC addresses allowed.
`eap-packet-mode {multicast | unicast}`	Send initial EAP requests multicast or unicast.
`eap-protocol-enable`	Enable EAP protocol on port.
`enable`	Enables multihost support for EAPOL.
`mac-max <1-64>`	Maximum clients per port.

non-eap-mac-max <1-32>	Maximum number of non-EAP-authentication MAC addresses allowed.
non-eap-phone-enable	Allow non-eap phone clients.
non-eap-use-radius-assigned-vlan	Allow the use of VLAN IDs assigned by RADIUS for non-EAP clients.
port <LINE>	Port number on which to apply EAPOL settings.
use-most-recent-radius-vlan	Allow the use of most recent RADIUS vlan.
use-radius-assigned-vlan	Allow the use of VLAN IDs assigned by RADIUS.

eapol multihost fail-open-vlan

Set fail-open-vlan

Syntax

- `eapol multihost fail-open-vlan [enable] [vid <1-4094>] continuity-mode enable`
- `no eapol multihost fail-open-vlan [enable] continuity-mode enable`
- `default eapol multihost fail-open-vlan [enable] [vid <1-4094>] continuity-mode enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`continuity-mode`	Enable fail-open-vlan continuity-mode
`enable`	Enable fail-open-vlan
`vid <1-4094>`	fail-open-vlan ID

eapol multihost multivlan

Set EAPOL multihost multiVlan

Syntax

- `eapol multihost multivlan enable`
- `no eapol multihost multivlan enable`
- `default eapol multihost multivlan enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
enable	Enable multiVLAN functionality with MHMA mode

eapol multihost non-eap-mac

Sets the maximum number of non-EAP-authentication MAC addresses allowed.

Syntax

- `eapol multihost non-eap-mac [port <portlist>] <H.H.H>`
- `no eapol multihost non-eap-mac [port <portlist>] <H.H.H>`
- `default eapol multihost non-eap-mac [port <portlist>] <H.H.H>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<H.H.H>	The MAC address of the allowed non EAPOL host.
port <portlist> <H.H.H>	The list of ports on which you want to allow the specified non EAPOL hosts.

eapol multihost non-eap-pwd-fmt

Set bits in RADIUS non-EAPOL password format

Syntax

- `eapol multihost non-eap-pwd-fmt {[[ padding | no-padding ] [ip-addr] [mac-addr] [port-number] key] | key-string <LINE> }`
- `no eapol multihost non-eap-pwd-fmt { [padding ] [ip-addr] [mac-addr] [port-number] key] | key-string }`
- `default eapol multihost non-eap-pwd-fmt { [padding ] [ip-addr] [mac-addr] [port-number] key] | key-string }`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	Non-EAP Password key
ip-addr	Set IP Address bit
key	Use the key for Non-EAP Password
key-string	Enter Non-EAP Password Key
mac-addr	Set MAC Address bit
no-padding	Use dots only to separate fields in password
padding	Use dots for every missing parameters
port-number	Set Port Number bit

eapol multihost non-eap-user-based-policies

Enable non-EAPOL user-based policies

Syntax

- `eapol multihost non-eap-user-based-policies [enable] filter-on-mac enable`
- `no eapol multihost non-eap-user-based-policies [enable] filter-on-mac enable`
- `default eapol multihost non-eap-user-based-policies [enable] filter-on-mac enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable non-EAPOL user-based policies
`filter-on-mac enable`	Enable UBP filtering based on non-EAPOL MAC address

eapol multihost voip-vlan

Set voip-vlan

Syntax

- `eapol multihost voip-vlan <1-5> [enable] vid <1-4094>`
- `no eapol multihost voip-vlan <1-5> enable`
- `default eapol multihost voip-vlan <1-5> [enable] vid`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-5>	Number of voip vlan
enable	Enable voip-vlan
vid <1-4094>	voip-vlan ID

eapol radius-dynamic-server enable

Enables 802.1X dynamic authorization extension (RFC 3576) on an EAP port.

Syntax

- `eapol [port <LINE>] radius-dynamic-server enable`
- `no eapol port <LINE> radius-dynamic-server enable`
- `default eapol [ port <LINE> ] radius-dynamic-server`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<LINE>	Indicates an individual port or list of ports.

eapol user-based-policies

Enable EAPOL user-based policies

Syntax

- `eapol user-based-policies {enable | filter-on-mac enable}`
- `default eapol user-based-policies {enable | filter-on-mac enable}`
- `no eapol user-based-policies {enable | filter-on-mac enable}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable EAPOL user-based policies
`filter-on-mac enable`	Enable UBP filtering based on MAC address

edm help-file-path

Set the EDM help file path

Syntax

- `edm help-file-path <WORD> {tftp <address> { <A.B.C.D> | <IPv6-Address> } | usb unit <1-8> }`
- `no edm help-file-path`
- `default edm help-file-path`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<IPv6-address>	IPv6 address
<WORD>	EDM help file path
A.B.C.D	IPv4 address of the TFTP server
address	TFTP server address
tftp	Tftp-server
unit	Unit
usb	Usb device

edm inactivity-timeout

Set the EDM inactivity timeout

Syntax

- `edm inactivity-timeout <30 - 65535>`
- `no edm inactivity-timeout`
- `default edm inactivity-timeout`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<30 - 65535>	seconds

enable (Privileged EXEC mode)

Turn on privileged commands

Syntax

- `enable`

Default

None

Command mode

Privileged EXEC mode

enable (User Exec)

Turn on privileged commands

Syntax

- `enable`

Default

None

Command mode

User Exec

end (Application Configuration)

Exit from configure mode.

Syntax

- end

Default

None

Command mode

Application Configuration

end (Ethernet Interface Configuration)

Exit from configure mode.

Syntax

- end

Default

None

Command mode

Ethernet Interface Configuration

end (Global configuration mode)

Exit from configure mode.

Syntax

- end

Default

None

Command mode

Global configuration mode

end (OSPF Router Configuration)

Exit from router configure mode.

Syntax

- end

Default

None

Command mode

OSPF Router Configuration

end (RIP Router Configuration)

Exit from router configure mode

Syntax

- end

Default

None

Command mode

RIP Router Configuration

end (VLAN Interface Configuration)

Exit from interface configure mode.

Syntax

- `end`
- `exit`

Default

None

Command mode

VLAN Interface Configuration

Avaya Ethernet Routing Switch 5000 Series Release 6.6
NN47200-512 Avaya Command Line Interface Commands Reference
Version 01.01 December 2013

Avaya.com/support

end (VRRP Router Configuration)

Exit from router configuration mode.

Syntax

- end

Default

None

Command mode

VRRP Router Configuration

energy-saver (Ethernet Interface Configuration)

Configures per-port energy saver settings.

Syntax

- `[default] [no] energy-saver [enable] [port <portlist> enable]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`enable`	Enable energy saving.
`port <LINE>`	Specify list of ports.

energy-saver (Global configuration mode)

Configure global energy saver settings

Syntax

Default

None

Command mode

Global configuration mode

Avaya Ethernet Routing Switch 5000 Series Release 6.6
NN47200-512 Avaya Command Line Interface Commands Reference
Version 01.01 December 2013

Avaya.com/support

energy-saver (Privileged EXEC mode)

Manually activate or deactivate energy saver

Syntax

- `energy-saver {activate | deactivate}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`activate`	Manually activate energy saver
`deactivate`	Manually deactivate energy saver

energy-saver schedule

Configure energy saver activation/deactivation schedule

Syntax

- `energy-saver schedule { { sunday | monday | tuesday | wednesday | thursday | friday | saturday | weekday | weekend } <hh:mm> {activate | deactivate} }`
- `no energy-saver schedule { { sunday | monday | tuesday | wednesday | thursday | friday | saturday | weekday | weekend } <hh:mm>`
- `default energy-saver schedule { { sunday | monday | tuesday | wednesday | thursday | friday | saturday | weekday | weekend } <hh:mm>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
activate	Activate event
deactivate	Deactivate event
friday	Configure schedule entry for Friday
hh:mm Set	the hour and minutes
monday	Configure schedule entry for Monday
saturday	Configure schedule entry for Saturday
sunday	Configure schedule entry for Sunday
thursday	Configure schedule entry for Thursday
tuesday	Configure schedule entry for Tuesday
wednesday	Configure schedule entry for Wednesday
weekday	Configure schedule entries for weekdays
weekend	Configure schedule entries for weekends

exit (Application Configuration)

Exit from application configuration mode.

Syntax

- `exit`

Default

None

Command mode

Application Configuration

exit (Ethernet Interface Configuration)

Exit from interface configuration mode.

Syntax

- `exit`

Default

None

Command mode

Ethernet Interface Configuration

exit (Global configuration mode)

Exit from configure mode.

Syntax

- `exit`

Default

None

Command mode

Global configuration mode

exit (OSPF Router Configuration)

Exit from router configuration mode.

Syntax

- `exit`

Default

None

Command mode

OSPF Router Configuration

exit (Privileged EXEC mode)

Exit from the EXEC

Syntax

- `exit`

Default

None

Command mode

Privileged EXEC mode

exit (RIP Router Configuration)

Exit from router configuration mode

Syntax

- `exit`

Default

None

Command mode

RIP Router Configuration

exit (User Exec)

Exit from the EXEC

Syntax

- `exit`

Default

None

Command mode

User Exec

exit (VLAN Interface Configuration)

Exit from interface configuration mode.

Syntax

Default

None

Command mode

VLAN Interface Configuration

Avaya Ethernet Routing Switch 5000 Series Release 6.6
NN47200-512 Avaya Command Line Interface Commands Reference
Version 01.01 December 2013

exit (VRRP Router Configuration)

Exit from router configuration mode.

Syntax

- `exit`

Default

None

Command mode

VRRP Router Configuration

flowcontrol

Configure flow control mode of a port.

Syntax

- `flowcontrol [port <LINE>] {asymmetric | symmetric | auto |disable}`
- `no flowcontrol [port <portlist>]`
- `default flowcontrol [port <portlist>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`asymmetric`	Set the mode for flow control. PAUSE frames can flow only in one direction.
`auto`	Set the port to automatically determine the flow control mode (default).
`disable`	Disable flow control on the port.
`port <LINE>`	Specify the port numbers to configure for flow control.
`symmetric`	Set the mode for flow control. PAUSE frames can flow in either direction.

global-debug

Display debug infomration for BGP global configuration

Syntax

- `global-debug mask <WORD>`
- `default global-debug mask`
- `no global-debug mask`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
`mask <WORD>`	Displays specified debug information for BGP global configurations

help (Privileged EXEC mode)

Description of the interactive help system

Syntax

- `help {commands mode {application | config | current | exec | ifconfig | interface {Ethernet | vlan} | privExec | router {ospf | rip | vrrp}} | modes`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
application	Show commands available in Application Configuration Mode
commands	Show commands available
config	Show commands available in Global Configuration Mode
current	Show commands available in current configuration mode
exec	Show commands available in executive mode
ifconfig	Show commands available in Interface Configuration Mode
interface	Show commands available in Interface Configuration Modes
mode	Show commands available on specific mode
modes	Show available modes
privExec	Show commands available in Privileged Executive Mode
router	Show commands available in Router Configuration Modes

help (User Exec)

Description of the interactive help system

Syntax

- `help {commands mode { application | config | current | exec | ifconfig | interface { Ethernet | vlan } | privExec | router { ospf | rip | vrrp } } | modes`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
application	Show commands available in Application Configuration Mode
commands	Show commands available
config	Show commands available in Global Configuration Mode
current	Show commands available in current configuration mode
exec	Show commands available in executive mode
ifconfig	Show commands available in Interface Configuration Mode
interface	Show commands available in Interface Configuration Modes
mode	Show commands available on specific mode
modes	Show available modes
ospf	Show commands available in OSPF Router Configuration Mode
privExec	Show commands available in Privileged Executive Mode
rip	Show commands available in RIP Router Configuration Mode
router	Show commands available in Router Configuration Modes
vrrp	Show commands available in VRRP Router Configuration Mode

host-route

Adds a host to a router.

Syntax

- `host-route <A.B.C.D.> metric <0-65535>`
- `default host-route <A.B.C.D.>`
- `no host-route <A.B.C.D.>`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
<A.B.C.D.>	Specifies the host IP address
metric <0-65535>	Specifies an integer between 0 and 65535 representing the configured cost of the host route.
no	Deletes a host route from the router

http-port

Set the TCP port on which web server will listen

Syntax

- `http-port <1024-65535>`
- `default http-port`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1024-65535>	http port number

ibgp-report-import-rt

Enable reporting of non-BGP import routes

Syntax

- `ibgp-report-import-rt enable`
- `ibgp-report-import-rt [enable]`
- `ibgp-report-import-rt [enable]`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
enable	Configures BGP to advertise imported routes to an IBGP peer.

ignore-illegal-rtrid

Allows BGP to overlook an illegal router ID

Syntax

- `ignore-illegal-rtrid [enable]`
- `defafult ignore-illegal-rtrid [enable]`
- `no ignore-illegal-rtrid [enable]`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
enable	Enables BGP to overllok an illegal router ID. Default is enable.

install

Quick Install & Setup Script

Syntax

- `install`

Default

None

Command mode

Privileged EXEC mode

interface

Select an interface to configure

Syntax

- `interface { Ethernet <LINE> | vlan <1-4094> }`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	Port list
Ethernet	Ethernet IEEE 802.3
vlan <1-4094>	Layer 3 IP VLAN

ip address

Set switch/stack IP address

Syntax

- `ip address { [ [stack | switch] {A.B.C.D} [netmask {A.B.C.D}] [default-gateway {A.B.C.D}] ] | [source {bootp-always | bootp-last-address | bootp-when-needed | configured-address | dhcp-always | dhcp-last-address | dhcp-when-needed] | [unit <1-8> {A.B.C.D}] }`
- `no ip address { stack | switch | unit <1-8> }`
- `default ip address <source>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<source>	Restore default BootP/DHCP settings
A.B.C.D	IP address
bootp-always	Always use the bootp server
bootp-last-address	Use the last time bootp server
bootp-when-needed	Use bootp server when needed
configured-address	User-configured IP address
default-gateway {A.B.C.D}	set default-gateway address
dhcp-always	Always use the DHCP server
dhcp-last-address	Use the last time DHCP server
dhcp-when-needed	Use DHCP client when needed
netmask {A.B.C.D}	The subnet mask
source	BootP/DHCP mode
stack	The address of the stack
switch	To set the IP address of local unit
unit <1-8> {A.B.C.D}	To set the IP address of another unit in a stack

ip address (VLAN Interface Configuration)

Assigns an IP addr to a vlan.

Syntax

- `[no] ip address A.B.C.D <subnet_mask> [ <1-256> ]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<1-256>	MAC offset, 1 for management vlan only.
<subnet_mask>	Subnet mask.
A.B.C.D	IP address.

ip arp-inspection

Enable ARP inspection

Syntax

- `ip arp-inspection vlan <1-4094>`
- `no ip arp-inspection vlan <1-4094>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`vlan <1-4094>`	Configure ARP inspection VLANs

ip arp-inspection (Ethernet Interface Configuration)

Specify whether a particular port or range of ports is trusted (ARP traffic is not subject to dynamic ARP inspection) or untrusted (ARP traffic is subject to dynamic ARP inspection).

Syntax

- `ip arp-inspection [port <LINE>] {trusted|untrusted}`
- `default ip arp-inspection port <LINE>`

Default

`untrusted`

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`port <LINE>`	Specify list of ports.
`trusted`	ARP traffic is not subject to dynamic ARP inspection.
`untrusted`	ARP traffic is subject to dynamic ARP inspection.

ip arp-proxy

Configures proxy ARP status on a VLAN.

Syntax

- `[default] [no] ip arp-proxy enable`

Default

None

Command mode

VLAN Interface Configuration

ip as-list

Create an AS-list

Syntax

- `ip as-list <1-1024> memberid <0-65535> <permit | deny> as-path <WORD>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`memberid <0-65535>`	Specifies a value representing the regular expression entry in the AS path list.
`<permit | deny >`	Permits or denies access for matching conditions.
`as-path <WORD>`	Specifies the AS number as an integer value between 0 and 1536. Place multiple AS numbers within quotation marks.

ip bgp apply redistribute

Apply BGP redistribute configuration

Syntax

- `ip bgp apply redistribute [ direct | ospf | rip | static ]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
direct	Only apply direct redistribute configuration
ospf	Only apply OSPF redistribute configuration
rip	Only apply RIP redistribute configuration
static	Only apply static redistribute configuration

ip bgp restart-bgp

Restart BGP globally

Syntax

- `ip bgp restart-bgp neighbor {<A.B.C.D> | <WORD>} [soft-reconfiguration <in | out>]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
neighbor	Restart the specified peer
<A.B.C.D>	IP address
<WORD>	Peer group name
soft-reconfiguration <in | out>	Soft reconfiguration

ip bgp stats-clear-counters

Clar all BGP counters

Syntax

- `ip bgp stats-clear-counters neighbor {<A.B.C.D> | <WORD>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
neighbor	Clear all counters specific to the peer
<A.B.C.D>	IP address
<WORD>	Peer group name

ip blocking-mode

Configure the Layer 3 IP blocking mode

Syntax

- `ip blocking-mode { full | none }`
- `default ip blocking-mode`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
full	Set the IP blocking mode to full
none	Set the IP blocking mode to none

ip bootp

Config BOOTP services

Syntax

- `ip bootp server {always | default-ip | disable | last }`
- `no ip bootp server`
- `default ip bootp server`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
always	Always use the bootp server
default-ip	Use BootP server or the default IP
disable	Never use bootp server
last	Use the last time bootp server

ip community-list

Create a community list

Syntax

- `ip community-list <1-1024>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-1024>	Specifies the list ID.

ip default-gateway

Specify default gateway (if not routing IP)

Syntax

- `ip default-gateway {A.B.C.D}`
- `no ip default-gateway`
- `default ip default-gateway`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
{A.B.C.D}	IP address of default gateway

ip dhcp

Configure DHCP client settings

Syntax

- `ip dhcp client lease {<10-4294967295> | days <1-49710> | hours <1-1193046> | minutes <1-71582788>|weeks <1-7101>]`
- `no ip dhcp client lease`
- `default ip dhcp client lease`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<10-4294967295>	Lease time in seconds
client	Configure DHCP client settings
days <1-49710>	Lease time in days
hours <1-1193046>	Lease time in hours
lease	Configure DHCP lease time
minutes <1-71582788>	Lease time in minutes
weeks <1-7101>	Lease time in weeks

ip dhcp-relay

Enable DHCP relay

Syntax

- `ip dhcp-relay {fwd-path <agent-ip> <dhcp-ip> {disable | enable | mode <bootp | bootp-dhcp | dhcp>}} | max-frame <576-1536> | option82}`
- `no ip dhcp-relay {fwd-path <agent-ip> <dhcp-ip> | option82}`
- `default ip dhcp-relay {max-frame | option82}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`bootp`	set DHCP server mode to BOOTP only
`bootp-dhcp`	set DHCP server mode to both BOOTP and DHCP
`dhcp`	set DHCP server mode to DHCP only
`disable`	disable this forwarder path
`enable`	enable this forwarder path
`fwd-path <agent-ip> <dhcp-ip>`	Configure DHCP relay forward path
`max-frame <576-1536>`	Set the maximum length for which option82 is added to DHCP packets for relay
`mode`	set DHCP mode supported by this forwarder path
`option82`	Enable option 82 for DHCP Relay

ip dhcp-relay (Ethernet Interface Configuration)

Assign an Option 82 for DHCP Relay subscriber Id to a port.

Syntax

- `ip dhcp-relay [port <LINE>] option82-subscriber-id <WORD>`
- `no ip dhcp-relay option82-subscriber-id`
- `default ip dhcp-relay option82-subscriber-id`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`option82-subscriber-id <WORD>`	Specifies the DHCP Option 82 subscriber Id for the port. Value is a character string between 0 and 64 characters.
`port <LINE>`	Specify list of ports.

ip dhcp-relay (VLAN Interface Configuration)

Configures DHCP relay for a vlan.

Syntax

- `[no] ip dhcp-relay [broadcast] [min-sec <min-sec>] [mode {bootp | dhcp | bootp_dhcp}] [option82]`
- `default ip dhcp-relay option82`
- `ip dhcp-relay clear-counters`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`broadcast`	Enables the broadcast of DHCP reply packets to the DHCP clients on this VLAN interface
`min-sec <minsec>`	Indicates the min-sec value. The switch immediately forwards a BootP/DHCP packet if the secs field in the BootP/DHCP packet header is greater than the configured min-sec value; otherwise, the packet is dropped. Range is 0-65535. The default is 0.
`mode {bootp |dhcp |bootp_dhcp}`	Specifies the type of DHCP packets this VLAN supports: bootp - Supports BootP only; dhcp - Supports DHCP only; bootp_dhcp - Supports both BootP and DHCP.
`option82`	Enables Option 82 for DHCP relay on a VLAN.

ip dhcp-snooping binding

Add static DHCP snooping binding table entry

Syntax

- `ip dhcp-snooping binding <1-4094> <H.H.H> ip {A.B.C.D} port <LINE> expiry <1-4294967295>`
- `no ip dhcp-snooping binding <1-4094> <H.H.H>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-4094>	VLAN ID
<H.H.H>	MAC Address to add (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
expiry <1-4294967295>	Entry expiry time
ip {A.B.C.D}	IP address
port <LINE>	Port on which the device is connected

ip dhcp-snooping (Ethernet Interface Configuration)

Configure DHCP snooping port settings.

Syntax

- `[default] [no] ip dhcp-snooping [port <portlist>] <trusted | untrusted> option82-subscriber-id <WORD>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
option82-subscriber-id WORD	Specifies the DHCP Option 82 subscriber Id for the port. Value is a character string between 0 and 64 characters.
port <portlist>	Specifies a port or group of ports.
trusted	When selected, the port or ports automatically forward DHCP replies.
untrusted	When selected, the port or ports filter DHCP replies through DHCP snooping.

ip dhcp-snooping external-save

Control the external DHCP snooping binding table saving

Syntax

- `ip dhcp-snooping external-save [enable] {[tftp | sftp {[<A.B.C.D> | <WORD>] filename <WORD>}[username <WORD>]] | [usb {[unit <1-8>] [filename <WORD>]}] }`
- `no ip dhcp-snooping external-save enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
A.B.C.D	IPv4 address of TFTP or SFTP server
enable	Enable DHCP snooping binding table external saving
filename <WORD>	DHCP snooping binding table external file name
sftp	Save the DHCP snooping binding table on an SFTP server
tftp	Save the DHCP snooping binding table on a TFTP server
unit <1-8>	USB unit number on which to save the DHCP snooping binding table
usb	Save the DHCP snooping binding table on USB
username <WORD>	username for SFTP server
WORD	IPv6 address of TFTP or SFTP server

ip dhcp-snooping (Global configuration mode)

Configure DHCP snooping settings

Syntax

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
enable	Enable DHCP Snooping
external-save	Disable DHCP snooping binding table external saving
option82	Enable option 82 for DHCP snooping
vlan <LINE>	Configure DHCP snooping VLANs

ip dhcp-snooping (Privileged EXEC mode)

Configure DHCP snooping settings

Syntax

- `ip dhcp-snooping external-save restore`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`external-save`	Control the external DHCP snooping binding table saving
`restore`	Restore previously saved DHCP snooping binding table

ip directed-broadcast

Enabled directed broadcast forwarding

Syntax

- `ip directed-broadcast enable`
- `no ip directed-broadcast enable`
- `default ip directed-broadcast enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
enable	Enable IP directed broadcast

ip directed-broadcast (VLAN Interface Configuration)

Configure IP directed-broadcast on a VLAN

Syntax

- `ip directed-broadcast [enable]`
- `default ip directed-broadcast [enable]`
- `no ip directed-broadcast [enable]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
enable	Enable IP directed broadcast

ip domain-name

Configure DNS domain name

Syntax

- `ip domain-name <LINE>`
- `no ip domain-name`
- `default ip domain-name`

Default

`None`

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<LINE>`	DNS domain name

ip forward-protocol

Configure broadcast forwarding

Syntax

- `ip forward-protocol udp { <1-65535> <WORD> | portfwdlist <1-128> <1-65535> <A.B.C.D> <name> }`
- `no ip forward-protocol udp { <1-65535> | portfwdlist <1-128> <1-65535> <A.B.C.D>}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-128>	Enter ID of list of ports to forward
<1-65535>	Enter UDP port to forward
<A.B.C.D>	Enter IP Destination for the UDP port
<WORD>	Protocol name
name	Enter name of the list
portfwdlist	Set a port forwarding list
udp	Configure UDP broadcast forwarding

ip forward-protocol udp (VLAN Interface Configuration)

Associates a UDP forwarding list with a VLAN interface.

Syntax

- `[no] ip forward-protocol udp [vlan <vid>] [portfwdlist <forward_list>] [broadcastmask <bcast_mask>] [maxttl <max_ttl>]`
- `default ip forward-protocol udp [vlan <vid>] [broadcastmask] [maxttl]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<bcast_mask>	Specifies the 32-bit mask used by the selected VLAN interface to make forwarding decisions based on the destination IP address of the incoming UDP broadcast traffic. If you do not specify a broadcast mask value, the switch uses the mask of the interface to which the forwarding list is attached.
<forward_list>	Specifies the ID of the UDP forwarding list to attach to the selected VLAN interface.
<max_ttl>	Specifies the timet-to-live (TTL) value inserted in the IP headers of the forwarded UDP packets coming out of the selected VLAN interface. If you do not specify a TTL value, the default value (4) is used.
<vid>	Specifies the VLAN ID on which to attach the UDP forwarding list. This parameter is optional, and if not specified, the UDP forwarding list is applied to the interface specified in the interface vlan command.

ip fwd-nh

Configure IP forwarding next-hop settings

Syntax

- `ip fwd-nh [enable][policy <WORD> match source-ip <A.B.C.D/<0-32> {[port-min <0-65535> port-max <0-65535>][port-type <both | tcp | udp>][set next-hop <A.B.C.D> [secondary-next-hop <A.B.C.D>]]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enables the IP forwarding next-hop feature.
`policy <WORD>`	Name of next-hop forwarding policy.
`match`	Policy matching parameters
`source-ip A.B.C.D/<0-32>`	Source IP address and mask length to be matched.
`port-min <0-65535> port-max <0-65535>`	Specifies the minimum and maximum L4 destination port value.
`port-type <both | tcp | udp>`	Specifies destination port type.
`set next-hop <A.B.C.D>`	Specifies next-hop IP address
`secondary-next-hop <A.B.C.D>`	Specifies IP address of secondary next-hop IP forwarding next-hop

ip fwd-nh (VLAN Interface Configuration)

Configure IP forwarding next-hop configuration settings

Syntax

- `ip fwd-nh { [admin-status <disable|enable>] | [policy <WORD> mode <drop|normal-routing>]}`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`admin-status <disable|enable>`	Specifies IP fowarding administrative status for all policies.
`policy <WORD>`	Specify the name of the next-hop forwarding policy.
`mode <drop	normail-routing>`	Specify the packet forwarding decision to be made when the next-hop is not reachable. Default is normal-routing.

ip igmp

Configure global IGMP settings

Syntax

- `ip igmp { [flush {Ethernet <LINE> | vlan <1-4094> {grp-member | mrouter} ] | [multicast-filter-mode [enable]] | [ profile <1-65535> ] | [ssm [dynamic-learning] group-range <A.B.C.D>/0-32] | [ssm-map {<Multicast-group-address> <SSM-map/channel-ip-source>| all} enable <A.B.C.D>] }`
- `no ip igmp {[multicast-filter-mode [enable]] | [profile <1-65535>] | [ssm dynamic-learning] | [ssm-map {<Multicast-group-address> | all} enable] }`
- `default ip igmp multicast-filter-mode [enable]`
- `default ip igmp profile <1-65535>`
- `default ip igmp ssm {dynamic-learning | group-range}`
- `default ip igmp ssm-map {<A.B.C.D> | all} enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<Multicast-group-address>`	Multicast group address <A.B.C.D>
`<SSM-map/channel-ip-source>`	SSM map/channel IP source <A.B.C.D>
`A.B.C.D/<0-32>`	SSM group range IP/mask
`all`	All multicast groups
`dynamic-learning`	Enable SSM dynamic learning
`enable`	Enable SSM map/channel
`Ethernet`	Flush on Ethernet ports
`flush`	Flush IGMP Mrouter, group member, or sender
`group-range`	Configure SSM group range IP/mask
`grp-member`	Flush IGMP group member
`LINE`	Listt of ports
`mrouter`	Flush IGMP Mrouter

`profile <1-65535>`	Create/modify IGMP filter profile
`ssm`	Configure global SSM settings
`ssm-map`	Create/modify SSM map/channel
`vlan <1-4094>`	Flush on vlan interfaces

ip igmp filter

Add IGMP filter profile to interface.

Syntax

- `ip igmp filter <1-65535>`
- `no ip igmp filter`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-65535>	Add IGMP filter profile to interface.

ip igmp last-member-query-interval

Sets the maximum response time (in tenths of a second) that is inserted into group-specific queries that are sent in response to leave group messages.

Syntax

- `[default] ip igmp last-member-query-interval <0–255>`

Default

`10`

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`[default]`	Sets the last member query interval to the default value of 10.
`<0–255>`	Specifies the last member query interval value in 1/10 of a second. Values range from 0 to 255. Avaya recommends that you configure this parameter to values higher than 3. If a fast leave process is not required, Avaya recommends values above 10.

ip igmp mrouter

Adds one or more static mrouter ports to a VLAN.

Syntax

- `ip igmp mrouter <port_list>`
- `default ip igmp mrouter`
- `no ip igmp mrouter [<port_list>]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`<port_list>`	Specifies the port or ports to add to the VLAN as static mrouter ports.

ip igmp proxy

Enables or disables IGMP proxy on a VLAN.

Syntax

- `[default] [no] ip igmp proxy`

Default

None

Command mode

VLAN Interface Configuration

ip igmp query-interval

Sets the frequency (in seconds) at which host query packets are transmitted on the VLAN.

Syntax

- `[default] ip igmp query-interval <1–65535>`

Default

125

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
[default]	Sets the query interval to the default value of 125 seconds
<1–65535>	Specifies the query interval value. Values range from 1 to 65535 seconds.

ip igmp query-max-response

Sets the maximum response time (in tenths of a second) that is advertised in IGMPv2 general queries on the VLAN.

Syntax

- `[default] ip igmp query-max-response <0–255>`

Default

`100`

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`[default]`	Sets the maximum query response time to the default value of 100.
`<0–255>`	Specifies the maximum query response time value in 1/10 of a second. Values range from 0 to 255.

ip igmp robust-value

Sets the robustness value for a VLAN. With IGMP snooping robustness, the switch can offset expected packet loss on a subnet.

Syntax

- `[default] ip igmp robust-value <2–255>`

Default

2

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<2–255>	Specifies a numerical value for IGMP snooping robustness. Values range from 2 to 255.

ip igmp router-alert

Enables the router alert feature. This feature instructs the router to drop control packets that do not have the router-alert flag in the IP header.

Syntax

- `[default] [no] ip igmp router-alert`

Default

None

Command mode

VLAN Interface Configuration

ip igmp send-query

Enables or disables IGMP send query on a snoop-enabled VLAN.

Syntax

- `[default] [no] ip igmp send-query`

Default

None

Command mode

VLAN Interface Configuration

ip igmp snooping

Enables or disables IGMP snooping for a VLAN.

Syntax

- `[default] [no] ip igmp snooping`

Default

None

Command mode

VLAN Interface Configuration

ip igmp version

Configures the IGMP version running on the VLAN.

Syntax

- `[default] ip igmp version <1-3>`

Default

`IGMPv2`

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`<1-3>`	Specifies the IGMP version: 1—IGMPv1; 2—IGMPv2; 3—IGMPv3.
`default`	Restores the IGMP protocol version to the default value (IGMPv2).

ip igmp (VLAN Interface Configuration)

Creates a new IGMP interface.

Syntax

- `[no] [default] ip igmp`

Default

None

Command mode

VLAN Interface Configuration

ip ipfix collector

Configure IPFIX collectors

Syntax

- `ip ipfix collector <A.B.C.D> [enable] dest-port <1-65535>`
- `no ip ipfix collector <A.B.C.D> enable`
- `default ip ipfix collector <A.B.C.D> {dest-port | enable dest-port}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
A.B.C.D	Collector address
dest-port <1-65535>	Set destination port
enable	Enable IPFIX collector

ip ipfix enable

Enable IPFIX

Syntax

- `ip ipfix enable`
- `no ip ipfix enable`
- `default ip ipfix enable`

Default

None

Command mode

Global configuration mode

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NN47200-512 Avaya Command Line Interface Commands Reference
Version 01.01 December 2013

Avaya.com/support

ip ipfix (Ethernet Interface Configuration)

Enable IPFIX for one or more ports.

Syntax

- `ip ipfix [enable] [port <LINE> enable]`
- `default ip ipfix [enable] [port <LINE> enable]`
- `no ip ipfix [enable] [port <LINE> enable]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`enable`	Enable IPFIX for one or more ports.
`port <LINE>`	Specifies an individual port or list of ports.

ip ipfix (Global configuration mode)

Configure IPFIX

Syntax

Default

None

Command mode

Global configuration mode

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ip ipfix (Privileged EXEC mode)

Export/Flush ipfix

Syntax

- `ip ipfix flush port <LINE> export-and-flush`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	list of ports
export-and-flush	Export and flush ipfix data
flush	Flush ipfix port data
port	Specify ports

ip ipfix slot

Configure IPFIX per-slot/unit settings

Syntax

- `ip ipfix slot <LINE> aging-interval <0-2147400>`
- `default ip ipfix slot <LINE> aging-interval`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<LINE>`	slot list (1 for standalone; 1- n for n high stack)
`aging-interval <0-2147400>`	Set flow record aging interval

ip (Loopback Interface Configuration)

Configure L3 parameters on a loopback interface

Syntax

- `[no] ip {address <A.B.C.D><A.B.C.D> | area <A.B.C.D> | ospf }`
- `default ip { area | ospf }`

Default

None

Command mode

Loopback Interface Configuration

Command parameters

Parameter	Description
`address <A.B.C.D> <A.B.C.D>`	Set an IIP address
`area <A.B.C.D>`	Assign loopback interface to area
`ospf`	Enable OSPF on a loopback interface

ip mgmt

Configure management information

Syntax

- `ip mgmt address [switch][stack] <A.B.C.D> [netmask [unit <1-8>]<A.B.C.D>][default-gateway <A.B.C.D>]`
- `ip mgmt route <destination-ip-addr> <destination-subnet-mask> <gateway-ip>`
- `no ip mgmt address [switch][stack]`
- `no ip mgmt default-gateway`
- `no ip mgmt netmask [unit <1-8>]`
- `no ip mgmt route <destination-ip-addr> <destination-subnet-mask> <gateway-ip>`
- `default ip mgmt {address unit <1-8> | default-gateway | limit | netmask unit <1-8> | shutdown-interval}`
- `default ip netmask`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`address [stack][switch] <A.B.C.D> [netmask <A.B.C.D>]`	Set the switch or stack management IP address
`default-gateway {A.B.C.D}`	Specify management default gateway
`<destination-ip-addr>`	destination IP <A.B.C.D>
`<destination-subnet-mask>`	destination subnet mask <A.B.C.D>
`<gateway-ip>`	gateway IP <A.B.C.D>
`limit <50-10000>`	Specify the pps limit at which the OOB port will be automatically shutdown
`netmask <A.B.C.D>`	Set the management subnet mask
`route`	Configure a static route for the mgmt vlan
`shutdown [all][unit <1-8>]`	Shutdown the management port
	Set the management port shutdown time in

shutdown-interval <0-180>

seconds

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ipmgr

Modify IP Manager settings

Syntax

- `ipmgr {snmp|telnet|web|sorce-ip <list ID> <IPaddr> [mask <mask>]}`
- `no ipmgr {snmp|telnet|web|source-ip <list ID>}`
- `default ipmgr {snmp|telnet|web|sorce-ip <list ID>}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
snmp	Enable IP Manager control over SNMP traffic
source-ip {<1-50> | <50-100> <WORD>}	Set source IP address from which connections are allowed
telnet	Enable IP Manager control over TELNET sessions
web	Enable IP Manager control over WEB connections

ip name-server

Configure DNS server IP addresses

Syntax

- `ip name-server { <A.B.C.D> | <WORD> }`
- `no ip name-server { <A.B.C.D> | <WORD> }`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<A.B.C.D>	IPv4 address
<WORD>	IPv6 address, 45 length

ip num-routes

Limit max allowed routes per protocol type

Syntax

- `ip num-routes [max-local <2-256>] max-static <0-256>`
- `default ip num-routes {max-local | max-static}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`max-local <2-256>`	Set maximum allowed local routes
`max-static <0-256>`	Set maximum allowed static routes

ip opsf authentication-key (Ethernet Interface Configuration)

Configure an OSPF interface authentication password.

Syntax

- `ip opsf authentication-key <password>`
- `no ip ospf authentication-key`
- `default ip ospf authentication-key`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`<password>`	Specifies the password to be configured. This password can be up to 8 characters in length.

ip opsf authentication-key (VLAN Interface Configuration)

Configures an interface authentication password.

Syntax

- `ip opsf authentication-key <password>`
- `no ip ospf authentication-key`
- `default ip ospf authentication-key`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<password>	Specifies the password to be configured.

ip ospf apply

Apply OSPF policy/redistribute configuration

Syntax

- `ip ospf apply {accept | redistribute <bgp | direct | rip | static>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
accept	Apply OSFP accept policies
bgp	Only apply BGP redistribute configuration
direct	Only apply direct redistribute configuration
redistribute	Apply OSPF redistribute configurations
rip	Only apply RIP redistribute configuration
static	Only apply static redistribute configuration

ip ospf area

Assign an interface to an OSPF area.

Syntax

- `ip ospf area <area-id>`
- `no ip ospf area`
- `default ip ospf area`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<area-id>	Specifies the unique ID of the area to which the interface connects. An area ID of 0.0.0.0 indicates the OSPF area backbone and is created automatically by the switch.

ip ospf area (VLAN Interface Configuration)

Assigns an interface to an OSPF area on a VLAN.

Syntax

- `ip ospf area <area-id>`
- `no ip ospf area`
- `default ip ospf area`

Default

`None`

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`<area-id>`	Specifies the unique ID of the area to which the interface connects. An area ID of 0.0.0.0 indicates the OSPF area backbone and is created automatically by the switch.

ip ospf authentication-type (Ethernet Interface Configuration)

Configure the interface authentication type.

Syntax

- `ip ospf authentication-type [message-digest | simple | none]`
- `no ip ospf authentication-type`
- `default ip ospf authentication-type`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`message-digest`	MD5 digest authentication type.
`none`	No authentication type is applied to the interface.
`simple`	Simple password authentication type.

ip ospf authentication-type (VLAN Interface Configuration)

Selects interface authentication type.

Syntax

- `ip ospf authentication-type [message-digest | simple | none]`
- `no ip ospf authentication-type`
- `default ip ospf authentication-type`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
[message-digest | simple | none]	Specifies the authentication type: message-digest—MD5 digest authentication type; simple—simple password authentication type; none—no authentication type is applied to the interface.

ip ospf (Ethernet Interface Configuration)

Configure OSPF for an interface.

Syntax

- `ip ospf [ port LINE ] {[advertise-when-down enable] [cost <interface_cost>] [dead-interval <interval>] [hello-interval <interval>] [mtu-ignore enable] [network <broadcast | passive>] [primary-md5-key <1-255>] [priority <0-255>] [retransmit-interval <1-3600>] [transit-delay <1-3600>]} [ enable ]`
- `no ip ospf mtu-ignore enable`
- `default ip ospf mtu-ignore enable`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`advertise-when-down enable`	Enables the advertisement of the OSPF interface, and even if the port or VLAN for the routing interface subsequently goes down, the switch continues to advertise the route.
`cost <interface_cost>`	Specifies the cost assigned to the interface. This is an integer value between 1 and 65535.
`dead-interval <interval>`	Specifies a dead interval for the interface. This is the interval of time that a neighbor waits for a Hello packet from this interface before the neighbor declares it down. This is an integer value between 0 and 2147483647.
`enable`	Enable OSPF on an interface.
`hello-interval <interval>`	Specifies the amount of time between transmission of hello packets from this interface. This is an integer value between 1 and 65535.
`mtu-ignore enable`	Instructs the interface to ignore the packet MTU size specified in Database Descriptors.
`network {broadcast | passive}`	Defines the type of OSPF interface this interface is.
`port <LINE>`	Select port(s) for operation.
`primary-md5-key <1-255>`	Select MD5 key used for transmit.

`priority <0-255>`	Assigns a priority to the interface for the purposes of Designated Router election. This is an integer value between 0 and 255.
`retransmit-interval <1-3600>`	Defines the number of seconds between link state advertisement retransmissions for adjacencies belonging to this interface. This is an integer value between 1 and 3600.
`transit-delay <1-3600>`	Defines the transit delay for this OSPF interface in seconds. The transit delay is the estimated number of seconds it takes to transmit a link-state update over the interface. This is an integer value between 1 and 3600.

ip ospf message-digest-key (Ethernet Interface Configuration)

Define an MD5 key.

Syntax

- `ip ospf message-digest-key <key_number> md5 <key_value>`
- `no ip ospf message-digest-key <1-255>`
- `default ip ospf message-digest-key <1-255>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<key_number>	Specifies an index value for the MD5 key being configured. This is an integer value between 1 and 255.
<key_value>	Specifies the value of the MD5 key. This is a string value of up to 16 characters in length.

ip ospf message-digest-key (VLAN Interface Configuration)

Configures MD5 key for interface.

Syntax

- `ip ospf message-digest-key <key_number> md5 <key_value>`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<key_number>	Specifies an index value for the MD5 key being configured. This is an integer value between 1 and 255.
<key_value>	Specifies the value of the MD5 key. This is a string value of up to 16 characters in length.

ip ospf spf-run

Initiate SPF run to immediately update OSPF LSDB

Syntax

- `ip ospf spf-run`

Default

None

Command mode

Privileged EXEC mode

ip ospf (VLAN Interface Configuration)

Configures OSPF settings on a VLAN.

Syntax

- `ip ospf [ vlan <1-4094> ] {[advertise-when-down enable] [cost <interface_cost>] [dead-interval <interval>] [hello-interval <interval>] [mtu-ignore enable] [network <broadcast | passive>] [primary-md5-key <1-255>] [priority <0-255>] [retransmit-interval <1-3600>] [transit-delay <1-3600>]} [ enable ]`

Default

`None`

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`[transit-delay <1-3600>]} [enable]`	Defines the transit delay for this OSPF interface in seconds. The transit delay is the estimated number of seconds it takes to transmit a link-state update over the interface. This is an integer value between 1 and 3600.
`cost <interface_cost>`	Specifies the cost assigned to the interface.
`dead-interval <interval>`	Specifies a dead interval for the interface. This is the interval of time that a neighbor waits for a Hello packet from this interface before the neighbor declares it down.
`hello-interval <interval>`	Specifies the amount of time between transmission of hello packets from this interface.
`[retransmit-interval <1-3600>]`	Defines the number of seconds between link state advertisement retransmissions for adjacencies belonging to this interface.
`advertise-when-down enable`	Enables the advertisement of the OSPF interface, and even if the port or VLAN for the routing interface subsequently goes down, the switch continues to advertise the route.
`mtu-ignore enable`	Instructs the interface to ignore the packet MTU size specified in Database Descriptors.
`network <broadcast | passive>`	Defines the type of OSPF interface this interface is.
`primary-md5-key`	

<1-255>	Select MD5 key used for transmit.
priority <0-255>	Assigns a priority to the interface for the purposes of Designated Router election. This is an integer value between 0 and 255.
vlan <1-4094>	Select VLAN ID.

ip pim

Configure global PIM settings

Syntax

- `ip pim { [bootstrap-period <5-32757>][disc-data-timeout <5-65565>][enable][fwd-cache-timeout <10-86400>][join-prune-interval <1-18724>][mode <sparse|ssm>][register-suppression-timeout <6-65535>][rp-c-adv-timeout <5-26214>][unicast-route-change0timeout <2-65535>]}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`bootstrap-period <5-32757>`	Specify PIM bootstrap period
`disc-date-timeout <5-65535>`	Specify PIM disc data timeout
`enable`	Enable PIM
`fwd-cache-timeout <10-86400>`	Configure forwarding cache timeout
`join-prune-interval <1-18724>`	Configure PIM join-prune interval
`mode < sparse | ssm >`	Configure PIM mode
`register-suppression-timeout <6-65535>`	Configure PIM register suppression timeout
`rp-c-adv-timeout <5-26214>`	Configure Candidate RP Advt Timeout
`unicast-route-change-timeout <2-65535>`	Configure PIM unicast route change timeout

ip pim rp-candidate

Configure global PIM settings

Syntax

- `ip pim rp-candidate group <A.B.C.D> <A.B.C.D> rp <A.B.C.D>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`group <A.B.C.D> <A.B.C.D> rp <A.B.C.D>`	Specify group address and mask and RP address

ip pim static-rp

Configure global PIM settings

Syntax

- `ip pim static-rp <A.B.C.D> <A.B.C.D> <A.B.C.D>`
- `ip pim static-rp <A.B.C.D>/<0-32> <A.B.C.D>`
- `ip pim static-rp enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<A.B.C.D> <A.B.C.D> <A.B.C.D>`	Group address, group mask, and RP address
`<A.B.C.D>/<0-32> <A.B.C.D>`	Group address/mask and RP address
`enable`	Enable static-rp

ip pim virtual-neighbor

Configure global PIM settings

Syntax

- `ip pim virtual-neighbor <A.B.C.D> <A.B.C.D>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<A.B.C.D> <A.B.C.D>	Specify interface address and virtual neighbor address

ip pim (VLAN Interface Configuration)

Configure PIM settings per VLAN

Syntax

- `ip pim {[bsr-candidate priority <0-255>][enable][interface-type <active|passive>][join-prune-interval <1-18724>][query-interval <0-18724>]}`
- `default ip pim [bsr-candidate][enable][interface-type][join-prune-interval][query-interval]`
- `no ip pim [bsr-candidate][enable]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`bsr-candidate priority <0-255>`	Enable PIM bsr-candidate and set preference on a VLAN
`enable`	Enable PIM on a VLAN
`interface-type <active | passive>`	Set PIM interface type on a VLAN
`join-prune-interval <1-18724>`	Set PIM join-prune interval on a VLAN
`query-interval <0-18724>`	Set PIM query interval on a VLAN

ip prefix-list

Add/modify a prefix from an IP prefix list

Syntax

- `ip prefix-list <WORD> { {A.B.C.D/<0-32> {ge <0-32> le <0-32>} | {le <0-32> ge <0-32>}} | {name <WORD>} }`
- `no ip prefix-list <WORD> <A.B.C.D>/<0-32>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<WORD>	Ip prefix list name
A.B.C.D/<0-32>	IP prefix and mask bits
ge <0-32>	Starting point within the mask length, greater than or equal to
le <0-32>	Ending point within the mask length, less than or equal to
name <WORD>	Rename the ip prefix list

ip rip (Ethernet Interface Configuration)

Configure RIP parameters on an interface.

Syntax

- `[default] [no] ip rip [port <LINE>] [advertise-when-down enable] [auto-aggregation enable] [cost <cost>] [default-listen enable] [default-supply enable] [enable] [holddown <holddown> | <global>] [listen enable] [poison enable] [proxy-announce enable] [receive version {rip1 | rip1orrip2 | rip 2}] [send version { notsend |rip1 | rip1comp | rip 2}] [supply enable] [timeout {<timeout> | global}] [triggered enable]`
- `[default] [no] ip rip in-policy <rmap_name>`
- `[default] [no] ip rip out-policy <rmap_name>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`advertise-when-down enable`	Enables RIP advertisements for an interface even when the link to the network fails. The router continues to advertise the subnet even if that particular network is no longer connected (no link in the enabled VLAN). This feature does not advertise the route until the VLAN is first enabled. After the VLAN is enabled, the route is advertised even when the link fails. By default, advertise when down functionality is disabled.
`auto-aggregation enable`	Enables auto aggregation on the RIP interface. After you enable auto aggregation, the Ethernet Routing Switch automatically aggregates routes to their natural net mask when they are advertised on an interface in a network of a different class. Automatic route aggregation can be enabled only in RIP2 mode or RIP1 compatibility mode. By default, auto aggregation is disabled.
`cost <cost>`	Specifies the RIP cost (metric) for this interface in a range from 1 to 15. The default cost is 1.
`default-listen enable`	Enables the interface to accept default routes learned through RIP updates. The default setting is disabled.
`default-supply enable`	Enables the interface to send default route information in RIP updates. This setting takes effect only if a default route exists in the routing table. The default setting is disabled
`enable`	Enables RIP on the interface.

holddown {<holddown> | <global>}	Specifies the interface holddown timer, which is the length of time (in seconds) that RIP maintains a route in the garbage list after determining that it is unreachable. <holddown> — overrides the global parameter and does not change if the global parameter is modified. Range is 0–360 seconds; <global> — default global holddown parameter (120 seconds).
in-policy <WORD>	Add in-policy on this interface.
listen enable	Enables this interface to listen for RIP advertisements. The default value is enabled.
out-policy <WORD>	Add out-policy on this interface.
poison enable	Specifies whether RIP routes on the interface learned from a neighbor are advertised back to the neighbor. If poison reverse is disabled, split horizon is invoked and IP routes learned from an immediate neighbor are not advertised back to the neighbor. If poison reverse is enabled, the RIP updates sent to a neighbor from which a route is learned are "poisoned" with a metric of 16. The receiving neighbor ignores this route because the metric 16 indicates infinite hops in the network. By default, poison reverse is disabled.
port <LINE>	Select ports.
proxy-announce enable	Enables proxy announcements on a RIP interface. When proxy announcements are enabled, the source of a route and its next hop are treated as the same when processing received updates. So, instead of the advertising router being used as the source, the next hop is. Proxy announcements are disabled by default.
receive version {rip1 | rip1orrip2 | rip 2}	Specifies the RIP version received on this interface. Default is rip1orrip2.
send version {notsend |rip1 |rip1comp |rip 2}	Specifies the RIP version sent on an interface. Default is rip1compatible
supply enable	Enables RIP route advertisements on this interface. The default value is enabled.
timeout <timeout> | <global>	Specifies the RIP timeout value on this interface. If a RIP interface does not receive an update from another RIP router within the configured timeout period, it moves the routes advertised by the nonupdating router to the garbage list. The timeout interval must be greater than the update timer. <timeout> — sets the interface timeout. Value ranges from 15 to 259200 seconds. <global> — sets the timeout to the global default (180 seconds). The interface timer setting overrides the global parameter and does not change if the global parameter is changed.
triggered enable	Enables automatic triggered updates on this RIP interface. Default is disabled.

ip rip (VLAN Interface Configuration)

Configures RIP settings.

Syntax

- `[default] [no] ip rip [port <LINE>] [advertise-when-down enable] [auto-aggregation enable [domain <WORD>]] [cost <cost>] [default-listen enable] [default-supply enable] [enable] [holddown <holddown> | <global>] [listen enable] [poison enable] [proxy-announce enable] [receive version {rip1 | rip1orrip2 | rip 2}] [send version { notsend |rip1 | rip1comp | rip 2}] [supply enable] [timeout {<timeout> | global}] [triggered enable]`
- `[default] [no] ip rip in-policy <rmap_name>`
- `[default] [no] ip rip out-policy <rmap_name>`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`advertise-when-down enable`	Enables RIP advertisements for an interface even when the link to the network fails. The router continues to advertise the subnet even if that particular network is no longer connected (no link in the enabled VLAN). This feature does not advertise the route until the VLAN is first enabled. After the VLAN is enabled, the route is advertised even when the link fails. By default, advertise when down functionality is disabled.
`auto-aggregation enable`	Enables auto aggregation on the RIP interface. After you enable auto aggregation, the Ethernet Routing Switch automatically aggregates routes to their natural net mask when they are advertised on an interface in a network of a different class. Automatic route aggregation can be enabled only in RIP2 mode or RIP1 compatibility mode. By default, auto aggregation is disabled.
`cost <cost>`	Specifies the RIP cost (metric) for this interface in a range from 1 to 15. The default cost is 1.
`default-listen enable`	Enables the interface to accept default routes learned through RIP updates. The default setting is disabled.
`default-supply enable`	Enables the interface to send default route information in RIP updates. This setting takes effect only if a default route exists in the routing table. The default setting is disabled.
`enable`	Enables RIP on the interface.

holddown {<holddown> | <global>}	Specifies the interface holddown timer, which is the length of time (in seconds) that RIP maintains a route in the garbage list after determining that it is unreachable. <holddown> — overrides the global parameter and does not change if the global parameter is modified. Range is 0–360 seconds. <global> — default global holddown parameter (120 seconds).
in-policy <WORD>	Add in-policy on this interface.
listen enable	Enables this interface to listen for RIP advertisements. The default value is enabled.
out-policy <WORD>	Add out-policy on this interface.
poison enable	Specifies whether RIP routes on the interface learned from a neighbor are advertised back to the neighbor. If poison reverse is disabled, split horizon is invoked and IP routes learned from an immediate neighbor are not advertised back to the neighbor. If poison reverse is enabled, the RIP updates sent to a neighbor from which a route is learned are "poisoned" with a metric of 16. The receiving neighbor ignores this route because the metric 16 indicates infinite hops in the network. By default, poison reverse is disabled.
port <LINE>	Select ports.
proxy-announce enable	Enables proxy announcements on a RIP interface. When proxy announcements are enabled, the source of a route and its next hop are treated as the same when processing received updates. So, instead of the advertising router being used as the source, the next hop is. Proxy announcements are disabled by default.
receive version {rip1 | rip1orrip2 | rip 2}	Specifies the RIP version received on this interface. Default is rip1orrip2.
send version {notsend |rip1 |rip1comp |rip 2}	Specifies the RIP version sent on an interface. Default is rip1compatible
supply enable	Enables RIP route advertisements on this interface. The default value is enabled.
timeout <timeout> | <global>	Specifies the RIP timeout value on this interface. If a RIP interface does not receive an update from another RIP router within the configured timeout period, it moves the routes advertised by the nonupdating router to the garbage list. The timeout interval must be greater than the update timer. <timeout> — sets the interface timeout. Value ranges from 15 to 259200 seconds. <global> — sets the timeout to the global default (180 seconds). The interface timer setting overrides the global parameter and does not change if the global parameter is changed.
triggered enable	Enables automatic triggered updates on this RIP interface. Default is disabled.

ip route

Create a static IP route

Syntax

- `ip route <destination-ip> <destination-subnet-mask> <next-hop-ip> { <1-65535> | disable | enable | weight <1-65535> }`
- `no ip route <destination-ip> <destination-subnet-mask> <next-hop-ip>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-65535>	cost
<destination-ip>	destination IP <A.B.C.D>
<destination-subnet-mask>	destination subnet mask <A.B.C.D>
<next-hop-ip>	next hop IP <A.B.C.D>
disable	disable a route
enable	enable a route
weight	change cost of existing route

ip routing (Global configuration mode)

Enable global routing

Syntax

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
force	Do not ask for confirmation

ip routing (VLAN Interface Configuration)

Enables L3 routing on a VLAN.

Syntax

- `ip routing [force]`
- `no ip routing`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
force	Do not ask for confirmation.

ip static-mroute

Configure static multicast route

Syntax

- `ip static-mroute <A.B.C.D/<0-32> rpf <A.B.C.D> [preference <1-255>][enable]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<A.B.C.D/<0-32>` `rpf <A.B.C.D>`	Specify IP address/mask of the destination network and IP address of the Reverse Path Forwarding neighbor towards RP/Source
`preference <1-255>`	Specify administrative distance value of the static multicast route
`enable`	Enable static multicast route

ipv6

Set global IPv6 configuration subcommands

Syntax

- `ipv6 [enable] [forwarding][hop-limit <0-255>][icmp] {[block-multicast-replies] [icmp] [error-interval <0-2147483647>] [icmp] [error-quota <0-2000000>] [icmp] [unreach-msg]}`
- `no ipv6 [enable] [forwarding][icmp] {[block-multicast-replies] [icmp] [unreach-msg]}`
- `default ipv6 [enable] [forwarding][hop-limit][icmp] {[block-multicast-replies] [icmp] [error-interval] [icmp] [error-quota] [icmp] [unreach-msg]}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`block-multicast-replies`	Enable IPv6 ICMP block-multicast-replies
`enable`	Enable IPv6 global admin status
`error-interval<0-2147483647>`	Set IPv6 ICMP error-interval
`error-quota<0-2000000>`	Set IPv6 ICMP error-quota
`forwarding`	Enable global IPv5 forwarding
`hop-limit <0-255>`	Enable global IPv5 forwarding
`icmp`	Set IPv6 ICMP parameters
`unreach-msg`	Enable IPv6 ICMP unreach-msg

ipv6 address

Set default IPv6 address

Syntax

- `ipv6 address {[stack <WORD>] [switch <WORD>] [unit <1-8> <WORD>] [<WORD>]}`
- `no ipv6 address [stack] [switch] [unit <1-8>]`
- `default ipv6 address [stack] [switch] [unit <1-8>]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<WORD>	IPv6 address /prefix length
stack	The address of the stack
switch	Set the IP address of local unit
unit <1-8>	Set the IP address of another unit in a stack

ipv6 default-gateway

Configure IPv6 default gateway

Syntax

- `ipv6 default-gateway <WORD>`
- `no ipv6 default-gateway`
- `default ipv6 default-gateway`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<WORD>	IPv6 address

ipv6 dhcp-relay

Global dhcp guard subcommands

Syntax

- `ipv6 dhcp-relay fwd-path <agent-ip> <server-ip> [{disable | enable | mode <bootp | bootp-dhcp | dhcp >}]`
- `ipv6 dhcp-relay max-frame <576-1536>`
- `ipv6 dhcp-relay option82`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`fwd-path <agent-ip> <server-ip>`	Create a fwd-path
`disable`	Disable forwarder path
`enable`	Enable forwarder path
`max-frame <576-1536>`	Set the maximum length for which option82 is added to DHCP packets for relay
`mode <bootp | bootp-dhcp | dhcp>`	set DHCP mode supported by this forwarder path
`option82`	Enable option 82 for DHCP Relay

ipv6 dhcp-relay (VLAN Interface Configuration)

Configure IPv6 dhcp-relay on a VLAN.

Syntax

- `ipv6 dhcp-relay [fwd-path <WORD> [enable]][max-hop <1-32>][remote-id]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`fwd-path <server-ip> [enable]`	Create a forward path and enable forward path on VLAN
`max-hop <1-32?`	Set max hop count
`remote-id`	Enable remote-id

ipv6 interface

Creates and configure vlan IPv6 interface.

Syntax

- `[default] ipv6 interface link-local <link-local>`
- `[no] ipv6 interface address <ipv6 address>`
- `[default] ipv6 interface [mtu <bytes>] [name <name>] [reachable-time <ms>] [retransmit-timer <ms>]`
- `[no] [default] ipv6 interface enable`
- `{no | default} ipv6 interface all`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
address <ipv6 address>	Configures the IPv6 address and prefix length. The default value is none.
link-local <link-local>	Configures the link local identifier. The default value is none.
mtu <bytes>	Configures the maximum transmission unit for the interface. The default value is 1500.
name <name>	Configures a description for the interface. This variable does not support the default parameter.
reachable-time <ms>	Configures the time, in milliseconds, that a neighbor is considered reachable after receiving a reachability confirmation. Range is 0-3600000. The default value is 30000.
retransmit-timer <ms>	Configures the time, in milliseconds, between retransmissions of Neighbor Solicitation messages to a neighbor when resolving the address or when probing the reachability of a neighbor. Range is 0-3600000. The default value is 1000.

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ipv6 mgmt

Confiugre IPv6 management port

Syntax

- `ipv6 mgmt address {[<ipv6-addr/prefix_len>] [stack <ipv6-addr/prefix_len> ][ switch <ipv6-addr/prefix_len> ] [unit <1-8> <ipv6-addr/prefix_len>]}`
- `default ipv6 mgmt address {[stack][ switch] [unit <1-8>]}`
- `no ipv6 mgmt address {[stack][ switch] [unit <1-8>]}`
- `ipv6 mgmt default-gateway <ipv6-addr>`
- `default ipv6 mgmt default-gateway`
- `no ipv6 mgmt default-gateway`
- `ipv6 mgmt interface`
- `default ipv6 mgmt interface`
- `no ipv6 mgmt interface`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`address <ipv6-addr/prefix_len>`	IPv6 address/prefix length
`address stack <ipv6-addr/prefix_len>`	Set the management address of the stack
`address switch <ipv6-addr/prefix_len>`	Set the management address of the switch
`address unit <1-8> <ipv6-addr/prefix_len>`	Set the management address of a unit in the stack
`default-gateway <ipv6-addr>`	Configure IPv6 management default gateway
`interface`	Set the management interface

ipv6 mld

Confiugre global MLD settings

Syntax

- `ipv6 mld flush vlan <1-4094> {grp-member | mrouter}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`flush vlan <1-4094> {grp-member | mrouter}`	Flush MLD Mrouter, rou pmember, or sender on VLAN interface

ipv6 mld (VLAN Interface Configuration)

Configure per-VLAN MLD setttings.

Syntax

- `ipv6 mld [last-memb-query-int <0-255>][mrouter <LINE>][query-interval <1-65535>][query-max-response-time <0-255>][robust-value <2-255>][snooping [enable]]`
- `default ipv6 mld [last-memb-query-int][mrouter][query-interval][query-max-response-time][robustval][snooping]`
- `no ipv6 mld [mrouter <LINE>][snooping [enable]]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`last-memb-query-int <0-255>`	Configure last member query interval.
`mrouter <LINE>`	Configure multicast forwarding port(s).
`query-interval <1-65535>`	Configure query interval time.
`query-max-response-time <0-255>`	Configure maximum response time in query message in seconds.
`robust-value <2-255>`	Configure robustness variable.
`snooping [enable]`	Enable MLD snooping.

ipv6 nd prefix

Configure neighbor discovery prefix parameters

Syntax

- `ipv6 nd prefix <WORD> {[infinite] | [no-advertise] | [preferred-life <0-3600000>] | [valid-life <0-3600000>]`
- `default ipv6 nd prefix <WORD> { [no-advertise] | [preferred-life <0-3600000>] | [valid-life <0-3600000>]`
- `no ipv6 nd prefix <WORD> no-advertise`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<WORD>	IPv6 address and prefix length
infinite	If configured, the prefix does not expire. Default value is false.
no-advertise	Removes entry from neighbor advertisement.
preferred-life <0-3600000>	Configures the number of seconds that the prefix can accept and use new connections. Default is 604800.
valid-life <0-3600000>	Specifies the number of seconds that the prefix advertised in the neighbor advertisement is valid. During the valid lifetime, existing connects can be used, new connections cannot be opened. Default is 2592000.

ipv6 nd prefix-interface

Configure neighbor discovery prefixes on a VLAN.

Syntax

- `ipv6 nd prefix-interface <WORD> [eui <1-3> ] [no-advertise] | [no-autoconfig] | [no-onlink]`
- `default ipv6 nd prefix-interface <WORD> [no-advertise]`
- `no ipv6 nd prefix-interface <WORD>`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<WORD>	IPv6 address and prefix length
eui 1	Specifies the Extended Unique Identifier (EUI) is not used. Default value.
eui 2	Specifies EUI with U/L (Universal/Local bit) complement is enabled.
eui 3	Specifies EUI is used without U/L.
no-advertise	Disables IPv6 nd prefix-interface advertise.
no-autoconfig	Disables IPv6 nd prefix-interface autoconfig.
no-onlink	Disables IPv6 nd prefix-interface onlink.

ipv6 nd (VLAN Interface Configuration)

Configure neighbor discovery parameters on a VLAN.

Syntax

- `ipv6 nd [dad-ns <0-600>][hop-limit <1-255>][managed-config-flag][other-config-flag][ra-lifetime <0-9000>][rtr-advert-max-interval <4-1000>][rtr-advert-min-interval <3-1350>][send-ra]`
- `default ipv6 nd [dad-ns][hop-limit][managed-config-flag][other-config-flag][ra-lifetime][rtr-advert-max-interval ][rtr-advert-min-interval][send-ra]`
- `no ipv6 nd [managed-config-flag][other-config-flag][send-ra]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`dad-ns <0-600>`	Configure the number of neighbor solicitation packets sent during duplicate address detection.
`hop-limit <1-255>`	Configure number of hops before packets are dropped.
`managed-config-flag`	Enables M-bit (managed address configuration) on the router. Use the no operator to remove this option. Default is false.
`other-config-flag`	Enables the O-bit (other stateful configuration) in the router advertisement (autoconfigures received information without addresses). Use the no operator to remove this option. Default is false.
`ra-lifetime <0-9000>`	Configures the router lifetime included in router advertisement. Other devices use this information to determine if they can reach the router. Default is 1800.
`rtr-advert-max-interval <4-1000>`	Configures the maximum time allowed between sending unsolicited multicast router advertisements. Default is 600.
`rtr-advert-min-interval <3-1350>`	Configures the minimum time allowed (in seconds) between sending unsolicited multicast router advertisements from the interface. Default is 200.
`send-ra`	Enables or disables periodic router advertisement messages. Use the no operator to remove this option. Default is true.

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ipv6 neighbor

Configure neighbor cache

Syntax

- `ipv6 neighbor <WORD> port <WORD> mac <H.H.H> vlan <1-4094>`
- `no ipv6 neighbor <WORD>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<WORD>	IPv6 address, 45 length
mac <H.H.H>	MAC address of IPv6 neighbor entry (H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
port <WORD>	unit/ port
vlan <1-4094>	VLAN ID

ipv6 route

Create a static route and set parameters

Syntax

- `ipv6 route <WORD> {[cost <1-65535>][mgmt [enable]][next-hop <WORD>][preference <1-255>][tunnel <1-2147483647>][vlan <1-4094>]}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<WORD>	IPv6 route 49 length
cost <1-65535>	IPv6 route cost
mgmt [enable]	Out of band management
next-hop <WORD>	IPv6 route next-hop, 49 length
preference <1-255>	IPv6 route preference
tunnel <1-2147483647>	IPv6 route tunnel
vlan <1-4094>	IPv6 route VLAN

ipv6 tunnel

IPv6 Tunnel configuration commands

Syntax

- `ipv6 tunnel <1-2147483647> {[hop-limit <0-255>] [source <A.B.C.D> <ipv6-addr/prefix-len> <WORD> destination <A.B.C.D>]}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<1-2147483647>`	Tunnel ID
`hop-limit <0-255>`	Specify number of hops in the tunnel
`source <A.B.C.D> <ipv6-addr/prefix-len> <WORD> destination <A.B.C.D>`	Specify IP address for source and destination of IPv6 tunnel

ip verify source

Enable IP Source Guard to add a higher level of security to the desired port by preventing IP spoofing.

Syntax

- `ip verify source [interface Ethernet <WORD>]`
- `no ip verify source [interface Ethernet [<WORD>]]`
- `default ip verify source [interface Ethernet [<WORD>]]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<WORD>	Port list.
`interface Ethernet`	Select Ethernet interfaces.

ip vrf

Configure VRF

Syntax

- `ip vrf <vrf_Name> [max-routes <0-4000>][name <WORD>][vrfid <1-3>]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<WORD>	VRF name
max-routes <0-4000>	Specify VRF max-routes
name <WORD>	Renames the existing VRF name
vrfid <1-3>	Specify the VRF ID

ip vrrp

Changes VR settings or associate addresses.

Syntax

- `[default] ip vrrp <1-255> action {none | preempt}`
- `ip vrrp <1-255> adver-int <1-255l>`
- `[default][no] ip vrrp <1-255> backup-master enable`
- `[default] [no] ip vrrp <1-255> critical-ip enable`
- `ip vrrp <1-255> critical-ip-add <A.B.C.D>`
- `[default] [no] ip vrrp <1-255> enable`
- `[default] [no] ip vrrp <1-255> fast-adv enable`
- `ip vrrp <1-255> fast-adv-int <200-1000>`
- `default ip vrrp <1-255> fast-adv-int`
- `ip vrrp <1-255> holddown-timer <0-21600>`
- `default ip vrrp <1-255> holddown-timer`
- `ip vrrp <1-255> priority <1-255>`
- `default ip vrrp <1-255> priority`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
`<1-255>`	Specify the virtual router ID to configure.
`adver-int <1-255>`	Specifes the advertisement interval in seconds.
`action {none | preempt}`	Specify the holddown action. Enter none for no action, Enter preempt to cancel the holddown timer.
`badkup-master enable`	Enable the backup master functionality.

`critical-ip enable`	Configure the status of the VRRP critical IP functionality.
`critical-ip-addr <A.B.C.D>`	Set the critical IP address on the router.
`enable`	Enable the VR.
`fast-adv enable`	Enable the VRRP fast advertisement functionality.
`fast-adv-int <200-1000>`	Specify the fast advertisement interval in milliseconds. Value between 200 and 1000.
`holddown-timer <0-21600>`	Specify the holddown timer value. Value in seconds between 1 and 21600.
`priority <1-255>`	Enable the VR.

ip vrrp address

Associate an address with a VR or change associated address

Syntax

- `[no] ip vrrp address <vr_id> <ip_address>`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<1-255>	Specify the virtual router to configure. Value between 1 and 255.
no	Removes the IP address from the virtual router ID.

jumbo-frames

Enable jumbo frames on switch/stack

Syntax

- `jumbo-frames [enable]`
- `no jumbo-frames [enable]`
- `default jumbo-frames [enable]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
enable	Enable jumbo frames on switch/stack

lacp aggregation

Enables the port aggregation mode.

Syntax

- `lacp aggregation [port <portList>] enable`
- `no lacp aggregation [port <portList>] enable`
- `default lacp aggregation`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`enable`	Enable port aggregation mode.
`port <portList>`	Specify port list.

lacp clear-stats

Clear LACP statistics.

Syntax

- `lacp clear-stats [port <WORD>]`

Default

none

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`port <WORD>`	Specify port list .

lacp key

Configure LACP key to MLT mappings

Syntax

- `lacp key <1-4095> mlt-id <1-32> [smlt-id <1-512>]`
- `default lacp key <1-4095>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<1-4095>`	LACP key value
`mlt-id <1-32>`	Configure MLT ID for this LACP key
`smlt-id <1-512>`	Configure SMLT ID for the specified LACP key

lacp key (Ethernet Interface Configuration)

Configure the administrative LACP key for a set of ports.

Syntax

- `lacp key [port <portList>] <1-4095>`
- `default lacp key [port <portList>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-4095>	The LACP key to use.
<portList>	The ports to configure the LACP key for.

lacp mode

Configure the LACP mode of operations for a set of ports.

Syntax

- `lacp mode [port <portList>] {active | passive | off}`
- `default lacp mode [port <portList>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<portList>	The ports for which the LACP mode is to be set.
active	The port will participate as an active Link Aggregation port. Ports in active mode send LACPDUs periodically to the other end to negotiate for link aggregation.
off	The port does not participate in Link Aggregation
passive	The port will participate as a passive Link Aggregation port. Ports in passive mode send LACPDUs only when the configuration is changed or when its link partner communicates first.

lacp port-mode

Set LACP port-mode

Syntax

- `lacp port-mode { advance | default }`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
advance	Configure LACP ports to behave in advance mode
default	Configure LACP ports to behave in default mode

lacp priority

Configure the per-port LACP priority for a set of ports.

Syntax

- `lacp priority [port <portList>] <0-65535>`
- `default lacp priority [port <portList>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`<0-65535>`	The priority value to assign.
`port <portList>`	The ports for which to configure LACP priority.

lacp smlt-sys-id

Configure SMLT system ID for LACP

Syntax

- `lacp smlt-sys-id <H.H.H>`
- `default lacp smlt-sys-id`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<H.H.H>	SMLT system ID

lacp system-priority

Set LACP system priority

Syntax

- `lacp system-priority <0-65535>`
- `default lacp system-priority`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<0-65535>	Priority

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lacp timeout-time

Configure the LACP periodic transmission timeout interval for a set of ports.

Syntax

- `lacp timeout-time [port <portList>] {long | short}`
- `default lacp timeout-time [port <portList>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`{long | short}`	Specify the long or short timeout interval.
`port <portList>`	The ports for which to configure the timeout interval.

link-state

Configure link state tracking group

Syntax

- `link-state group <1-2> {[downstream interface] [enable] [upstream interface] [Ethernet <LINE>] [mlt <1-32>]}`
- `no link-state group <1-2> {[downstream interface] [enable] [upstream interface] [Ethernet <LINE>] [mlt <1-32>]}`
- `default link-state group <1-2> [downstream] [upstream]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`downstream interface`	Add a specific interface to group downstream
`enable`	Enable group
`Ethernet <LINE>`	Add list of ports
`group <1-2>`	Tracking group ID
`mlt <1-32>`	Add trunk number
`upstream interface`	Add a specific interface to group upstream

lldp

Configure 802.1ab settings

Syntax

- `lldp [tx-interval <5-32768>] [tx-hold-multiplier <2-10>] [tx-delay <1-8192>] [reinit-delay <1-10>] [notification-interval <5-3600>][med-fast-start <1-10>] [vendor-specific avaya] {[call-server] {[<1-8> A.B.C.D] [<1-8> A.B.C.D] [<1-8> A.B.C.D] [<1-8> A.B.C.D] [<1-8> A.B.C.D] [<1-8> A.B.C.D] [<1-8> A.B.C.D] [<1-8> A.B.C.D]} [file-server] {[<1-4> A.B.C.D] [<1-4> A.B.C.D] [<1-4> A.B.C.D] [<1-4> A.B.C.D]}}`
- `default lldp [tx-interval] [tx-hold-multiplier] [tx-delay] [reinit-delay] [notification-interval][med-fast-start] [vendor-specific avaya] {[call-server] {[<1-8>] [<1-8>] [<1-8>] [<1-8>] [<1-8>] [<1-8>] [<1-8>] [<1-8>]} [file-server] {[<1-4>] [<1-4>] [<1-4>] [<1-4>]}}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`call-server <1-8> | {A.B.C.D}`	Configure call server address number or IP address
`file-server <1-4> | {A.B.C.D}`	Configure file server address number or IP address
`med-fast-start <1-10>`	Set MED Fast Start repeat count value
`notification-interval <5-3600>`	Set notification interval value
`reinit-delay <1-10>`	Set reinitialize delay value
`tx-delay <1-8192>`	Set transmission delay value
`tx-hold-multiplier <2-10>`	Set transmission multiplier value
`tx-interval <5-32768>`	Set retransmission interval value
`vendor-specific avaya`	Configure 802.1ab Avaya vendor specific settings

lldp (Ethernet Interface Configuration)

Sets the LLDP port parameters

Syntax

- `lldp port <portlist> [status {rxOnly | txAndRx | txOnly}] [config-notification]`
- `default lldp port <portlist> [status] [config-notification]`
- `no lldp port <portlist> [status] [config-notification]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`config notification`	Enable notification when new neighbor information is stored or when existing information is removed. The default value is enabled.
`port <portlist>`	Specify the ports affected by the command.
`status {rxOnly | txAndRx | txOnly}`	Set the LLDPU transmit and receive status on the ports. rxonly: enables LLDPU receive only. txAndRx: enables LLDPU transmit and receive. For LLDP support for PoE+, transmission and reception must be enabled. txOnly: enables LLDPU transmit only

lldp location-identification (Ethernet Interface Configuration)

Location Configuration Information (LCI)

Syntax

- `[no[[default] lldp location-identification civic-address country-code WORD { [additional-code WORD][additional-information WORD] [apartment WORD] [block WORD] [building WORD][city WORD] [city-district WORD] [county WORD] [floor WORD] [house-number WORD] [house-number-suffix WORD][landmark WORD] [leading-street-direction WORD] [name WORD] [p.o.box WORD] [place-type WORD] [postal-community-name WORD] [postal/zip-code WORD] [room-number WORD] [state WORD] [street WORD] [street-suffix WORD] [trailing-street-suffix WORD]}`
- `lldp location-identification coordinate-base {[latitude <LINE> {NORTH | SOUTH }] [longitude <LINE> {EAST|WEST}] [altitude <LINE> {[floors][meters ]}]}`
- `lldp location-identification ecs-elin <LINE ELIN>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`additional-code WORD`	Additional code
`additional-information WORD`	Additional location information
`altitude LINE`	Altitude
`apartment WORD`	Unit (apartment, suite)
`block WORD`	Neighborhood, block
`building WORD`	Building (structure)
`city WORD`	City, township, shi (JP)
`city-district WORD`	City division, city district, ward
`country-code <WORD>`	Country code
`county WORD`	County, parish, gun (JP), district(IN)
`datum`	Reference datum
`floor WORD`	Floor
`house-number WORD`	House number
`house-number-suffix WORD`	House number suffix

`landmark WORD`	Landmark or vanity address
`latitude LINE`	Latitude
`leading-street-direction WORD`	Leading street direction
`longitude LINE`	Longitude
`name WORD`	Residence and office occupant
`p.o.box WORD`	Post office box
`place-type WORD`	Office
`postal/zip-code WORD`	Postal/Zip code
`postal-community-name WORD`	Postal community name
`room-number WORD`	Room number
`state WORD`	National subdivisions: (state, canton, region)
`street WORD`	Street
`street-suffix WORD`	Street suffix
`trailing-street-suffix WORD`	Trailing street suffix

lldp med-network-policies

Configures LLDP Media Endpoint Devices (MED) policies for switch ports

Syntax

- `lldp med-network-policies [port <portList>] {voice|voice-signaling} [dscp <0-63>] [priority <0-7>] [tagging {tagged|untagged}] [vlan-id <0-4094>]`
- `default lldp med-network-policies {voice|voice-signaling} [port <portList>]`
- `no lldp med-network-policies [port <portList>] {voice|voice signaling}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`dscp <0-63>`	Specifies the value of the Differentiated Service Code Point (DSCP) as defined in IETF RFC 2474 and RFC 2475 that is associated with the selected switch port or ports. Values range from 0–63. The default value is 46.
`port <portlist>`	Specifies the port or ports on which to configure LLDP MED policies.
`priority <0-7>`	Specifies the value of the 802.1p priority that applies to the selected switch port or ports. Values range from 0–7. The default value is 6
`tagging {tagged | untagged}`	Specifies the type of VLAN tagging to apply on the selected switch port or ports. tagged—uses a tagged VLAN. untagged—uses an untagged VLAN or does not support port-based VLANs. If you select untagged, the system ignores the VLAN ID and priority values, and recognizes only the DSCP value.
`vlan-id <0-4094>`	Specifies the VLAN identifier for the selected port or ports. Values range from 0–4094 (0 is for priority tagged frames). If you select priority tagged frames, the system recognizes only the 802.1p priority level and uses a value of 0 for the VLAN ID of the ingress port.
`voice`	Specifies voice network policy. The default value is 46.
`voice-signaling`	Specifies voice signalling network policy

lldp tx-tlv

Sets the optional Management TLVs to be included in the transmitted LLDPDUs

Syntax

- `lldp tx-tlv [port <portlist>] local-mgmt-addr [port-desc] [sys-cap] [sys-desc][sys-name]`
- `default lldp tx-tlv port <portlist> local-mgmt-addr port-desc sys-cap sys-desc sys-name`
- `no lldp tx-tlv port <portlist> local-mgmt-addr port-desc sys-cap sys desc sys-name`
- `lldp tx-tlv vendor-specific avaya {[call-server] [dot1q-framing][file-server][poe-conservation]}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`local-mgmt-addr`	The local management address TLV. This TLV is enabled by default.
`port <portlist>`	Specifies a port or list of ports.
`port-desc`	The port description TLV This TLV is enabled by default. This TLV is enabled by default.
`sys-cap`	The system capabilities TLV
`sys-desc`	The system description TLV. This TLV is enabled by default.
`sys-name`	The system name TLV. This TLV is enabled by default.

lldp tx-tlv dot1

Sets the optional IEEE 802.1 organizationally-specific TLVs to be included in the transmitted LLDPDUs

Syntax

- `lldp tx-tlv [port <portlist>] dot1 [port-protocol-vlan-id <vlanlist>] [port-vlan-id ] [protocol-identity < [EAP] [LLDP] [STP]>] [vlan-name <vlanlist>]`
- `default lldp tx-tlv port <portlist> dot1 [port-protocol-vlan-id] [port-vlan-id] [protocol-identity [EAP] [LLDP] [STP]] [vlan-name]`
- `no lldp tx-tlv [port <portlist>] dot1 [port-vlan-id] [vlan-name] [port-protocol-vlan-id] [protocol-identity [EAP] [LLDP] [STP] ]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`port <portlist>`	The ports affected by the command
`port-protocol-vlan-id <vlanlist>`	The port and protocol VLAN ID TLV
`port-vlan-id`	The port VLAN ID TLV.
`protocol-identity {[EAP] [LLDP] [STP]}`	Protocol Identity TLV
`vlan-name <vlanlist>`	The VLAN name TLV

lldp tx-tlv dot3

Sets the optional IEEE 802.3 organizationally-specifc TLVs to be included in the transmitted LLDPDUs

Syntax

- `lldp tx-tlv [port <portlist>] dot3 [link-aggregation] [mac-phy-config-status] [maximum-frame-size][mdi-power-support]`
- `default lldp tx-tlv port <portlist> dot3 link-aggregation mac-phy config-status maximum-frame-size mdi-power-support`
- `no lldp tx-tlv port <portlist> dot3 link-aggregation mac-phy-config status maximum-frame-size mdi-power-support`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`link-aggregation`	The link aggregation TLV
`mac-phy-config-status`	The MAC/Phy configuration or status TLV
`maximum-frame-size`	Maximum Frame Size TLV
`mdi-power-support`	Power via MDI TLV is sent only on ports where transmission is enabled. The power via MDI TLV, transmission of this TLV is enabled by default on all POE ports. The transmission can be enabled only on PoE ports
`port <portlist>`	The ports affected by the command

lldp tx-tlv med

Sets the optional organizationally specific TLVs for use by MED devices to be included in the transmitted LLDPDUs

Syntax

- `lldp tx-tlv [port <portlist>] med [extendedPSE] [inventory] [location] [med-capabilities] [network-policy]`
- `default lldp tx-tlv port <portlist> med extendedPSE inventory location med-capabilities network-policy`
- `no lldp tx-tlv port <portlist> med extendedPSE inventory location med-capabilities network-policy`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`extendedPSE`	Extended PSE TLV, the transmission of this TLV is enabled by default only on POE port switches.
`inventory`	Inventory TLVs This TLV is enabled by default.
`location`	Location Identification TLV This TLV is enabled by default
`med-capabilities`	MED Capabilities TLV (MED TLVs are transmitted only if MED Capabilities TLVs are transmitted). This TLV is enabled by default.
`network-policy`	Network Policy TLV This TLV is enabled by default.
`port <portlist>`	specifies the ports affected by the command

lldp tx-tlv vendor-specific avaya (Ethernet Interface Configuration)

Vendor-specific TLVs

Syntax

- `lldp tx-tlv [port <portList>] vendor-specific avaya {[call-server] [dot1q-framing] [file-server] [poe-conservation]}`
- `default lldp tx-tlv [port <portList>] vendor-specific avaya {[call-server] [dot1q-framing] [file-server] [poe-conservation]}`
- `no lldp tx-tlv [port <portList>] vendor-specific avaya {[call-server] [dot1q-framing] [file-server] [poe-conservation]}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`<portList>`	Specifies a port or list of ports.
`<portList>`	Specifies a port or list of ports.
`call-server`	Enables the call server TLV transmit flag
`dot1q-framing`	Enables the Layer 2 priority tagging TLV transmit flag.
`file-server`	Enables the file server TLV transmit flag.
`poe-conservation`	Enables the PoE conservation request TLV transmit flag.

lldp vendor-specific avaya (Ethernet Interface Configuration)

Configure 802.1ab vendor-specific settings

Syntax

- `lldp [port <portList>] vendor-specific avaya poe-conservation-request-level <0-255>`
- `default lldp port <portList> vendor-specific avaya poe-conservation-request-level`
- `lldp [port <portList>] vendor-specific avaya dot1q-framing {auto | non-tagged | tagged}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`dot1q-framing {auto | non-tagged | tagged }`	Enables the Layer 2 priority tagging TLV transmit flag.
`poe-conservation-request-level <0-255>`	Specifies the power conservation level to request for a vendor specific PD. Values range from 0 to 255. With the default value of 0, the switch does not request a power conservation level for an Avaya IP phone connected to the port.

logging

Change system event log settings

Syntax

- `logging [disable] [enable] [level] {[critical] [informational] [none] [serious]} [nv-level] {[critical] [none] [serious]} [remote] {[address] {[A.B.C.D] [WORD]} [enable] [facility] {[daemon] [local0] [local1] [local2] [local3] [local4] [local5] [local6] [local7]} [level] {[critical] [informational] [none] [serious]} [secondary-address] {[A.B.C.D] [WORD]}} [volatile] {[latch] [overwrite]}`
- `no logging [remote] {[address] [enable] [facility] [level] [secondary-address]}`
- `default logging [remote] {[address] [facility] [level] [secondary-address]}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`address {A.B.C.D} | <WORD>`	Configure remote syslog address
`critical`	Critical event
`daemon`	Set daemon facility
`disable`	Disable the event log
`enable`	Enable the event log
`facility`	Configure remote logging facility
`informational`	Informational message
`latch`	Latch DRAM log when it is full
`level`	The severity level of events that will be logged in DRAM
`local0`	Set local0 facility
`local1`	Set local1 facility
`local2`	Set local2 facility
`local3`	Set local3 facility
`local4`	Set local4 facility
`local5`	Set local5 facility
`local6`	Set local6 facility

local7	Set local7 facility
none	No events stored in volatile storage
nv-level	The severity level of events that will be saved in NV storage
overwrite	Overwrite DRAM log when it is full
remote	Configure remote logging parameters
secondary-address {A.B.C.D} | <WORD>	Configure remote syslog address
serious	Serious event message
volatile	Configure options for logging to DRAM

logout (Privileged EXEC mode)

Exit from the EXEC and end the current session

Syntax

- `logout`

Default

None

Command mode

Privileged EXEC mode

logout (User Exec)

Exit from the EXEC and end the current session

Syntax

- `logout`

Default

None

Command mode

User Exec

mac-address-table

Configure MAC address table settings

Syntax

- `mac-address-table aging-time <10-1000000>`
- `no mac-address-table`
- `default mac-address-table aging-time`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`aging-time <10 - 1000000>`	Configure MAC address table aging time

mac-security

Configure MAC Address security options

Syntax

- `mac-security [auto-learning]{[aging-time <0-65535>] | [sticky]} [mac-address-table] {[address <H.H.H>] {[mlt-id <1-32>] | [port <LINE>] | [security-list <1-32>]} | {[sticky-address <H.H.H>] {[mlt-id <1-32>] | [port <LINE>]}}} [mac-da-filter] {[add <H.H.H>] | [delete <H.H.H>] | <H.H.H>]} [disable] [enable] [intrusion-detect] {[disable] | [enable] | [forever]} [intrusion-timer <0-65535>] [filtering] {[disable] | [enable]} [learning] {[disable] | [enable]} [learning-ports] {[add <LINE>] | [LINE] | [remove <LINE>]} [security-list] [<1-32>] {[add <LINE>] | <LINE> | [remove <LINE>]} [snmp-lock] { [disable] | [enable]}`
- `no mac-security [auto-learning] {[aging-time] | [sticky]} [mac-address-table] {[address <H.H.H>] | [mlt-id <1-32>] | [port <LINE>] | [security-list <1-32>]} [mac-da-filter <H.H.H>] [security-list <1-32>]`
- `default mac-security [auto-learning] {[aging-time] | [sticky]} [mac-da-filter <H.H.H>]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`aging-time <0-65535>`	Set aging-time value for auto-learned addresses
`auto-learning`	Configure MAC Auto-Learning
`disable`	Disable MAC Address Security.
`enable`	Enable MAC Address Security.
`filtering`	Enable/disable DA filtering for intruder addresses
`intrusion-detect`	Enable/disable partitioning on intrusion detection
`intrusion-timer <0-65535>`	Set temporary partition time for intrusion detection.
`learning`	Enable/disable MAC address learning
`learning-ports {add <LINE> I remove <LINE> | <LINE> }`	Modify ports participation in MAC address learning.

`mac-address-table`	Add addresses to MAC security address table
`mac-da-filter`	Add/delete MAC DA filtering addresses
`mlt-id <1-32>`	Assign specific trunk to a MAC address.
`port <LINE>`	Assign specific port to a MAC address.
`security-list`	Modify security list port membership.
`security-list <1-32>`	Assign a security list to a MAC address.
`snmp-lock`	Enable/disable SNMP lock on MAC address security parameters.
`sticky`	Set mac-security sticky mode
`sticky-address <H.H.H>`	Adds a sticky address to the mac-security mac-address table

mac-security (Ethernet Interface Configuration)

Enables /disables MAC-based security for individual port.

Syntax

- `mac-security [port <portlist>] {disable|enable}`
- `no mac-security [port <portlist>] [learning|lock-out]`
- `mac-security auto-learning [port <portlist>] {disable | enable | max-addrs <1-25>}`
- `no mac-security auto-learning [port <portlist>]`
- `default mac-security auto-learning [port <portlist>][enable ][ max-addrs ]`
- `default mac-security [port <portlist>] lock-out`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`[port <portlist>]`	Specifies a port or list of ports.
`auto-learning`	Configure MAC Auto-Learning.
`disable`	Disable MAC security for port(s).
`enable`	Enable MAC security for port(s).
`learning`	Enable MAC security address learning for port(s).
`lock-out`	Lock out ports from mac security.
`max-addrs`	Number of auto-learned entries.

manualtrigger

Trigger RIP update manually

Syntax

- `manualtrigger ip rip interface vlan <1-4094>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`interface`	Trigger per-interface RIP update
`ip`	Global IP configuration subcommands
`rip`	Trigger RIP update
`vlan <1-4094>`	VLAN interface

maximum-path

Set the maximum number of ECMP path for static routes

Syntax

- `maximum-path <1-4>`
- `no maximum-path`
- `default maximum-path`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-4>	ECMP path value

mlt

Modify Multi-Link Trunking (MLT) configuration

Syntax

- `mlt <id> [name <mlt-name>] [enable | disable] [member <LINE>] [learning {disable | fast | normal}] [bpdu {all-ports | single-port}] [loadbalance {advance|basic}]`
- `mlt shutdown-ports-on-disable enable`
- `mlt spanning-tree <1-32> stp {<1-8> | all | learning {disable |normal | fast}}`
- `no mlt {<1-32>|shutdown-ports-on-disable enable}`
- `default mlt {<1-32> bpdu | shutdown-ports-on-disable enable}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<1-32>`	MLT ID
`bpdu {all-ports | single-port}`	Set BPDU send/receive mode
`disable`	Disable MLT
`enable`	Enable MLT
`learning {disable | fast | normal}`	Set STP learning mode to disable, fast or normal for a trunk
`loadbalance {advance|basic}`	MLT Load Balance Selection (Advance/Basic)
`member <LINE>`	Set port membership of MLT
`name <mlt-name>`	MLT Name
`shutdown-ports-on-disable`	Set protection for disabled trunk
`spanning-tree`	Set MLT spanning-tree settings
`stp {<1-8> | all | learning}`	Spanning tree group and learning mode

name (Ethernet Interface Configuration)

Sets the names of ports.

Syntax

- `name [port <LINE>] <LINE>`
- `no name [ port <LINE>]`
- `default name [ port <LINE> ]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<LINE>	New port name.
port <LINE>	Port number(s) whose names are to be changed.

neighbor

Configure BGP peers or peer-groups

Syntax

- neighbor A.B.C.D [default-originate][enable][in-route-map <WORD>][max-prefix <0-4000>][MD5-authentication enable][neighbor-debug-mask <WORD>][next-hop-self][out-route-map <WORD>][peer-group <WORD>][remote-as <0-65535>][retry-interval <1-65535>][route-reflector-client][send-community][soft-reconfiguration-in enable][timers <0-21845><0-65535>][update-source A.B.C.D][weight <0-65535>]
- default neighbor A.B.C.D [default-originate][enable][in-route-map][max-prefix][MD5-authentication enable][neighbor-debug-mask][next-hop-self][out-route-map][remote-as][retry-interval][route-reflector-client][send-community][soft-reconfiguration-in enable][timers][weight]
- no neighbor A.B.C.D [default-originate][enable][in-route-map][MD5-authentication enable][neighbor-debug-mask][next-hop-self][out-route-map][peer-group][remote-as][route-reflector-client][send-community][soft-reconfiguration-in enable][update-source][weight]
- neighbor password { <A.B.C.D> | <WORD> } <password>
- default neighbor password { <A.B.C.D> | <WORD> }
- no neighbor password { <A.B.C.D> | <WORD> }
- neighbor <WORD> [default-originate][enable][in-route-map <WORD>][max-prefix <0-4000>][MD5-authentication enable][neighbor-debug-mask <WORD>][next-hop-self][out-route-map <WORD>][peer-group <WORD>][remote-as <0-65535>][retry-interval <1-65535>][route-reflector-client][send-community][soft-reconfiguration-in enable][timers <0-21845><0-65535>][update-source A.B.C.D][weight <0-65535>]
- default neighbor <WORD> [default-originate][enable][in-route-map][max-prefix][MD5-authentication enable][neighbor-debug-mask][next-hop-self][out-route-map][remote-as][retry-interval][route-reflector-client][send-community][soft-reconfiguration-in enable][timers][weight]
- no neighbor <WORD> [default-originate][enable][in-route-map][MD5-authentication enable][neighbor-debug-mask][next-hop-self][out-route-map][peer-group][remote-as][route-reflector-client][send-community][soft-reconfiguration-in enable][update-source][weight]

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
A.B.C.D	IP address
password	Configure a password for TCP MD5 authentication
<WORD>	Peer group name
default-originate	Enable sending the default route information.
enable	Enable the adminstrative state of a BGP peer.
in-route-map <WORD>	In-route policy
max-prefix <0-4000>	Maximum number of routes accepted from a neighbor.
MD5-authentication enable	Enable TCP MD5 authentication between two peers.
neighbor-dubug-mask <WORD>	Display specified debug information for a BGP peer.
next-hop-self	Specify the local address in next-hop attribute.
out-route-map <WORD>	Out-route policy
peer-group <WORD>	Add a BGP peer to the specified subscriber group.
remote-as <0-65535>	Configure a remote-as for a BGP peer or a peer-group.
retry-interval <1-65535>	Set the time interval (seconds) for the ConnectRetry timer.
route-reflector-client	Configure the neighbor as its route reflector client.
send-community	Community attribute.
soft-reconfiguration-in enable	Soft reconfiguration command.
timers <0-21845> <0-65535>	Set timers (seconds) for the BGP speaker for this peer.
update-source <A.B.C.D>	Specify the source IP address for BGP packets.
weight <0-65535>	Specify the weight of a BGP peer or peer groups.

neighbor-debug-all

Display debug information for BGP neighbors

Syntax

- `neighbor-debug-all mask <WORD>`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
`mask <WORD>`	Displays specified debug information for BGP neighbors. Default is none.

network (BGP Router Configuration)

Specifies IGP network prefixes for BGP

Syntax

- `network A.B.C.D/<0-32>`
- `default network A.B.C.D/<0-32>`
- `no network A.B.C.D/<0-32>`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
A.B.C.D/<0-32>	Specifies IGP network prefixes for BGP to advertise for redistribution. This command imports routes into BGP.

network (OSPF Router Configuration)

Enables OSPF on an interface.

Syntax

- `network <ip_address> [area <area_id>]`
- `no network <ip_address>`
- `default network <ip_address>`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
`<ip_address>`	Specifies the IP address of interface to be enabled for OSPF routing.
`area <area_id>`	Specifies the ID of the area assigned to the interface in dotted decimal notation (A.B.C.D).
`no`	Disables OSPF routing on an interface

network (RIP Router Configuration)

Enables RIP on an IP interface.

Syntax

- `network A.B.C.D`
- `no network A.B.C.D`

Default

None

Command mode

RIP Router Configuration

Command parameters

Parameter	Description
A.B.C.D	IP address of the interface.

no-med-path-is-worst

Enable no-med-path-is-worst command

Syntax

- `no-med-path-is-worst [enable]`
- `default no-med-path-is-worst [enable]`
- `no no-med-path-is-worst [enable]`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
`enable`	Enables BGP to treat an update without a multi-exit discriminator (MED) attribute as the worst path. Default value is disable.

no poe-shutdown

Enables PoE on the port.

Syntax

- `no poe-shutdown`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<port_list>	List of ports.

ospf

Set the maximum number of ECMP path for "ospf" protocol

Syntax

- `ospf maximum-path <1-4>`
- `no ospf maximum-path`
- `default ospf maximum-path`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`maximum-path <1-4>`	Set the maximum number of ECMP path

password

Configure password security restrictions

Syntax

- `password {aging-time day <1-2730> | password-history <3-10> | security}`
- `no password security`
- `default password password-history`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`aging-time day <1-2730>`	Password validity period
`password-history <3-10>`	Configure number of passwords in history if password security is enabled
`security`	Enable password security restrictions

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ping (User Exec)

Send echo messages

Syntax

- `ping {<Host-name> | {A.B.C.D} | <WORD>} [datasize <64-4096>] [ttl <0-255>] [continuous] [count <1-9999>] [timeout <1-120>] [-t <1-120>] [interval <1-60>] [debug] [source {A.B.C.D} [vrf <WORD>]]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`<Host-name> | {A.B.C.D}`	The hostname or ip address to ping
`<WORD>`	Ipv6 address to ping
`continuous`	Ping in continuous mode
`count <1-9999>`	Number of packets
`datasize <64-4096>`	Packet size
`debug`	Enable ping debug
`interval <1-60>`	Interval to retransmit in seconds
`source {A.B.C.D}`	Source address for ping
`-t <1-120>`	Timeout in seconds
`timeout <1-120>`	Timeout in seconds
`ttl <0-255>`	Time to live for packet
`vrf <WORD>`	VRF name

ping-virtual-address

Enables or disables ICMP echo replies from virtual router IP addresses.

Syntax

- `ping-virtual-address enable`
- `no ping-virtual-address [enable]`
- `default ping-virtual-address [enable]`

Default

None

Command mode

VRRP Router Configuration

Command parameters

Parameter	Description
[no]	Disables ICMP echo replies for VRRP associated addresses.

poe

Set global configuration of Power Over Ethernet

Syntax

- `poe[poe-pd-detect-type] {[unit <1-8>] [802dot3af] [802dot3af_and_legacy] [802dot3at] [802dot3at_and_legacy]} [poe-power-usage-threshold] {[unit <1-8>] [<1-99>]}`
- `default poe`
- `no poe`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`802dot3af`	Set PD detection mode in 802.3af
`802dot3af_and_legacy`	Set PD detection mode in 802.3af and legacy
`802dot3at`	Set PD detection mode in 802.3at
`802dot3at_and_legacy`	Set PD detection mode in 802.3at and legacy
`poe-pd-detect-type`	Set PD detection type
`poe-power-usage-threshold <1-99>`	Set power usage threshold in percentage
`poe-power-usage-threshold unit <1-8>`	Set power usage threshold of an unit in stack
`unit <1-8>`	Set PD detection mode of an unit in stack

poe poe-limit (for PoE+ units)

Sets the power limit for channels.

Syntax

- `poe poe-limit [port <portlist> ] <3-32>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<3 - 32>	Power limit in watt.
port <portlist>	Select port for operation.

poe poe-limit (for PoE units)

Sets the power limit for channels.

Syntax

- `poe poe-limit [port <portlist>] <3-16>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<3 - 16>	Power limit in watt.
port <portlist>	Select port for operation.

poe poe-priority

Sets the port power priority.

Syntax

- `poe poe-priority [port <portlist>] {critical | high | low}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`{low | high | critical}`	The PoE priority for the port.
`port <portlist>`	The ports to set priority for.

poe poe-shutdown

Disables PoE to a port.

Syntax

- `poe poe-shutdown [port <portlist>]`
- `no poe-shutdown [port <portlist>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`port <portlist>`	List of ports.

port-mirroring

Change port mirroring configuration

Syntax

- `port-mirroring {[<1-4>] [allow-traffic] [mode] {disable | adst monitor-port <LINE> mirror-MAC-A <H.H.H> | Asrc monitor-port <LINE> mirror-MAC-A <H.H.H> | AsrcBdst monitor-port <LINE> mirror-MAC-A <H.H.H> mirror-MAC-B <H.H.H> | AsrcBdstOrBsrcAdst monitor-port <LINE> mirror-MAC-A <H.H.H> mirror-MAC-B <H.H.H> | AsrcOrAdst monitor-port <LINE> mirror-MAC-A <H.H.H> | ManyToOneRx monitor-port <LINE> mirror-ports <LINE> | ManyToOneRxTx monitor-port <LINE> mirror-ports <LINE> | ManyToOneTx monitor-port <LINE> mirror-ports <LINE> | Xrx monitor-port <LINE> mirror port-X <LINE> | XrxOrXtx monitor-port <LINE> mirror-port-X <LINE> | XrxOrYtx monitor-port <LINE> mirror port-X <LINE> mirror-port-Y <LINE> | XrxYtx monitor port <LINE> mirror-port-X <LINE> mirror-port-Y <LINE> | XrxYtxOrYrxXtx monitor-port <LINE> mirror-port-X <LINE> mirror-port-Y <LINE> | Xtx monitor-port <LINE> mirror-port-X <LINE>} [rspan-vlan <2-4094>]`
- `port-mirroring rspan {[<1-4>] [destination-port <LINE>] [vlan <2-4094>]}`
- `no port-mirroring {<1-4> | rspan <1-4>}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-4>	instance number 1...4 (default 1)
Adst	Mirror packets with destination MAC address A
allow-traffic	Allow traffic for monitor port
Asrc	Mirror packets with source MAC address A
AsrcBdst	Mirror packets with source MAC address A and destination MAC address B
AsrcBdstOrBsrcAdst	Mirror packets with source MAC address A and destination MAC address B, or packets with source MAC address B and destination MAC address A
AsrcOrAdst	Mirror packets with source or destination MAC address A
destination-port <LINE>	Specify RSPAN destination port
disable	Disable port mirroring
ManytoOneRx	Many to one port mirroring ingress traffic

ManytoOneRxTx	Many to one port mirroring ingress & egress traffic
ManytoOneTx	Many to one port mirroring egress traffic
mirror-MAC-A <H.H.H>	Set mirroring MAC address A (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
mirror-MAC-B <H.H.H>	Set mirroring MAC address B (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
mode	Set port mirroring mode
monitor-port <LINE>	Set port mirroring monitor port
rspan <1-4>	Configure RSPAN settings
rspan-vlan <2-4094>	Specify RSPAN VLAN
Xrx	Mirror packets received on port X
XrxOrXtx	Mirror packets received or transmitted on port X
XrxOrYtx	Mirror packets received on port X or transmitted on port Y
XrxYtx	Mirror packets received on port X and transmitted on port Y
XrxYtxOrYrxXtx	Mirror packets received on port X and transmitted on port Y, or packets received on port Y and transmitted on port X
Xtx	Mirror packets transmitted on port X

qos acl-assign

Create access-list assignment

Syntax

- `qos acl-assign {<1-55000> enable | <port> <LINE> acl-type [ip | l2] <name> <WORD>}`
- `no qos acl-assign {<1 - 55000> enable| [<port> <LINE> acl-type [ip | l2] <name> <WORD>}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-55000>	Access-list assignment ID
<name>	Specify the access-list to reference
<WORD>	1..16 character string
acl-type [ip | l2]	Specify the access-list type (ip,l2)
port	Specify the port(s) to apply access-list on

qos action

Create base actions entry

Syntax

- `qos action <10-55000> {[name <WORD>] [drop-action <enable | disable | deferred-pass>] [update-dscp <0-63>] [update-1p {<0-7> | use-tos-prec | use-egress}] [set-drop-prec <low-drop | high-drop>] [action-ext <1-55000> | action-ext-name <WORD>] [session-id <1–4294967295>]}`
- `no qos action [<10-55000>]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<10-55000>	Specify the Action ID
action-ext <1-55000>	Specify the action extension id
action-ext-name <WORD>	Specifiy the action extension name
drop-action <enable | disable | deferred-pass>	Specify the drop action
name <WORD>	Specify the action label
session-id <1–4294967295>	Specify the session ID
set-drop-prec {<0-7> | use-tos-prec | use-egress}	Specify the set drop precedence
update-1p {<0-7> | use-tos-prec | use-egress}	Specify the update user priority
update-dscp <0-63>	Specify the update DSCP

qos agent aq-mode

Modify the Auto QOS application traffic processing mode

Syntax

- `qos agent aq-mode {disable | mixed | pure}`
- `default qos agent aq-mode`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`disable`	Auto QOS application traffic processing disabled on all ports
`mixed`	Auto QOS application traffic processing enabled on all ports with egress DSCP remapping
`pure`	Auto QOS application traffic processing enabled on all ports without egress DSCP remapping

qos agent buffer

Modify the QoS resource buffer allocation

Syntax

- `qos agent buffer {large | lossless | maximum | regular}`
- `default qos agent buffer`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
large	Medium amount of resource sharing
lossless	Lossless mode
maximum	Maximum amount of resource sharing
regular	Minimum amount of resource sharing

qos agent dos-attack-prevention

Enable the QoS DoS Attack Prevention

Syntax

- `qos agent dos-attack-prevention {[enable][ max-ipv4-icmp <0-1023>][ max-ipv6-icmp <0-16383>][ min-tcp-header <0-255>][ status-tracking ]}`
- `default qos agent dos-attack-prevention`
- `no qos agent dos-attack-prevention [enable]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable the QoS DoS Attack Prevention
`max-ipv4-icmp <0-1023>`	Specify the maximum IPv4 ICMP packet size in bytes
`max-ipv6-icmp <0-16383>`	Specify the maximum IPv6 ICMP packet size in bytes
`min-tcp-header <0-255>`	Specify the minimum TCP header size in bytes
`status-tracking`	Enable status tracking

qos agent nvram-delay

Modify the maximum time in seconds to write config data to non-volatile storage

Syntax

- `qos agent nvram-delay <0-604800>`
- `default qos agent nvram-delay`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<0-604800>	The maximum amount of time in seconds before non-volatile QoS configuration is written to non-volatile storage

qos agent oper-mode

Enable the QoS operational mode

Syntax

- `qos agent oper-mode enable`
- `no qos agent oper-mode enable`
- `default qos agent [oper-mode]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
enable	QoS enabled globally

qos agent queue-set

Modify the default QoS CoS queue set

Syntax

- `qos agent queue-set <1-8>`
- `default qos agent queue-set`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-8>	queue set value

qos agent reset-default

Reset the QoS to its configuration default

Syntax

Default

None

Command mode

Global configuration mode

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qos agent reset-partial-default

Reset the QoS to its partial configuration default

Syntax

Default

None

Command mode

Global configuration mode

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qos agent statistics-tracking

Modify the QoS default statistics tracking

Syntax

- `qos agent statistics-tracking {aggregate | disable | individual}`
- `default qos agent statistics-tracking`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`aggregate`	Allocate a single statistics counter to track data for all classifier of the QoS policy being created
`disable`	No statistics tracking for QoS policy being created
`individual`	Allocate individual statistics counters to track data for each classifier of the QoS policy being created

qos agent ubp

Modify the QoS UBP support level

Syntax

- `qos agent ubp {disable | high-security-local | low-security-local}`
- `default qos agent ubp`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`disable`	QoS Agent ignore user information forwarded by other applications (i.e. EAP)
`high-security-local`	QoS Agent internal database to be searched for user-specific classification data forwarded by other applications with high security
`low-security-local`	QoS Agent internal database to be searched for user-specific classification data forwarded by other applications with low security

qos classifier

Create classifier set entry

Syntax

- `qos classifier <1-55000> set-id <1-55000> [name <WORD>] element-type {ip | l2 | system} element-id <1-55000> [session id <1-4294967295>]`
- `no qos classifier <1-55000>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-55000>	Specify the classifier ID
element-id <1-55000>	Specify the IP classifier element ID
element-type {ip | l2 | system}	Specify the classifier element type (IP, L2, System)
name <WORD>	Specify the classifier name
session id <1-4294967295>	Specify the session ID
set-id <1-55000>	Specify the classifier set ID

qos classifier-block

Create classifier block entry

Syntax

- `qos classifier-block <1-55000> block-number <1-55000> [name <WORD>]{set-id <1-55000> | set-name <WORD>} [{in-profile-action <1-55000> | in-profile-action-name <WORD>} | {meter <1-55000> | meter-name <WORD>}] [session-id <1-4294967295>] [eval-order]`
- `no qos classifier-block <1-55000>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-55000>	Specify the classifier block ID
block-number <1-55000>	Specify the classifier block number
eval-order	Specify the block entry evaluation order
in-profile-action <1-55000>	Specify the in-profile action ID to be linked to the classifier entry of this block
in-profile-action-name <WORD>	Specify the in-profile action name to be linked to the classifier entry of this block
meter <1-55000>	Specify the meter ID to be linked to the classifier entry of this block
meter-name <WORD>	Specify the meter name to be linked to the classifier entry of this block
name <WORD>	Specify the classifier block name
session-id <1-4294967295>	Specify the session ID
set-id <1-55000>	Specify the classifier set ID to be linked to the block
set-name <WORD>	Specify the classifier set name to be linked to block

qos clear-stats

Clear all QoS statistic counters

Syntax

- `qos clear-stats`

Default

None

Command mode

Global configuration mode

qos egressmap

Configure the DSCP to 802.1p priority and drop precedence associations

Syntax

- `qos egressmap [name <WORD>] [ds <0-63>] [1p <0-7>] [dp <low-drop | high-drop>] [ds-new <0-63>]`
- `default qos egressmap [ds <0-63>]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`1p <0-7>`	Specify the 802.1p priority associated with the target DSCP
`dp high-drop`	Higher probability of being dropped when congestion is encountered
`dp low-drop`	Lower probability of being dropped when congestion is encountered
`ds <0-63>`	Specify the DSCP value used as lookup key for 802.1p priority and drop precedence
`ds-new <0-63>`	Specify the new DSCP associated with the target DSCP
`name <WORD>`	Specify label for the egress mapping

qos if-action-extension

Create interface actions extension entry

Syntax

- `qos if-action-extension <1-55000> [name <WORD>] {egress-ucast <LIST> | egress-non-ucast <LINE> } [sesson-id <1-4294967295>]`
- `no qos if-action-extension <1-55000>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-55000>	Specify the Interface Action ID
egress-non-ucast <LINE>	Specify redirection of broadcast, multicast, and unknown unicast (floods) to specified interface
egress-ucast <LIST>	Specify redirection of known unicast packets to specified interface
name <WORD>	Specify Interface Action label
sesson-id <1-4294967295>	Specify the session ID

qos if-assign

Add interfaces to interface groups

Syntax

Default

None

Command mode

Global configuration mode

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qos if-assign (Ethernet Interface Configuration)

Adds ports to an interface group.

Syntax

- `[no] qos if-assign [port <portlist>] name [<WORD>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`name <WORD>`	Specify name of interface group.
`port <portlist>`	Enter the ports to add to interface group.

qos if-group

Create interface group

Syntax

- `qos if-group name <WORD> class {trusted | untrusted | unrestricted | untrustedbasic | untrustedv4v6}`
- `no qos if-group name <WORD>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`class`	Specify class of traffic received on interfaces associated with this interface group
`name <WORD>`	Specify name of interface group
`trusted`	Traffic received on the associated interfaces are assumed to be trusted (i.e. trusted ports are usually connected to the core network; 802.1p remarked based on DSCP by default)
`unrestricted`	Traffic received on the associated interfaces may have unrestricted treatment applied (i.e. unrestricted ports can be either access links or connected to the core network; no default processing is applied)
`untrusted`	IPv4 traffic received on the associated interfaces are assumed to be untrusted (i.e. untrusted ports are typically access links that are connected to end stations; DSCP and 802.1p remarked by default)
`untrustedbasic`	IPv4 and IPv6 traffic received on the associated interfaces are assumed to be untrusted (i.e. untrusted ports are typically access links that are connected to end stations; DSCP and 802.1p remarked by default). Tagged and untagged traffic are treated the same for minimum resource consumption.
`untrustedv4v6`	IPv4 and IPv6 traffic received on the associated interfaces are assumed to be untrusted (i.e. untrusted ports are typically access links that are connected to end stations; DSCP and 802.1p remarked by default)

qos if-queue-shaper

Creates an egress queue shaper for one or more interfaces.

Syntax

- `qos if-queue-shaper [port <portlist>] [queue <1-8>] [name <WORD>] shape-rate <0-10230000> shape-min-rate <0-10230000>`
- `no qos if-queue-shaper [port <portlist>] [queue <1-8>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`name <WORD>`	Specifies an alphanumeric label used to identify the QoS interface queue shaper. Value is a character string ranging from 1–16 characters in length.
`port <portlist>`	Specifies the port or list of ports for which to apply egress queue shaping.
`queue <1-8>`	Specifies the queue for the selected interface port or ports, on which traffic is shaped. The range of available values is determined by the OoS agent default queue configuration.
`shape-min-rate <0-10230000>`	Specifies the minimum QoS interface queue shaping rate, in kilobits per second (Kbps). Values range from 0 to10230000 Kbps.
`shape-rate <0-10230000>`	Specifies the QoS interface queue shaping rate, in kilobits per second (Kbps). Values range from 0 to 10230000 Kbps

qos if-shaper

Configures the interface shaping parameters for a set of ports.

Syntax

- `[no] qos if-shaper [name <WORD>] [port <portlist>] [shape-rate <64-10230000>] [burst-size <burst-size>] [max-burst-rate <64-4294967295>] [max-burst-duration <1-4294967295>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`burst-size <burst-size>`	Committeed burst size in Kilobytes. The value range is: 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384.
`max-burst-duration <1-4294967295>`	Maximum burst duration in milliseconds; range is 1–4294967295 ms.
`max-burst-rate <64-4294967295>`	Maximum burst rate in kilobits/sec; range is 64-4294967295Kbits/sec.
`name <WORD>`	Specify name for if-shaper; maximum is 16 alphanumeric characters
`port <portlist>`	Specify the port or list of ports for which to apply egress shaping.
`shape-rate <64-10230000>`	Shaping rate in kilobits/sec; range is 64-10230000 kilobits/sec.

qos ingressmap

Configure the 802.1p to DSCP associations

Syntax

- `qos ingressmap {[name <WORD>][1p <0-7> ds <0-63>]}`
- `default qos ingressmap`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`1p <0-7>`	Specify the 802.1p user priority used as lookup key for DSCP assignment at ingress
`ds <0-63>`	Specify the DSCP value associated with the target 802.1p priority
`name <WORD>`	Specify label for the ingress mapping

qos ip-acl

Create IP access-list element

Syntax

- `qos ip-acl name <WORD> {[addr-type <ipv4 | ipv6>] [src-ip {A.B.C.D}/<0-32>] [dst-ip {A.B.C.D}/<0-32>] [ds-field <0-63>] [protocol <0-255>] [next_header <0-255>] [flow-id <0x0-0xfffff>] [src-port-min <0-65535> src-port-max <0-65535>] [dst-port-min <0-65535> dst-port-max <0-65535>] [drop-action {enable | disable}] [update-dscp <0 - 63>] [update-1p <0 - 7>] [set-drop-prec {high drop | low drop}] [block <WORD>]`
- `no qos ip-acl {<1-55000> | all}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
addr-type <ipv4 | ipv6>	Specify the address type (IPv4, IPv6) classifier criteria
block <WORD>	Specify the label to identify access-list elements that are of the same block
drop-action {enable | disable}	Specify the drop action
ds-field <0-63>	Specify the DSCP classifier criteria
dst-ip {A.B.C.D}/<0-32>	Specify the destination IP classifier criteria
dst-port-max <0-65535>	Specify the L4 destination port maximum value filter criteria
dst-port-min <0-65535>	Specify the L4 destination port minimum value classifier criteria
flow-id 0x0-0xfffff	Specify the IPv6 flow identifier classifier criteria
name <WORD>	Specify the label used to reference the access-list element
next_header <0-255>	Specify the IPv6 next header classifier criteria
protocol <0-255>	Specify the IPv4 protocol classifier criteria
set-drop-prec {high drop | low drop}	Specify the set drop precedence
src-ip {A.B.C.D}/<0-32>	Specify the source IP classifier criteria
src-port-max <0-65535>	Specify the L4 source port maximum value filter criteria
src-port-min <0-65535>	Specify the L4 source port minimum value classifier criteria

`update-1p <0 - 7>`	Specify the update user priority
`update-dscp <0 - 63>`	Specify the update DSCP

qos ip-element

Create IP classifier element entry

Syntax

- `qos ip-element <1-55000> [addr-type <ipv4 | ipv6>] [ds-field <0-63>] [dst-ip {A.B.C.D}/<0-32>] [dstport-min <0-65535> dst-port-max <0-65535>] [flow-id <0x00-0xfffff>] [ip-flag <LINE>] [ipv4-option <no-opt|with-opt>] [name <WORD>] [next-header <0-255>] [protocol <0-255>] [src-ip {A.B.C.D}/<0-32>] [src-port-min <0-65535> src-port-max <0-65535>] [tcp-control <a|f|p|r|s|u>] [session-id <1-4294967295>]`
- `no qos ip-element <1-55000>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
addr-type <ipv4 | ipv6>	Specify the address type (IPv4, IPv6) classifier criteria
ds-field <0-63>	Specify the DSCP classifier criteria
dst-ip {A.B.C.D}/<0-32>	Specify the destination IP classifier criteria
dst-port-max <0-65535>	Specify the L4 destination port maximum value filter criteria
dst-port-min <0-65535>	Specify the L4 destination port minimum value classifier criteria
flow-id <0x00-0xfffff>	Specify the IPv6 flow identifier classifier criteria
ip-flag <LINE>	Specify the IP fragment flag criteria
ipv4-option <no-opt|with-opt>	Specify the IPv4 option criteria
name <WORD>	Specify name of ip-element
next-header <0-255>	Specify the IPv6 next header classifier criteria
protocol <0-255>	Specify the IPv4 protocol classifier criteria
session-id <1-4294967295>	Specify the session ID
src-ip {A.B.C.D}/<0-32>	Specify the source IP classifier criteria
src-port-max <0-65535>	Specify the L4 source port maximum value filter criteria
src-port-min <0-65535>	Specify the L4 source port minimum value classifier criteria
tcp-control <a|f|p|r|s|u>	Specify the TCP control criteria

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qos l2-acl

Create L2 access-list element

Syntax

- `qos l2-acl name <WORD> [src-mac <H.H.H>] [src-mac-mask <H.H.H>] [dst-mac <H.H.H>] [dst-mac-mask <H.H.H>] [vlan-min <1-4094> vlan-max <1-4094>][vlan-tag <tagged | untagged>] [ethertype <0x0-0xFFFF>] [priority <0-7>| All] [drop-action {enable | disable}] [update-dscp <0-63>] [update-1p <0-7>] [set-drop-prec {high-drop | low-drop}] [block <WORD>]`
- `no qos l2-acl {<1-55000> | all}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`block <WORD>`	Specify the label to identify access-list elements that are of the same block
`drop-action {enable | disable}`	Specify the drop action
`dst-mac <H.H.H>`	Specify the destination MAC classifier criteria
`dst-mac-mask <H.H.H>`	Specify the destination MAC mask classifier criteria
`ethertype <0x0-0xFFFF>`	Specify the ethertype classifier criteria
`priority <0-7>| All`	Specify the user priority classifier criteria
`set-drop-prec {high drop | low drop}`	Specify the set drop precedence
`src-mac <H.H.H>`	Specify the source MAC classifier criteria
`src-mac-mask <H.H.H>`	Specify the source MAC mask classifier criteria
`update-1p <0-7>`	Specify the update user priority
`update-dscp <0-63>`	Specify the update DSCP
`vlan-min <1-4094> vlan-max <1-4094>`	Specify the Vlan ID minimum and maximum value classifier criteria
`vlan-tag <tagged | untagged>`	Specify the vlan tag classifier criteria

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qos l2-element

Create L2 classifier element entry

Syntax

- `qos l2-element <1-55000> [dst-mac <H.H.H>] [dst-mac-mask <H.H.H>] [ethertype <0x00-0xffff>] [name <WORD>] [pkttype <etherII|llc|snap>] [priority <0-7>|all] [session-id <1-4294967295>] [src-mac <H.H.H>] [src-mac-mask <H.H.H>] [vlan-min <1-4094> vlan-max <1-4094>] [vlan-tag <tagged| untagged>]`
- `no qos l2-element <1-55000>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-55000>	Specify the L2 classifier element ID
dst-mac <H.H.H>	Specify the destination MAC classifier criteria
dst-mac-mask <H.H.H>	Specify the destination MAC mask classifier criteria
ethertype <0x0-0xFFFF>	Specify the ethertype classifier criteria
name <WORD>	Specify name of l2 element
pkt-type <etherII|llc|snap>	Specify the filter packet format ethertype encoding criteria (Ethernet II packet, or LLC packet or SNAP packet
priority <0-7>| All	Specify the user priority classifier criteria
session-id <1-4294967295>	Specify the session ID
src-mac <H.H.H>	Specify the source MAC classifier criteria
src-mac-mask <H.H.H>	Specify the source MAC mask classifier criteria
vlan-min <1-4094> vlan-max <1-4094>	Specify the Vlan ID minimum value classifier criteria
vlan-tag <tagged | untagged>	Specify the vlan tag classifier criteria

qos meter

Create meter entry

Syntax

- `qos meter <1-5000> [name <WORD>] [committed-rate <64-10230000>] [burst-size <1024 | 128 | 16 | 16384 | 2048 | 256 | 32 | 4 | 4096 | 512 | 64 | 8 | 8192>] [max-burst-rate <64-4294967295>] [max-burst-duration <1-4294967295>] {inprofile-action <1-55000> | in-profile-action-name <WORD>} {outprofile-action <1,9-55000> | out-profile-action-name <WORD>} [session-id <1-4294967295>]`
- `no qos meter <1-55000>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-5000>	Specify the meter ID
burst-size <1024 | 128 | 16 | 16384 | 2048 | 256 | 32 | 4 | 4096 | 512 | 64 | 8 | 8192>	Specify the burst size in KBytes
committed-rate <64-10230000>	Specify the committed rate value
in-profile-action <1-55000>	Specify the in-profile action ID
in-profile-action-name <WORD>	Specify the in-profile action name
max-burst-duration<64-4294967295>	Specify the maximum burst duration value
max-burst-rate <64-4294967295>	Specify the maximum burst rate value
name <WORD>	Specify the meter label
out-profile-action <1,9-55000>	Specify the out-profile action ID
out-profile-action-name <WORD>	Specify the out-profile action name
session-id <1-4294967295>	Specify the session ID

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qos policy

Create policy entry

Syntax

- `qos policy <1-55000> [enable] [name <WORD>] [port <LINE>] [if-group <WORD> clfr-type {classifier | block} {clfr-id <1-55000> | clfr-name <WORD>}{in-profile-action <1-55000> | in-profile-action-name <WORD>} | meter <1-55000> | meter-name <WORD>} precedence <1-7> [track-statistics <individual | aggregate>]} [session-id <1-4294967295>]`
- `no qos policy <1-55000> [enable]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-55000>	Enter an integer to specify the QoS policy; range is 1–55000.
aggregate	All classifiers associated with the policy will share the statistics resource
block	Associate a classifier block to the policy
classifier	Associate a classifier to the policy
clfr-id <1-55000>	Specify the classifier set ID or classifier block number
clfr-name <NAME>	Specify the classifier set name or classifier block name
clfr-type	Specify the classifier type (classifier,block)
enable	Enable the policy
if-group <WORD>	Specify the interface group to apply policy
individual	Each classifier associated with the policy will have its own statistics resource
in-profile-action <1-55000>	Specify the in-profile action ID
in-profile-action-name <WORD>	Specify the in-profile action name
meter <1-55000>	Specify the meter ID
meter-name <WORD>	Specify the meter name
name <WORD>	Specify the policy label

port <LINE>	Specify the port to apply policy
precedence <1-7>	Specify the precedence of this policy in relation to other policies associated with the same interface group
session-id <1-4294967295>	Specify the session ID
track-statistics <individual | aggregate>	Specify to track statistics on policy

qos queue-set-assignment

Configure the 802.1p priority to queue

Syntax

- `qos queue-set-assignment queue-set <1-32> 1p <0-7> queue <1-8>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`1p <0-7>`	Specify the 802.1p priority value
`queue <1-8>`	Specifies the QoS queue set. Values range from 1 to 8.
`queue-set <1-32>`	Specify the queue set ID

qos system-element

Create system classifier element entry

Syntax

- `qos system-element <1-55000> [name <WORD>] [known-ip-mcast] [known-non-ipmcast] [non-ip] [unknown-ucast] [unknown-ip-mcast] [unknown-non-ip-mcast] [pattern-data <WORD> pattern-mask <WORD>] [pattern-format <tagged | untagged>] [pattern-ip-version <ipv4|ipv6|nonip>] [pattern-l2-format <ethernetII|llc|snap>] [session-id <1-4294967295>]`
- `no qos system-element <1-55000>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-55000>	Specify the system classifier element ID
known-ip-mcast	Match frames containing a known IP multicast destination address
known-non-ip-mcast	Match frames containing a known non-IP multicast destination address
name <WORD>	Specify name of system element
non-ip	Match non-IP frames
pattern-data <WORD>	Match frames with a specific data pattern
pattern-format <tagged | untagged>	Specify the format of the pattern data/mask
pattern-ip-version <ipv4|ipv6|nonip>	Specify the IP version of the pattern data/mask
pattern-l2-format <ethernetII|llc|snap>	Specify the L2 format of the pattern data/mask
pattern-mask <WORD>	Specifies the specific data pattern bit positions of interest
session-id <1-4294967295>	Specify the session ID
unknown-ip-mcast	Match frames containing an unknown IP multicast destination address
unknown-non-ip-mcast	Match frames containing an unknown non-IP multicast destination address

unknown-ucast

Match frames containing an unknown unicast destination address

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qos traffic-profile classifier

Create QoS Traffic Profile classifier entry

Syntax

- `qos traffic-profile classifier name <WORD>] [addr-type {ipv4 | ipv6}] [block <WORD>] [committed-rate <64-10230000> {[committed-burst-size] [max-burst-rate <64-4294967295>]} [drop-action {disable | enable}] [drop-out-action {disable | enable}] [ds-field <0-63>] [dst-ip A.B.C.D/<0-32>] [dst-mac <H.H.H> dst-mac-mask <H.H.H>] [dst-port-min <0-65535> dst-port-max <0-65535>] [ethertype <0x0-0xFFFF>] [eval-order <1-255>] [flow-id <0x0-0xfffff>] [ip-flag <LINE>] [ipv4-option {no-opt |with -opt}] [master] [next-header <0-255>] [pkt-type {etherII | llc | snap}] [priority {<0-7> | all}] [protocol <0-255>] [set-drop-prec {high-drop | low-drop}] [set-drop-prec-out-action {high-drop | low-drop}] [src-ip <A.B.C.D/<0-32>] [src-mac <H.H.H> src-mac-mask <H.H.H>] [src-port-min <0-65535> src-port-max <0-65535>] [tcp-control <LINE>] [update-1p {<0-7> | use-egress | use-tos-prec}] [update-dscp <0-63>] [update-dscp-out-action <0-63>] [vlan-min <1-4094> vlan-max <1-4094>] [vlan-tag {tagged |untagged}]`
- `no qos traffic-profile classifier [name <WORD>] [eval-order <1-255>]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`addr-type {ipv4 | ipv6}`	Specify the address type (IPv4, IPv6) classifier criteria
`block <WORD>`	Specify the label to identify access-list elements that are of the same block
`committed-rate 64-10230000>`	Specify the committed rate value
`drop-action {disable | enable}`	Specify the drop action
`drop-out-action {disable | enable}`	Specify the drop out-of-profile action
`ds-field <0-63>`	Specify the DSCP classifier criteria
`dst-ip A.B.C.D/<0-32>`	Specify the destination IP classifier criteria
`dst-mac <H.H.H>`	Specify the destination MAC classifier criteria
`dst-port-min <0-65535>`	Specify the L4 destination port minimum value classifier criteria
`ethertype <0x0-0xFFFF>`	Specify the ethertype classifier criteria
`eval-order <1-255>`	Specify the evaluation order

ip-flag <LINE>	Specify the IP fragment flag criteria
ipv4-option {no-opt |with -opt}	Specify the IPv4 option criteria
master	Specify as the master member of the block
name <WORD>	Specify the label used to reference the Traffic Profile entry.
pkt-type {etherII | llc | snap}	Specify the filter packet format ethertype encoding criteria
priority <0-7>| All	Specify the user priority classifier criteria
protocol <0-255>	Specify the IPv4 protocol classifier criteria
set-drop-prec {high-drop | low-drop}	Specify the set drop precedence
set-drop-prec-out-action {high-drop | low-drop}	Specify the set drop precedence out-of-profile action
src-ip <A.B.C.D/<0-32>	Specify the source IP classifier criteria
src-mac <H.H.H>	Specify the source MAC classifier criteria
src-port-min <0-65535>	Specify the L4 source port minimum value classifier criteria
tcp-control <LINE>	Specify the TCP control criteria
update-1p {<0-7> | use-egress | use-tos-prec}	Specify the update user priority
update-dscp <0-63>	Specify the update DSCP
update-dscp-out-action <0-63>	Specify the remark DSCP out-of-profile action
vlan-min <1-4094>	Specify the Vlan ID minimum value classifier criteria
vlan-tag {tagged |untagged}	Specify the vlan tag classifier criteria

qos traffic-profile set

Create QoS Traffic Profile set

Syntax

- `qos traffic-profile set [port <LINE>] [name <WORD>] [enable] [meter-mode] [classifier] [individual-per-policy] [uniform-per-policy] [track-statistics {aggregate | disable | individual}] [committed-rate <64-10230000> {committed-burst-size | max-burst-rate <64-4294967295>}]`
- `no qos traffic-profile set [port <LINE>] [name <WORD>] [enable]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`classifier`	A meter applied on a per-classifier basis, with derived rate and burst data
`committed-burst-size`	Specify the burst size in KBytes
`committed-rate <64-10230000>`	Specify the committed rate value
`enable`	Enable QoS Traffic Profile entry
`individual-per-policy`	A unique meter applied to each policy that comprises the filter set, with derived rate and burst data
`max-burst-rate <64-4294967295>`	Specify the maximum burst rate value
`meter-mode`	Specify the meter mode
`name <WORD>`	Specify the label used to reference the Traffic Profile entry.
`port <LINE>`	Specify the port(s) to apply traffic profile on
`track-statistics {aggregate | disable | individual}`	Specify to track statistics on policy
`uniform-per-policy`	A unique meter applied to each policy that comprises the filter set, with uniform rate and burst data

qos ubp classifier

Create QoS UBP entries

Syntax

- `qos ubp classifier name <WORD>] [addr-type {ipv4 | ipv6}] [block <WORD>] [drop-action {disable | enable}] [ds-field <0-63>] [dst-ip A.B.C.D/<0-32>] [dst-mac <H.H.H> dst-mac-mask <H.H.H>] [dst-port-min <0-65535> dst-port-max <0-65535>] [ethertype <0x0-0xFFFF>] [eval-order <1-255>] [ip-flag <LINE>] [ipv4-option {no-opt |with -opt}] [master] [pkt-type {etherII | llc | snap}] [priority {<0-7> | all}] [protocol <0-255>] [set-drop-prec {high-drop | low-drop}] [src-ip <A.B.C.D/<0-32>] [src-mac <H.H.H> src-mac-mask <H.H.H>] [src-port-min <0-65535> src-port-max <0-65535>] [tcp-control <LINE>] [update-1p {<0-7> | use-egress | use-tos-prec}] [update-dscp <0-63>] [vlan-min <1-4094> vlan-max <1-4094>] [vlan-tag {tagged |untagged}]`
- `no qos ubp [name <WORD>] [eval-order <1-255>]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`addr-type {ipv4 | ipv6}`	Specify the address type (IPv4, IPv6) classifier criteria
`block <WORD>`	Specify the label to identify access-list elements that are of the same block
`drop-action {disable | enable}`	Specify the drop action
`ds-field <0-63>`	Specify the DSCP classifier criteria
`dst-ip A.B.C.D/<0-32>`	Specify the destination IP classifier criteria
`dst-mac <H.H.H>`	Specify the destination MAC classifier criteria
`dst-port-min <0-65535>`	Specify the L4 destination port minimum value classifier criteria
`ethertype <0x0-0xFFFF>`	Specify the ethertype classifier criteria
`eval-order <1-255>`	Specify the evaluation order
`ip-flag <LINE>`	Specify the IP fragment flag criteria
`ipv4-option {no-opt |with -opt}`	Specify the IPv4 option criteria
`master`	Specify as the master member of the block
`name <WORD>`	Specify the label used to reference the Traffic Profile entry.

pkt-type {etherII | llc | snap}	Specify the filter packet format ethertype encoding criteria
priority <0-7>| All	Specify the user priority classifier criteria
protocol <0-255>	Specify the IPv4 protocol classifier criteria
set-drop-prec {high-drop | low-drop}	Specify the set drop precedence
src-ip <A.B.C.D/<0-32>	Specify the source IP classifier criteria
src-mac <H.H.H>	Specify the source MAC classifier criteria
src-port-min <0-65535>	Specify the L4 source port minimum value classifier criteria
tcp-control <LINE>	Specify the TCP control criteria
update-1p {<0-7> | use-egress | use-tos-prec}	Specify the update user priority
update-dscp <0-63>	Specify the update DSCP
vlan-min <1-4094>	Specify the Vlan ID minimum value classifier criteria
vlan-tag {tagged |untagged}	Specify the vlan tag classifier criteria

qos ubp set

Create QoS UBP set

Syntax

- `qos ubp set [name <WORD>] [set-priority <1-255>] [track-statistics {aggregate | disable | individual}] [committed-rate <64-10230000> {committed-burst-size | max-burst-rate <64-4294967295>}]`
- `no qos ubp set [name <WORD>]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
committed-burst-size	Specify the burst size in KBytes
committed-rate <64-10230000>	Specify the committed rate value
max-burst-rate <64-4294967295>	Specify the maximum burst rate value
name <WORD>	Specify the label used to reference the Traffic Profile entry.
set-priority <1-255>	Specify the filter set priority
track-statistics {aggregate | disable | individual}	Specify to track statistics on policy

quickconfig (Global configuration mode)

Enable quick config

Syntax

- `quickconfig enable`
- `no quickconfig enable`
- `default quickconfig`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
enable	Enable quick config

quickconfig (Privileged EXEC mode)

New unit quick configuration

Syntax

- `quickconfig start-recording`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`start-recording`	Start recording the command template

quick-start

Enable the quick-start flag for exponential backoff

Syntax

- `quick-start enable`
- `default quick-start [enable]`
- `no quick-start [enable]`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
enable	Enables the quick-start flag for exponential backoff.

radius accounting

Configure RADIUS accounting settings

Syntax

- `radius accounting interim-updates [enable] [interval <60-3600>] [use-server-interval]`
- `no radius accounting interim-updates [enable] [use-server-interval]`
- `default radius accounting interim-updates [enable] [interval] [use-server-interval]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable RADIUS Accounting Interim-Updates
`interim-updates`	Modify interim-updates settings
`interval <60-3600>`	Modify the timeout interval for RADIUS Accouning Interim-Updates
`use-server-interval`	Use the value given by server for the timeout interval

radius dynamic-server

RADIUS Dynamic Authorization Client settings

Syntax

- `radius dynamic-server {[client] {A.B.C.D} [secret] [port <1024-65535>] [enable] [process-disconnect-requests] [process-change-of-auth-requests]} | [replay-protection]`
- `no radius dynamic-server {[client] {A.B.C.D} [secret] [enable] [process-disconnect-requests] [process-change-of-auth-requests]} | [replay-protection]`
- `default radius dynamic-server {[client] {A.B.C.D} [secret] [enable] [port] [process-disconnect-requests] [process-change-of-auth-requests]} | [replay-protection]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
{A.B.C.D}	Add new RADIUS Dynamic Authorization Client or change RADIUS Dynamic Authorization Client settings
client <A.B.C.D>	Add new RADIUS Dynamic Authorization Client or change RADIUS Dynamic
enable	Enable packet receive from this RADIUS Dynamic Authorization Client
port <1024-65535>	Set server/NAS UDP port to listen for requests from this RADIUS Dynamic Authorization Client
process-change-of-auth-requests	Enable change-of-authorization requests processing
process-disconnect-requests	Enable disconnect requests processing
replay-protection	Enable globally Radius dynamic server replay protection
secret	Set RADIUS Dynamic Authorization Client secret

radius reachability

Configure RADIUS server reachability settings

Syntax

- `radius reachability {use-icmp | use-radius [username <LINE> password <LINE>]}`
- `default radius reachability`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`password <LINE>`	Set RADIUS request password
`use-icmp`	Enable RADIUS server reachability using ICMP
`use-radius`	Enable RADIUS server reachability using RADIUS requests
`username <LINE>`	Set RADIUS request username

radius server

Configure RADIUS server settings

Syntax

- `radius server host {<A.B.C.D> | <WORD>} [acct-enable] [acct-port <1–65535>] [key] [port <1–65535>] [retry <1–5>] [secondary] [timeout <1-60>] [used-by {eapol | non-eapol}]`
- `no radius server host {<A.B.C.D> | <WORD>} [acct-enable] [secondary] [used-by {eapol | non-eapol}]`
- `default radius server host {<A.B.C.D> | <WORD>} [acct-enable] [acct-port] [key] [port] [retry] [secondary] [timeout] [used-by {eapol | non-eapol}]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
{A.B.C.D}	IP address of RADIUS server
acct-enable	Enable RADIUS accounting mode
acct-port <1–65535>	Radius accounting port
host	RADIUS host
key	RADIUS shared secret
port <1–65535>	RADIUS UDP port
retry <1–5>	RADIUS retry attempts
secondary	Set as RADIUS secondary host
timeout <1-60>	RADIUS time-out period
used-by {eapol | non-eapol}	Application name
WORD	IPV6 address of RADIUS server

radius-server

Configure RADIUS server password fallback

Syntax

- `radius-server password fallback`
- `no radius-server password fallback`
- `default radius-server password fallback`
- `radius-server encapsulation ms-chap-v2`
- `default radius-server encapsulation ms-chap-v2`
- `no radius-server encapsulation ms-chap-v2`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`password fallback`	RADIUS password fallback
`encapsulation ms-chap-v2`	Configure ms-chap-v2 encapsulation protocol

radius use-management-ip

Enable Radius use-management-ip flag

Syntax

- `radius use-management-ip`
- `no radius use-management-ip`
- `default radius use-management-ip`

Default

None

Command mode

Global configuration mode

rate-limit

Configures rate-limiting on the port.

Syntax

- `rate-limit [port <portlist>] {multicast <pct> | broadcast <pct> | both <pct>}`
- `no rate-limit [port <portlist>]`
- `default rate-limit [port <portlist>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`both <pct>`	Apply rate-limiting to both multicast and broadcast. Enter an integer from 1–10 to set the rate-limiting percentage.
`broadcast <pct>`	Apply rate-limiting to broadcast packets. Enter an integer from 1–10 to set the rate-limiting percentage.
`multicast <pct>`	Apply rate-limiting to multicast packets. Enter an integer from 1–10 to set the rate-limiting percentage.
`port <portlist>`	Specify the port numbers to configure for rate-limiting. Enter the port numbers to configure. If you omit this parameter, the system uses the port number you specified in the interface command.

redistribute

Configures OSPF route redistribution.

Syntax

- `redistribute <route_type> [enable] [route-policy <rmap_name>] [metric <metric_value>] [metric-type <metric_type>] [subnets <subnet_setting>]`
- `default redistribute <route_type> [enable] [route-policy ] [metric ] [metric-type ] [subnets]`
- `no redistribute <route_type> [enable] [route-policy ]`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
<route_type>	Specifies the source protocol to be redistributed. Valid options are bgp, direct, rip, and static.
enable	Enables this OSPF redistribute policy
metric <metric_value>	Specifies the metric value to associate with the route redistribution. This is an integer value between 0 and 65535.
metric-type <metric_type>	Specifies the metric type to associate with the route redistribution. Valid options are type1 and type2.
no	Disables an OSPF route policy or OSPF route redistribution completely.
route-policy <rmap_name>	route-policy <rmap_name>
subnets <subnet_setting>	Specifies the subnet advertisement setting of this route redistribution. This determines whether individual subnets are advertised. Valid options are allow and suppress.

redistribute (BGP Router Configuration)

Configures BGP route redistribution.

Syntax

- `redistribute <route_type> [enable] [route-policy <rmap_name>] [metric <metric_value>]`
- `default redistribute <route_type> [enable] [route-policy ] [metric ]`
- `no redistribute <route_type> [enable] [route-policy ]`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
<route_type>	Specifies the source protocol to be redistributed. Valid options are direct, ospf, rip, and static.
enable	Enable route redistribution entry.
metric <metric_value>	Specifies the metric value to associate with the route redistribution. This is an integer value between 0 and 65535.
route-policy <rmap_name>	route-policy <rmap_name>

reload

Reload the switch/stack

Syntax

- `reload {cancel | force minutes-to-wait <1-60> | minutes-to-wait <1-60>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`cancel`	Cancel a previous scheduled reload
`force`	Do not ask for confirmation
`minutes-to-wait <1-60>`	Minutes to wait before reboot

renew

Renew DHCP lease

Syntax

- `renew dhcp`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
dhcp	Renew DHCP lease

renumber

Renumber unit numbers in a stack

Syntax

- `renumber unit`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`unit`	Renumber unit numbers in a stack

restore

Reset the switch/stack to factory default

Syntax

- `restore factory-default [-y]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`factory-default`	Reset stack/switch to factory default configurations
`-y`	Do not prompt

rfc1583-compatibility

Configures OSPF RFC 1583 compatibility.

Syntax

- `[default] [no] rfc1583-compatibility [enable]`

Default

None

Command mode

OSPF Router Configuration

rip

Set the maximum number of ECMP path for "rip" protocol

Syntax

- `rip maximum-path <1-4>`
- `no rip maximum-path`
- `default rip maximum-path`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`maximum-path <1-4>`	Set the maximum number of ECMP path

rmon alarm

Create RMON Alarm entries

Syntax

- `rmon alarm <1-65535> <WORD> <1-2147483647> {absolute | delta} [rising-threshold <-2147483648-2147483647>] [<1-65535>] [falling-threshold <-2147483648-2147483647>] [<1-65535>] [owner <LINE>]`
- `no rmon alarm <1-65535>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-2147483647>	Sampling interval (seconds)
<1-65535>	Index of entry
<1-65535>	falling event index
<1-65535>	rising event index
absolute	Absolute sampling type
delta	Delta sampling type
falling-threshold <-2147483648-2147483647>	Specify falling threshold values
owner <LINE>	Specify owner string
rising-threshold <-2147483648 - 2147483647>	Specify rising threshold values
WORD	Alarm variable (OID)

rmon event

Create RMON Event entries

Syntax

- `rmon event <1-65535> [log] [trap] [description <LINE>] [owner <LINE>] [community <LINE>]`
- `no rmon event <1-65535>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-65535>	Index of entry
community <LINE>]	Specify community string
description <LINE>]	Specify description of event
log	Specify events should be logged
owner <LINE>	Specify owner string
trap	Specify that events should generate traps

rmon history

Create RMON History entries

Syntax

- `rmon history <1-65535> <LINE> <1-65535> <1-3600> [owner <LINE>]`
- `no rmon history <1-65535>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-3600>	Sampling interval (seconds)
<1-65535>	Index of entry
LINE <1-65535>	Data source (port number)
owner <LINE>	Specify owner string

rmon stats

Create RMON Stats entries

Syntax

- `rmon stats <1-65535> <LINE> [owner <LINE>]`
- `no rmon stats <1-65535>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-65535>	Index of entry
LINE	Data source (port number)
owner <LINE>	Specify owner string

route-map

Add/modify an IP route policymap

Syntax

- `route-map <WORD> [permit | deny] <1-65535> [enable] [match {as-path <WORD> | community <WORD> | community-exact [enable] | interface <WORD> | local-preference <0-2147483647> | metric <0-65535> | network <WORD> | next-hop <WORD> | protocol <LINE> | route-source <WORD> | route-type <any | external | external-1 | external-2 | internal |local>}] [name <WORD>] [set {as-path <WORD> | as-path-mode <prepend | tag> | community <WORD> | community-mode <additive | none | unchanged > | injectlist <WORD> | local-preference <0-65535> | mask {A.B.C.D} | metric <0-65535> | metric-type <type 1 | type 2> | next-hop <A.B.C.D> | origin <egp | igp | incomplete> | weight <0-65535> | nssa-pbit enable}]`
- `no route-map <WORD> <1-65535> [enable] [match {as-path <WORD> | community <WORD> | community-exact [enable] | interface | local-preference | metric | network | next-hop | protocol | route-source | route-type}] [set {as-path <WORD> | as-path-mode | community <WORD> | community-mode | injectlist | local-prefernce | mask | metric | next-hop | nssa-pbit enable | origin | weight}]`
- `default route-map <WORD> <1-65535> [enable] [match {interface | metric | network | next-hop | protocol | route-source | route-type}] [set {injectlist | ip-preference | mask | metric | metric-type | nssa-pbit enable}]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<1-65535>`	Index used to identify a specific policy in the route policy group
`deny`	Deny the route policy
`enable`	Enable route map policy
`injectlist <WORD>`	Specifies the prefix list to be used either for injecting the routes into the routing table or to include the networks in the advertisement.
`interface <WORD>`	Set match received interface.(Only for rip routes. Ignored in
`ip-preference <0-255>`	Specifies the route preference value to be assigned to the routes that this policy applies to
`mask {A.B.C.D}`	Set Mask Ip Address

match	Configure match criteria
metric <0-65535>	Set match the metric field in the incoming advertisement
metric <0-65535>	Set metric used while sending an update for the routes that match the matching criteria in this route policy
metric-type <type 1 | type 2>	Set metric type for the routes to be imported into OSPF routing protocol, which passed the matching criteria configured in this route policy
network <WORD>	Set match network (can specify one or more prefix list name)
next-hop <WORD>	Set the next hop (RIP interface)
nssa-pbit	Set P bit in specified type 7 LSA
permit	Permit the route policy
protocol <LINE>	Set match protocol
route-source <WORD>	Set route source (on RIP is RIP interface)
route-type <any | external | external-1 | external-2 | internal |local>	Set route type
WORD	Name used to group a set of policies with different sequence number

router bgp

Change router bgp mode configuration

Syntax

- `router bgp enable`
- `router bgp <0-65535>`
- `no router bgp enable`
- `default router bgp enable`

Default

None

Command mode

Global configuration mode

route-reflector

Enable reflection of routes from IBGP neighbors

Syntax

- `route-reflector enable`
- `default route-reflector [enable]`
- `no route-reflector [enable]`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
enable	Enables the reflection of routes from iBGP neighbors. Default is enable.

router-id

Configures the router ID.

Syntax

- `router-id <router_id>`
- `no router-id`
- `default router-id`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
`<router_id>`	Specifies the unique identifier for the router.
`no`	Resets the router ID to 0.0.0.0.

router-id (BGP Router Configuration)

Configures the router ID.

Syntax

- `router-id <A.B.C.D>`
- `default router-id`
- `no router-id`

Default

None

Command mode

BGP Router Configuration

Command parameters

Parameter	Description
<A.B.C.D>	Specifies the BGP router ID in IP address format.

router ospf

Change OSPF config settings

Syntax

- `router ospf enable`
- `no router ospf enable`
- `default router ospf enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable OSPF config settings

router rip

Change RIP config settings

Syntax

- `router rip enable`
- `no router rip enable`
- `default router rip enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable RIP config settings

router vrf

Change VRF config settings

Syntax

- `router vrf <WORD>`

Default

None

Command mode

Global configuration mode

router vrrp

Change VRRP config settings

Syntax

- `router vrrp enable`
- `no router vrrp enable`
- `default router vrrp enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable VRRP config settings

run (Privileged EXEC mode)

Specialized scripted CLI commands for automated configuration

Syntax

- `run {adac | ipoffice verbose | lldp}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
adac	Scripted CLI commands for ADAC setup
ipoffice	Scripted CLI commands for setup with IP Office solutions
lldp	Scripted CLI commands for LLDP setup
verbose	User input prompted CLI command script for IP Office solution setup

run (User Exec)

Specialized scripted CLI commands for automated configuration

Syntax

- `run {adac | ipoffice verbose | lldp}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
adac	Scripted CLI commands for ADAC setup
ipoffice	Scripted CLI commands for setup with IP Office solutions
lldp	Scripted CLI commands for LLDP setup
verbose	User input prompted CLI command script for IP Office solution setup

save

Write configuration to nvram

Syntax

- `save config`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
config	Save configuration to local NV storage

serial-console

Enable serial console port

Syntax

- `serial-console [unit <1-8>] [enable]`
- `no serial-console [unit <1-8>] [enable]`
- `default serial-console serial-console [unit <1-8>] [enable]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable serial console port access
`unit <1-8>`	Unit number

serial-security

Serial security settings

Syntax

- `serial-security enable`
- `no serial-security enable`
- `default serial-security enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable serial security

sftp-server

Configure the SFTP server

Syntax

- `sftp-server {<A.B.C.D> | <WORD>]`
- `default sftp-server`
- `no sftp-server`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<A.B.C.D> | <WORD>	IPv4 or IPv6 address of SFTP server

shared-port

Configures shared-port setting.

Syntax

- `shared-port [port <portlist>] {auto-select |force-copper | force-fiber}`
- `default shared-port [port <portlist>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`auto-select`	Auto-select copper or fiber shared port.
`force-copper`	Force use of copper shared port.
`force-fiber`	Force use of fiber shared port.
`port <portlist>`	Specifies a port or list of ports.

show adac

Display ADAC configuration

Syntax

- `show adac`

Default

None

Command mode

Privileged EXEC mode

show adac detection

Display detection mechanisms

Syntax

- `show adac detection interface [ethernet] <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
Ethernet	Ethernet IEEE 802.3
interface	Select interfaces for which to display detection mechanisms

show adac interface

Display configuration for specified interfaces

Syntax

- `show adac interface [ethernet] <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
Ethernet	Ethernet IEEE 802.3

show adac mac-range-table

Display the supported MAC address ranges

Syntax

- `show adac mac-range-table`

Default

None

Command mode

Privileged EXEC mode

show application (Privileged EXEC mode)

Display settings for various applications

Syntax

- `show application slamon agent`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`agent`	Display SLAMon agent settings
`slamon`	Display SLAMon settings

show application (User Exec)

Display settings for various applications

Syntax

- `show application slamon agent`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
agent	Display SLAMon agent settings
slamon	Display SLAMon settings

show arp (Privileged EXEC mode)

Display ARP entries

Syntax

- `show arp {[vlan <1-4094>] [{dynamic | static }] {-s {A.B.C.D} <subnet-mask>} | {A.B.C.D} | <H.H.H> } | summary}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
{A.B.C.D}	IP addr of ARP entry to be displayed
<H.H.H>	MAC addr of ARP entry to be displayed (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
<subnet-mask>	Subnet mask
dynamic	include dynamic ARP entries without a valid route
-s	specify IP and subnet of ARP entries to be displayed
static	include static ARP entries without a valid route
summary	Display summary of ARP entries
vlan <1-4094>	Display ARP entries for a specific VLAN

show arp-table (Privileged EXEC mode)

Display system ARP table

Syntax

- `show arp-table`
- `show auto-pvid`

Default

None

Command mode

Privileged EXEC mode

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show arp-table (User Exec)

Display system ARP table

Syntax

- `show arp-table [mgmt-port]`
- `show auto-pvid`

Default

None

Command mode

User Exec

show arp (User Exec)

Display ARP entries

Syntax

- `show arp [vlan <1-4094>] [vrf <vrf_name>] [vrfids <LINE>][<ip-addr>] [-s <subnet> <mask>] [static <ip-addr> [-s <subnet> <mask>]] [dynamic <ip-addr> [-s <subnet> <mask>]] [<H.H.H>] [summary]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`<ip-addr>`	IP addr of ARP entry to be displayed
`dynamic <ip-addr>`	include dynamic ARP entries without a valid route
`H.H.H`	MAC addr of ARP entry to be displayed (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
`-s <subnet>`	specify IP and subnet of ARP entries to be displayed
`static <ip-addr>`	include static ARP entries without a valid route
`summary`	Display summary of ARP entries
`vlan <1-4094>`	Display ARP entries for a specific VLAN
`vrf <vrf_name>`	Specify VRF name
`vrfids <LINE>`	Specify VRF IDs

show audit

Display audit settings

Syntax

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
asccfg	Display audit log for ASCII configuration
config	Display audit log save config
log	Display audit log
serial	Display audit log for serial connection
telnet	Display audit log for telnet/ssh

show auto-negotiation-advertisements

Display current auto-negotiation advertisement settings

Syntax

- `show auto-negotiation-advertisements port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
port	Display auto-negotiation-advertisements configuration for specified ports

show auto-negotiation-capabilities

Display current auto-negotiation advertisement capabilities

Syntax

- `show auto-negotiation-capabilities port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
port	Display auto-negotiation-capabilities for specified ports

show auto-pvid (Privileged EXEC mode)

Show Auto-PVID mode

Syntax

Default

None

Command mode

Privileged EXEC mode

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show auto-pvid (User Exec)

Show Auto-PVID mode

Syntax

Default

None

Command mode

User Exec

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show autosave

Display current autosave setting

Syntax

- `show autosave`

Default

None

Command mode

Privileged EXEC mode

show autotopology

Display autotopology information

Syntax

- `show autotopology {nmm-table | settings}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`nmm-table`	Display autotopology NMM table
`settings`	Display autotopology global settings

show banner

Show banner information

Syntax

- `show banner {custom | static}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`custom`	Display custom banner
`static`	Display static banner

show boot (Privileged EXEC mode)

Show boot settings

Syntax

- `show boot [diag | image [primary | secondary]]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
diag	Display information about the diag images
image	Display information about images

show boot (User Exec)

Display boot settings

Syntax

- `show boot [diag | image [primary | secondary]]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
diag	Display information about the diag images
image	Display information about images
primary	Show primary image software version
secondary	Show secondary image software version

show brouter (Privileged EXEC mode)

Display brouter ports information

Syntax

- `show brouter [port <LINE>] [vrf <WORD>][vrfids <LINE>]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
LINE	List of ports
port	Select port for operation

show brouter (User Exec)

Display brouter ports information

Syntax

- `show brouter [port <LINE>][vrf <WORD>][vrfids <LINE>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`port <LINE>`	Select port for operation

show cli info

Display general Console settings

Syntax

- `show cli info`

Default

None

Command mode

Privileged EXEC mode

show cli list

Display CLI tree list

Syntax

- `show cli list [verbose] [mode {application | config | current | exec | ifconfig | interface <Ethernet | loopback | vlan> | privExec | router <bgp|ospf|rip|vrf|vrrp>}]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
application	Show commands available in Application Configuration Mode
bgp	Show commands available in BGP Router Configuration Mode
config	Show commands available in Global Configuration Mode
current	Show commands available in current configuration mode
Ethernet	Show commands available in Ethernet Interface Configuration Mode
exec	Show commands available in executive mode
ifconfig	Show commands available in Interface Configuration Mode
interface	Show commands available in Interface Configuration Modes
loopback	Show commands available in Loopback Interface Configuration Modes
mode	Show commands available on specific mode
ospf	Show commands available in OSPF Router Configuration Mode
privExec	Show commands available in Privileged Executive Mode
rip	Show commands available in RIP Router Configuration Mode
router	Show commands available in Router Configuration Mode
verbose	Lists CLI tree and all commands syntax
vlan	Show commands available in VLAN Interface Configuration Mode
vrf	Show commands available in VRF Router Configuration Mode
vrrp	Show commands available in VRRP Router Configuration Mode

show cli mode

Display information about current CLI mode

Syntax

- `show cli mode`

Default

None

Command mode

Privileged EXEC mode

show cli password

Display CLI usernames and passwords

Syntax

- `show cli password type`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
type	Display passwords types

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show clock

Display current time

Syntax

- `show clock {detail | summer-time | time-zone}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`detail`	Addition to displaying current time, display all time source current value and RTC configuration
`summer-time`	Show daylight saving time settings
`time-zone`	Show local time zone settings

show cmd-interface

Display default interface

Syntax

- `show cmd-interface`

Default

None

Command mode

Privileged EXEC mode

show config-network

Show settings for downloading config files

Syntax

- `show config-network`

Default

None

Command mode

Privileged EXEC mode

show config-usb-loadonboot

Show settings for downloading config files

Syntax

- `show config-usb-loadonboot`

Default

None

Command mode

User Exec

show copper-sfp

Display copper SFP settings

Syntax

- `show copper-sfp {device-capability | multispeed }`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`device-capability`	Display copper SFT speed capabilities
`multispeed`	Display copper SFP multispeed settings

show cpu-utilization (Privileged EXEC mode)

Display CPU utilization info

Syntax

- `show cpu-utilization unit <1-8>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`unit <1-8>`	Unit number

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show cpu-utilization (User Exec)

Display CPU utilization info

Syntax

- `show cpu-utilization unit <1-8>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`unit <1-8>`	Unit number

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show eapol

Display current settings of the EAPOL protocol

Syntax

- `show eapol {auth-diags interface <LINE> | auth-stats interface <LINE> | guest-vlan interface <LINE> | multihost{dummy-adac-radius-requests | fail-open-vlan interface <LINE> | multivlan | non-eap-mac{interface <LINE>|status <LINE>} | non-eap-pwd-fmt key | status [LINE] verbose | voip-vlan} | port <LINE> | summary interface <LINE>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
auth-diags	Display EAPOL diags
auth-stats	Display EAPOL statistics
dummy-adac-radius-requests	Show dummy radius requests status
fail-open-vlan	Display EAPoL multihost fail-open-vlan settings
guest-vlan	Display EAPOL guest-vlan settings
interface	Display EAPOL multihost port configuration
interface <LINE>	Select interfaces to be displayed
key	Show Non-EAP Password Key
multihost	Display EAPOL multi-host information
multivlan	Display EAPOL multihost multiVlan settings
non-eap-mac{interface <LINE>|status <LINE>}	Display allowed non-EAPoL MAC addresses
non-eap-pwd-fmt	Show Non-EAP Password Format
port	Display EAPOL configuration for specified ports
status	Display EAPOL multihost port status
summary	Display summary of authenticated clients
verbose	Display detailed EAPOL multihost port status
voip-vlan	Display EAPoL multihost voip-vlan settings

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show ecmp (Privileged EXEC mode)

Display ECMP settings

Syntax

- `show ecmp`

Default

None

Command mode

Privileged EXEC mode

show ecmp (User Exec)

Display ECMP settings

Syntax

- `show ecmp`

Default

None

Command mode

User Exec

show edm (Privileged EXEC mode)

Display EDM configuration

Syntax

- `show edm {help-file-path | inactivity-timeout}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`help-file-path`	Display EDM help file path
`inactivity-timeout`	Display EDM inactivity timeout

show edm (User Exec)

Display EDM configuration

Syntax

- `show edm {help-file-path | inactivity-timeout}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`help-file-path`	Display EDM help file path
`inactivity-timeout`	Display EDM inactivity timeout

show energy-saver interface (Privileged EXEC mode)

Display per-port energy saver settings and status

Syntax

- `show energy-saver interface <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports

show energy-saver interface (User Exec)

Display per-port energy saver settings and status

Syntax

- `show energy-saver interface <LINE>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<LINE>	List of ports

show energy-saver (Privileged EXEC mode)

Display energy saver settings and status

Syntax

- `show energy-saver`

Default

None

Command mode

Privileged EXEC mode

show energy-saver savings (Privileged EXEC mode)

Display energy saver power savings

Syntax

- `show energy-saver savings`

Default

None

Command mode

Privileged EXEC mode

show energy-saver savings (User Exec)

Display energy saver power savings

Syntax

- `show energy-saver savings`

Default

None

Command mode

User Exec

show energy-saver schedule (Privileged EXEC mode)

Display energy saver activation/deactivation schedule

Syntax

- `show energy-saver schedule`

Default

None

Command mode

Privileged EXEC mode

show energy-saver schedule (User Exec)

Display energy saver activation/deactivation schedule

Syntax

- `show energy-saver schedule`

Default

None

Command mode

User Exec

show energy-saver (User Exec)

Display energy saver settings and status

Syntax

- `show energy-saver`

Default

None

Command mode

User Exec

show environmental (Privileged EXEC mode)

Display environmental information

Syntax

- `show environmental`

Default

None

Command mode

Privileged EXEC mode

show environmental (User Exec)

Display environmental information

Syntax

- `show environmental`

Default

None

Command mode

User Exec

show flash (Privileged EXEC mode)

Display FLASH information

Syntax

- `show flash [history] unit <1-8>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
history	Display FLASH writes
unit <1-8>	Unit number

show flash (User Exec)

Display FLASH information.

Syntax

- `show flash [history] unit <1-8>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`history`	Display FLASH writes
`unit <1-8>`	Unit number

show http-port

Display the TCP port on which web server will listen

Syntax

- `show http-port`

Default

None

Command mode

Privileged EXEC mode

show interfaces (Privileged EXEC mode)

Show interface status and configuration

Syntax

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
admin-disabled	Display the admin disabled interfaces
admin-enabled	Display the admin enabled interfaces
config	Show interfaces configuration
gbic-info	Display gbic details
link-down	Display the interfaces with link down
link-up	Display the interfaces with link up
names	Display interface names
verbose	Display port status information for several applications
verbose	Display port status information for several applications

show interfaces (User Exec)

Show interface status and configuration

Syntax

- `show interfaces [admin-disabled <LINE>] [admin-enabled <LINE>] [gbic-info <LINE>] [LINE {config | verbose}] [link-down <LINE>] [link-up <LINE>][loopback <1-16>] [names <LINE>] [verbose] [vrf <LINE>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`admin-disabled <LINE>`	Display the admin disabled interfaces
`admin-enabled <LINE>`	Display the admin enabled interfaces
`config`	Show interfaces configuration
`gbic-info <LINE>`	Display gbic details
`LINE {config | verbose}`	List of ports
`link-down <LINE>`	Display the interfaces with link down
`link-up <LINE>`	Display the interfaces with link up
`loopback <1-16>`	Show loopback interface information
`names <LINE>`	Display interface names
`verbose`	Display port status information for several applications
`vrf <LINE>`	Display port-vrf association

show ip arp-inspection interface (Privileged EXEC mode)

Display ARP inspection port information

Syntax

- `show ip arp-inspection interface [ethernet] <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
Ethernet	Ethernet IEEE 802.3

show ip arp-inspection interface (User Exec)

Display ARP inspection port information

Syntax

- `show ip arp-inspection interface [Ethernet] [LINE]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
Ethernet	Ethernet IEEE 802.3
LINE	List of ports

show ip arp-inspection (Privileged EXEC mode)

Display ARP inspection information

Syntax

- `show ip arp-inspection vlan <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	VLAN list
vlan	Display ARP inspection VLAN information

show ip arp-inspection (User Exec)

Display ARP inspection VLAN information

Syntax

- `show ip arp-inspection vlan <LINE>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`vlan <LINE>`	Display ARP inspection VLAN information

show ip arp-proxy (Privileged EXEC mode)

Display Proxy ARP status

Syntax

- `show ip arp-proxy interface vlan <1-4094>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`interface`	Display interface configuration
`vlan <1-4094>`	Layer 3 IP VLAN

show ip arp-proxy (User Exec)

Display Proxy ARP status

Syntax

- `show ip arp-proxy interface vlan <1-4094>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`interface`	Display interface configuration
`vlan <1-4094>`	Layer 3 IP VLAN

show ip as-list (User Exec)

Display the config information of as-map list

Syntax

- `show ip as-list <1-1024>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<1-1024>	Specify list ID

show ip bgp (User Exec)

Display BGP commands

Syntax

- `show ip bgp { aggregates <A.B.C.D>/<0-32> | cidr-only <A.B.C.D>/<0-32> | conf | imported-routes [<A.B.C.D>/<0-32>][longer-prefixes] | neighbors [<A.B.C.D>] | networks [<A.B.C.D>/<0-32>] | peer-group [<peer_group_name>] | redistribute | route [<A.B.C.D>/<0-32>][community {disable | enable | ip <A.B.C.D>]][ip <A.B.C.D>]][longer-prefixes] | stats | summary`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`aggregates <A.B.C.D>/<0-32>`	Disply information about current aggregate addresses
`cidr-only <A.B.C.D>/<0-32>`	Display all CIDR routes learned by BGP
`conf`	Display the current BGP configuration
`imported-routes [<A.B.C.D>/<0-32>][longer-prefixes]`	Display the routes redistributed into BGP
`neighbors [<A.B.C.D>]`	Display information about BGP peers
`networks [<A.B.C.D>/<0-32>]`	Display the networks configured
`peer-group [<peer_group_name>]`	Display the peer groups configured
`redistribute`	Display the current BGP redistribution configuration
`route [<A.B.C.D>/<0-32>][community {disable | enable | ip <A.B.C.D>]][ip <A.B.C.D>]][longer-prefixes]`	Display the list of BGP routes
`stats`	Display global configuration
`summary`	Display BGP summary information

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show ip-blocking

Display the Layer 3 IP blocking state

Syntax

- `show ip-blocking`

Default

None

Command mode

Privileged EXEC mode

show ip blocking-mode (Privileged EXEC mode)

Display the Layer 3 IP blocking mode

Syntax

- `show ip blocking-mode`

Default

None

Command mode

Privileged EXEC mode

show ip blocking-mode (User Exec)

Display the Layer 3 IP blocking mode

Syntax

- `show ip blocking-mode`

Default

None

Command mode

User Exec

show ip-blocking (User Exec)

Display the Layer 3 IP blocking state

Syntax

- `show ip-blocking`

Default

None

Command mode

User Exec

show ip community-list (User Exec)

Display the config information of community list

Syntax

- `show ip community-list [<1-1024>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<1-1024>	List ID

show ip default-ttl (Privileged EXEC mode)

Display default TTL

Syntax

- `show ip default-ttl`

Default

None

Command mode

Privileged EXEC mode

show ip default-ttl (User Exec)

Display default TTL

Syntax

- `show ip default-ttl`

Default

None

Command mode

User Exec

show ip dhcp (Privileged EXEC mode)

Display DHCP settings

Syntax

- `show ip dhcp client lease`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
client	DHCP client
lease	DHCP client lease

show ip dhcp-relay

Display DHCP relay information

Syntax

- `show ip dhcp-relay`
- `show ip dhcp-relay`

Default

None

Command mode

Privileged EXEC mode

show ip dhcp-relay counters (Privileged EXEC mode)

Display DHCP relay statistics

Syntax

- `show ip dhcp-relay counters [vrf [<vrf_name>]][vrfids <vrf_IDs>]`

Default

None

Command mode

Privileged EXEC mode

show ip dhcp-relay counters (User Exec)

Display DHCP relay statistics

Syntax

- `show ip dhcp-relay counters [vrf [<vrf_name>]][vrfids <vrf_IDs>]`

Default

None

Command mode

User Exec

show ip dhcp-relay fwd-path (Privileged EXEC mode)

Display DHCP relay global configuration

Syntax

- `show ip dhcp-relay fwd-path [summary] [vrf[ <vrf_name>]][vrfids <vrf_IDs>]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
summary	Display DHCP relay fwd-path summary

show ip dhcp-relay fwd-path (User Exec)

Display DHCP relay global configuration

Syntax

- `show ip dhcp-relay fwd-path [summary] [vrf[ <vrf_name>]][vrfids <vrf_IDs>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
summary	Display DHCP relay fwd-path summary

show ip dhcp-relay interface

Display DHCP relay per-interface configuration

Syntax

- `show ip dhcp-relay interface {Ethernet <LINE> | vlan <LINE> | vrf [<vrf_name>]| vrfids <vrf_IDs>}`
- `show ip dhcp-relay interface {Ethernet <LINE> | vlan <LINE> | vrf [<vrf_name>]| vrfids <vrf_IDs>}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<LINE>	List of ports
Ethernet	Ethernet IEEE 802.3
Ethernet <LINE>	Ethernet IEEE 802.3
vlan	VLAN interface
vlan <LINE>	VLAN interface

show ip dhcp-snooping binding (Privileged EXEC mode)

Display DHCP snooping binding table

Syntax

- `show ip dhcp-snooping binding summary`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
summary	Display DHCP snooping binding table summary

show ip dhcp-snooping binding (User Exec)

Display DHCP snooping binding table

Syntax

- `show ip dhcp-snooping binding summary`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
summary	Display DHCP snooping binding table summary

show ip dhcp-snooping external-save (Privileged EXEC mode)

Display current operating state of DHCP snooping external save

Syntax

- `show ip dhcp-snooping external-save`

Default

None

Command mode

Privileged EXEC mode

show ip dhcp-snooping external-save (User Exec)

Display current operating state of DHCP snooping external save

Syntax

- `show ip dhcp-snooping external-save`

Default

None

Command mode

User Exec

show ip dhcp-snooping interface (Privileged EXEC mode)

Display DHCP snooping port information

Syntax

- `show ip dhcp-snooping interface [ethernet] <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
Ethernet	Ethernet IEEE 802.3

show ip dhcp-snooping interface (User Exec)

Display DHCP snooping port information

Syntax

- `show ip dhcp-snooping interface [Ethernet] [LINE]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
Ethernet	Ethernet IEEE 802.3
LINE	List of ports

show ip dhcp-snooping (Privileged EXEC mode)

Display DHCP snooping information

Syntax

- `show ip dhcp-snooping`

Default

None

Command mode

Privileged EXEC mode

show ip dhcp-snooping (User Exec)

Display DHCP snooping information

Syntax

- `show ip dhcp-snooping`

Default

None

Command mode

User Exec

show ip dhcp-snooping vlan (Privileged EXEC mode)

Display DHCP snooping VLAN information

Syntax

- `show ip dhcp-snooping vlan <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	VLAN list

show ip dhcp-snooping vlan (User Exec)

Display DHCP snooping VLAN information

Syntax

- `show ip dhcp-snooping vlan <LINE>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<LINE>	VLAN list

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show ip dhcp (User Exec)

Display DHCP settings

Syntax

- `show ip dhcp client lease`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`client lease`	DHCP client lease

show ip directed-broadcast (Privileged EXEC mode)

Display directed-broadcast forwarding mode

Syntax

- `show ip directed-broadcast [interface [vlan [<1-4094>]][vrf <WORD>][vrfids <LINE>]`

Default

None

Command mode

Privileged EXEC mode

show ip directed-broadcast (User Exec)

Display directed-broadcast forwarding mode

Syntax

- `show ip directed-broadcast [interface [vlan [<1-4094>]][vrf <WORD>][vrfids <LINE>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`interface vlan [<1-4094>]`	Display interface configuration
`vrf <WORD>`	Display IP directed-broadcast for a VRF
`vrfids <LINE>`	Display IP directed-broadcast for VRF IDs

show ip dns (Privileged EXEC mode)

Display DNS configuration

Syntax

- `show ip dns`

Default

None

Command mode

Privileged EXEC mode

show ip dns (User Exec)

Display DNS configuration

Syntax

- `show ip dns`

Default

None

Command mode

User Exec

show ip forward-protocol (Privileged EXEC mode)

Display broadcast forwarding settings

Syntax

- `show ip forward-protocol udp [portfwdlist <1-128>] interface vlan <1-4094>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`interface`	Display interface configuration
`portfwdlist`	Shows UDP fwdlists configured
`udp`	Shows UDP ports configured
`vlan <1-4094>`	Layer 3 IP VLAN

show ip forward-protocol (User Exec)

Display broadcast forwarding settings

Syntax

- `show ip forward-protocol udp [portfwdlist <1-128>] [interface] [vlan <1-4094>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`interface`	Display interface configuration
`portfwdlist <1-128>`	Shows UDP fwdlists configured
`udp`	Shows UDP ports configured
`vlan <1-4094>`	Layer 3 IP VLAN

show ip fwd-nh

Display IP forwarding next-hop settings

Syntax

- `show ip fwd-nh [policy [<WORD>][interface [vlan <1-4094>]]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`policy [<WORD>]`	Display IP forwarding next-hope policies
`interface`	Display IP forwarding next-hop per-interface settings
`vlan <1-4094>`	Select a VLAN interface

show ip igmp cache

Display IGMP cache details

Syntax

- `show ip igmp cache`

Default

None

Command mode

Privileged EXEC mode

show ip igmp group

Display IGMP group details

Syntax

- `show ip igmp group [count] [member-subnet A.B.C.D/<0-32>] [group {A.B.C.D}]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`count`	Display count of entries
`group {A.B.C.D}`	Select group
`member-subnet A.B.C.D/<0-32>`	Select member subnet

show ip igmp group-ext

Display IGMP extended group details

Syntax

- `show ip igmp group-ext [count] [member-subnet A.B.C.D/<0-32>] [group {A.B.C.D}] [source {A.B.C.D}]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`count`	Display count of entries
`group {A.B.C.D}`	Select group
`member-subnet A.B.C.D/<0-32>`	Select member subnet
`source {A.B.C.D}`	Select source address

show ip igmp interface

Display IGMP interface information

Syntax

- `show ip igmp interface vlan <1-4094>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`vlan <1-4094>`	Display VLAN interfaces

show ip igmp multicast-filter-mode

Show IGMP multicast filter mode

Syntax

- `show ip igmp multicast-filter-mode`

Default

None

Command mode

Privileged EXEC mode

show ip igmp profile

Display IGMP filter profiles

Syntax

- `show ip igmp profile <1-65535>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-65535>	profile ID

show ip igmp router-alert

Display router-alert settings

Syntax

- `show ip igmp router-alert vlan <1-4094>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`vlan <1-4094>`	Display VLAN interfaces

show ip igmp snooping

Display IGMP snooping information

Syntax

- `show ip igmp snooping`

Default

None

Command mode

Privileged EXEC mode

show ip igmp ssm

Display global SSM settings

Syntax

- `show ip igmp ssm`

Default

None

Command mode

Privileged EXEC mode

show ip igmp ssm-map

Display SSM map/channel settings

Syntax

- `show ip igmp ssm-map`

Default

None

Command mode

Privileged EXEC mode

show ip ipfix collector (Privileged EXEC mode)

Display IPFIX collectors

Syntax

- `show ip ipfix collector {A.B.C.D}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
{A.B.C.D}	Collector address

show ip ipfix collector (User Exec)

Display IPFIX collectors

Syntax

- `show ip ipfix collector {A.B.C.D}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
{A.B.C.D}	Collector address

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show ip ipfix interface (Privileged EXEC mode)

Display IPFIX per-port settings

Syntax

- `show ip ipfix interface <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	list of ports

show ip ipfix interface (User Exec)

Display IPFIX per-port settings

Syntax

- `show ip ipfix interface <LINE>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<LINE>	list of ports

show ip ipfix (Privileged EXEC mode)

Display IPFIX settings

Syntax

- `show ip ipfix`

Default

None

Command mode

Privileged EXEC mode

show ip ipfix slot (Privileged EXEC mode)

Display IPFIX per-slot/unit settings

Syntax

- `show ip ipfix slot <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	slot list (1 for standalone; 1- n for n high stack)

show ip ipfix slot (User Exec)

Display IPFIX per-slot/unit settings

Syntax

- `show ip ipfix slot <LINE>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<LINE>	slot list (1 for standalone; 1- n for n high stack)

show ip ipfix table (Privileged EXEC mode)

Display IPFIX table

Syntax

- `show ip ipfix table sort-by {byte-count | dest-addr | first-pkt-time | last-pkt-time | pkt-count | port | protocol | source-addr | TCP-UDP-dest-port | TCP-UDP-scr-port | TOS} sort-order {ascending | descending} display {all | top-10 | top-100 | top-200 | top-25 | top-50}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
all	Display all entries
ascending	Ascending order
byte-count	Byte number
descending	Descending order
dest-addr	Destination address
display	Enter number of entries to display
first-pkt-time	First packet time
last-pkt-time	Last packet time
pkt-count	Packet number
port	Port number
protocol	Protocol number
sort-by	Select sort rule
sort-order	Set sort order
source-addr	Source address
TCP-UDP-dest-port	TCP/UDP destination port
TCP-UDP-scr-port	TCP/UDP source port
top-10	Display first 10 entries
top-100	Display first 100 entries
top-200	Display first 200 entries
top-25	Display fist 25 entries

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show ip ipfix table (User Exec)

Display IPFIX table

Syntax

- `show ip ipfix table sort-by {byte-count sort-order | dest-addr | first-pkt-time | last-pkt-time | pkt-count | port | protocol | source-addr | TCP-UDP-dest-port | TCP-UDP-scr-port | TOS} [sort-order] [ascending | descending] [display] {all | top-10 | top-100 | top-200 | top-25 | top-50}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`all`	Display all entries
`ascending`	Ascending order
`byte-count`	Byte number
`descending`	Descending order
`dest-addr`	Destination address
`display`	Enter number of entries to display
`first-pkt-time`	First packet time
`last-pkt-time`	Last packet time
`pkt-count`	Packet number
`port`	Port number
`protocol`	Protocol number
`sort-by`	Select sort rule
`sort-order`	Set sort order
`source-addr`	Source address
`TCP-UDP-dest-port`	TCP/UDP destination port
`TCP-UDP-scr-port`	TCP/UDP source port
`top-10`	Display first 10 entries
`top-100`	Display first 100 entries
`top-200`	Display first 200 entries
`top-25`	Display fist 25 entries

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show ip ipfix (User Exec)

Display IPFIX settings

Syntax

- `show ip ipfix`

Default

None

Command mode

User Exec

show ip mgmt (Privileged EXEC mode)

Display management information

Syntax

- `show ip mgmt [ switch | all | route ]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
route	Display management VLAN information

show ip mgmt (User Exec)

Display management information

Syntax

- `show ip mgmt [ switch | all | route ]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`all`	Show the management IP address from all units in the stack
`route`	Display management VLAN information
`switch`	Display the management switch IP address

show ipmgr

Display IP Manager settings

Syntax

- `show ipmgr {IPv4 | IPv6}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
IPv4	Show only IPv4 information.
IPv6	Show only IPv6 information.

show ip mroute

Display general multicast information

Syntax

- `show ip mroute [interface [vlan <1-4094>]][next-hop][route]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`interface [vlan <1-4094>]`	Display muticast per-interface information and optionally per VLAN
`next-hop <WORD>`	Display multicast next-hop information
`route`	Display multicast route information

show ip netstat (Privileged EXEC mode)

Show ip tcp/udp connections and services

Syntax

- `show ip netstat {tcp | udp}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
tcp	Show ip tcp connections and services
udp	Show ip udp endpoints

show ip netstat (User Exec)

Show ip tcp/udp connections and services

Syntax

- `show ip netstat {tcp | udp}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
tcp	Show ip tcp connections and services
udp	Show ip udp endpoints

show ip ospf

Display global OSPF settings

Syntax

- `show ip ospf`

Default

None

Command mode

Privileged EXEC mode

show ip ospf accept

Display OSPF accept adv-router

Syntax

- `show ip ospf accept`

Default

None

Command mode

Privileged EXEC mode

show ip ospf accept (User Exec)

Display OSPF accept adv-router

Syntax

- `show ip ospf accept`

Default

None

Command mode

User Exec

show ip ospf area

Display OSPF area configuration

Syntax

- `show ip ospf area {A.B.C.D}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
{A.B.C.D}	Address

show ip ospf area-range

Display OSPF area range configuration

Syntax

- `show ip ospf area-range {A.B.C.D}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
{A.B.C.D}	Address

show ip ospf area-range (User Exec)

Display OSPF area range configuration

Syntax

- `show ip ospf area-range {A.B.C.D}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
{A.B.C.D}	address

show ip ospf area (User Exec)

Display OSPF area configuration

Syntax

- `show ip ospf area {A.B.C.D}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
{A.B.C.D}	address

show ip ospf ase

Display AS External link state advertisements

Syntax

- `show ip ospf ase`

Default

None

Command mode

Privileged EXEC mode

show ip ospf ase (User Exec)

Display AS External link state advertisements

Syntax

- `show ip ospf ase`

Default

None

Command mode

User Exec

show ip ospf authentication

Display interface MD5 keys

Syntax

- `show ip ospf authentication interface {[Ethernet] [<LINE>] [vlan <1-4094>]} | virtual-links`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
Ethernet	Ethernet IEEE 802.3
interface	Display interface MD5 keys
virtual-links	Display virtual link MD5 keys
vlan <1-4094>	Layer 3 IP VLAN

show ip ospf authentication (User Exec)

Display interface MD5 keys

Syntax

- `show ip ospf authentication {[interface [Ethernet] [<LINE>] [vlan <1-4094>]] | [virtual-links]}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<LINE>	List of ports
Ethernet	Ethernet IEEE 802.3
interface	Display interface MD5 keys
virtual-links	Display virtual link MD5 keys
vlan <1-4094>	Layer 3 IP VLAN

show ip ospf default-cost

Display default metric settings

Syntax

- `show ip ospf default-cost`

Default

None

Command mode

Privileged EXEC mode

show ip ospf default-cost (User Exec)

Display default metric settings

Syntax

- `show ip ospf default-cost`

Default

None

Command mode

User Exec

show ip ospf host-route

Display OSPF host routes

Syntax

- `show ip ospf host-route`

Default

None

Command mode

Privileged EXEC mode

show ip ospf host-route (User Exec)

Display OSPF host routes

Syntax

- `show ip ospf host-route`

Default

None

Command mode

User Exec

show ip ospf ifstats

Display interface statistics

Syntax

- `show ip ospf ifstats {[A.B.C.D] [mismatch] [detail]}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
A.B.C.D	Interface IP address
detail	Display detailed information
mismatch	Area ID not matched

show ip ospf ifstats (User Exec)

Display interface statistics

Syntax

- `show ip ospf ifstats [A.B.C.D] [mismatch] [detail]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
A.B.C.D	Interface IP address
detail	Display detailed information
mismatch	Area ID not matched

show ip ospf int-auth

Display interface auth type/password

Syntax

- `show ip ospf int-auth`

Default

None

Command mode

Privileged EXEC mode

show ip ospf int-auth (User Exec)

Display interface auth type/password

Syntax

- `show ip ospf int-auth`

Default

None

Command mode

User Exec

show ip ospf interface

Display interface configuration

Syntax

Default

None

Command mode

User Exec

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show ip ospf int-timers

Display timer settings of all interfaces

Syntax

- `show ip ospf int-timers`

Default

None

Command mode

Privileged EXEC mode

show ip ospf int-timers (User Exec)

Display timer settings of all interfaces

Syntax

- `show ip ospf int-timers`

Default

None

Command mode

User Exec

show ip ospf lsdb

Display OSPF link state database

Syntax

- `show ip ospf lsdb {[area {A.B.C.D}] [lsa-type {as-external-link | as-summary-link | multicast-link | network-link | nssa-extlink | router-link | summary-link}] [lsid {A.B.C.D}] [adv-rtr {A.B.C.D}] [detail {A.B.C.D}]}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`adv-rtr {A.B.C.D}`	Advertising router
`area {A.B.C.D}`	Area
`as-external-link`	AS External LSA
`as-summary-link`	AS Summary LSA
`detail {A.B.C.D}`	Display detailed lsdb information
`lsa-type`	Link state advertisment type
`lsid {A.B.C.D}`	Link state ID
`multicast-link`	Multicast LSA
`network-link`	Network LSA
`nssa-extlink`	NSSA LSA
`router-link`	Router LSA
`summary-link`	Summary LSA

show ip ospf lsdb (User Exec)

Display OSPF link state database

Syntax

- `show ip ospf lsdb [area {A.B.C.D}] [lsa-type {as-external-link | as-summary-link | multicast-link | network-link | nssa-extlink | router-link | summary-link}] [lsid {A.B.C.D}] [adv-rtr {A.B.C.D}] [detail {A.B.C.D}]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`adv-rtr {A.B.C.D}`	Advertising router
`area {A.B.C.D}`	Area
`as-external-link`	AS External LSA
`as-summary-link`	AS Summary LSA
`detail {A.B.C.D}`	Display detailed lsdb information
`lsa-type`	Link state advertisment type
`lsid {A.B.C.D}`	Link state ID
`multicast-link`	Multicast LSA
`network-link`	Network LSA
`nssa-extlink`	NSSA LSA
`router-link`	Router LSA
`summary-link`	Summary LSA

show ip ospf neighbor

Display OSPF neighbors

Syntax

- `show ip ospf neighbor`

Default

None

Command mode

Privileged EXEC mode

show ip ospf neighbor (User Exec)

Display OSPF neighbors

Syntax

- `show ip ospf neighbor`

Default

None

Command mode

User Exec

show ip ospf redistribute

Display OSPF redistribution policy

Syntax

- `show ip ospf redistribute`

Default

None

Command mode

Privileged EXEC mode

show ip ospf redistribute (User Exec)

Display OSPF redistribution policy

Syntax

- `show ip ospf redistribute`

Default

None

Command mode

User Exec

show ip ospf stats

Display global statistics

Syntax

- `show ip ospf stats`

Default

None

Command mode

User Exec

show ip ospf timer

Display interface timer settings

Syntax

- `show ip ospf timer {interface vlan <1-4094> | virtual-links}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`interface`	Display interface timer settings
`virtual-links`	Display configured OSPF virtual link timer values
`vlan <1-4094>`	Layer 3 IP VLAN

show ip ospf timer (User Exec)

Display interface timer settings

Syntax

- `show ip ospf timer {interface vlan <1-4094> | virtual-links}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`interface`	Display interface timer settings
`virtual-links`	Display configured OSPF virtual link timer values
`vlan <1-4094>`	Layer 3 IP VLAN

show ip ospf (User Exec)

Display global OSPF settings

Syntax

- `show ip ospf`

Default

None

Command mode

User Exec

show ip ospf virtual-links

Display virtual links configuration

Syntax

- `show ip ospf virtual-links`

Default

None

Command mode

Privileged EXEC mode

show ip ospf virtual-links (User Exec)

Display virtual links configuration

Syntax

- `show ip ospf virtual-links`

Default

None

Command mode

User Exec

show ip ospf virtual-neighbors

Display OSPF virtual link neighbors

Syntax

- `show ip ospf virtual-neighbors`

Default

None

Command mode

Privileged EXEC mode

show ip ospf virtual-neighbors (User Exec)

Display OSPF virtual link neighbors

Syntax

- `show ip ospf virtual-neighbors`

Default

None

Command mode

User Exec

show ip pim

Display PIM information

Syntax

- `show ip pim { active-rp [group <A.B.C.D>] | bsr | interface [vlan <1-4094>][enabled] | mode | mroute [count][group <A.B.C.D>][source <A.B.C.D>][summary]| neighbor | rp-candidate [group <A.B.C.D>]| rp-hash | static-rp |virtual-neighbor }`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`active-rp`	Display active rendezvous points
`bsr`	Display bootstrap router settings
`count`	Display count of entries
`enabled`	Display only admin enabled PIM interfaces
`group <A.B.C.D>`	Select group to display
`interface`	Display PIM per-interface settings
`mode`	Display PIM mode
`mroute`	Display PIM multicast routes
`rp-candidate`	Display PIM candidate rendezvous points
`rp-hash`	Display PIM RF set/hash
`source <A.B.C.D>`	Display only specific sources
`static-rp`	Display statically configured PIM rendezvous points
`summary`	Display summary of PIM Multicast routes
`virtual-neighbor`	Display PIM virtual neighbors
`vlan <1-4094>`	Display VLAN interfaces

show ip prefix-list

Display IP prefix lists

Syntax

- `show ip prefix-list [<WORD>] [prefix {A.B.C.D}]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<WORD>	Name of the prefix list
prefix {A.B.C.D}	Ip prefix

show ip prefix-list (User Exec)

Display IP prefix lists

Syntax

- `show ip prefix-list [WORD] [prefix {A.B.C.D}]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`prefix {A.B.C.D}`	Ip prefix
`WORD`	Name of the prefix list

show ip (Privileged EXEC mode)

Display IP-related information

Syntax

- `show ip [bootp] [default-gateway] address {source | stack | switch | unit <1-8>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`address`	IP address of switch/stack
`bootp`	Show bootp settings
`default-gateway`	IP address of default gateway

show ip rip

Display global RIP settings

Syntax

- `show ip rip`

Default

None

Command mode

Privileged EXEC mode

show ip rip interface

Display per-interface RIP configuration

Syntax

- `show ip rip interface [<1-4094> | ethernet <LINE> | vlan <1-4094>] enabled`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-4094>	Vlan ID
enabled	Display only enabled RIP interfaces
ethernet <LINE>	Ethernet IEEE 802.3
vlan <1-4094>	vlan interfaces only

show ip rip interface (User Exec)

Display per-interface RIP configuration

Syntax

- `show ip rip interface [vlan] [<1-4094>] [Ethernet] [<LINE>] [enabled]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<1-4094>	Vlan ID
enabled	Display only enabled RIP interfaces
Ethernet	Ethernet IEEE 802.3
LINE	List of ports
vlan	vlan interfaces only

show ip rip stats

Display per-interface RIP statistics

Syntax

- `show ip rip stats`

Default

None

Command mode

Privileged EXEC mode

show ip rip stats (User Exec)

Display per-interface RIP statistics

Syntax

- `show ip rip stats`

Default

None

Command mode

User Exec

show ip rip (User Exec)

Display global RIP settings

Syntax

- `show ip rip`

Default

None

Command mode

User Exec

show ip route

Display IP route information

Syntax

- `show ip route {{[ospf | rip | static] [-s {A.B.C.D} <subnet-mask>] [A.B.C.D] } | summary | vrf <WORD> | vrfids <LINE>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<subnet-mask>	subnet mask
A.B.C.D	specify IP addr of route to be displayed
ospf	Display IP OSPF route(s) information
rip	Display IP RIP route(s) information
-s	specify subnet(s) of routes to be displayed
static	Display IP static route(s) information
summary	Display summary of IP route information

show ip route (User Exec)

Display IP route information

Syntax

- `show ip route [ospf] [rip] [static] [A.B.C.D] [-s <subnet-ip> <mask-ip>] [summary]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<mask-ip>	subnet mask
<subnet-ip>	subnet IP
A.B.C.D	specify IP addr of route to be displayed
ospf	Display IP OSPF route(s) information
rip	Display IP RIP route(s) information
-s	specify subnet(s) of routes to be displayed
static	Display IP static route(s) information
summary	Display summary of IP route information
vrf <WORD>	Display route for a particular VRF
vrfids <LINE>	Display router for specified VRF IDs

show ip routing

Display global routing enable/disable

Syntax

- `show ip routing [vrf <WORD>][vrfids <LINE>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`vrf <WORD>`	Display IP routing for a particular VRF
`vrfids <LINE>`	Display IP routing for specified VRF IDs

show ip source

Display IP Source Guard address bindings

Syntax

- `show ip source binding {{A.B.C.D} | interface [ethernet] <WORD>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<WORD>	port list
A.B.C.D	specify ip address for which to display binding entries
binding	Display IP Source Guard address bindings
Ethernet	Select Ethernet interfaces
interface	select interfaces

show ip static-mroute

Display the multicast static IP routing table

Syntax

- `show ip static-mroute [ip <A.B.C.D>][rpf <A.B.C.D>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`ip <A.B.C.D>`	Specifies the IP address of the destination network.
`rpf <A.B.C.D>`	Specifies the reverse path forwarding address.

show ip (User Exec)

Display IP-related information

Syntax

- `show ip [bootp] [default-gateway] [address] {source | stack | switch | unit <1-8>}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
address	IP address of switch/stack
bootp	Show bootp settings
default-gateway	IP address of default gateway
source	Display BOOTP/DHCP settings
stack	Display stack ip address
switch	Display the ip adddress of local unit
unit <1-8>	To display the IP address of another unit in a stack

show ipv6 address

Display configured ipv6 addresses

Syntax

- `show ip {stack | switch | unit <1-8>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`stack`	Display configured stack ipv6 address/prefix
`switch`	Display configured IPv6 adddress/prefix of local unit
`unit <1-8>`	Display configured IPv6 address/prefix of another unit in a stack

show ipv6 address interface

Display addresses for IPv6 interfaces

Syntax

- `show ipv6 address interface {summary | vlan | <WORD>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<WORD>	IPv6 Address, 45 length
summary	Display IPv6 interfaces summary
vlan <1-4094>	Display per vlan addresses for IPv6 interfaces

show ipv6 address interface (User Exec)

Display addresses for IPv6 interfaces

Syntax

- `show ipv6 address interface {summary | vlan <1-4094> | <WORD>}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<WORD>	IPv6 Address, 45 length
summary	Display IPv6 interfaces summary
vlan <1-4094>	Display per vlan addresses for IPv6 interfaces

show ipv6 address (User Exec)

Display configured ipv6 addresses

Syntax

- `show ipv6 address {stack | switch | unit <1-8>}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`stack`	Display configured stack ipv6 address/prefix
`switch`	Display configured IPv6 adddress/prefix of local unit
`unit <1-8>`	Display configured IPv6 address/prefix of another unit in a stack

show ipv6 default-gateway

Display IPv6 default gateway

Syntax

- `show ipv6 default-gateway`

Default

None

Command mode

Privileged EXEC mode

show ipv6 default-gateway (User Exec)

Display IPv6 default gateway

Syntax

- `show ipv6 default-gateway`

Default

None

Command mode

User Exec

show ipv6 dhcp guard policy

Show DHCP guard policy

Syntax

- `show ipv6 dhcp guard policy <WORD>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<WORD>	Policy name

show ipv6 dhcp-relay

Display IPv6 Dynamic Host Configuration Protocol (DHCP) Relay information o show relay information about DHCP routes and counters.

Syntax

- `show ipv6 dhcp-relay counters`
- `show ipv6 dhcp-relay fwd-path`
- `show ipv6 dhcp-relay interface [vlan <1-4094>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`counters`	Display DHCP relay counter information
`fwd-path`	Display fwd-path information
`interface`	Display DCHP relay interface information
`vlan <1-4094>`	Specifies the VLAN ID

show ipv6 global

Display IPv6 global configuration

Syntax

- `show ipv6 global`

Default

None

Command mode

Privileged EXEC mode

show ipv6 global (User Exec)

Display IPv6 global configuration

Syntax

- `show ipv6 global`

Default

None

Command mode

User Exec

show ipv6 interface

Display interface information

Syntax

- `show ipv6 interface {icmpstatistics | statistics} {tunnel <1-2147483647> | vlan <1-4094>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`icmpstatistics`	Display IPv6 icmp statistics
`statistics`	Display IPv6 statistics
`tunnel <1-2147483647>`	Display by tunnel
`vlan <1-4094>`	Display by VLAN

show ipv6 interface icmpstatistics

Display IPv6 icmp statistics

Syntax

- `show ipv6 interface icmpstatistics {mgmt | tunnel <1-2147483647> | vlan <1-4094>}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`tunnel <1-2147483647>`	Display by tunnel
`vlan <1-4094>`	Display by VLAN
`mgmt`	Out of band management

show ipv6 interface statistics

Display IPv6 statistics

Syntax

- `show ipv6 interface statistics {mgmt | tunnel <1-2147483647> | vlan <1-4094>}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`mgmt`	Out of band management
`tunnel <1-2147483647>`	Display by tunnel
`vlan <1-4094>`	Display by VLAN

show ipv6 interface (User Exec)

Display interface information

Syntax

- `show ipv6 interface vlan <1-4094>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`vlan <1-4094>`	Display per vlan IPv6 interfaces

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show ipv6 mgmt

Display IPv6 management information

Syntax

- `show ipv6 mgmt { address [<unit <1-8>] | default-gateway | interface }`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`address [unit <1-8>]`	Display IPv6 management addresses
`default-gateway`	Display IPv6 management gateway
`interface`	Display IPv6 management interface

show ipv6 mld

Display MLD information

Syntax

- `show ipv6 mld {group [count | group <WORD> | member-subnet <WORD>] | interface pvlan <1-4094> | snooping}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`group`	Display MLD group details
`count`	Display count of entries
`group <WORD>`	IPV6 group address
`member-subnet <WORD>`	Select member subnet with IPv6 address and subnet prefix-length for group member network
`interface`	Display MLD itnerface information
`vlan <1-4094>`	Display VLAN interfaces
`snooping`	Display MLD snooping information

show ipv6 mld-cache

Display MLD cache information

Syntax

- `show ipv6 mld-cache interface [vlan <1-4094>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`interface`	Display VLAN interfaces
`vlan <1-4094>`	VLAN ID

show ipv6 nd

Display neighbor discover interface configuration

Syntax

- `show ipv6 nd interface [<1-4094>][details][vlan]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
interface	Display neighbor discovery interface ocnfiguration
<1-4094>	VLAN ID
details	Display IPv6 nd details on interface
vlan	Display IPv6 nd on VLANinterfaces only

show ipv6 nd-prefix interface

Display neighbor discover interfaces

Syntax

- `show ipv6 nd-prefix interface [<1-4094>][details][vlan]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<1-4094>	VLAN ID
details	Display IPv6 nd-prefix details on interface
vlan	Display addresses on VLAN interfaces only

show ipv6 neighbor

Display IPv6 neighbor information

Syntax

- `show ipv6 neighbor interface {tunnel <1-2147483647> | vlan <1-4094>} | [<WORD>] [type {dynamic | local | other | static} | [summary]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<WORD>	IPv6 address
dynamic	Display dynamically learned neighbors
interface	Display by interface
local	Display local neighbor address
other	Display other neighbor entries
static	Display manually configured neighbors
summary	Display summary of IPv6 Neighbor Table
tunnel <1-2147483647>	Display by tunnel
type	Display by type
vlan <1-4094>	Display by VLAN

show ipv6 neighbor interface

Display IPv6 neighbor information by interface

Syntax

- `show ipv6 neighbor interface {tunnel <1-2147483647> | vlan <1-4094>}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`tunnel <1-2147483647>`	Display by tunnel
`vlan <1-4094>`	Display by VLAN

show ipv6 neighbor summary

Display summary of IPv6 Neighbor Table

Syntax

- `show ipv6 neighbor summary`

Default

None

Command mode

User Exec

show ipv6 neighbor type

Display by type

Syntax

- `show ipv6 neighbor [<WORD>] type {dynamic | local | other | static}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<WORD>	IPv6 address
dynamic	Display dynamically learned neighbors
local	Display local neighbor address
other	Display other neighbor entries
static	Display manually configured neighbors

show ipv6 route

Display all IPv6 routes and static routes

Syntax

- `show ipv6 route [ dest <WORD> | mgmt | next-hop <WORD> | static | tunnel <1-2147483647> | vlan <1-4094>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`dest <WORD>`	Display IPv6 route destination
`mgmt`	Out of band management
`next-hop <WORD>`	IPv6 route next-hop
`static`	Display IPv6 static routes
`tunnel <1-2147483647>`	IPv6 route tunnel
`vlan <1-4094>`	IPv6 route VLAN

show ipv6 tcp

Display IPV6 tcp info

Syntax

- `show ipv6 tcp`

Default

None

Command mode

Privileged EXEC mode

show ipv6 tcp connections

Display IPv6 tcp connections

Syntax

- `show ipv6 tcp connections`

Default

None

Command mode

Privileged EXEC mode

show ipv6 tcp connections (User Exec)

Display IPv6 tcp connections

Syntax

- `show ipv6 tcp connections`

Default

None

Command mode

User Exec

show ipv6 tcp listener

Display IPv6 tcp listeners

Syntax

- `show ipv6 tcp listener`

Default

None

Command mode

Privileged EXEC mode

show ipv6 tcp listener (User Exec)

Display IPv6 tcp listeners

Syntax

- `show ipv6 tcp listener`

Default

None

Command mode

User Exec

show ipv6 tcp (User Exec)

Display IPV6 tcp info

Syntax

- `show ipv6 tcp`

Default

None

Command mode

User Exec

show ipv6 tunnel

Display configured IPv6 tunnels

Syntax

- `show ipv6 tunnel <1-2147483647>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<1-2147483647>	Tunnel ID

show ipv6 udp

Display IPv6 udp global

Syntax

- `show ipv6 udp endpoints`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
endpoints	Display ipv6 udp endpoints

show ipv6 udp (User Exec)

Display IPv6 udp global

Syntax

- `show ipv6 udp endpoints`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
endpoints	Display ipv6 udp endpoints

show ip verify

Display IP Source Guard settings

Syntax

- `show ip verify source [statistics] interface [ethernet] <WORD>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<WORD>	port list
Ethernet	Select Ethernet interfaces
interface	select interfaces
source	Display IP Source Guard settings
statistics	Display IP Source Guard Statistics

show ip vrf

Display VRF configurations

Syntax

- `show ip vrf [max-routes][vrfids <LINE>][<WORD>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`max-routes`	Displayx max routes for VRF
`vrfids <LINE>`	Specify VRF IDs
`<WORD>`	Specify VRF name

show ip vrrp

Display global VRRP settings

Syntax

- `show ip vrrp`

Default

None

Command mode

Privileged EXEC mode

show ip vrrp address

Show VRRP associated addresses

Syntax

- `show ip vrrp address [interface] [vlan] [<1-4094>] [vrid <1-255>] addr {A.B.C.D}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-4094>	VLAN ID
A.B.C.D	Address to display in quad dotted notation
addr	Display specific address
interface	Display addresses per interface
vlan	Display addresses on VLAN interfaces only
vrid <1-255>	Display addresses associated with specific VR

show ip vrrp address (User Exec)

Show VRRP associated addresses

Syntax

- `show ip vrrp address [interface] [vlan] [<1-4094>] [vrid <1-255>] [addr {A.B.C.D}]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<1-4094>	VLAN ID
addr {A.B.C.B}	Display specific address
interface	Display addresses per interface
vlan	Display addresses on VLAN interfaces only
vrid <1-255>	Display addresses associated with specific VR

show ip vrrp interface

Display per-interface VRRP configuration

Syntax

- `show ip vrrp interface [vlan] [verbose] vrid <1-255>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	VLAN ID
verbose	Display additional information
vlan	Display addresses on VLAN interfaces only
vrid <1-255>	VR ID

show ip vrrp interface (User Exec)

Display per-interface VRRP configuration

Syntax

- `show ip vrrp interface [vlan] [<LINE>] [verbose] [vrid <1-255>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<LINE>	VLAN ID
verbose	Display additional information
vlan	Display addresses on VLAN interfaces only
vrid <1-255>	VR ID

show ip vrrp (User Exec)

Display global VRRP settings

Syntax

- `show ip vrrp`

Default

None

Command mode

User Exec

show ist

Display Inter Switch Trunk (IST) configuration

Syntax

- `show ist [stat]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
stat	Display IST statistics

show jumbo-frames

Display jumbo-frames support

Syntax

- `show jumbo-frames`

Default

None

Command mode

Privileged EXEC mode

show lacp aggr

Display LACP aggregator information

Syntax

- `show lacp aggr <1-65535>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-65535>	Aggr ID

show lacp debug

Display LACP port debug information

Syntax

- `show lacp debug member <WORD>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<WORD>	List of ports
member	Display LACP port debug information for specified port(s)

show lacp key

Display MLTs or MLTs/SMLTs reserved for LACP key values

Syntax

- `show lacp key <1-4095>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-4095>	LACP key value

show lacp port

Display LACP port information

Syntax

- `show lacp port {aggr <1-65535> | key <1-4095> | <WORD>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<WORD>	List of ports
aggr <1-65535>	select ports that are members of an aggregator
key <1-4095>	Select ports that have a specific key

show lacp port-mode

Display current LACP port mode setting

Syntax

- `show lacp port-mode`

Default

None

Command mode

Privileged EXEC mode

show lacp stats

Display LACP statistics information

Syntax

- `show lacp stats`

Default

None

Command mode

Privileged EXEC mode

show lacp system

Display LACP system settings

Syntax

- `show lacp system`

Default

None

Command mode

Privileged EXEC mode

show license

Display licenses

Syntax

- `show license {<1-10> | all} verbose`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<1-10>`	Select license to be displayed
`all`	Display all licenses
`verbose`	Display verbose license info

show link-state

Display link-state tracking configuration

Syntax

- `show link-state [group <1-2>] detail`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`detail`	Display detailed configuration
`group <1-2>`	Display link-state tracking configuration for a specific group

show link-state (User Exec)

Display link-state tracking configuration

Syntax

- `show link-state [group <1-2>] [detail]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`detail`	Display detailed configuration
`group <1-2>`	Display link-state tracking configuration for a specific group

show lldp local-sys-data

Display 802.1ab local system data

Syntax

- `show lldp local-sys-data [dot1] [dot3] [med] [detail]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`detail`	Display all TLVs
`dot1`	Display IEEE 802.1 Organizationally specific TLVs
`dot3`	Display IEEE 802.3 Organizationally specific TLVs
`med`	Display Media Endpoint Devices (MED) specific TLVs

show lldp local-sys-data (User Exec)

Display 802.1ab local system data

Syntax

- `show lldp local-sys-data [dot1] [dot3] [med] [detail]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`detail`	Display all TLVs
`dot1`	Display IEEE 802.1 Organizationally specific TLVs
`dot3`	Display IEEE 802.3 Organizationally specific TLVs
`med`	Display Media Endpoint Devices (MED) specific TLVs

show lldp med-network-policies

Display Media Endpoint Devices (MED) network policies

Syntax

- `show lldp med-network-policies [port <LINE>] {voice | voice-signaling}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`port <LINE>`	Port list
`voice`	Display Voice Network Policies
`voice-signaling`	Display Voice Signaling Network Policies

show lldp med-network-policies (User Exec)

Display Media Endpoint Devices (MED) network policies

Syntax

- `show lldp med-network-policies [port <LINE>] [voice] [voice-signaling]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`port <LINE>`	Port list
`voice`	Display Voice Network Policies
`voice-signaling`	Display Voice Signaling Network Policies

show lldp mgmt-sys-data

Display 802.1ab management data

Syntax

- `show lldp mgmt-sys-data`

Default

None

Command mode

Privileged EXEC mode

show lldp mgmt-sys-data (User Exec)

Display 802.1ab management data

Syntax

- `show lldp mgmt-sys-data`

Default

None

Command mode

User Exec

show lldp neighbor

Display 802.1ab neighbors

Syntax

- `show lldp neighbor {detail | {[dot1] [vlan-names] [protocol-id] [dot3] [med]{[capabilities] [network-policy] [location] [extended-power] [inventory]}} | {vendor-specific avaya [call-server] [dot1q-framing] [fa-element-type] [file-server] [phone-ip] [poe-conservation]}}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`call-server`	Display neighbors call-server information
`capabilities`	Display neighbors MED capabilities
`detail`	Display all TLVs
`dot1`	Display IEEE 802.1 Organizationally specific TLVs
`dot1q-framing`	Display neighbors dot1q-framing information
`dot3`	Display IEEE 802.3 Organizationally specific TLVs
`extended-power`	Display neighbors MED power information
`fa-element-type`	Display neighbors Fabric Attach information
`file-server`	Display neighbors file-server information
`inventory`	Display neighbors MED inventory information
`location`	Display neighbors MED location information
`med`	Display Media Endpoint Devices (MED) specific TLVs
`network-policy`	Display neighbors MED network-policy information
`phone-ip`	Display neighbors phone-ip information
`poe-conservation`	Display neighbors poe-conservation information
`vendor-specific`	Display the vendor-specific TLVs

show lldp neighbor-mgmt-addr

Display 802.1ab neighbors management addresses

Syntax

- `show lldp neighbor-mgmt-addr`

Default

None

Command mode

Privileged EXEC mode

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show lldp neighbor-mgmt-addr (User Exec)

Display 802.1ab neighbors management addresses

Syntax

- `show lldp neighbor-mgmt-addr`

Default

None

Command mode

User Exec

show lldp neighbor (User Exec)

Display 802.1ab neighbors

Syntax

- `show lldp neighbor {detail | [dot1] [dot3] [med {[capabilities] [network-policy] [location] [extended-power] [inventory]} | vendor-specific avaya {[call-server] [dot1q-framing] [fa-element-type] [file-server] [phone-ip] [poe-conservation]}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`call-server`	Display neighbors call-server information
`capabilities`	Display neighbors MED capabilities
`detail`	Display all TLVs
`dot1`	Display IEEE 802.1 Organizationally specific TLVs
`dot1q-framing`	Display neighbors dot1q-framing information
`dot3`	Display IEEE 802.3 Organizationally specific TLVs
`extended-power`	Display neighbors MED power information
`fa-element-type`	Display neighbors Fabric Attach information
`file-server`	Display neighbors file-server information
`inventory`	Display neighbors MED inventory information
`location`	Display neighbors MED location information
`med`	Display Media Endpoint Devices (MED) specific TLVs
`network-policy`	Display neighbors MED network-policy information
`phone-ip`	Display neighbors phone-ip information
`poe-conservation`	Display neighbors poe-conservation information
`vendor-specific`	Display the vendor-specific TLVs

show lldp pdu-tlv-size

Display 802.1ab tlv's in pdu

Syntax

- `show lldp pdu-tlv-size`

Default

None

Command mode

Privileged EXEC mode

show lldp pdu-tlv-size (User Exec)

Display 802.1ab tlv's in pdu

Syntax

- `show lldp pdu-tlv-size`

Default

None

Command mode

User Exec

show lldp port

Display 802.1ab configuration for specified ports

Syntax

- `show lldp port <LINE> {local-sys-data | neighbor | tx-tlv} {[detail] [dot1] [dot3] [med] [vendor-specific avaya [call-server] [dot1q-framing] [fa-element-type] [file-server] [phone-ip] [poe-conservation]] } | {vendor-specific avaya [dot1q-framing] [poe-conservation]} | neighbor-mgmt-addr | pdu-tlv-size | rx-stats | tx-stats`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
call-server	Display neighbors call-server information
detail	Display all TLVs
dot1	Display IEEE 802.1 Organizationally specific TLVs
dot1q-framing	Display neighbors dot1q-framing information
dot3	Display IEEE 802.3 Organizationally specific TLVs
fa-element-type	Display neighbors Fabric Attach information
file-server	Display neighbors file-server information
local-sys-data	Display 802.1ab local system data
med	Display Media Endpoint Devices (MED) specific TLVs
neighbor	Display 802.1ab neighbors
neighbor-mgmt-addr	Display 802.1ab neighbors management addresses
pdu-tlv-size	Display 802.1ab tlv's in pdu
phone-ip	Display neighbors phone-ip information
poe-conservation	Display neighbors poe-conservation information
rx-stats	Display 802.1ab RX statistics
tx-stats	Display 802.1ab TX statistics
tx-tlv	Display 802.1ab TLVs
vendor-specific	Display 802.1ab vendor-specific settings

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show lldp port (User Exec)

Display 802.1ab configuration for specified ports

Syntax

- `show lldp port <LINE> {local-sys-data | neighbor | tx-tlv} {[dot1] [dot3] [med] [detail]} [vendor-specific avaya {dot1q-framing | poe-conservation-request-level] | neighbor-mgmt-addr | pdu-tlv-size | rx-stats | tx-stats`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<LINE>	List of ports
detail	Display all TLVs
dot1	Display IEEE 802.1 Organizationally specific TLVs
dot1q-framing	Display 802.1Q framing tragging-mode
dot3	Display IEEE 802.3 Organizationally specific TLVs
local-sys-data	Display 802.1ab local system data
med	Display Media Endpoint Devices (MED) specific TLVs
neighbor	Display 802.1ab neighbors
neighbor-mgmt-addr	Display 802.1ab neighbors management addresses
pdu-tlv-size	Display 802.1ab tlv's in pdu
poe-conservation-request-level	Display PoE conservation request level
rx-stats	Display 802.1ab RX statistics
tx-stats	Display 802.1ab TX statistics
tx-tlv	Display 802.1ab TLVs
vendor-specific	Display 802.1ab vendor-specific settings

show lldp rx-stats

Display 802.1ab RX statistics

Syntax

- `show lldp rx-stats`

Default

None

Command mode

Privileged EXEC mode

show lldp rx-stats (User Exec)

Display 802.1ab RX statistics

Syntax

- `show lldp rx-stats`

Default

None

Command mode

User Exec

show lldp stats

Display 802.1ab statistics

Syntax

- `show lldp stats`

Default

None

Command mode

Privileged EXEC mode

show lldp tx-stats

Display 802.1ab TX statistics

Syntax

- `show lldp tx-stats`

Default

None

Command mode

Privileged EXEC mode

show lldp tx-stats (User Exec)

Display 802.1ab TX statistics

Syntax

- `show lldp tx-stats`

Default

None

Command mode

User Exec

show lldp tx-tlv

Display 802.1ab TLVs

Syntax

- `show lldp tx-tlv {dot1 | dot3 | med | vendor-specific avaya}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`dot1`	Display IEEE 802.1 Organizationally specific TLVs
`dot3`	Display IEEE 802.3 Organizationally specific TLVs
`med`	Display Media Endpoint Devices (MED) specific TLVs
`vendor-specific`	Display Vendor-specific TLVs

show lldp tx-tlv (User Exec)

Display 802.1ab TLVs

Syntax

- `show lldp tx-tlv {dot1 | dot3 | med | vendor-specific avaya}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`dot1`	Display IEEE 802.1 Organizationally specific TLVs
`dot3`	Display IEEE 802.3 Organizationally specific TLVs
`med`	Display Media Endpoint Devices (MED) specific TLVs
`vendor-specific`	Display Vendor-specific TLVs

show lldp vendor-specific

Display 802.1ab vendor-specific settings

Syntax

- `show lldp vendor-specific avaya {call-server | dot1q-framing | file-server | poe-conservation-request-level}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`call-server`	Display call-server address(es)
`dot1q-framing`	Display 802.1Q framing tragging-mode
`file-server`	Display file-server address(es)
`poe-conservation-request-level`	Display PoE conservation request level

show lldp vendor-specific (User Exec)

Display 802.1ab vendor-specific settings

Syntax

- `show lldp vendor-specific avaya {call-server | dot1q-framing | file-server | poe-conservation-request-level}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`call-server`	Display call-server address(es)
`dot1q-framing`	Display 802.1Q framing tragging-mode
`file-server`	Display file-server address(es)
`poe-conservation-request-level`	Display PoE conservation request level

show logging

Show the contents of logging buffers

Syntax

- `show logging [critical] [serious] [informational] [sort-reverse] [unit <1-8>] [config]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
config	Display configuration of event logging
critical	Critical event
informational	Informational message
serious	Serious event message
sort-reverse	display log messages in reverse order
unit <1-8>	Unit number

show mac-address-table address

Display specific address

Syntax

- `show mac-address-table address <H.H.H>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<H.H.H>	Address to be displayed (i.e. H.H.H or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx or xx:xx:xx:xx:xx:xx)

show mac-address-table aging-time

Display forwarding database aging time

Syntax

- `show mac-address-table aging-time`

Default

None

Command mode

Privileged EXEC mode

show mac-address-table mlt

Display mac-address-table for specified trunk id

Syntax

- `show mac-address-table mlt <1-32> address`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-32>	Trunk number
address	Display specific address

show mac-address-table port

Display mac-address-table for specified ports

Syntax

- `show mac-address-table port <LINE> address <H.H.H>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<H.H.H>	Address to be displayed (i.e. H.H.H or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx or xx:xx:xx:xx:xx:xx)
<LINE>	List of port(s)
address <H.H.H>	Display specific address

show mac-address-table vid

Display mac-address-table for specified VLAN ID

Syntax

- `show mac-address-table vid <1-4094> [port <LINE>] address <H.H.H>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<1-4094>`	VLAN ID
`address <H.H.H>`	Display specific address
`port <LINE>`	Display mac-address-table for specified ports

show mac-security

Display current MAC address security settings

Syntax

- `show mac-security {config | mac-address-table {address <H.H.H> | port <LINE>} | mac-da-filter | port <LINE> | security-lists <LINE>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`address <H.H.H>`	Display the accessible port for specific MAC address.
`config`	Display the stack/switch MAC security configuration.
`mac-address-table`	Display the accessible MAC addresses on each port.
`mac-da-filter`	Display MAC DA filtering addresses
`port`	Display ports' MAC security status.
`port <LINE>`	Display MAC addresses from specific port
`security-lists <LINE>`	Display port membership of security lists

show memory-utilization

Display memory utilization info

Syntax

- `show memory-utilization unit <1-8>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`unit <1-8>`	Unit number

show memory-utilization (User Exec)

Display memory utilization info

Syntax

- `show memory-utilization unit <1-8>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`unit <1-8>`	Unit number

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show mgmt-port

Display management port information

Syntax

- `show mgmt-port status`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`status`	Show the management port link status

show mlt

Display Multi-Link Trunking (MLT) configuration

Syntax

- `show mlt {<LINE> | shutdown-ports-on-disable |spanning-tree <1-32> | utilization <1-32>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of Trunk Groups
shutdown-ports-on-disable	Display disabled trunk loop prevention status
spanning-tree <1-32>	Display multi-link trunk spanning-tree settings
utilization <1-32>	Display multi-link trunk utilization

show mlt hash-calc

Display MLT hash calculations

Syntax

- `show mlt hash-calc <1-32> {dest-ip {A.B.C.D} src-ip {A.B.C.D} tcp-udp-dport <0-65535> tcp-udp-sport <0-65535>} | {dest-mac <H.H.H> src-mac <H.H.H> vlan <1-4094> ethertype <0x0600-0xffff> src-port <WORD>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-32>	MLT ID
dest-ip {A.B.C.D}	Destination IP address
dest-mac <H.H.H>	Destination MAC address
ethertype <0x0600-0xffff>	Ethernet Type
src-ip {A.B.C.D}	Source IP address
src-mac <H.H.H>	Source MAC address
src-port <WORD>	Source Port
tcp-udp-dport <0-65535>	TCP/UDP Destination Port Number
tcp-udp-sport <0-65535>	TCP/UDP Source Port Number
vlan <1-4094>	Vlan ID
WORD	Unit/Port

show nvram

Display NV block information

Syntax

- `show nvram block`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`block`	Display NV block information

show nvram (User Exec)

Display NV block information

Syntax

- `show nvram block`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
block	Display NV block information

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show password

Display password security restrictions

Syntax

- `show password {aging-time | password-history | security}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`aging-time`	Password validity period (in days)
`password-history`	Number of passwords in history
`security`	State of password security restrictions

show password (User Exec)

Display password security restrictions

Syntax

- `show password {aging-time | password-history | security}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`aging-time`	Password validity period (in days)
`password-history`	Number of passwords in history
`security`	State of password security restrictions

show poe-main-status

Show PoE main configuration

Syntax

- `show poe-main-status unit <1-8>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`unit <1-8>`	Display main configuraton of an unit in stack

show poe-port-status

Show PoE port configuration

Syntax

- `show poe-port-status <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports

show poe-power-measurement

Show port power measurement

Syntax

- `show poe-power-measurement <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports

show port-mirroring

Display port mirroring configuration

Syntax

- `show port-mirroring {<1-4> | rspan}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-4>	Instance number
rspan	Display RSPAN settings

show port-statistics

display the port counter for a port

Syntax

- `show port-statistics port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
port	Display port-statistics for specified ports

show qos acl-assign

Display access-list assignments

Syntax

- `show qos acl-assign <1-65535>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-65535>	Display the specified access-list assignment entry

show qos action

Display the base action entries

Syntax

- `show qos action {<1-65535> | all | system | user}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-65535>	Display the specified base action entry
all	Display all user-created, default, and system entries
system	Display only system entries
user	Display only user-created and default entries

show qos agent

Display the global QoS parameters

Syntax

- `show qos agent details`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`details`	Display QoS agent details

show qos capability

Display QoS port capabilities

Syntax

- `show qos capability {meter | shaper} port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`meter`	Display QoS port meter capabilities
`port <LINE>`	Specify list of ports
`shaper`	Display QoS port shaper capabilities

show qos classifier

Display the classifier entries

Syntax

- `show qos classifier {<1-65535> | all | system | user}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-65535>	Display the specified classifier entry
all	Display all user-created, default, and system entries
system	Display only system entries
user	Display only user-created and default entries

show qos classifier-block

Display the classifier block entries

Syntax

- `show qos classifier-block {<1-65535> | all | system | user}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<1-65535>`	Display the specified classifier block entry
`all`	Display all user-created, default, and system entries
`system`	Display only system entries
`user`	Display only user-created and default entries

show qos diag

Display the diagnostics entries

Syntax

- `show qos diag unit <1-8>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`unit <1-8>`	Display the diagnostics entries for specific unit

show qos egressmap

Display the association between the DSCP and the 802.1p priority and drop precedence

Syntax

- `show qos egressmap ds <0-63>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`ds <0-63>`	Show mapping for one DSCP value

show qos if-action-extension

Display the interface action extension entries

Syntax

- `show qos if-action-extension {<1-65535> | all | system | user}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-65535>	Display the specified interface action extension entry
all	Display all user-created, default, and system entries
system	Display only system entries
user	Display only user-created and default entries

show qos if-assign

Display the list of interface assignments

Syntax

- `show qos if-assign port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`port <LINE>`	Specify list of ports

show qos if-group

Display the interface groups

Syntax

- `show qos if-group`

Default

None

Command mode

Privileged EXEC mode

show qos if-queue-shaper

Display the interface egress queue shaping parameters

Syntax

- `show qos if-queue-shaper port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`port <LINE>`	Specify list of ports

show qos if-shaper

Display the interface shaping parameters

Syntax

- `show qos if-shaper port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`port <LINE>`	Specify list of ports

show qos ingressmap

Display the 802.1p priority to DSCP mapping

Syntax

- `show qos ingressmap`

Default

None

Command mode

Privileged EXEC mode

show qos ip-acl

Display IP access-lists

Syntax

- `show qos ip-acl <1-65535>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-65535>	The identifier of the IP access list

show qos ip-element

Display the IP classifier element entries

Syntax

- `show qos ip-element {<1-65535> | all | system | user}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<1-65535>`	Display the specified IP classifier element entry
`all`	Display all user-created, default, and system entries
`system`	Display only system entries
`user`	Display only user-created and default entries

show qos l2-acl

Display L2 access-lists

Syntax

- `show qos l2-acl <1-65535>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-65535>	The identifier of the L2 access list

show qos l2-element

Display the Layer2 classifier element entries

Syntax

- `show qos l2-element {<1-65535> | all | system | user}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-65535>	Display the specified Layer2 classifier element entry
all	Display all user-created, default, and system entries
system	Display only system entries
user	Display only user-created and default entries

show qos meter

Display the meter entries

Syntax

- `show qos meter {<1-65535> | all | system | user}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<1-65535>`	Display the specified meter entry
`all`	Display all user-created, default, and system entries
`system`	Display only system entries
`user`	Display only user-created and default entries

show qos policy

Display the policy entries

Syntax

- `show qos policy {<1-65535> | all | system | user}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-65535>	Display the specified policy entry
all	Display all user-created, default, and system entries
port	Specify list of ports
system	Display only system entries
user	Display only user-created and default entries

show qos port

Display QoS port configuration

Syntax

- `show qos port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
LINE	List of ports

show qos queue-set

Display the queue set configuration

Syntax

- `show qos queue-set <1-32>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-32>	Display the specified queue-set

show qos queue-set-assignment

Display the association between the 802.1p priority to that of a specific queue

Syntax

- `show qos queue-set-assignment queue-set <1-32>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`queue-set <1-32>`	Display the specified queue-set

show qos statistics

Display the statistics values

Syntax

- `show qos statistics <1-65535> port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<1-65535>`	Policy ID
`port <LINE>`	Display the port statistics for the specified policy

show qos system-element

Display the system classifier element entries

Syntax

- `show qos system-element {<1-65535> | all | system | user}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<1-65535>`	Display the specified system classifier element entry
`all`	Display all user-created, default, and system entries
`system`	Display only system entries
`user`	Display only user-created and default entries

show qos traffic-profile

Display QoS Traffic Profile entries

Syntax

- `show qos traffic-profile {classifier name <WORD> eval-order <1-255>} | interface | {set [port <LINE> name <WORD>} | {statistics port <LINE> name <WORD> precedence <1-7>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`classifier`	Display QoS Traffic Profile classifier entries
`eval-order <1-255>`	Specify the evaluation order to reference a specific Traffic Profile classifier entry
`interface`	Display QoS Traffic Profile interface entries
`name <WORD>`	Specify the label to display a specific Traffic Profile classifier entry
`port <LINE>`	Specify the port(s) used to reference the Traffic Profile entry
`precedence <1-7>`	Specify the precedence used to reference the Traffic Profile entry
`set`	Display QoS Traffic Profile set entries
`statistics`	Display QoS Traffic Profile statistics

show qos ubp

Display QoS UBP entries

Syntax

- `show qos ubp | [classifier][interface] [name <WORD>] | statistics port <LINE> name <WORD> precedence <1-15>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`classifier`	Display QoS UBP classifier entries
`interface`	Display QoS UBP interface entries
`name`	Specify the label to display a particular UBP template entry
`name <WORD>`	Specify the label to display a specific UBP classifier entry
`port <LINE>`	Specify a port to reference UBP entry
`precedence <1-15>`	Specify the precedence used to reference the UBP entry
`statistics`	Display QoS UBP statistics

show qos user-policy

Display QoS User Policy entries

Syntax

- `show qos user-policy [port <LINE>] user <WORD>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`port <LINE>`	Specify the port(s) used to reference the User Policy entries
`user <WORD>`	Specify the user for whom the user policy must be displayed

show quickconfig

Show quick config status

Syntax

- `show quickconfig`

Default

None

Command mode

Privileged EXEC mode

show quickconfig (User Exec)

Show quick config status

Syntax

- `show quickconfig`

Default

None

Command mode

User Exec

show radius

Display RADIUS settings

Syntax

- `show radius {accounting interim-updates | dynamic-server {client {A.B.C.D} | replay-protection | statistics client {A.B.C.D}} | reachability | use-management-ip}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`accounting`	Display the configuration of RADIUS Accounting Interim-Updates
`client {A.B.C.D}`	Display the configuration of RADIUS Dynamic Authorization Client
`dynamic-server`	Display the configuration of RADIUS Dynamic Authorization Clients
`interim-updates`	Display the parameters of interim-updates
`reachability`	Display RADIUS reachability settings
`replay-protection`	Display status of RADIUS dynamic server replay protection
`statistics`	Display the statistics for RADIUS Dynamic Authorization Client
`use-management-ip`	Display RADIUS use-management-ip setting

show radius accounting

Display the configuration of RADIUS Accounting Interim-Updates

Syntax

- `show radius accounting interim-updates`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`interim-updates`	Display the parameters of interim-updates

show radius dynamic-server

Display the configuration of RADIUS Dynamic Authorization Clients

Syntax

- `show radius dynamic-server {[statistics] client {A.B.C.D} | replay-protection}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
A.B.C.D	IP address of RADIUS Dynamic Authorization Client
client	Display the configuration of RADIUS Dynamic Authorization Client
replay-protection	Display status of RADIUS dynamic server replay protection
statistics	Display the statistics for RADIUS Dynamic Authorization Clients

show radius reachability

Display RADIUS reachability settings

Syntax

- `show radius reachability`

Default

None

Command mode

User Exec

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show radius-server

Display current RADIUS server/port/key configuration

Syntax

- `show radius-server`

Default

None

Command mode

Privileged EXEC mode

show radius use-management-ip

Display RADIUS use-management-ip setting.

Syntax

- `show radius use-management-ip`

Default

None

Command mode

User Exec

show rate-limit

Display rate-limiting settings and statistics

Syntax

- `show rate-limit port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`port <LINE>`	Display rate-limit configuration for specified ports

show rmon alarm

Display RMON Alarm entries

Syntax

- `show rmon alarm sort-reverse`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`sort-reverse`	Display RMON Alarm entries in reversed order

show rmon ethernet history

Display RMON ethernet history data

Syntax

- `show rmon ethernet history [sample-set <1-65535>] [sample-range <1-2147483647> <1-2147483647>] [interval-range <hh:mm:ss> <hh:mm:ss>] [port <LINE>]delta`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<hh:mm:ss>	First or second history interval-range value
<1-2147483647>	First or second history sample index value
delta	Display deltas of consecutive history data
interval-range	Display history data for specific interval range
port <LINE>	Display history data for specific ports
sample-range	Display history data for specific sample range
sample-set <1-65535>	Display history data for specific index

show rmon ethernet packets

Display rmon ethernet packets according to their size

Syntax

- `show rmon ethernet packets port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`port <LINE>`	Display rmon ethernet packets specific to port

show rmon ethernet statistics

Display rmon ethernet statistics

Syntax

- `show rmon ethernet statistics port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`port <LINE>`	Display ethernet statistics for specific ports

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show rmon event

Display RMON Event entries

Syntax

- `show rmon event`

Default

None

Command mode

Privileged EXEC mode

show rmon history

Display RMON History entries

Syntax

- `show rmon history port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`port <LINE>`	Display rmon history for specific ports

show rmon stats

Display RMON Stats entries

Syntax

- `show rmon stats`

Default

None

Command mode

Privileged EXEC mode

show route-map

Display route policy table

Syntax

- `show route-map <word> <1-65535> detail`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-65535>	Index used to identify a specific policy in the route policy group
detail	Route policy details
WORD	Name of set of policies

show route-map (User Exec)

Display route policy table

Syntax

- `show route-map [<WORD> <1-65535>] detail`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<1-65535>	Index used to identify a specific policy in the route policy group
<WORD>	Name of set of policies
detail	Route policy details

show running-config

Display current configuration of system as a series of CLI commands

Syntax

- `show running-config [verbose] [module [802.1ab] [aaur] [adac] [arp-inspection] [asset-id] [aur] [banner] [brouter] [core][default-cmd-interface] [dhcp-relay] [dhcp-snooping] [eap] [energy-saver] [igmp] [interface] [ip] [ip-source-guard] [ipfix] [ipmgr] [ipv6] [l3] [l3-protocols] [lacp] [link-state] [logging] [mac-security][mld] [mlt][pim] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp][smlt] [snmp] [ssh][sshc][ssl] [stack] [stkmon] [stp] [unicast-storm-control][vlacp] [vlan]]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
802.1ab	Display 802.1ab configuration
aaur	Display AAUR configuration
adac	Display ADAC configuration
arp-inspection	Display ARP Inspection configuration
asset-id	Display Asset ID configuration
aur	Display AUR configuration
banner	Display Custom Banner configuration
brouter	Display Brouter configuration
core	Display Core configuration
default-cmd-interface	Display Default Command Interface configuration
dhcp-relay	Display DHCP Relay configuration
dhcp-snooping	Display DHCP Snooping configuration
eap	Display EAP configuration
energy-saver	Display Energy Saver configuration
igmp	Display IGMP configuration
interface	Display Interface configuration
ip	Display IP configuration
ip-source-guard	Display IP Source Guard configuration

ipfix	Display IPFIX configuration
ipmgr	Display IP Manager configuration
ipv6	Display IPV6 configuration
l3	Display L3 configuration
l3-protocols	Display L3 Protocols configuration
lacp	Display LACP configuration
link-state	Display Link State Tracking configuration
logging	Display System Logging configuration
mac-security	Display MAC Security configuration
mld	Display MLD configuration
mlt	Display MLT configuration
module	Display configuration of an application
pim	Display PIM configuration
poe	Display PoE configuration
port-mirroring	Display Port Mirroring configuration
qos	Display QoS configuration
rate-limit	Display Rate Limiting configuration
rmon	Display RMON configuration
rtc	Display RTC configuration
slamon	Display SLAMon configuration
slpp	Display SLPP configuration
smlt	Display SMLT configuration
snmp	Display SNMP configuration
ssh	Display SSH configuration
sshc	Display SSHC configuraiton
ssl	Display SSL configuration
stack	Display Stack configuration
stkmon	Display Stack Monitor configuration
stp	Display STP configuration
unicast-storm-control	Display Unicast Storm Control configuration
verbose	Display entire configuration (defaults and non-defaults)
vlacp	Display VLACP configuration
vlan	Display VLAN configuration

show serial-console

Display current serial console port access

Syntax

- `show serial-console unit <1-8>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`unit <1-8>`	Unit number

show serial-security

Display current serial security setting

Syntax

- `show serial-security`

Default

None

Command mode

Privileged EXEC mode

show serial-security (User Exec)

Display current serial security setting

Syntax

- `show serial-security`

Default

None

Command mode

User Exec

show sftp-server

Shows the SFTP Server IP address

Syntax

- `show sftp-server`

Default

None

Command mode

User Exec

show slpp

Display SLPP information

Syntax

- `show slpp [interface [<WORD>]]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`interface`	Display SLP per-interface information
<WORD>	List of ports

show slpp-guard

Display SLPP-guard information

Syntax

- `show slpp-guard <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports

show slpp-guard (User Exec)

Display SLPP-guard information

Syntax

- `show slpp-guard <LINE>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<LINE>	List of ports

show smlt

Display Split Multi-Link Trunking (SMLT) configuration

Syntax

- `show smlt [Ethernet <1-512> | mlt <1-32>]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`Ethernet <1-512>`	Display SLT configuration using SLT ID
`mlt <1-32>`	Display SMLT configration for a specified MLT

show snmp-server

Display SNMP configuration

Syntax

- `show snmp-server {community | host | notification-control <WORD> | notify-filter | user | view}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<WORD>	Description or OID of a notification type
community	Display SNMP community strings
host	Display SNMP trap destinations
notification-control <WORD>	Display notification control table
notify-filter	Display SNMP notify filter configuration
user	Display SNMP users
view	Display SNMP views

show sntp

Display Simple Network Time Protocol (SNTP)

Syntax

- `show sntp`

Default

None

Command mode

Privileged EXEC mode

show spanning-tree

Sub-commands to display spanning tree information

Syntax

- `show spanning-tree mode`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
mode	Display Spanning Tree operation mode

show spanning-tree 802dot1d-port-compliance

Display 802dot1d port compliance mode

Syntax

- `show spanning-tree 802dot1d-port-compliance`

Default

None

Command mode

Privileged EXEC mode

show spanning-tree 802dot1d-port-compliance (User Exec)

Display 802dot1d port compliance mode

Syntax

- `show spanning-tree 802dot1d-port-compliance`

Default

None

Command mode

User Exec

show spanning-tree bpdu-filtering

Display BPDU filtering configuration

Syntax

- `show spanning-tree bpdu-filtering {[ethernet] port <LINE> | ignore-self}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`Ethernet`	Ethernet IEEE 802.3
`ignore-self`	Ignore bridge's own BPDUs
`port <LINE>`	The port list whose BPDU filtering settings will be displayed

show spanning-tree config

Display Spanning Tree configuration

Syntax

- `show spanning-tree config [port <LINE> | vlans] vlans`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
port	Display spanning tree status of each port
vlans	Display spanning-tree group VLAN members

show spanning-tree cost-calc-mode

Display pathcost type

Syntax

- `show spanning-tree cost-calc-mode`

Default

None

Command mode

Privileged EXEC mode

show spanning-tree mode

Display Spanning Tree operation mode

Syntax

- `show spanning-tree mode`

Default

None

Command mode

Privileged EXEC mode

show spanning-tree mstp

Syntax

- show spanning-tree mstp config
- show spanning-tree mstp msti config [<1-7> <LINE>]
- show spanning-tree mstp msti port config <1-7> <LINE>
- show spanning-tree mstp msti port role
- show spanning-tree mstp msti port statistics
- show spanning-tree mstp msti statistics
- show spanning-tree mstp port config
- show spanning-tree mstp port role <LINE>
- show spanning-tree mstp port statistics <LINE>
- show spanning-tree mstp statistics
- show spanning-tree mstp status

Default

None

Command mode

Privileged EXEC mode

show spanning-tree port

Display spanning tree status of each port

Syntax

- `show spanning-tree port {<LINE> | vlans}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
vlans	Display spanning-tree group VLAN members

show spanning-tree port-mode

Display spanning-tree port membership mode

Syntax

- `show spanning-tree port-mode`

Default

None

Command mode

Privileged EXEC mode

show spanning-tree rstp

Syntax

- `show spanning-tree rstp config`
- `show spanning-tree rstp port config`
- `show spanning-tree rstp port role`
- `show spanning-tree rstp port statistics`
- `show spanning-tree rstp port status`
- `show spanning-tree rstp statistics`
- `show spanning-tree rstp status`

Default

None

Command mode

Privileged EXEC mode

show spanning-tree stp

Display spanning-tree configuration for specified group ID

Syntax

- `show spanning-tree stp <1-8> {config vlans | {port <LINE>|vlans} | vlans}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
config	Display Spanning Tree configuration
port	Display spanning tree status of each port
vlans	Display spanning-tree group VLAN members

show spanning-tree vlans

Display spanning-tree group VLAN members

Syntax

- `show spanning-tree vlans`

Default

None

Command mode

Privileged EXEC mode

show ssh

Display SSH information

Syntax

- `show ssh [banner][download-auth-key][global][session]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`banner`	Display SSH Banner
`download-auth-key`	Display auth key TFTP download informaiton
`global`	Display general SSH settings
`sessions`	Display SSH session information

show sshc

Show SSHC satus

Syntax

- `show sshc [known-hosts | sessions]`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
known-hosts	Show SSH Client known hosts
sessions	Show SSH Client active sessions

show ssl

Display SSL configuration

Syntax

- `show ssl [certificate]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
certificate	Digital certificate information

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show stack

Show stacking information

Syntax

- `show stack {auto-unit-replacement [mac-addresses] | auto-unit-replacement-image | forced-mode | port-statistics unit <1-8> | reboot-on-failure | retry-count}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`auto-unit-replacement`	Display auto unit replacement configuration
`auto-unit-replacement-image`	Display auto unit image replacement configuration
`forced-mode`	Display the forced stack mode
`mac-addresses`	Display the AUR MAC address cache
`port-statistics`	Display stack port counters
`reboot-on-failure`	Display stack reboot-on-failure status
`retry-count`	Display stack retry count
`unit <1-8>`	Unit number

show stack auto-unit-replacement

Display auto unit replacement configuration

Syntax

- `show stack auto-unit-replacement mac-addresses`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`mac-addresses`	Display the AUR MAC address cache

show stack auto-unit-replacement-image

Display auto unit image replacement configuration

Syntax

- `show stack auto-unit-replacement-image`

Default

None

Command mode

Privileged EXEC mode

show stack forced-mode

Display the forced stack mode

Syntax

- `show stack forced-mode`

Default

None

Command mode

Privileged EXEC mode

show stack health

Display the status of each stacking link

Syntax

- `show stack health`

Default

None

Command mode

Privileged EXEC mode

show stack-info

Display stack information

Syntax

- `show stack-info uptime`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`uptime`	Display stack up-time for each unit

show stack-monitor

Display stack-monitor configuration

Syntax

- `show stack-monitor`

Default

None

Command mode

Privileged EXEC mode

show stack port-statistics

Display stack port counters

Syntax

- `show stack port-statistics unit <1-8>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`unit <1-8>`	Select unit number

show stack reboot-on-failure

Display stack reboot-on-failure status

Syntax

- `show stack reboot-on-failure`

Default

None

Command mode

Privileged EXEC mode

show stack retry-count

Display stack retry count

Syntax

- `show stack retry-count`

Default

None

Command mode

Privileged EXEC mode

show storm-control

Display packet storm control settings

Syntax

- `show storm-control [unicast [interface [Ethernet <LINE> | <LINE>]]]`

Default

None

Command mode

Command parameters

Parameter	Description
unicast	Display Unicast Storm Control configuration
interface	Select interfaces for which to display USC settings
Ethernet <LINE>	Select interfaces for which to display USC settings
<LINE>	List of ports

show sys-info

Display system information

Syntax

- `show sys-info`

Default

None

Command mode

Privileged EXEC mode

show system

Display consolidated system information

Syntax

- `show system {last-exception unit<1-8>|all} | verbose`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`last-exception`	Display last software exception information.
`unit <1-8>|all`	Display last exception for a specified unit
`verbose`	Display verbose system information

show tacacs

Display current TACACS+ server/port/key configuration

Syntax

- `show tacacs`

Default

None

Command mode

Privileged EXEC mode

show tdr

Display TDR test results

Syntax

- `show tdr <WORD>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<WORD>	List of ports

show tech

Display system information for Tech-Support

Syntax

- `show tech`

Default

None

Command mode

Privileged EXEC mode

show tech (User Exec)

Display system information for Tech-Support

Syntax

- `show tech`

Default

None

Command mode

User Exec

show telnet

Show telnet active sessions

Syntax

- `show telnet sessions`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
sessions	Show telnet active sessions

show telnet-access

Display configuration of telnet access

Syntax

- `show telnet-access`

Default

None

Command mode

Privileged EXEC mode

show terminal

Display terminal configuration parameters

Syntax

- `show terminal`

Default

None

Command mode

Privileged EXEC mode

show terminal (User Exec)

Display terminal configuration parameters

Syntax

- `show terminal`

Default

None

Command mode

User Exec

show tftp-server

Shows the TFTP Server IP address

Syntax

Default

None

Command mode

Privileged EXEC mode

show trace

Display trace information

Syntax

- `show trace {level | modid-list | status}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`level`	Display info for active trace module
`modid-list`	Display info for all trace modules
`status`	Display trace status

show ui-button

Display UI button mode

Syntax

- `show ui-button`

Default

None

Command mode

User Exec

show usb-files

Show USB files

Syntax

- `show usb-files {ascii <WORD> unit <1-8> | binary <WORD> unit <1-8> | dir <WORD> {tree unit<1-8>|unit<1-8> tree} | unit <1-8> {tree dir<WORD>|dir<WORD> tree}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<WORD>	The filename which will be displayed
ascii	Display the ASCII contents of a file.
binary	Display the binary contents of a file.
dir	Show files from a specific directory
tree	List subdirectories recursively
unit <1-8>	Unit

show usb-host-port

Show USB host port info

Syntax

- `show usb-host-port {all | unit <1-8>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`all`	Display USB host port info for all units
`unit <1-8>`	Display USB host port info of an unit in stack

show vlacp

Display VLACP configuration

Syntax

- `show vlacp interface <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	List of ports
interface	Display VLACP configuration for specified interfaces

show vlan configcontrol

Display VLAN control mode

Syntax

- `show vlan configcontrol`

Default

None

Command mode

Privileged EXEC mode

show vlan dhcp-relay

Display DHCP relay info for a particular VLAN

Syntax

- `show vlan dhcp-relay <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	VLAN list

show vlan id

Display specific VLAN

Syntax

- `show vlan id line type {port | protocol-decEther2 | protocol-ipEther2 | protocol-ipv6Ether2 | protocol-ipx802.2 | protocol-ipx802.3 | protocol-ipxEther2 | protocol-ipxSnap | protocol-Netbios | protocol-RarpEther2 | protocol-sna802.2 | protocol-snaEther2 | protocol-Userdef {all | ether | llc | snap} | protocol-vinesEther2 | protocol-xnsEther2 | voice-vlan}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
all	Display All Userdef VLANs
ether	Display Ethernet II Userdef VLANs
LINE	VLAN list
llc	Display LLC Userdef VLANs
port	Display port-based VLANs
protocol-decEther2	Display decEther2 VLANs
protocol-ipEther2	Display ipEther2 VLANs
protocol-ipv6Ether2	Display ipv6Ether2 VLANs
protocol-ipx802.2	Display ipx802.2 VLANs
protocol-ipx802.3	Display ipx802.3 VLANs
protocol-ipxEther2	Display ipxEther2 VLANs
protocol-ipxSnap	Display ipxSnap VLANs
protocol-Netbios	Display Netbios VLANs
protocol-RarpEther2	Display RarpEther2 VLANs
protocol-sna802.2	Display sna802.2 VLANs
protocol-snaEther2	Display snaEther2 VLANs
protocol-Userdef	Display Userdef VLANs
protocol-vinesEther2	Display vinesEther2 VLANs
protocol-xnsEther2	Display xnsEther2 VLANs
snap	Display SNAP Userdef VLANs

`type`	Display specific type of VLAN
`voice-vlan`	Display voice VLANs

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show vlan igmp

Display IGMP snoop settings

Syntax

- `show vlan igmp {<LINE> | unknown-mcast-allow-flood <1-4094> | unknown-mcast-no-flood}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-4094>	Vlan ID
<LINE>	VLAN list
unknown-mcast-allow-flood	Display list of multicast MAC addresses for which flooding is allowed
unknown-mcast-no-flood	Display setting for flooding packets with unknown multicast addresses

show vlan interface

Display VLAN configuration for specified interfaces

Syntax

- `show vlan interface {info | verbose | vids} <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	Port list
info	Display VLAN-related settings of ports
verbose	Display VLAN-related settings and membership of ports
vids	Display VLAN membership of ports

show vlan ip

Display IP info for VLANs

Syntax

- `show vlan ip [id <LINE>] summary`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`id <LINE>`	display for specific VLAN ID
`summary`	Display vlan ip summary

show vlan mgmt

Display mgmt vlan ID

Syntax

- `show vlan mgmt`

Default

None

Command mode

Privileged EXEC mode

show vlan multicast

Display VLAN multicast configuration

Syntax

- `show vlan multicast membership <1-4094>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-4094>	Vlan ID
membership	Display VLAN multicast membership

show vlan remote-span

Display Rspan VLANs

Syntax

- `show vlan remote-span`

Default

None

Command mode

Privileged EXEC mode

show vlan summary

Display a summary of VLANs

Syntax

- `show vlan summary`

Default

None

Command mode

Privileged EXEC mode

show vlan type

Display specific type of VLAN

Syntax

- `show vlan type {port | protocol-decEther2 | protocol-ipEther2 | protocol-ipv6Ether2 | protocol-ipx802.2 | protocol-ipx802.3 | protocol-ipxEther2 | protocol-ipxSnap | protocol-Netbios | protocol-RarpEther2 | protocol-sna802.2 | protocol-snaEther2 | protocol-Userdef {all | ether | llc | snap} | protocol-vinesEther2 | protocol-xnsEther2 | voice-vlan}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
all	Display All Userdef VLANs
ether	Display Ethernet II Userdef VLANs
llc	Display LLC Userdef VLANs
port	Display port-based VLANs
protocol-decEther2	Display decEther2 VLANs
protocol-ipEther2	Display ipEther2 VLANs
protocol-ipv6Ether2	Display ipv6Ether2 VLANs
protocol-ipx802.2	Display ipx802.2 VLANs
protocol-ipx802.3	Display ipx802.3 VLANs
protocol-ipxEther2	Display ipxEther2 VLANs
protocol-ipxSnap	Display ipxSnap VLANs
protocol-Netbios	Display Netbios VLANs
protocol-RarpEther2	Display RarpEther2 VLANs
protocol-sna802.2	Display sna802.2 VLANs
protocol-snaEther2	Display snaEther2 VLANs
protocol-Userdef	Display Userdef VLANs
protocol-vinesEther2	Display vinesEther2 VLANs
protocol-xnsEther2	Display xnsEther2 VLANs
snap	Display SNAP Userdef VLANs
voice-vlan	Display voice VLANs

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show vlan voice-vlan

Display voice VLANs

Syntax

- `show vlan voice-vlan`

Default

None

Command mode

Privileged EXEC mode

show vlan vrf

Display VLAN information belong to a particular VRF

Syntax

- `show vlan vrf <vrf_name>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<vrf_name>	VRF name

show vlan vrfids

Enter VRF IDs

Syntax

- `show vlan vrfids <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<LINE>	VRF IDs

show web-server

Display web server status

Syntax

- `show web-server`

Default

None

Command mode

Privileged EXEC mode

shutdown

Saves configuration and shutdown the switch/stack

Syntax

- `shutdown {cancel | [force] minutes-to-wait <1-60>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`cancel`	Cancel a previous scheduled shutdown
`force`	Do not ask for confirmation
`minutes-to-wait <1-60>`	Number of minutes to wait before reset

shutdown (Ethernet Interface Configuration)

Shutdown the selected interface.

Syntax

- `shutdown [port <portlist>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`port <portlist>`	Specifies a port or list of ports.

slamon agent-comm-port

Configures the agent-to-agent communication port.

Syntax

- `slamon agent-comm-port <0–65535>`
- `default slamon agent-comm-port`

Default

None

Command mode

Application Configuration

Command parameters

Parameter	Description
<0–65535>	Configures the SLA Monitor agent-to-agent communication UDP port.

slamon agent ip address

Configures the agent IP address.

Syntax

- `slamon agent ip address {A.B.C.D}`
- `default slamon agent ip address`

Default

None

Command mode

Application Configuration

Command parameters

Parameter	Description
{A.B.C.D}	Configures the agent IP address. If no IP address is specified, the default value is 0.0.0.0, which causes the agent to use the switch/stack IP address.

slamon agent port

Configures the UDP port.

Syntax

- `slamon agent port <0–65535>`
- `default slamon agent port`

Default

`50011`

Command mode

Application Configuration

Command parameters

Parameter	Description
<0–65535>	Configures the UDP port for agent-server communication. The agent receives discovery packets on this port. The default is port 50011. The server must use the same port.

slamon cli

Enables the SLA Monitor agent CLI support.

Syntax

- `slamon cli enable`
- `no slamon cli [enable]`
- `default slamon cli`

Default

None

Command mode

Application Configuration

slamon cli–timeout

Configure the agent automatic CLI session timeout value.

Syntax

- `[default] slamon cli-timeout <60-600>`

Default

`60`

Command mode

Application Configuration

Command parameters

Parameter	Description
<60–600>	Configures the CLI timeout value in seconds. The default is 60 seconds

slamon cli–timeout-mode

Enable the agent automatic CLI session timeout.

Syntax

- `slamon cli-timeout-mode enable`
- `default slamon cli-timeout-mode`
- `no slamon cli-timeout-mode [enable]`

Default

None

Command mode

Application Configuration

slamon ntr

Executes a new trace route (NTR) test on the network to establish the QoS benchmark.

Syntax

- `slamon ntr {A.B.C.D} <0–63> [attempts <1-10>] [period <1000-200000>]`

Default

None

Command mode

Application Configuration

Command parameters

Parameter	Description
<0–63>	Specifies the Differential Services Code Point (DSCP) value for use in packets that are generated by the NTR test.
<A.B.C.D>	Specifies the destination IP address. If no IP address is specified, the test execution fails.
attempts <1–10>	Specifies the number of attempts generated by the NTR test. The default value is 2.
period <1000–200000>	Specifies the interval between packets in microseconds, generated by the NTR test. The default interval is 20000 microseconds.

slamon oper-mode

Enables the SLA Monitor agent.

Syntax

- `slamon oper-mode enable`
- `no slamon oper-mode [enable]`
- `default slamon oper-mode`

Default

None

Command mode

Application Configuration

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slamon refuse-server-tests

Enables the agent refuse server test mode.

Syntax

- `slamon refuse-server-tests [refuse]`
- `no slamon refuse-server-tests [refuse]`
- `default slamon refuse-server-tests`

Default

None

Command mode

Application Configuration

slamon rtp

Executes a real time protocol (RTP) test on the network to establish the QoS benchmark.

Syntax

- `slamon rtp {A.B.C.D} <0–63> [npack <10-100>] [nsync <10-100>] [period <1000-200000>]`

Default

None

Command mode

Application Configuration

Command parameters

Parameter	Description
<0–63>	Specifies the DSCP value for use in packets that are generated by the RTP test.
<A.B.C.D>	Specifies the destination IP address. If no IP address is specified, the test execution fails.
npack <10–100>	Specifies the RTP npack value. The default value is 50.
nsync <10–100>	Specifies the RTP nsync value. The default value is 10.
period <1000–200000>	Specifies the interval between packets in microseconds, generated by the RTP test. The default interval is 20000 microseconds.

slamon server-bypass

Enables the agent server bypass mode.

Syntax

- `slamon server-bypass [enable]`
- `no slamon server-bypass [enable]`
- `default slamon server-bypass`

Default

None

Command mode

Application Configuration

slamon server ip address

Configures the agent server IP address.

Syntax

- `slamon server ip address {A.B.C.D} [{A.B.C.D}]`
- `default slamon server ip address`

Default

None

Command mode

Application Configuration

Command parameters

Parameter	Description
{A.B.C.D} [{A.B.C.D}]	Restricts the agent to use of this server IP address only. The default is 0.0.0.0, which means the agent can register with any server.

slamon server port

Configure the server TCP registration port.

Syntax

- `slamon server port <0–65535>`
- `default slamon server port`

Default

None

Command mode

Application Configuration

Command parameters

Parameter	Description
<0–65535>	Restricts the agent to use of this registration port only. The default is 0, which means the agent disregards the source port information in server traffic. The server must use the same port.

slpp

Configure SLPP global settings

Syntax

- `slpp {[enable][ethertype <0x0600-0xffff>][timeout <0 | <1-65535>][tx-interval <500-5000>][vid <LINE>]`
- `default slpp {[enable][ethertype ][timeout][tx-interval][vid]`
- `no slpp {[enable][timeout][vid [<WORD>]]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable SLPP
`ethertype <0x0600=0xffff>`	Set SLPP ethertype
`timeout {0 | <1-65535>}`	Set SLPP auto port re-enable timeout. 0 indicates port will not be re-enabled. <1-65535> indicates the amount of time when port is disabled (in seconds).
`tx-interval <500-5000>`	Set SLPP packet transmission interval in milliseconds
`vid <LINE>`	Set SLPP VLAN list

slpp (Ethernet Interface Configuration)

Configure SLPP for a set of ports.

Syntax

- `slpp [port <portlist>][enable][packet-rx-threshold <1-500>]`
- `default slpp [port <portlist>][enable][packet-rx-threshold]`
- `no slpp [port <portlist>][enable]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`port <portlist>`	List of ports on which to change SLPP settings
`enable`	Enable SLPP receive on ports
`packet-rx-threshold <1-500>`	Set number of SLPP packets received before port becomes disabled.

slpp-guard

Configure SLPP-guard global settings

Syntax

- `slpp-guard ethertype <0x0600-0xffff>`
- `default slpp-guard ethertype`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`ethertype <0x0600-0xffff>`	Ethertype used for SLPP-guard packets

slpp-guard (Ethernet Interface Configuration)

Configures SLPP Guard for switch ports.

Syntax

- `[default][no] slpp-guard [port <portlist>][enable][timeout {0| <10-65535>}]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
default	Sets SLPP Guard parameters to default values for a port or list of ports.
enable	Enables SLPP Guard parameters for a port or list of ports.
no	Disables SLPP Guard parameters for a port or list of ports.
port <portlist>	Specifies the port or list of ports on which the specified SLPP Guard parameter or parameters are configured
timeout {0|<10-65535>}	Specifies the time period, in seconds, for which SLPP Guard disables the port. After the timeout period expires, the switch re-enables the port. The timeout value can be 0 or a value ranging from 10 to 65535. With a value of 0, the port remains disabled until it is manually re-enabled. The default timeout value is 60 seconds.

smlt

Configures a Split Line Trunk (SLT)

Syntax

- `smlt [port <portlist>] <1-512>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`port <portlist>`	Specifies list of ports
`<1-512>`	SLT ID

snmp-server bootstrap

Generate SNMP bootstrap parameters

Syntax

- `snmp-server bootstrap <minimum-secure>|<semi-secure> |<very-secure>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`minimum-secure`	Use minimum security configuration
`semi-secure`	Use partial security configuration
`very-secure`	Use maximum security configuration

snmp-server community

Enable SNMP; set community string and access privs

Syntax

- `snmp-server community [read-view <WORD> | write-view <WORD>| notify-view <WORD> | ro |rw ]`
- `no snmp-server community {<WORD> | ro |rw }`
- `default snmp-server community { ro |rw }`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`notify-view <WORD>`	Enter notify (trap) access view name
`read-view <WORD>`	Enter read access view name
`ro`	Read-only access with this community string
`rw`	Read-write access with this community string
`write-view <WORD>`	Enter write access view name

snmp-server contact

Text for mib object sysContact

Syntax

- `snmp-server contact <LINE>`
- `no snmp-server contact`
- `default snmp-server contact`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	Identification of the contact person for this managed node

snmp-server disable

Disable SNMP access

Syntax

- `snmp-server disable`

Default

None

Command mode

Global configuration mode

snmp-server enable

Enable SNMP access

Syntax

- `snmp-server enable`

Default

None

Command mode

Global configuration mode

snmp-server host

Specify hosts to receive SNMP notifications

Syntax

- `snmp-server host [A.B.C.D] [<WORD>] [port <1-65535>] [v1 <WORD> filter <WORD>] [v2c <WORD> {filter <WORD> | inform {[timeout <1-2147483647>] [retries <0-255>]} [v3 <auth | no-auth> <WORD>]`
- `no snmp-server host [A.B.C.D] [<WORD>] [port <1-65535>] [v1] [v2c] [v3] [ <WORD>]`
- `default snmp-server host`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<WORD>	IPv6 Address of SNMP Notification Host
A.B.C.D	IP address of SNMP notification host
auth	Generate authenticated traps
filter <WORD>	Create SNMP notify filter profile
inform	Generate acknowledge Inform requests
no-auth	Generate unauthenticated traps
port <1-65535>	Select a non-standard SNMP trap port
retries <0-255>	Retries for inform requests
timeout <1-2147483647>	Timeout for inform requests (centi-seconds)
v1 <WORD>	Create SNMPv1 trap receiver
v2c <WORD>	Create SNMPv2c trap receiver
v3	Create SNMPv3 trap receiver

snmp-server location

Modify text for mib object sysLocation

Syntax

- `snmp-server location <LINE>`
- `no snmp-server location`
- `default snmp-server location`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	The physical location of this node

snmp-server name

Modify text for mib object sysName

Syntax

- `snmp-server name <LINE>`
- `no snmp-server name`
- `default snmp-server name`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	The system name of this node

snmp-server notification-control

Enable generation of a notification type

Syntax

- `snmp-server notification-control <WORD> <LINE>`
- `no snmp-server notification-control <WORD> <LINE>`
- `default snmp-server notification-control <WORD> <LINE>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	List of ports
<WORD>	Description or OID of a notification type

snmp-server notify-filter

Create SNMP notify filter

Syntax

- `snmp-server notify-filter <Profile-name> <WORD> [<WORD>] [<WORD>] [<WORD>] [<WORD>] [<WORD>] [<WORD>] [<WORD>] [<WORD>] [<WORD>]`
- `no snmp-server notify-filter <WORD> [<WORD>]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<Profile-name>	Filter profile name
<WORD>	Description or OID filter specification

snmp-server user

Create SNMPv3 user

Syntax

- `snmp-server user {[engine-id <WORD> <user-name>] [md5 [<3des | aes | des>]][sha] | [WORD [md5 [3des [notify-view <WORD>][read-view <WORD>][write-view <WORD>]][aes][des] [read-view <WORD>] [write-view <WORD>] [notify-view <WORD>][notify-view <WORD>][read-view <WORD>][sha][write-view <WORD>]}`
- `no snmp-server user [engine-id <WORD>] | [WORD]`
- `default snmp-server port`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<user-name>	User name
engine-id <WORD>	Enter a remote SNMP entity's snmpEngineID
md5 [3des][aes][des]	Select MD5 authentication protocol
sha	Select SHA authentication protocol
notify-view <WORD>	Enter unauthenticated notify (trap) access view name
read-view <WORD>	Enter unauthenticated read access view name
write-view <WORD>	Enter unauthenticated write access view name

snmp-server view

Create/modify an SNMP access view

Syntax

- `snmp-server view <view-name> <OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID>]]]]]]]]]`
- `no snmp-server view <view-name>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<OID>	OID view specification
<view-name>	View name

sntp enable

Enable Simple Network Time Protocol (SNTP) parameters

Syntax

- `sntp enable`
- `no sntp enable`
- `default sntp enable`

Default

None

Command mode

Global configuration mode

sntp server primary

Configure primary SNTP server

Syntax

- `sntp server primary address {A.B.C.D} | [WORD]`
- `no sntp server primary`
- `default sntp server primary`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
{A.B.C.D}	server IP address
<WORD>	primary server IPV6 address (45 length)
address	primary server address

sntp server secondary

Configure secondary SNTP server

Syntax

- `sntp server secondary address {A.B.C.D} | [WORD]`
- `no sntp server secondary`
- `default sntp server secondary`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
{A.B.C.D}	server IP address
<WORD>	secondary server IPV6 address (45 length)
address	secondary server address

sntp sync-interval

Set SNTP re-synchronization interval

Syntax

- `sntp sync-interval <0-168>`
- `default sntp sync-interval`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<0-168>	SNTP re-synchronization interval hours

sntp sync-now

Force immediate SNTP synchronization

Syntax

- `sntp sync-now`

Default

None

Command mode

Global configuration mode

spanning-tree 802dot1d-port-compliance

Set 802dot1d port compliance mode

Syntax

- `spanning-tree 802dot1d-port-compliance enable`
- `no spanning-tree 802dot1d-port-compliance enable`
- `default spanning-tree 802dot1d-port-compliance enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
enable	Enable 802dot1d port compliance mode

spanning-tree add-vlan

Add a VLAN to a spanning-tree group

Syntax

- `spanning-tree add-vlan <1-4094>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-4094>	VLAN ID

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spanning-tree bpdu-filtering

Configure spanning-tree bpdu-filtering

Syntax

- `spanning-tree bpdu-filtering ignore-self`
- `no spanning-tree bpdu-filtering ignore-self`
- `default spanning-tree bpdu-filtering ignore-self`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`ignore-self`	Ignore bridge's own BPDUs

spanning-tree bpdu-filtering (Ethernet Interface Configuration)

Configures STP BPDU filtering.

Syntax

- `spanning-tree bpdu-filtering [port <portlist>] [enable] [timeout <10-65535 | 0> ]`
- `no spanning-tree bpdu-filtering [enable] [port <portlist>enable]`
- `default spanning-tree bpdu-filtering [enable] [port <portlist>enable]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`enable`	Enables STP BPDU Filtering on the specified ports. The default value is disabled
`port <portlist>`	Specifies the ports affected by the command.
`timeout <10-65535 | 0 >`	When BPDU filtering is enabled, this indicates the time (in seconds) during which the port remains disabled after it receives a BPDU. The port timer is disabled if this value is set to 0. The default value is 120 seconds.

spanning-tree cost-calc-mode

Set pathcost type IEEE 802.1d or IEEE 802.1t

Syntax

- `spanning-tree cost-calc-mode [dot1d | dot1t]`
- `default spanning-tree cost-calc-mode`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
dot1d	IEEE 802.1d pathcost
dot1t	IEEE 802.1t pathcost

spanning-tree (Ethernet Interface Configuration)

Sets the Spanning Tree Protocol (STP) and multiple Spanning Tree Group (STG) participation for the ports within the specified Spanning Tree Group.

Syntax

- `spanning-tree [port <portlist>] [stp <1-8>] [learning {disable | normal | fast}] [cost <1-65535>] [priority {00 | 10 | < | F0}`
- `default spanning-tree [port <portlist>] [stp <1-8>] [learning] [cost] [priority]`
- `no spanning-tree [port <portlist>] [stp <1-8>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`cost <1-65535>`	Enter the path cost of the spanning tree; range is from 1–65535.
`learning {disable|normal|fast}`	Specify the STP learning mode: disable: disables FastLearn mode; normal: changes to normal learning mode; fast: enables FastLearn mode.
`port <portlist>`	Enable the spanning tree for the specified port or ports; enter port or ports you want enabled for the spanning tree. If you omit this parameter, the system uses the port number you specified when you issued the interface command to enter the Interface Configuration mode.
`priority {00 | 10 | < | F0}`	Set the spanning tree priority for a port as a hexadecimal value.
`stp <1-8>`	Specify the spanning tree group; enter the STG ID.

spanning-tree forward-time

Set spanning tree forwarding time

Syntax

- `spanning-tree forward-time <4-30> [hello-time <1-10>] [max-age <6-40>] [multicast-address <H.H.H>] [priority {[0000] [1000] [2000] [3000] [4000] [5000] [6000] [7000] [8000] [9000] [a000] [b000] [c000] [d000] [e000] [f000]}] [tagged-bpdu {[disable] [enable]}] [tagged-bpdu-vid <1-4094>]`
- `default spanning-tree forward-time [hello-time] [max-age] [multicast-address] [priority] [tagged-bpdu]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<4-30>	seconds
disable	Disable tagged BPDUs on tagged ports
enable	Enable tagged BPDUs on tagged ports
hello-time <1-10>	Set spanning tree hello time
max-age <6-40>	Set spanning tree maximum age
multicast-address <H.H.H>	Set spanning-tree multicast MAC address
priority (0000 - f000 priority value in Hex)	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.
tagged-bpdu	Enable/disable tagged BPDUs on tagged ports
tagged-bpdu-vid <1-4094>	Set VLAN ID for tagged BPDUs

spanning-tree hello-time

Set spanning tree hello time

Syntax

- `spanning-tree hello-time <1-10> [max-age <6-40>] [multicast-address <H.H.H>] [priority {[0000] [1000] [2000] [3000] [4000] [5000] [6000] [7000] [8000] [9000] [a000] [b000] [c000] [d000] [e000] [f000]}] [tagged-bpdu {[disable] [enable]}] [tagged-bpdu-vid <1-4094>]`
- `default spanning-tree hello-time [max-age] [multicast-address] [priority] [tagged-bpdu]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`disable`	Disable tagged BPDUs on tagged ports
`enable`	Enable tagged BPDUs on tagged ports
`hello-time <1-10>`	Set spanning tree hello time
`max-age <6-40>`	Set spanning tree maximum age
`multicast-address <H.H.H>`	Set spanning-tree multicast MAC address
`priority (0000 - f000 priority value in Hex)`	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.
`tagged-bpdu`	Enable/disable tagged BPDUs on tagged ports
`tagged-bpdu-vid <1-4094>`	Set VLAN ID for tagged BPDUs

spanning-tree max-age

Set spanning tree maximum age

Syntax

- `spanning-tree max-age <6-40> [multicast-address <H.H.H>] [priority {[0000] [1000] [2000] [3000] [4000] [5000] [6000] [7000] [8000] [9000] [a000] [b000] [c000] [d000] [e000] [f000]}] [tagged-bpdu {[disable] [enable]} [tagged-bpdu-vid <1-4094>]`
- `default spanning-tree max-age <6-40> [multicast-address] [priority] [tagged-bpdu]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`disable`	Disable tagged BPDUs on tagged ports
`enable`	Enable tagged BPDUs on tagged ports
`max-age <6-40>`	Set spanning tree maximum age
`multicast-address <H.H.H>`	Set spanning-tree multicast MAC address
`priority (0000 - f000 priority value in Hex)`	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.
`tagged-bpdu`	Enable/disable tagged BPDUs on tagged ports
`tagged-bpdu-vid <1-4094>`	Set VLAN ID for tagged BPDUs

spanning-tree mode

Set spanning tree operation mode

Syntax

- `spanning-tree mode [mst] | [rstp] | [stpg]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
mst	802.1s Multi Spanning Tree Protocol
rstp	802.1w Rapid Spanning Tree Protocol (single group/instance)
stpg	Avaya Multi Spanning Tree Protocol

spanning-tree mstp

Syntax

- `spanning-tree mstp {add-vlan <1-4094> | forward-time <4-30> | max-age <6-40> | max-hop <100-4000> | msti <1-7> [add-vlan <1-4094> | enable | map-vlans <LINE> | priority {0000 | 1000 | … | f000} | remote-vlan <1-4094>] | pathcost-type {bits16 | bits32} | priority {0000 | 1000| ... | f000} | region {config-id-sel <0-255> | region-name <LINE> | region-version <0-65535>}`

Default

None

Command mode

Command parameters

Parameter	Description
`add-vlan <1-4094>`	Add a vLAN to the CIST bridge
`forward-time <4-30>`	Set forward delay time for the CIST bridge in seconds
`max-age <6-40>`	Set maximum age time for the CIST bridge in seconds
`max-hop <100-4000>`	Set maximum hop count for the CIST bridge
`msti <1-7> add-vlan <1-4094>`	Add a VLAN to the CIST bridge for the specified MSTP instance ID
`msti <1-7> enable`	Enable the MSTP instance-specific bridge
`msti <1-7> map-vlans <vlan_list>`	map vlans in list to MSTP instance
`msti <1-7> priority {0000 | 10000 | … | f000}`	Set priority for the MSTP instance-specific bridge
`msti <1-7> remove-vlan <1-4094>`	Remove a VLAN from the MSTP instance-specific bridge
`pathcost-type {bits16 | bits32}`	Set patchcost default type for the CIST bridge
`priority {0000 | 1000 | … | f000}`	Set priority for the CIST bridge
`region config-id-sel <0-255>`	Set Config ID Selector for the MSTP Instances
`region region-name <LINE>`	Set Region Name for the MSTP instances
`region region-version <0-65535>`	Set Region Version for the MSTP instances
`remove-vlan <1-4094>`	Remove a VLAN from the CIST bridge
`tx-holdcount <1-10>`	Set transmit hold count for the CIST bridge
`version {mstp | rstp | stp-compatible}`	Set version for the CIST bridge

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spanning-tree mstp (Ethernet Interface Configuration)

Sets the MSTP parameters.

Syntax

- `spanning-tree MSTP [port <portlist>] [cost <1 - 200000000>] [edge-port {false | true}][hello-time <1 - 10>] [learning {disable | enable}][p2p {auto | force-false | force-true}] [priority {00 | 10 | < | F0}] [protocol-migration {false | true}][instance-specific <1-7>]`
- `default spanning-tree mstp [port <LINE>] [cost][edge-port][hello-time][learning][p2p][priority][protocol-migration]`
- `spanning-tree mstp msti [ <1-7> ] [ port LINE ] [ cost ] <1-200000000> [ learning {disable | enable }] [priority {00 | 10 | < | F0}]`
- `default spanning-tree mstp msti <1-7> [port<portlist>] [cost] [learning] [priority]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`cost <1 - 200000000>`	Set the MSTP path cost on the single or multiple ports for the CIST; the default is 200000.
`edge-port {false | true}`	Indicate whether the single or multiple ports are assumed to be edge ports. This parameter sets the Admin value of edge port status; the default is false.
`hello-time <1 - 10>`	Set the MSTP hello time on the single or multiple ports for the CIST; the default is 2.
`instance-specific <1-7>`	Set the MSTP instance-specific configuration in a range from 1–7 (filter on the MSTP instance).
`learning {disable | enable}`	Enable or disable MSTP on the single or multiple ports; the default is enable.
`p2p {auto | force-false | forcetrue}`	Indicate whether the single or multiple ports are treated as point-to-point links. This command sets the Admin value of P2P Status; the default is force-true.
`port <portlist>`	Enter a list or range of port numbers.
`priority {00 | 10`	

`|... | F0} protocol-migration {false | true}`	Set the MSTP port priority on the single or multiple ports; the default is 80. Force the single or multiple ports to transmit MSTP BPDUs when set to true, while operating in MSTP mode; the default is false.

spanning-tree multicast-address

Set spanning-tree multicast MAC address

Syntax

- `spanning-tree multicast-address <H.H.H>`
- `default spanning-tree multicast-address`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<H.H.H>	Multicast MAC Address (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)

spanning-tree port-mode

Set spanning-tree port membership mode

Syntax

- `spanning-tree port-mode [auto] | [normal]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
auto	spanning-tree auto port membership mode
normal	spanning-tree normal port membership mode

spanning-tree priority

Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.

Syntax

- `spanning-tree priority {[0000] [1000] [2000] [3000] [4000] [5000] [6000] [7000] [8000] [9000] [a000] [b000] [c000] [d000] [e000] [f000]}] [multicast-address <H.H.H>][tagged-bpdu {[disable] [enable]}] [tagged-bpdu-vid <1-4094>]`
- `default spanning-tree priority [multicast-address] [tagged-bpdu] [tagged-bpdu-vid]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`disable`	Disable tagged BPDUs on tagged ports
`enable`	Enable tagged BPDUs on tagged ports
`multicast-address <H.H.H>`	Set spanning-tree multicast MAC address
`priority (0000 - f000 priority value in Hex)`	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.
`tagged-bpdu`	Enable/disable tagged BPDUs on tagged ports
`tagged-bpdu-vid <1-4094>`	Set VLAN ID for tagged BPDUs

spanning-tree remove-vlan

Remove a VLAN from a spanning-tree group

Syntax

- `spanning-tree remove-vlan <1-4094>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-4094>	VLAN ID

spanning-tree rstp

Syntax

Default

None

Command mode

Command parameters

Parameter	Description
forward-time <4-30>	Set forward delay time for the bridge in seconds
hello-time <1-10>	Set hello time for the bridge in seconds
max-age <6-40>	Set max age time for the bridge in seconds
pathcost-type {bits16 | bits32}	Set pathcost default type for the bridge
priority {0000 | 1000 | … | f000}	Set priority for the bridge
tx-holdcount <1-10>	Set transmit hold count for the bridge
version { rstp | stp-compatible}	Set version for the bridge

spanning-tree rstp (Ethernet Interface Configuration)

Sets the RSTP parameters.

Syntax

- `spanning-tree rstp [port <portlist>] [cost <1 - 200000000>] [edge-port {false | true}] [learning {disable | enable}] [p2p {auto | force-false | force-true}] [priority {00 | 10 | ... | F0}] [protocol-migration {false | true}]`
- `default spanning-tree rstp [port <LINE>] [ cost | edge-port | learning | p2p | priority | protocol-migration ]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`cost <1 - 200000000>`	Set the RSTP path cost on the single or multiple ports; the default is 200000.
`edge-port {false | true}`	Indicate whether the single or multiple ports are assumed to be edge ports. This parameter sets the Admin value of edge port status; the default is false.
`learning {disable | enable}`	Enable or disable RSTP on the single or multiple ports; the default is enable.
`p2p {auto | force-false | force-true}`	Indicate whether the single or multiple ports are to be treated as point-to-point links. This command sets the Admin value of P2P Status; the default is force-true.
`port <portlist>`	Filter on list of ports.
`priority {00 | 10 |... | F0}`	Set the RSTP port priority on the single or multiple ports; the default is 80.
`protocol-migration {false | true}`	Force the single or multiple port to transmit RSTP BPDUs when set to true, while operating in RSTP mode; the default is false.

spanning-tree stp

Specify spanning-tree group ID

Syntax

- `spanning-tree [stp <1-8>] [forward-time <4-30>] [hello-time <1-10>] [max-age <6-40>] [priority {[0000] [1000] [2000] [3000] [4000] [5000] [6000] [7000] [8000] [9000] [a000] [b000] [c000] [d000] [e000] [f000]}] [tagged-bpdu {enable | disable}] [tagged-bpdu-vid <1-4094>] [multicast-address <H.H.H>] [add-vlan <1-4094>] [create] [delete] [disable] [enable] [remove-vlan <1-4094>]`
- `default spanning-tree stp <1-8> [forward-time] [hello-time] [max-age] [priority] [tagged-bpdu] [multicast-address]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<1-8>`	STPG ID
`add-vlan <1-4094>`	Add a VLAN to a spanning-tree group
`create`	Create a spanning-tree group (STG)
`delete`	Delete a spanning-tree group (STG)
`disable`	Disable a spanning tree group (STG)
`enable`	Enable a spanning tree group (STG)
`forward-time <4-30>`	Set spanning tree forwarding time
`hello-time <1-10>`	Set spanning tree hello time
`max-age <6-40>`	Set spanning tree maximum age
`multicast-address <H.H.H>`	Set spanning-tree multicast MAC address
`priority (0000 - f000 priority value in Hex)`	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.
`remove-vlan <1-4094>`	Remove a VLAN from a spanning-tree group
`tagged-bpdu {enable | disable}`	Enable/disable tagged BPDUs on tagged ports
`tagged-bpdu-vid <1-4094>`	Set VLAN ID for tagged BPDUs

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spanning-tree tagged-bpdu

Enable/disable tagged BPDUs on tagged ports

Syntax

- `spanning-tree tagged-bpdu {enable | disable}] [tagged-bpdu-vid <1-4094>] [multicast-address <H.H.H>]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`disable`	Disable tagged BPDUs on tagged ports
`enable`	Enable tagged BPDUs on tagged ports
`multicast-address <H.H.H>`	Set spanning-tree multicast MAC address
`tagged-bpdu-vid <1-4094>`	Set VLAN ID for tagged BPDUs

spanning-tree tagged-bpdu-vid

Set VLAN ID for tagged BPDUs

Syntax

- `spanning-tree tagged-bpdu-vid <1-4094> [multicast-address <H.H.H>]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`multicast-address <H.H.H>`	Set spanning-tree multicast MAC address
`tagged-bpdu-vid <1-4094>`	Set VLAN ID for tagged BPDUs

speed

Sets the port speed.

Syntax

- `speed [port <portlist>] {10 | 100 | 1000 | 10000 | auto}`
- `default speed [port <portlist>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`10|100|1000|10000|auto`	Set the speed to: 10: 10 Mb/s; 100: 100 Mb/s; 1000: 1000 Mb/s or 1 GB/s; 10000: 10000 Mb/s; auto: autonegotiation.
`port <portlist>`	List of ports.

ssh

Configure SSH settings

Syntax

- `ssh [download-auth-key {[address <A.B.C.D> | <WORD>][dsa][key-name <WORD>][rsa][usb [unit <1-8>][[key-name <WORD>]}] [download-banner {[address <A.B.C.D> | <WORD>][filename <WORD>]}] [dsa-auth][dsa-host-key][pass-auth][port <1-65535>][retries <1-100>][rsa-auth][rsa-host-key][secure [force]][timeout <1-120>]`
- `default ssh { [dsa-auth][pass-auth][port][retries][rsa-auth][timeout]}`
- `no ssh { [dsa-auth][dsa-auth-key][dsa-host-key][pass-auth][rsa-auth][rsa-auth-key][rsa-host-key]}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`download-auth-key`	Download SSH authentication key
`download-banner`	Download SSH authentication key
`dsa-auth`	Download SSH authentication key
`dsa-host-key [force]`	Download SSH authentication key
`pass-auth`	Download SSH authentication key
`port <1-65535>`	Download SSH authentication key
`retries <1-100>`	Download SSH authentication key
`rsa-atuh`	Download SSH authentication key
`rsa-host-key [force]`	Download SSH authentication key
`secure [force]`	Download SSH authentication key
`timeout <1-120>`	Download SSH authentication key
`address <A.B.C.D |<WORD>`	Specify TFTP server address
`dsa`	Download SSH DSA authentication key
`key-name <WORD>`	Specify filename for TFTP server or USB
`rsa`	Download SSH RSA authentication key
`usb`	Download SSH authentication key via USB

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sshc

Configure SSHC settings

Syntax

- `sshc { [authentication <dsa | password | rsa>][close-session <0-8>][dsa-host-key [force]][dsa-key <512-1024>][port <1-65535>][rsa-host-key[force]][rsa-key <1024-2048>][upload-host-key { [address <A.B.C.D> | <WORD>] [ key-name <WORD> <dsa | rsa> ] [usb [unit <1-8>]`
- `default sshc { [authentication ][dsa-key][dsa-keysize][port][rsa-key][rsa-keysize]}`
- `no sshc { [authentication ][dsa-host-key][rsa-host-key]}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`authentication {dsa|password|rsa}`	Enable SFTP authentication method
`close-session <0-8>`	Close SSH Client Session ID
`dsa-host-key [force]`	Generate new SSHC DSA host key
`dsa-key <512-1024>`	Set the SSHC DSA host key size and generate a new key at the next system reboot
`port <1-65535>`	Set SSHC port for accepting new connections
`rsa-host-key [force]`	Generate new SSHC RSA host key
`rsa-key <1024-2048>`	Set the SSHC RSA host key size and generate a new key at the next system reboot
`upload-host-key`	Upload SSHC host key to either a TFTP server or USB
`address <A.B.C.D |<WORD>`	Spedify TFTP server address
`key-name <A.B.C.D | WORD>`	Specify the filename to be uploaded to either the TFTP server or USB
`usb`	Upload SSHC host key to USB
`unit <1-8>`	Upload SSHC host key to USB of specified unit in a stack
`dsa`	Upload DSA authentication key to TFTP server or USB
`rsa`	Upload RSA authentication key to TFTP server or USB

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ssh (User Exec)

SSH to another host

Syntax

- `ssh {Hostname or A.B.C.D | <WORD> } [port <0-65535>][username <WORD>]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
Hostname or A.B.C.D	remote host name or IP address
WORD	remote host IPv6 address (45 length)
port <0-65535>	tcp port number
username <WORD>	User name

ssl

Configure Secure Sockets Layer (SSL)

Syntax

- `ssl [certificate][reset]`
- `no ssl certificate`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`certificate`	Create a digital certificate
`reset`	Reset the SSL server

stack auto-unit-replacement

Set auto unit replacement settings

Syntax

- `stack auto-unit-replacement config {restore unit <1-8> | save [disable] [enable] [unit <1-8>]}`
- `no stack auto-unit-replacement enable`
- `default stack auto-unit-replacement enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`config`	Modify AUR operational settings
`disable`	Disable AUR auto-save
`enable`	Enable AUR auto-save
`restore`	Restore configuration of a unit from the saved configuration on the base unit
`save`	Enable/disable auto-save of unit configuration to base unit
`unit <1-8>`	Force immediate save of NBU config to BU

stack auto-unit-replacement config

Modify AUR operational settings

Syntax

- `stack auto-unit-replacement config {restore unit <1-8>} | save {disable |enable |unit <1-8>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`disable`	Disable AUR auto-save
`enable`	Enable AUR auto-save
`restore`	Restore configuration of a unit from the saved configuration on the base unit
`save`	Enable/disable auto-save of unit configuration to base unit
`unit`	Force immediate save of NBU config to BU
`unit <1-8>`	select unit

stack auto-unit-replacement-image

Set auto unit image replacement settings

Syntax

- `stack auto-unit-replacement-image enable`
- `no stack auto-unit-replacement-image enable`
- `default stack auto-unit-replacement-image enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
enable	Enable auto unit image replacement

stack auto-unit-replacement remove-mac-address

Remove a unit's MAC address from the AUR cache

Syntax

- `stack auto-unit-replacement remove-mac-address unit <1-8>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`unit <1-8>`	select unit

stack forced-mode

Enables the forced stack mode

Syntax

- `stack forced-mode`
- `no stack forced-mode`
- `default stack forced-mode`

Default

None

Command mode

Global configuration mode

stack loopback-test

Stack ports loopback test

Syntax

- `stack loopback-test {external | internal}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
external	External loopback test for the stack ports
internal	Internal loopback test for the stack ports

stack-monitor

Configure stack monitoring

Syntax

- `stack-monitor [enable] [stack-size <2-8>] [trap-interval <30-300>]`
- `no stack-monitor enable`
- `default stack-monitor [enable] [stack-size] [trap-interval]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable stack monitoring
`stack-size <2-8>`	Set stack size to be monitored <2-8>
`trap-interval <30-300>`	Set interval between traps (seconds) <30-300>

stack reboot-on-failure

Reboot stack units when their stacking ports fail to come up

Syntax

- `stack reboot-on-failure`
- `no stack reboot-on-failure`
- `default stack reboot-on-failure`

Default

None

Command mode

Global configuration mode

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stack replace

Replace a stack member that is down

Syntax

- `stack replace unit <1-8>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`unit <1-8>`	Select the unit to be replaced

stack retry-count

Configure stack retry count

Syntax

- `stack retry-count <0-4294967295>`
- `default stack retry-count`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<0-4294967295>	retry count

storm-control unicast

Configure unicast storm control settings

Syntax

- `default storm-control unicast [enable][high-watermark][low-watermark][poll-interval][trap-send-interval]`
- `no storm-control unicast enable`
- `storm-control unicast [enable][high-watermark <11-100000000>][low-watermark <10-99999999>][poll-interval <5-300>][trap-send-interval <0-1000>]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enables storm control on the unicast interface
`high-watermark <11-100000000>`	Set high-watermark in pps for the unicast interface
`low-watermark <10-99999999>`	Set low-watermark in pps for the unicast interface
`poll-interval <5-300>`	Sets the interval for watermark checking (seconds) for the unicast interface
`trap-send-interval <0-1000>`	Sets the trap sending interval for the unicast interface in poll-intervals when above high-watermark (0= do not send)

tacacs accounting

Configure TACACS+ accounting to track what the user does

Syntax

- `tacacs accounting {disable | enable}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`disable`	disable accounting
`enable`	enable accounting

tacacs authorization

TACACS+ authorization determines what the user is allowed to do

Syntax

- `tacacs authorization {disable | enable | level {ALL | <LINE> | NONE}}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
ALL	all privilege levels
disable	disable authorization
enable	enable authorization
level	authorization level
LINE	Enable authorization on privilege level(s)
NONE	none privilege level

tacacs server

TACACS+ server's primary/secondary host, shared secret key and TCP port

Syntax

- `tacacs server [host {A.B.C.D}] [secondary-host {A.B.C.D}] [port <1–65535>] [key]`
- `no tacacs server [host] [secondary-host] [port] [key]`
- `default tacacs server [host] [secondary-host] [port] [key]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
{A.B.C.D}	IP address of primary TACACS+ server
{A.B.C.D}	IP address of secondary TACACS+ server
host {A.B.C.D}	TACACS+ primary host
key	TACACS+ shared secret
port <1–65535>	TACACS+ TCP port
secondary-host {A.B.C.D}	TACACS+ secondary host

tacacs switch

Switch between TACACS+ privilege levels

Syntax

- `tacacs switch {back | level <1-15>}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-15>	privilege level
back	Back one level
level	New privilege level

tdr

TDR test commands

Syntax

- `tdr test <WORD>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<WORD>	List of ports
test	Start TDR tests

telnet

Telnet to another host

Syntax

- `telnet {<hostname> | {A.B.C.D} | <WORD>} port <0-65535>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<hostname> | {A.B.C.D}`	remote host name or IP address
`<WORD>`	remote host IPv6 address (45 length)
`port <0-65535>`	tcp port number

telnet-access

Configure TELNET access settings

Syntax

- `telnet-access [enable | disable] [login-timeout <1-10>] [retry <1-100>] [inactive-timeout <0-60>] [logging {none | access | failures | all}] [source-ip {<1-50> {A.B.C.D} mask {A.B.C.D} | <51-100> <WORD>]`
- `no telnet-access source-ip {<1-50> | <51-100>}`
- `default telnet-access`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-50>	Select which address/mask pair
<51-100>	Select which ipv6 address/prefix
access	Log successful telnet connections
all	Log all telnet connections
disable	Disable TELNET access
enable	Enable TELNET access
failures	Log failed telnet connections
inactive-timeout <0-60>	Inactivity timeout for TELNET and CONSOLE sessions
logging {none | access | failures | all}	Level of logging for TELNET and CONSOLE attempts
login-timeout <1-10>	Set time to wait for TELNET and CONSOLE login before closing connection
mask {A.B.C.D}	Source IP mask from which connections are allowed
none	Do not log telnet connections
retry <1-100>	Number of allowed login attempts for TELNET and CONSOLE
source-ip	Set source IP address from which connections are allowed

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telnet (User Exec)

Telnet to another host

Syntax

- `telnet {Hostname | {A.B.C.D} | <WORD>} port <0-65535>`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<WORD>	remote host IPv6 address (45 length)
Hostname | {A.B.C.D}	remote host name or IP address
port <0-65535>	tcp port number

terminal

Set terminal line parameters

Syntax

- `terminal {length <0-132> | width <1-132>}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`length <0-132>`	Set number of lines on a screen
`width <1-132>`	Set width of the display terminal

terminal (User Exec)

Set terminal line parameters

Syntax

- `terminal {length <0-132> | speed <19200 | 2400 | 38400 | 4800 | 9600> |width <1-132>}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
`length <0-132>`	Set number of lines on a screen
`speed <19200 | 2400 | 38400 | 4800 | 9600?`	Set the transmit and receive speeds
`width <1-132>`	Set width of the display terminal

tftp-server

Configure the tftp server

Syntax

- `tftp-server {<A.B.C.D> | <WORD>}`
- `no tftp-server`
- `default tftp-server`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<A.B.C.D>	IP address of TFTP server
<WORD>	IPv6 address of TFTP server

timers basic

Sets the RIP global timeout, holddown timer, and update timer.

Syntax

- `[default] timers basic holddown <holdown-timer> timeout <global-timeout> update <update-timer>`
- `default timers basic [ holddown ] [ timeout ][ update ]`

Default

None

Command mode

RIP Router Configuration

Command parameters

Parameter	Description
<global-timeout>	Specifies the global timeout interval parameter. If a RIP router does not receive an update from another RIP router within the configured timeout period, it moves the routes advertised by the nonupdating router to the garbage list. The timeout interval must be greater than the update timer. Range is 15–259200 seconds. Default is 180 seconds.
<holdown-timer>	Specifies the global holddown timer, which is the length of time (in seconds) that RIP maintains a route in the garbage list after determining that it is unreachable. During this period, RIP continues to advertise the garbage route with a metric of infinity (16). If a valid update for a garbage route is received within the holddown period, the router adds the route back into its routing table. If no update is received, the router deletes the garbage list entry. Range is 0–360 seconds. Default is 120 seconds.
<update-timer>	Specifies a value for the RIP update timer, which is the time interval (in seconds) between regular RIP updates. The update timer value must be less than the timeout interval. Range is 0–360 seconds. Default is 30 seconds.
default	Returns the parameters to the factory default timer values: holddown timer: 120 seconds; global timeout: 180 seconds; update timer: 30 seconds.

timers basic holddown

Configures the OSPF hold own timer.

Syntax

- `timers basic holddown <timer_value>`
- `default timers basic [holddown]`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
`<timer_value>`	Specifies a hold down timer value between 3 and 60 seconds.

toggle-next-boot-image

Toggle next boot image

Syntax

- `toggle-next-boot-image`

Default

None

Command mode

Privileged EXEC mode

trace

Trace operations

Syntax

- `trace {level <1-7> <0-4>} | {screen <disable|enable>} | shutdown`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<0-4>	Trace level ID
<1-7>	Trace module ID
disable	Disable screen trace
enable	Enable screen trace
level	Set the trace module ID
screen	Enable/Disable screen trace
shutdown	Trace OFF

traceroute

Trace route to a remote host

Syntax

- `traceroute {Hostname | {A.B.C.D} | <WORD>} [<1-1460>] [-m <1-255>] [-p <0-65535>] [-q <1-255>] { -v | {-w <1-255>}[vrf <WORD>]}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-1460>	probe packet data length
-m	max ttl value
-p	base udp port number
-q	number of probes per ttl
-v	verbose mode
-w	wait time per probe

traceroute (User Exec)

Trace route to a remote host

Syntax

- `traceroute {Hostname | {A.B.C.D} | <WORD>} [<1-1460>] [-m <1-255>] [-p <0-65535>] [-q <1-255>] { -v | {-w <1-255>}[vrf <WORD>]}`

Default

None

Command mode

User Exec

Command parameters

Parameter	Description
<1-1460>	probe packet data length
<WORD>	ipv6 address of remote host
Hostname | {A.B.C.D}	remote host name or IP address
-m <1-255>	max ttl value
-p <1-65535>	base udp port number
-q <1-255>	number of probes per ttl
-v	verbose mode
-w <1-255>	wait time per probe
vrf <WORD?	Specify the VRF name

ui-button

Enable UI button

Syntax

- `ui-button [unit <1-8>] [enable]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable UI button
`unit <1-8>`	Specify unit number

usb-host-port

Enable USB Host Port

Syntax

- `usb-host-port {[unit <1-8>] [enable]}`
- `no usb-host-port {[unit <1-8>] [enable]}`
- `default usb-host-port {[unit <1-8>] [enable]}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`enable`	Enable USB Host Port
`unit <1-8>`	Unit number

username

Sets the RO/RW credentials

Syntax

- `username <WORD> <password> {ro | rw}`
- `default username {ro | rw}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<password>	Cleartext password (when password security is disabled)
<WORD>	Username
ro	Read-only user name reset to default.
rw	Read-write user name reset to default.

vlacp

Modify VLACP configuration

Syntax

- `vlacp {enable | hold_time <0-60> | macaddress <H.H.H>}`
- `no vlacp {enable | hold_time | macaddress}`
- `default vlacp {enable | hold_time | macaddress}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<H.H.H>	VLACP multicast address (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
enable	Enable VLACP for the system
hold_time	Time in seconds after restart to send PDUs with subtype HOLD. Used only when SMLT is enabled.
macaddress	Set the multicast address used for VLACPDU

vlacp (Ethernet Interface Configuration)

Configures VLACP parameters per port.

Syntax

- `vlacp port <slot/port> [enable] [timeout <long/short>] [fast-periodic-time <integer>] [slow-periodic-time <integer>] [timeout-scale <integer>] [funcmac-addr <mac>] [ethertype {<0x8101-0x81ff>|<33025-33279>}]`
- `no vlacp enable`
- `default vlacp [port <LINE>] [enable][ethertype][fast-periodic-time][funcmac-addr][port LINE][slow-periodic-time][timeout][timeout-scale]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`<slot/port>`	Specifies the slot and port number.
`enable`	Enables VLACP.
`ethertype {<0x8101-0x81ff>|<33025-33279>}`	Sets the VLACP protocol identification for this port. Defines the ethertype value of the VLACP frame. The range is 8101-81FF. Default is 8103.
`fast-periodic-time <integer>`	Specifies the number of milliseconds between periodic VLACPDU transmissions using short timeouts. The range is 400-20000 milliseconds. Default is 500.
`funcmac-addr <mac>`	Specifies the address of the far-end switch/stack configured to be the partner of this switch/stack. If none is configured, any VLACP-enabled switch communicating with the local switch through VLACP PDUs is considered to be the partner switch.
`slow-periodic-time <integer>`	Specifies the number of milliseconds between periodic VLACPDU transmissions using long timeouts. The range is 10000-30000 milliseconds. Default is 30000.
`timeout {long|short}`	Specifies whether the timeout control value for the port is a long or short timeout. long— sets the port timeout value to: (timeoutscale value) × (slow-periodic-time value). short— sets the port's timeout value to: (timeout-scale value) × (fast-periodic-time value). For example, if the timeout is set to short while the timeout-scale value is 5 and the fast-periodic-time value is 500 ms, the timer expires after 2500 ms. Default is long.

`timeout-scale <integer>`	Sets a timeout scale for the port, where timeout = (periodic time) × (timeout-scale). The range is 1-10. Default is 3. Note: When you use fast-timers, you do not use a timeout-scale of 1, because this breaks the link continuity from service due to the time taken to transmit VLACPDU and for the partner to provide a corresponding response. Avaya recommends that you set the minimum timeout-scale to 3. Avaya also recommends that you use the minimum setting of 5 for the timeout-scale when using the fast-periodic-timer of 500 ms.

vlan configcontrol

Configure the VLAN control mode

Syntax

- `vlan configcontrol {automatic | autopvid | flexible | strict}`
- `default vlan configcontrol`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`automatic`	AutoPVID and automatic change to membership of port-based VLANs
`autopvid`	Automatic change to PVID
`flexible`	No restricts or automatic changes
`strict`	AutoPVID and restrictions imposed on adding port to VLAN and changing tagging

vlan create

Create new VLAN

Syntax

- `vlan create [<2-4094>] [<LINE>] [name <LINE>] [type] [port] [protocol-decEther2] [decOtherEther2][protocol-ipEther2] [protocol-ipv6Ether2] [protocol-ipx802.2] [protocol-ipx802.3] [protocol-ipxEther2] [protocol-ipxSnap] [protocol-Netbios] [protocol-RarpEther2] [protocol-sna802.2] [protocol-snaEther2] [protocol-vinesEther2] [protocol-xnsEther2] [protocol-Userdef {ether <4096-65534> | llc <1-65534> | snap <1-65534>}][cist | msti <1-7>][remote-span] [voice-vlan]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-8>	Spanning Tree Group ID
<2-4094>	VLAN ID
<LINE>	VLAN List
ether <4096-65534>	Create Ethernet II Userdef VLAN
llc <1-65534>	Create LLC Userdef VLAN
name <LINE>	Specify name of new VLAN
port	Create port-based VLAN
protocol-decEther2	Create decEther2 VLAN
protocol-ipEther2	Create ipEther2 VLAN
protocol-ipv6Ether2	Create ipv6Ether2 VLAN
protocol-ipx802.2	Create ipx802.2 VLAN
protocol-ipx802.3	Create ipx802.3 VLAN
protocol-	

ipxEther2	Create ipxEther2 VLAN
protocol-ipxSnap	Create ipxSnap VLAN
protocol-Netbios	Create Netbios VLAN
protocol-RarpEther2	Create RarpEther2 VLAN
protocol-sna802.2	Create sna802.2 VLAN
protocol-snaEther2	Create snaEther2 VLAN
protocol-Userdef	Create Userdef VLAN
protocol-vinesEther2	Create vinesEther2 VLAN
protocol-xnsEther2	Create xnsEther2 VLAN
cist | msti <1-7>	Add VLAN to CIST or MSTI. Available only when Spanning Tree administration operating mode is MSTP.
remote-span	Create RSPAN VLAN
snap <1-65534>	Create SNAP Userdef VLAN
type	Specify type of new VLAN
voice-vlan	Create Voice VLAN

vlan delete

Delete a VLAN

Syntax

- `vlan delete <LINE>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	VLAN list

vlan igmp

Modify IGMP snoop settings

Syntax

- `vlan igmp [<1-4094>] [snooping {disable | enable}] [proxy {disable | enable}] [robust-value <2-255>][ query-interval <1-65535>] [v1-members {[add | remove] <LINE>}] [v2-members {[add | remove] <LINE>}]`
- `vlan igmp unknown-mcast-allow-flood <1-4094> {<A.B.C.D> | <H.H.H>}`
- `vlan igmp unknown-mcast-no-flood {disable | enable}`
- `no vlan igmp unknown-mcast-allow-flood <1-4094> {<A.B.C.D> | <H.H.H>}`
- `default vlan igmp {<1-4094> | unknown-mcast-allow-flood <1-4094> {<A.B.C.D> | <H.H.H> | <WORD>} | unknown-mcast-no-flood}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<1-4094>`	VLAN ID
`<A.B.C.D>`	Multicast IPv4 address
`<H.H.H>`	Multicast MAC Address (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
`<WORD>`	Mulitcast IPv6 address
`add`	Add port members
`LINE`	Port list
`proxy {disable | enable}`	Enable/disable VLAN proxy
`query-interval <1-65535>`	Set the IGMP query interval
`remove`	Remove port members
`robust-value <2-255>`	Set the IGMP robust value
`snooping {disable | enable}`	Enable/disable IGMP snooping

unknown-mcast-allow-flood	Add address to the list of multicast addresses for which flooding is allowed
unknown-mcast-no-flood	Enable/disable flooding of packets with an unknown multicast address
v1-members	Specify IGMPv1 static port membership.
v2-members	Specify IGMPv2 static port membership.

vlan members

Modify VLAN port membership

Syntax

- `vlan members {[add] [<VLANlist>] [remove]} <LINE>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	Port list
<VLANlist>	VLAN list
add	Add ports to a VLAN
remove	Remove ports from a VLAN

vlan mgmt

Set management VLAN

Syntax

- `vlan mgmt <1-4094>`
- `default vlan mgmt`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-4094>	VLAN ID

vlan name

Change the name of a VLAN

Syntax

- `vlan name <1-4094> <LINE>`
- `no vlan name <LINE>`
- `default vlan name <LINE>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1-4094>	VLAN ID
<LINE>	New name for VLAN

vlan ports

Modify VLAN port settings

Syntax

- `vlan ports <LINE> [tagging {disable | enable | tagAll | tagPvidOnly | untagAll | untagPvidOnly}] [pvid <1-4094>] [filter-untagged-frame {disable | enable}] [filter-unregistered-frames {disable | enable}] [priority <0-7>] [name <LINE>]`
- `no vlan ports name <LINE>`
- `default vlan ports name <LINE>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	Port list
disable	Disable tagging on this port
enable	Enable tagging on this port
filter-unregistered-frames {disable | enable}	Enable/disable filtering of unregistered frames
filter-untagged-frame {disable | enable}	Enable/disable filtering of untagged frames
name <LINE>	Set VLAN port name
priority <0-7>	Set VLAN port priority
pvid <1-4094>	Change PVID
tagAll	Enable tagging on this port
tagging {disable | enable | tagAll | tagPvidOnly | untagAll | untagPvidOnly}	Enable/disable tagging
tagPvidOnly	Enable tagging of packets matching the
untagAll	Disable tagging on this port
untagPvidOnly	Disable tagging of packets matching the Pv

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vlan remote-span

Enable RSPAN VLAN

Syntax

- `vlan remote-span <LINE>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	List of VLANs to be enabled

vlan voice-vlan

Change to voice VLAN

Syntax

- `vlan voice-vlan <LINE>`
- `no vlan <LINE> {remote-span | voice-vlan}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	The VLAN id

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vrf

Associate a VRF to a port.

Syntax

- `vrf <WORD>`
- `no vrf`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<WORD>	VRF name

vrf (VLAN Interface Configuration)

Associate a VRF to a VLAN

Syntax

- `vrf <WORD>`
- `no vrf`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<WORD>	VRF name

wan-mode

Enable WAN mode

Syntax

- `default wan-mode [port <portlist>][enable]`
- `no wan-mode [port <portlist>][enable]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
`port <portlist>`	Specify list of ports for operation
`enable`	Enable wan mode

web-server

Modify WEB server parameters

Syntax

- `web-server {disable | enable}`
- `no web-server`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`disable`	Disable HTTP access
`enable`	Enable HTTP access

write

Write configuration in nvram

Syntax

- `write memory`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
memory	Write configuration to local NV storage