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 ERS3500 for the 5.2 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

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

- A - 14 commands
- B - 3 commands
- C - 23 commands
- D - 8 commands
- E - 23 commands
- F - 1 commands
- H - 2 commands
- I - 46 commands
- L - 20 commands
- M - 4 commands
- P - 8 commands
- Q - 25 commands
- R - 16 commands
- S - 236 commands
- T - 10 commands
- U - 1 commands
- V - 11 commands
- W - 2 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.

- Application configuration mode
- FastEthernet configuration mode
- Global configuration mode
- Privileged EXEC mode
- User Exec mode
- VLAN Interface configuration mode

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Commands starting with A organized alphabetically

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

- adac
- adac call-server-port
- adac detection
- adac enable
- adac mac-range-table
- adac op-mode
- adac uplink-port
- adac voice-vlan
- arp
- asset-id
- auto-negotiation-advertisements
- auto-pvid
- autosave
- autotopology

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Commands starting with B organized alphabetically

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

- banner
- blink-leds
- boot

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Commands starting with C organized alphabetically

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

- clear arp-cache
- clear ip-blocking
- clear ip forward-protocol
- clear ip forward-protocol udp counters
- clear license
- clear logging
- clear mac-address-table
- clear stack port-statistics
- clear-stats
- clear system last-exception
- cli
- clock summer-time
- clock time-zone
- configure network address
- configure network filename
- configure network load-on-boot
- configure terminal
- configure usb
- copy config
- copy running-config tftp
- copy running-config usb
- copy sftp
- copy tftp

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Commands starting with D organized alphabetically

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

- default http-port
- default slamon oper-mode
- disable
- download address
- download diag
- download image
- download no-reset
- duplex

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Commands starting with E organized alphabetically

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

- eapol
- eapol (FastEthernet configuration mode)
- eapol guest-vlan
- eapol guest-vlan (FastEthernet configuration mode)
- eapol multihost
- eapol multihost dummy-adac-radius-requests
- eapol multihost fail-open-vlan
- eapol multihost (FastEthernet configuration mode)
- eapol multihost multivlan
- eapol multihost non-eap-mac
- eapol multihost non-eap-pwd-fmt
- eapol multihost non-eap-user-based-policies
- eapol multihost voip-vlan
- edm help-file-path
- enable
- end
- end (VLAN Interface configuration mode)
- energy-saver (FastEthernet configuration mode)
- energy-saver (Global configuration mode)
- energy-saver (Privileged EXEC mode)
- energy-saver schedule
- exit
- exit (VLAN Interface configuration mode)

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

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Home | Command modes | Alphabetical listing

Commands starting with F organized alphabetically

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

- flowcontrol

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Commands starting with H organized alphabetically

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

- help
- http-port

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Commands starting with I organized alphabetically

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

- igmp last-member-query-interval
- igmp query-interval
- igmp query-max-response
- igmp send-query
- install
- interface FastEthernet
- interface vlan
- ip address
- ip address (VLAN Interface configuration mode)
- ip arp-inspection
- ip arp-inspection
- ip arp-inspection (FastEthernet configuration mode)
- ip blocking mode
- ip bootp
- ip default-gateway
- ip dhcp client lease
- ip dhcp-relay
- ip dhcp-relay (FastEthernet configuration mode)
- ip dhcp-relay (VLAN Interface configuration mode)
- ip dhcp-snooping
- ip dhcp-snooping
- ip dhcp-snooping vlan
- ip directed-broadcast
- ip domain-name
- ip forward-protocol
- ip forward-protocol udp (VLAN Interface configuration mode)
- ip igmp
- ip igmp filter
- ip igmp flush vlan
- ip igmp mrouter
- ip igmp proxy
- ip igmp robust-value
- ip igmp router-alert
- ip igmp snooping
- ip igmp version
- ip igmp (VLAN Interface configuration mode)
- ip mgmt
- ipmgr
- ip name-server
- ip route
- ip routing
- ip routing (VLAN Interface configuration mode)
- ipv6
- ipv6 address
- ipv6 default-gateway
- ipv6 neighbor

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Commands starting with L organized alphabetically

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

- lacp aggregation
- lacp clear-stats
- lacp key
- lacp key (FastEthernet configuration mode)
- lacp mode
- lacp priority
- lacp system-priority
- lacp timeout-time
- lldp
- lldp (FastEthernet configuration mode)
- lldp location-identification (FastEthernet configuration mode)
- lldp med-network-policies
- lldp tx-tlv
- lldp tx-tlv dot1
- lldp tx-tlv dot3
- lldp tx-tlv med
- lldp tx-tlv vendor-specific avaya (FastEthernet configuration mode)
- lldp vendor-specific avaya (FastEthernet configuration mode)
- logging
- logout

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Commands starting with M organized alphabetically

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

- mac-address-table
- mac-security
- mac-security (FastEthernet configuration mode)
- mlt

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Commands starting with P organized alphabetically

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- password
- ping
- poe
- poe poe-limit (for PoE+ units)
- poe poe-limit (for PoE units)
- poe poe-priority
- poe poe-shutdown
- port-mirroring

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Commands starting with Q organized alphabetically

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- qos acl-assign
- qos action
- qos agent aq-mode
- qos agent nvram-delay
- qos agent reset-default
- qos agent statistics-tracking
- qos classifier
- qos classifier-block
- qos clear-stats
- qos egressmap
- qos if-action-extension
- qos if-assign
- qos if-assign (FastEthernet configuration mode)
- qos if-group
- qos if-queue-shaper
- qos if-shaper
- 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

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Commands starting with R organized alphabetically

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

- radius accounting
- radius dynamic-server
- radius reachability
- radius-server
- radius use-management-ip
- rate-limit
- rear-ports mode
- reload
- renew
- renumber
- restore
- rmon alarm
- rmon event
- rmon history
- rmon stats
- run ipoffice

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

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Commands starting with S organized alphabetically

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

- save
- show adac
- show adac detection
- show adac interface
- show adac mac-range-table
- show application slamon agent
- show arp (Privileged EXEC mode)
- show arp-table
- show arp (User Exec mode)
- show auto-negotiation-advertisements
- show auto-negotiation-capabilities
- show auto-pvid
- show autosave
- show autotopology
- show banner
- show boot
- show cli
- show clock
- show config-network
- show cpu-utilization
- show eapol
- show edm help-file-path
- show energy-saver
- show energy-saver savings
- show energy-saver schedule
- show environmental
- show http-port
- show interfaces
- show ip arp-inspection interface
- show ip arp-inspection (Privileged EXEC mode)
- show ip arp-inspection (User Exec mode)
- show ip arp-proxy
- show ip default-ttl
- show ip dhcp
- show ip dhcp-relay
- show ip dhcp-relay counters
- show ip dhcp-relay fwd-path
- show ip dhcp-relay interface
- show ip dhcp-snooping
- show ip dhcp-snooping binding
- show ip dhcp-snooping interface
- show ip dhcp-snooping vlan
- show ip directed-broadcast
- show ip dns
- show ip forward-protocol
- show ip igmp cache
- show ip igmp group
- show ip igmp group-ext
- show ip igmp interface

show ip igmp router-alert
- show ip igmp snooping
- show ip mgmt
- show ipmgr
- show ip netstat
- show ip (Privileged EXEC mode)
- show ip route
- show ip routing
- show ip source
- show ip (User Exec mode)
- show ipv6 address
- show ipv6 address interface
- show ipv6 default-gateway
- show ipv6 global
- show ipv6 interface
- show ipv6 interface icmpstatistics
- show ipv6 interface statistics
- show ipv6 interface (User Exec mode)
- show ipv6 neighbor
- show ipv6 neighbor interface
- show ipv6 neighbor summary
- show ipv6 neighbor type
- show ipv6 tcp
- show ipv6 tcp connections
- show ipv6 tcp listener
- show ipv6 udp
- show ip verify
- show lacp aggr
- show lacp debug
- show lacp key
- show lacp port
- show lacp stats
- show lacp system
- 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 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-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 radius
- show radius accounting
- show radius dynamic-server
- show radius reachability
- show radius-server
- show radius use-management-ip
- show rate-limit
- show rmon alarm
- show rmon ethernet history
- show rmon ethernet packets
- show rmon ethernet statistics
- show rmon event
- show rmon history
- show rmon stats
- show running-config
- show slpp-guard
- show snmp-server
- show sntp
- show spanning-tree
- show spanning-tree bpdu-filtering
- show spanning-tree rstp
- show spanning-tree rstp port
- show ssh
- show stack
- show stack-info
- show stack-monitor
- show storm-control
- show sys-info
- show system
- show tacacs
- show tech
- show telnet
- show telnet-access
- show terminal
- show tftp-server
- show vlacp
- show vlan configcontrol
- show vlan dhcp-relay
- show vlan id
- show vlan igmp
- show vlan interface
- show vlan ip
- show vlan mgmt
- show vlan multicast
- show vlan summary
- show vlan type

- show vlan voice-vlan
- show web-server
- shutdown
- shutdown (FastEthernet configuration mode)
- slamon agent
- slamon agent-comm-port
- slamon agent ip address
- slamon agent port
- slamon cli
- slamon cli enable
- slamon cli-timeout
- slamon cli-timeout-mode
- slamon cli-timeout-mode enable
- slamon ntr
- slamon oper-mode
- slamon oper-mode enable
- slamon refuse-server-tests
- slamon rtp
- slamon server-bypass
- slamon server ip address
- slamon server port
- slpp-guard
- slpp-guard ethertype
- 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 bpdu-filtering
- spanning-tree bpdu-filtering (FastEthernet configuration mode)
- spanning-tree mode
- spanning-tree rstp
- speed
- stack auto-unit-replacement
- stack auto-unit-replacement config
- stack auto-unit-replacement-image
- stack auto-unit-replacement remove-mac-address
- stack forced-mode
- stack-monitor
- stack reboot-on-failure
- stack retry-count
- storm-control all
- storm-control broadcast
- storm-control multicast
- storm-control unicast

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Commands starting with T organized alphabetically

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

- tacacs accounting
- tacacs authorization
- tacacs server
- tacacs switch
- telnet
- telnet-access
- terminal
- tftp-server
- trace
- traceroute

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Commands starting with U organized alphabetically

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

- username

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

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Commands starting with V organized alphabetically

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

- vlacp
- vlacp (FastEthernet configuration mode)
- vlan configcontrol
- vlan create
- vlan delete
- vlan igmp
- vlan members
- vlan mgmt
- vlan name
- vlan ports
- vlan voice-vlan

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

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Commands starting with W organized alphabetically

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

- web-server
- write

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

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Application configuration mode

D

- default slamon oper-mode

S

- slamon agent-comm-port
- slamon agent ip address
- slamon agent port
- slamon cli enable
- slamon cli-timeout
- slamon cli-timeout-mode enable
- slamon ntr
- slamon oper-mode enable
- slamon refuse-server-tests
- slamon rtp
- slamon server-bypass
- slamon server ip address
- slamon server port

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FastEthernet configuration mode

A

- adac
- adac detection
- auto-negotiation-advertisements

C

- clear ip-blocking
- clear ip forward-protocol udp counters
- clear stack port-statistics
- clear-stats
- clear system last-exception

D

- duplex

E

- eapol (FastEthernet configuration mode)
- eapol guest-vlan (FastEthernet configuration mode)
- eapol multihost (FastEthernet configuration mode)
- eapol multihost non-eap-mac
- energy-saver (FastEthernet configuration mode)

F

- flowcontrol

I

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L

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- lacp clear-stats
- lacp key (FastEthernet configuration mode)
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- lacp priority
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- lldp location-identification (FastEthernet configuration mode)
- lldp med-network-policies
- lldp tx-tlv
- lldp tx-tlv dot1
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- lldp tx-tlv med
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- lldp vendor-specific avaya (FastEthernet configuration mode)

M

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P

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S

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- shutdown (FastEthernet configuration mode)
- slamon agent
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- slamon cli-timeout-mode
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- slpp-guard
- spanning-tree bpdu-filtering (FastEthernet configuration mode)
- speed

V

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Global configuration mode

A

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- adac enable
- adac mac-range-table
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- autosave
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B

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C

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D

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E

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H

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I

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- ip default-gateway
- ip dhcp client lease
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- ip dhcp-snooping
- ip dhcp-snooping
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- ip directed-broadcast
- ip domain-name
- ip forward-protocol
- ip igmp
- ip mgmt
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L

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M

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P

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Q

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- qos agent aq-mode
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- qos agent statistics-tracking
- qos classifier
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- qos egressmap
- qos if-action-extension
- qos if-assign
- qos if-group
- qos ingressmap
- qos ip-acl
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R

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- radius use-management-ip
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- renumber
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S

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- snmp-server contact
- snmp-server disable
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- spanning-tree bpdu-filtering
- spanning-tree mode
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- stack forced-mode
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T

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U

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V

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- vlan configcontrol
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- vlan delete
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- vlan members
- vlan mgmt
- vlan name
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W

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Privileged EXEC mode

B

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C

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- configure network filename
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- configure terminal
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- copy config
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E

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I

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R

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S

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- show adac detection

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- show arp (Privileged EXEC mode)
- show auto-negotiation-advertisements
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- show autosave
- show autotopology
- show banner
- show cli
- show clock
- show config-network
- show eapol
- show edm help-file-path
- show environmental
- show http-port
- show ip arp-inspection (Privileged EXEC mode)
- show ip dhcp-relay
- show ip igmp cache
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- show ip igmp group-ext
- show ip igmp interface
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- show ipmgr
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- show poe-power-measurement
- show port-mirroring
- show port-statistics
- show qos acl-assign
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- 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-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
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- show radius
- show radius-server
- show rate-limit
- show rmon alarm
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- show rmon stats
- show running-config
- show snmp-server
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- show spanning-tree bpdu-filtering
- show spanning-tree rstp
- show spanning-tree rstp port
- show ssh
- show stack
- show stack-info
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- show sys-info
- show system
- show tacacs
- show tech
- show telnet
- show telnet-access
- show terminal
- show tftp-server
- show vlacp
- show vlan configcontrol
- show vlan dhcp-relay
- show vlan id
- show vlan igmp
- show vlan interface
- show vlan ip
- show vlan mgmt
- show vlan multicast
- show vlan summary
- show vlan type
- show vlan voice-vlan
- show web-server
- shutdown
- stack auto-unit-replacement config
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T

- trace

W

- write

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User Exec mode

E

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- exit

H

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L

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P

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S

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- show auto-pvid
- show boot
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- show energy-saver
- show energy-saver savings
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- show interfaces
- show ip arp-inspection interface
- show ip arp-inspection (User Exec mode)
- show ip arp-proxy
- show ip default-ttl
- show ip dhcp
- show ip dhcp-relay counters
- show ip dhcp-relay fwd-path
- show ip dhcp-relay interface
- show ip dhcp-snooping
- show ip dhcp-snooping binding
- show ip dhcp-snooping interface
- show ip dhcp-snooping vlan
- show ip directed-broadcast
- show ip dns
- show ip forward-protocol
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- show ip netstat
- show ip route
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- show ip (User Exec mode)
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- show ipv6 tcp
- show ipv6 tcp connections
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- show ipv6 udp
- show lldp local-sys-data
- show lldp med-network-policies
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- 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 memory-utilization
- show password
- show radius accounting
- show radius dynamic-server
- show radius reachability
- show radius use-management-ip
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T

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VLAN Interface configuration mode

E

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I

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- igmp query-max-response
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- ip dhcp-relay (VLAN Interface configuration mode)
- ip forward-protocol udp (VLAN Interface configuration mode)
- ip igmp mrouter
- ip igmp proxy
- ip igmp robust-value
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- ip igmp snooping
- ip igmp version
- ip igmp (VLAN Interface configuration mode)
- ip routing (VLAN Interface configuration mode)

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adac

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

FastEthernet configuration mode

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.

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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

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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

FastEthernet configuration mode

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.

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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

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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

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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

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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

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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

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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

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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

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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

FastEthernet configuration mode

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.

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auto-pvid

Enable Auto-PVID (for all ports)

Syntax

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

Default

None

Command mode

Global configuration mode

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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

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autotopology

Enable the autotopology protocol

Syntax

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

Default

None

Command mode

Global configuration mode

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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

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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

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boot

Reset the switch/stack

Syntax

- `boot [default unit <1-8> | 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
unit <1-8>	Specifies the unit number to be rebooted on the switch/stack

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clear arp-cache

Clear the Layer 3 ARP cache

Syntax

- `clear arp-cache`

Default

None

Command mode

Privileged EXEC mode

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clear ip-blocking

Clears the Layer 3 IP blocking state.

Syntax

- `clear ip-blocking`

Default

None

Command mode

FastEthernet configuration mode

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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

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clear ip forward-protocol udp counters

Clears UDP broadcast counters.

Syntax

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

Default

None

Command mode

FastEthernet configuration mode

Command parameters

Parameter	Description
<LINE>	Clear counters for specific VLAN.

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clear license

Clear 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.

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clear logging

Clear 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.

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clear mac-address-table

Flush addresses from Mac Address Table

Syntax

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

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
<1-4094>	Vlan to be flushed out.
address <H.H.H>	Flush a single MAC Address.
dynamic	Flush only dynamically learned addresses.
interface {Ethernet | mlt <1-32> | vlan 1-4094>}	Flush MAC Addresses of a specific interface.
mlt <1-32>	Trunk to be flushed out.
static	Flush only statically inserted addresses.

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clear stack port-statistics

Clears the stack port counters.

Syntax

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

Default

None

Command mode

FastEthernet configuration mode

Command parameters

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

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clear-stats

Clears the port counter

Syntax

- `clear-stats port <LINE>`

Default

None

Command mode

FastEthernet configuration mode

Command parameters

Parameter	Description
`port <port-list>`	Selects a port to clear the port counter

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clear system last-exception

Clears last software exception information.

Syntax

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

Default

None

Command mode

FastEthernet configuration mode

Command parameters

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

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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

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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.

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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

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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

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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

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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

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configure terminal

Configure from the terminal

Syntax

- `configure terminal`

Default

None

Command mode

Privileged EXEC mode

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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 filename of config file
`unit <1-8>`	Configure from USB of another unit in a stack

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copy config

Copy to local NV storage

Syntax

- `copy config [nvram|sftp|tftp]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
nvram	Copy to local NV storage
tftp address <ipv4 or ipv6> filename <filename>	Specify the IP or IPv6 address to be copied on the TFTP server

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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] [cfm] [core] [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] [mlt] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp] [snmp] [spbm] [stack] [stkmon] [stp] [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
`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 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
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
snmp	Copy SNMP configuration
spbm	Copy SPBM configuration
stack	Copy Stack configuration
stkmon	Copy Stack Monitor configuration
stp	Copy STP configuration
verbose	Copy entire configuration (defaults and non-defaults)
vlacp	Copy VLACP configuration
vlan	Copy VLAN configuration
WORD	TFTP server IPv6 address

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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] [cfm] [core] [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] [mlt] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp] [snmp] [spbm] [stack] [stkmon] [stp] [vlacp] [vlan]] filename <file-name> unit <1-8>`

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
`snmp`	Copy SNMP configuration
`spbm`	Copy SPBM 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

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copy sftp

Copy configuration from SFTP server

Syntax

- `copy sftp`

Default

None

Command mode

Privileged EXEC mode

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copy tftp

Copy license from TFTP server

Syntax

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

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`config <ipv4 or ipv6> filename <filename>`	Specify address of the TFTP server to copy to local configuration

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default http-port

Restore to default the TCP port on which web server will listen

Syntax

- `default http-port`

Default

None

Command mode

Global configuration mode

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default slamon oper-mode

Disables the SLA Monitor agent. If you disable the agent, it does not respond to discover packets from a server. If you disable the agent because of resource concerns, consider changing the server configuration instead, to alter the test frequency or duration, or the number of targets.

Syntax

- `default slamon oper-mode`

Default

`Disabled`

Command mode

Application configuration mode

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disable

Turn off privileged commands

Syntax

- `disable`

Default

`None`

Command mode

Privileged EXEC mode

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download address

Specify IP address of TFTP server

Syntax

- `download address [<A.B.C.D>|<WORD>]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<ipv4 or ipv6>`	Specify IP address of TFTP server
`<ipv4 or ipv6> diag <filename>`	Specifies the diagnostics image file name to be downloaded
`<ipv4 or ipv6> image <filename>`	Specifies the software image to be downloaded
`<ipv4 or ipv6> image-if-newer <filename>`	The image name to be donloaded if it is newer version of the software image

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download diag

Specify diagnostics image file name

Syntax

- `download diag [<WORD> no-reset]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<filename>`	Specifies the diagnostics image file name to be downloaded
`<filename> no-reset`	Does not reset the switch after downloading the specified image file

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download image

Specify software image

Syntax

- `download image [<WORD> no-reset]`

Default

None

Command mode

Privileged EXEC mode

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download no-reset

Do not reset the switch after downloading

Syntax

- `download no-reset`

Default

None

Command mode

Privileged EXEC mode

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duplex

Configure duplex mode of a port

Syntax

- `duplex[auto|full|half|port <port-list>]`

Default

None

Command mode

FastEthernet configuration mode

Command parameters

Parameter	Description
auto	Automatically detect duplex mode
half	Configures Full-duplex mode
full	Configures Half-duplex mode
port	Select port for operation

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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.

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eapol (FastEthernet configuration mode)

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

FastEthernet configuration mode

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 {in-out | in}	Sets the level of traffic control (in-out — if EAP authentication fails, both ingressing and egressing traffic are blocked; in — if EAP authentication fails, only ingressing traffic is blocked).

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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

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eapol guest-vlan (FastEthernet configuration mode)

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

FastEthernet configuration mode

Command parameters

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

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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

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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

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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

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eapol multihost (FastEthernet configuration mode)

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

FastEthernet configuration mode

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.

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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

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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

FastEthernet configuration mode

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.

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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

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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

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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

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edm help-file-path

Set the EDM help file path

Syntax

- `edm help-file-path`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
WORD	Specifies the EDM help file path

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enable

Turn on privileged commands

Syntax

- `enable`

Default

`None`

Command mode

Global configuration mode

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end

Exit from configure mode

Syntax

- end

Default

None

Command mode

Global configuration mode

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end (VLAN Interface configuration mode)

Exit from interface configure mode.

Syntax

- end

Default

None

Command mode

VLAN Interface configuration mode

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energy-saver (FastEthernet configuration mode)

Configures per-port energy saver settings.

Syntax

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

Default

None

Command mode

FastEthernet configuration mode

Command parameters

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

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energy-saver (Global configuration mode)

Configure global energy saver settings

Syntax

Default

None

Command mode

Global configuration mode

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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

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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

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exit

Exit from configure mode

Syntax

- `exit`

Default

`None`

Command mode

User Exec mode

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exit (VLAN Interface configuration mode)

Exit from interface configuration mode.

Syntax

- `exit`

Default

`None`

Command mode

VLAN Interface configuration mode

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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

FastEthernet configuration mode

Command parameters

Parameter	Description
asymmetric	Asymmetric mode
auto	Automatically detect flowcontrol mode
disable	Disable flow control
port	Select port for operation
symmetric	Symmetric mode

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help

Description of the interactive help system

Syntax

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

Default

None

Command mode

User 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

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http-port

Set the TCP port on which web server will listen

Syntax

- `http-port <1024-65535>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<1024-65535>	Specifies the http port number

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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 mode

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.

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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 mode

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.

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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 mode

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.

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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 mode

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install

Quick Install & Setup Script

Syntax

- `install`

Default

None

Command mode

Privileged EXEC mode

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interface FastEthernet

Interface configuration mode IEEE 802.3

Syntax

- `interface FastEthernet <LINE>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	Specifies a port number for interface configuration

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interface vlan

Layer 3 IP VLAN

Syntax

- `interface vlan <1-4094>`

Default

None

Command mode

Global configuration mode

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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

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ip address (VLAN Interface configuration mode)

Assigns an IP addr to a vlan.

Syntax

Default

None

Command mode

VLAN Interface configuration mode

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ip arp-inspection

Enable ARP inspection

Syntax

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

Default

None

Command mode

Global configuration mode

Command parameters

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

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ip arp-inspection (FastEthernet configuration mode)

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

FastEthernet configuration mode

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ip blocking mode

Configure the Layer 3 IP blocking mode

Syntax

- `ip blocking mode [full|none]`

Default

None

Command mode

Global configuration mode

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ip bootp

Config BOOTP services

Syntax

- `ip bootp server [always|default-ip|disable|last]`

Default

None

Command mode

Global configuration mode

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ip default-gateway

Specify default gateway (if not routing IP)

Syntax

- `ip default-gateway <A.B.C.D>`

Default

None

Command mode

Global configuration mode

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ip dhcp client lease

Configure DHCP lease time

Syntax

- `ip dhcp client lease <10-4294967295>|days <1-49710> | hours <1-1193046> | minutes <1-71582788> | weeks <1-7101>]`

Default

None

Command mode

Global configuration mode

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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

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ip dhcp-relay (FastEthernet configuration mode)

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

FastEthernet configuration mode

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.

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ip dhcp-relay (VLAN Interface configuration mode)

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 mode

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.

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ip dhcp-snooping

Configure DHCP snooping settings

Syntax

- `ip dhcp-snooping binding <1-4094>`

Default

None

Command mode

Global configuration mode

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ip dhcp-snooping vlan

Configure DHCP snooping VLANs

Syntax

- `ip dhcp-snooping vlan <1-4094> option82`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`<1-4094>`	Configure DHCP snooping VLANs
`<1-4094> option82`	Enable option 82 for DHCP snooping

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ip directed-broadcast

Enabled directed broadcast forwarding

Syntax

- `ip directed-broadcast enable`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
enable	Enable IP directed broadcast

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ip domain-name

Configure DNS domain name

Syntax

- `ip domain-name <LINE>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	DNS domain name

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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

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ip forward-protocol udp (VLAN Interface configuration mode)

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 mode

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.

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ip igmp

Configure global IGMP settings

Syntax

- `ip igmp flush {Ethernet <LINE> | vlan <1-4094> {grp-member | mrouter}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
flush	Flush IGMP Mrouter, group member, or sender
vlan <1-4094>	Flush on vlan interfaces
grp-member	Flush IGMP group member
mrouter	Flush IGMP Mrouter

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ip igmp filter

Add IGMP filter profile to interface.

Syntax

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

Default

None

Command mode

FastEthernet configuration mode

Command parameters

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

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ip igmp flush vlan

Flush on vlan interfaces

Syntax

- `ip igmp flush vlan <1-4094>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<1-4094> grp-member`	Specifies the group member to flush the VLAN interfaces
`<1-4094> mrouter`	Specifies the mrouter address to flush the VLAN interfaces

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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 mode

Command parameters

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

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ip igmp proxy

Enables or disables IGMP proxy on a VLAN.

Syntax

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

Default

`None`

Command mode

VLAN Interface configuration mode

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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 mode

Command parameters

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

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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 mode

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ip igmp snooping

Enables or disables IGMP snooping for a VLAN.

Syntax

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

Default

None

Command mode

VLAN Interface configuration mode

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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 mode

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).

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ip igmp (VLAN Interface configuration mode)

Creates a new IGMP interface.

Syntax

- `[no] [default] ip igmp`

Default

`None`

Command mode

VLAN Interface configuration mode

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ip mgmt

Configure management information

Syntax

- `ip mgmt route <A.B.C.D>`

Default

None

Command mode

Global configuration mode

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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|sorce-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

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ip name-server

Configure DNS server IP addresses

Syntax

- `ip name-server <A.B.C.D>|<WORD>]`

Default

None

Command mode

Global configuration mode

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ip route

Create a static IP route

Syntax

- `ip route <A.B.C.D>`

Default

None

Command mode

Global configuration mode

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ip routing

Enable global routing

Syntax

- `ip routing force`

Default

None

Command mode

Global configuration mode

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ip routing (VLAN Interface configuration mode)

Enables L3 routing on a VLAN.

Syntax

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

Default

None

Command mode

VLAN Interface configuration mode

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ipv6

Set global IPv6 configuration subcommands

Syntax

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

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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

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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

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ipv6 neighbor

Configure neighbor cache

Syntax

- `ipv6 neighbor <WORD> port <WORD> mac <H.H.H>`
- `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

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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

FastEthernet configuration mode

Command parameters

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

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lacp clear-stats

Clear LACP statistics.

Syntax

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

Default

none

Command mode

FastEthernet configuration mode

Command parameters

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

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lacp key

Configure LACP key to MLT mappings

Syntax

- `lacp key <1-4095> mlt-id <1-32>`
- `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

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lacp key (FastEthernet configuration mode)

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

FastEthernet configuration mode

Command parameters

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

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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

FastEthernet configuration mode

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.

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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

FastEthernet configuration mode

Command parameters

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

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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

FastEthernet configuration mode

Command parameters

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

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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

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lldp (FastEthernet configuration mode)

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

FastEthernet configuration mode

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

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lldp location-identification (FastEthernet configuration mode)

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

FastEthernet configuration mode

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

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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

FastEthernet configuration mode

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

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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

FastEthernet configuration mode

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.

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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

FastEthernet configuration mode

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

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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

FastEthernet configuration mode

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

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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

FastEthernet configuration mode

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

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lldp tx-tlv vendor-specific avaya (FastEthernet configuration mode)

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

FastEthernet configuration mode

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.

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lldp vendor-specific avaya (FastEthernet configuration mode)

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

FastEthernet configuration mode

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.

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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

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logout

Exit from the EXEC and end the current session

Syntax

- `logout`

Default

`None`

Command mode

User Exec mode

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mac-address-table

Configure MAC address table settings

Syntax

- `mac-address-table aging-time <10-1000000>`
- `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

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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

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mac-security (FastEthernet configuration mode)

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

FastEthernet configuration mode

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.

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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 <1-6> stp {<1-8> | all | learning {disable |normal | fast}}`
- `no mlt {<1-6>|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
<1-6>	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

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password

Configure password security restrictions

Syntax

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

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`aging-time day <1-2730>`	Password validity period
`security`	Enable password security restrictions

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ping

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}]`

Default

None

Command mode

User Exec mode

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

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poe

Set global configuration of Power Over Ethernet

Syntax

- `poe [ip-phone] {[poe-limit <3-32>] [poe-priority {critical | high | low}]} [poe-pd-detect-type] {[unit <1-8>] [802dot3af] [802dot3af_and_legacy] [802dot3at] [802dot3at_and_legacy]} [poe-power-usage-threshold] {[unit <1-8>] [<1-99>]}`
- `no poe ip-phone {poe-limit | poe-priority}`

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
ip-phone	Configure IP phone automatic settings for PoE
poe-limit <3-32>	Set IP phone automatic PoE limit
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
poe-priority {critical | high | low}	Set IP phone automatic PoE priority to critical, high, or low
unit <1-8>	Set PD detection mode of an unit in stack

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poe poe-limit (for PoE+ units)

Sets the power limit for channels.

Syntax

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

Default

None

Command mode

FastEthernet configuration mode

Command parameters

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

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poe poe-limit (for PoE units)

Sets the power limit for channels.

Syntax

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

Default

None

Command mode

FastEthernet configuration mode

Command parameters

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

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poe poe-priority

Sets the port power priority.

Syntax

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

Default

None

Command mode

FastEthernet configuration mode

Command parameters

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

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poe poe-shutdown

Disables PoE to a port.

Syntax

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

Default

None

Command mode

FastEthernet configuration mode

Command parameters

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

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port-mirroring

Change port mirroring configuration

Syntax

- `port-mirroring [mode] {disable | Xrx monitor-port <LINE> mirror port-X <LINE> | XrxOrXtx monitor-port <LINE> mirror-port-X <LINE> | Xtx monitor-port <LINE> mirror-port-X <LINE>}`
- `no port-mirroring`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
disable	Disable port mirroring
Xrx	Mirror packets received on port X
XrxOrXtx	Mirror packets received or transmitted on port X
Xtx	Mirror packets transmitted on port X

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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

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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

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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

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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

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qos agent reset-default

Reset the QoS to its configuration default

Syntax

- `qos agent reset-default`

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

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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

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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

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qos clear-stats

Clear all QoS statistic counters

Syntax

- `qos clear-stats`

Default

None

Command mode

Global configuration mode

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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

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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

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qos if-assign

Add interfaces to interface groups

Syntax

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

Default

None

Command mode

Global configuration mode

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qos if-assign (FastEthernet configuration mode)

Adds ports to an interface group.

Syntax

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

Default

None

Command mode

FastEthernet configuration mode

Command parameters

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

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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)

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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

FastEthernet configuration mode

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

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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

FastEthernet configuration mode

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.

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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

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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

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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

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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

Avaya ERS 3500 Release 5.2
NN47203-103 Avaya Command Line Interface Commands Reference
Version 01.01 March 2014
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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

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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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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

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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	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

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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

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radius-server

Configure RADIUS server password fallback

Syntax

- `radius-server password fallback`
- `no radius-server password fallback`
- `default radius-server password fallback`

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
fallback	RADIUS password fallback
password	RADIUS password fallback

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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

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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

Global configuration mode

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.

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rear-ports mode

Sets the stacking mode

Syntax

- `rear-ports mode [stacking | standalone]`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
stacking	Set the rear ports mode to stacking
standalone	Set the rear ports to standalone

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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

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renew

Renew DHCP lease

Syntax

- `renew dhcp`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
dhcp	Renew DHCP lease

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renumber

Renumbers the 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

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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

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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)

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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

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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

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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

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run ipoffice

Specialized scripted CLI commands for automated configuration

Syntax

- `run ipoffice verbose`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
verbose	Scripted CLI commands for setup with IP Office solutions

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save

Save configuration to local NV storage

Syntax

- `save config`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`config`	Save configuration to local NV storage

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show adac

Display ADAC configuration

Syntax

- `show adac`

Default

None

Command mode

Privileged EXEC mode

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show adac detection

Display ADAC 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

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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

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show adac mac-range-table

Display the supported MAC address ranges

Syntax

- `show adac mac-range-table`

Default

None

Command mode

Privileged EXEC mode

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show application slamon agent

Displays the global SLA Monitor agent settings.

Syntax

- `show application slamon agent`

Default

None

Command mode

Privileged EXEC mode

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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

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show arp-table

Display system ARP table

Syntax

- `show arp-table`

Default

None

Command mode

User Exec mode

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show arp (User Exec mode)

Display ARP entries

Syntax

- `show arp [vlan <1-4094>] [<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 mode

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

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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

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show auto-negotiation-capabilities

Display 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

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show auto-pvid

Show Auto-PVID mode

Syntax

- `show auto-pvid`

Default

`None`

Command mode

User Exec mode

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show autosave

Display current autosave setting

Syntax

- `show autosave`

Default

None

Command mode

Privileged EXEC mode

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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

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show banner

Display 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

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show boot

Display boot settings

Syntax

- `show boot {diag | image}`

Default

`None`

Command mode

User Exec mode

Command parameters

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

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show cli

Display password settings

Syntax

- `show cli [info|mode|password]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
info	Display general Console settings
mode	Display information about current CLI mode
password	Display CLI usernames and passwords

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show clock

Display current time

Syntax

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

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
summer-time	Show daylight saving time settings
time-zone	Show local time zone settings

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show config-network

Displays the settings for downloading config files

Syntax

- `show config-network`

Default

None

Command mode

Privileged EXEC mode

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show cpu-utilization

Display CPU utilization info

Syntax

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

Default

None

Command mode

User Exec mode

Command parameters

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

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show eapol

Displays the 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 edm help-file-path

Displays the EDM help file path

Syntax

- `show edm help-file-path`

Default

None

Command mode

Privileged EXEC mode

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show energy-saver

Displays the AES configuration on the switch.

Syntax

- `show energy-saver`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
`interface <portlist>`	Displays the AES configuration for all ports on the switch, an individual port, or a range of ports.

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show energy-saver savings

Displays the switch capacity energy saving (Watts) and the PoE energy saving (Watts).

Syntax

- `show energy-saver savings`

Default

None

Command mode

User Exec mode

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show energy-saver schedule

Displays configured energy saving schedule information.

Syntax

- `show energy-saver schedule`

Default

None

Command mode

User Exec mode

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show environmental

Displays environmental information of the switch

Syntax

- `show environmental`

Default

None

Command mode

Privileged EXEC mode

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show http-port

Displays the TCP port on which web server will listen

Syntax

- `show http-port`

Default

None

Command mode

Privileged EXEC mode

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show interfaces

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> | names <LINE> | verbose}`

Default

None

Command mode

User 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

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show ip arp-inspection interface

Display ARP inspection port information

Syntax

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

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
Ethernet	Ethernet IEEE 802.3
LINE	List of ports

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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

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show ip arp-inspection (User Exec mode)

Display ARP inspection VLAN information

Syntax

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

Default

None

Command mode

User Exec mode

Command parameters

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

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show ip arp-proxy

Display Proxy ARP status

Syntax

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

Default

None

Command mode

User Exec mode

Command parameters

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

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show ip default-ttl

Display default TTL

Syntax

- `show ip default-ttl`

Default

None

Command mode

User Exec mode

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show ip dhcp

Display DHCP settings

Syntax

- `show ip dhcp client lease`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
client lease	DHCP client lease

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show ip dhcp-relay

Display DHCP relay information

Syntax

- `show ip dhcp-relay`

Default

None

Command mode

Privileged EXEC mode

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show ip dhcp-relay counters

Display DHCP relay statistics

Syntax

- `show ip dhcp-relay counters`

Default

None

Command mode

User Exec mode

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show ip dhcp-relay fwd-path

Display DHCP relay global configuration

Syntax

- `show ip dhcp-relay fwd-path summary`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
summary	Display DHCP relay fwd-path summary

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show ip dhcp-relay interface

Display DHCP relay per-Interface configuration mode

Syntax

- `show ip dhcp-relay interface {Ethernet <LINE> | vlan <LINE>}`

Default

None

Command mode

User Exec mode

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

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show ip dhcp-snooping

Display DHCP snooping information

Syntax

- `show ip dhcp-snooping`

Default

None

Command mode

User Exec mode

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show ip dhcp-snooping binding

Display DHCP snooping binding table

Syntax

- `show ip dhcp-snooping binding summary`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
summary	Display DHCP snooping binding table summary

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show ip dhcp-snooping interface

Display DHCP snooping port information

Syntax

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

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
Ethernet	Ethernet IEEE 802.3
LINE	List of ports

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show ip dhcp-snooping vlan

Display DHCP snooping VLAN information

Syntax

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

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
<LINE>	VLAN list

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show ip directed-broadcast

Display directed-broadcast forwarding mode

Syntax

- `show ip directed-broadcast`

Default

None

Command mode

User Exec mode

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show ip dns

Display DNS configuration

Syntax

- `show ip dns`

Default

`None`

Command mode

User Exec mode

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show ip forward-protocol

Display broadcast forwarding settings

Syntax

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

Default

None

Command mode

User Exec mode

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

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show ip igmp cache

Display IGMP cache details

Syntax

- `show ip igmp cache`

Default

None

Command mode

Privileged EXEC mode

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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

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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

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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

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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

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show ip igmp snooping

Display IGMP snooping information

Syntax

- `show ip igmp snooping`

Default

None

Command mode

Privileged EXEC mode

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show ip mgmt

Display management information

Syntax

- `show ip mgmt route`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
route	Display management VLAN information

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show ipmgr

Displays 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.

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show ip netstat

Show ip tcp/udp connections and services

Syntax

- `show ip netstat {tcp | udp}`

Default

None

Command mode

User Exec mode

Command parameters

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

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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

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show ip route

Display IP route information

Syntax

- `show ip route [static] [A.B.C.D] [-s <subnet-ip> <mask-ip>] [summary]`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
A.B.C.D	specify IP addr of route to be displayed
-s	specify subnet(s) of routes to be displayed
static	Display IP static route(s) information
summary	Display summary of IP route information

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show ip routing

Display global routing enable/disable

Syntax

- `show ip routing`

Default

None

Command mode

User Exec mode

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show ip source

Display IP Source Guard address bindings

Syntax

- `show ip source binding`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
binding	Display IP Source Guard address bindings

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show ip (User Exec mode)

Display IP-related information

Syntax

- `show ip [bootp] [default-gateway] [address] {source | stack | switch | unit <1-8>}`

Default

None

Command mode

User Exec mode

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

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show ipv6 address

Display configured ipv6 addresses

Syntax

- `show ipv6 address {stack | switch | unit <1-8>}`

Default

None

Command mode

User 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

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show ipv6 address interface

Display addresses for IPv6 interfaces

Syntax

- `show ipv6 address interface {summary | vlan <1-4094> | <WORD>}`

Default

None

Command mode

User 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

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show ipv6 default-gateway

Display IPv6 default gateway

Syntax

- `show ipv6 default-gateway`

Default

None

Command mode

User Exec mode

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show ipv6 global

Display IPv6 global configuration

Syntax

- `show ipv6 global`

Default

None

Command mode

User Exec mode

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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

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show ipv6 interface icmpstatistics

Display IPv6 icmp statistics

Syntax

- `show ipv6 interface icmpstatistics {tunnel <1-2147483647> | vlan <1-4094>}`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
`tunnel <1-2147483647>`	Display by tunnel
`vlan <1-4094>`	Display by VLAN

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show ipv6 interface statistics

Display IPv6 statistics

Syntax

- `show ipv6 interface statistics {tunnel <1-2147483647> | vlan <1-4094>}`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
`tunnel <1-2147483647>`	Display by tunnel
`vlan <1-4094>`	Display by VLAN

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show ipv6 interface (User Exec mode)

Display interface information

Syntax

- `show ipv6 interface vlan <1-4094>`

Default

None

Command mode

User Exec mode

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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

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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 mode

Command parameters

Parameter	Description
`tunnel <1-2147483647>`	Display by tunnel
`vlan <1-4094>`	Display by VLAN

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show ipv6 neighbor summary

Display summary of IPv6 Neighbor Table

Syntax

- `show ipv6 neighbor summary`

Default

None

Command mode

User Exec mode

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show ipv6 neighbor type

Display by type

Syntax

- `show ipv6 neighbor [<WORD>] type {dynamic | local | other | static}`

Default

None

Command mode

User Exec mode

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

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show ipv6 tcp

Display IPV6 tcp info

Syntax

- `show ipv6 tcp`

Default

None

Command mode

User Exec mode

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show ipv6 tcp connections

Display IPv6 tcp connections

Syntax

- `show ipv6 tcp connections`

Default

None

Command mode

User Exec mode

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show ipv6 tcp listener

Display IPv6 tcp listeners

Syntax

- `show ipv6 tcp listener`

Default

None

Command mode

User Exec mode

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show ipv6 udp

Display IPv6 udp global

Syntax

- `show ipv6 udp endpoints`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
endpoints	Display ipv6 udp endpoints

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show ip verify

Display IP Source Guard settings

Syntax

- `show ip verify source`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
source	Display IP Source Guard settings

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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

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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)

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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

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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

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show lacp stats

Display LACP statistics information

Syntax

- `show lacp stats`

Default

None

Command mode

Privileged EXEC mode

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show lacp system

Display LACP system settings

Syntax

- `show lacp system`

Default

None

Command mode

Privileged EXEC mode

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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

User 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

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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

User Exec mode

Command parameters

Parameter	Description
`port <LINE>`	Port list
`voice`	Display Voice Network Policies
`voice-signaling`	Display Voice Signaling Network Policies

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show lldp mgmt-sys-data

Display 802.1ab management data

Syntax

- `show lldp mgmt-sys-data`

Default

None

Command mode

User Exec mode

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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

User 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

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show lldp neighbor-mgmt-addr

Display 802.1ab neighbors management addresses

Syntax

- `show lldp neighbor-mgmt-addr`

Default

None

Command mode

User Exec mode

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show lldp pdu-tlv-size

Display 802.1ab tlv's in pdu

Syntax

- `show lldp pdu-tlv-size`

Default

None

Command mode

User Exec mode

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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

User 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 rx-stats

Display 802.1ab RX statistics

Syntax

- `show lldp rx-stats`

Default

None

Command mode

User Exec mode

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show lldp stats

Display 802.1ab statistics

Syntax

- `show lldp stats`

Default

`None`

Command mode

User Exec mode

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show lldp tx-stats

Display 802.1ab TX statistics

Syntax

- `show lldp tx-stats`

Default

None

Command mode

User Exec mode

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show lldp tx-tlv

Display 802.1ab TLVs

Syntax

- `show lldp tx-tlv {dot1 | dot3 | med | vendor-specific avaya}`

Default

None

Command mode

User 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

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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

User 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

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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

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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)

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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

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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

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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

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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

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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

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show memory-utilization

Display memory utilization info

Syntax

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

Default

None

Command mode

User Exec mode

Command parameters

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

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show mlt

Displays 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

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show password

Display password security restrictions

Syntax

- `show password security`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
security	State of password security restrictions

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show poe-main-status

Displays the 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

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show poe-port-status

Displays the PoE port configuration

Syntax

- `show poe-port-status <port-list>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<port-list>`	Show PoE port configuration

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show poe-power-measurement

Displays the port power measurement

Syntax

- `show poe-power-measurement <port-list>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`<port-list>`	Show port power measurement

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show port-mirroring

Displays port mirroring configuration

Syntax

- `show port-mirroring`

Default

None

Command mode

Privileged EXEC mode

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show port-statistics

Displays the port counter for a port

Syntax

- `show port-statistics port <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
port<LINE>	List of ports

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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show qos if-group

Display the interface groups

Syntax

- `show qos if-group`

Default

None

Command mode

Privileged EXEC mode

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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

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show qos ingressmap

Display the 802.1p priority to DSCP mapping

Syntax

- `show qos ingressmap`

Default

None

Command mode

Privileged EXEC mode

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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show radius accounting

Display the configuration of RADIUS Accounting Interim-Updates

Syntax

- `show radius accounting interim-updates`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
`interim-updates`	Display the parameters of interim-updates

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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 mode

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

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show radius reachability

Display RADIUS reachability settings

Syntax

- `show radius reachability`

Default

None

Command mode

User Exec mode

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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

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show radius use-management-ip

Display RADIUS use-management-ip setting.

Syntax

- `show radius use-management-ip`

Default

None

Command mode

User Exec mode

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show rate-limit

Display rate-limiting settings and statistics

Syntax

- `show rate-limit port <LINE>`

Default

None

Command mode

Privileged EXEC mode

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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

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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

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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

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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

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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

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show rmon stats

Display RMON Stats entries

Syntax

- `show rmon stats`

Default

None

Command mode

Privileged EXEC mode

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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] [core] [dhcp-relay] [dhcp-server] [dhcp-snooping] [eap] [energy-saver] [igmp] [interface] [ip] [ip-source-guard] [ipmgr] [ipv6] [l3] [l3-protocols] [lacp] [logging] [mac-security] [mlt] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp] [snmp] [storm control] [stp] [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
core	Display Core configuration
dhcp-relay	Display DHCP Relay configuration
dhcp-server	Display DHCP Server configuration
dhcp-snooping	Display DHCP Snooping configuration
eap	Display EAP configuration
igmp	Display IGMP configuration
interface	Display Interface configuration
ip	Display IP configuration
ipmgr	Display IP Manager configuration
ip-source-guard	Display IP Source Guard configuration
ipv6	Display IPV6 configuration
l3	Display L3 configuration
l3-protocols	Display L3 Protocols configuration
lacp	Display LACP configuration
logging	Display System Logging configuration
mac-security	Display MAC Security configuration
mlt	Display MLT configuration
module	Display configuration of an application

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
snmp	Display SNMP configuration
stp	Display STP configuration
storm control	Display storm control configuration
verbose	Display entire configuration (defaults and non-defaults)
vlacp	Display VLACP configuration
vlan	Display VLAN configuration

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show slpp-guard

Specifies a list of ports for which to display the SLPP Guard configuration status.

Syntax

- `show slpp-guard port <portlist>`

Default

None

Command mode

FastEthernet configuration mode

Command parameters

Parameter	Description
`port <portlist>`	Specifies a list of ports for which to display the SLPP Guard configuration status.

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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

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show sntp

Display Simple Network Time Protocol (SNTP) configuration

Syntax

- `show sntp`

Default

None

Command mode

Privileged EXEC mode

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show spanning-tree

Sub-commands to display spanning tree information

Syntax

- `show spanning-tree mode`

Default

None

Command mode

User Exec mode

Command parameters

Parameter	Description
mode	Display Spanning Tree operation mode

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show spanning-tree bpdu-filtering

Display BPDU filtering configuration

Syntax

- `show spanning-tree bpdu-filtering {[FastEthernet] port <LINE> | ignore-self}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
FastEthernet	Interface configuration mode IEEE 802.3
ignore-self	Ignore bridge's own BPDUs
port <LINE>	The port list whose BPDU filtering settings will be displayed

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show spanning-tree rstp

Display spanning-tree configuration for specified group ID

Syntax

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
config	Display RSTP related bridge-level statistics
status	Display RSTP related bridge-level status

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show spanning-tree rstp port

Display RSTP related port-level information

Syntax

- `show spanning-tree rstp port [config port <LINE>] [role port <LINE>] [statistics port<LINE>] [status port <LINE>]`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`config <LINE>`	Display RSTP related port-level configuration
`role <LINE>`	Display RSTP related port-level role information
`statistics <LINE>`	Display RSTP related port-level statistics
`status <LINE>`	Display RSTP related port-level status

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show ssh

Display SSH Information

Syntax

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
download-auth-key	Display auth key TFTP download info
global	Display general SSH settings
session	Display SSH session info

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show stack

Displays the stacking information

Syntax

- `show stack {auto-unit-replacement [mac-addresses] | auto-unit-replacement-image | forced-mode |health|port-statistics unit <1-8>}`

Default

None

Command mode

Privileged EXEC mode

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
`health`	Display the status of each stacking link
`port-statistics`	Display stack port counters
`port-statistics unit <1-8>`	Display stack port counters for specific port

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show stack-info

Display stack information

Syntax

- `show stack-info uptime`

Default

None

Command mode

Privileged EXEC mode

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show stack-monitor

Display stack-monitor configuration

Syntax

- `show stack-monitor`

Default

None

Command mode

Privileged EXEC mode

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show storm-control

Display packet storm control settings

Syntax

- `show storm-control interface {port<list>| all}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`interface <port-list>` `interface all`	Select interfaces for which to display storm-control settings

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show sys-info

Display system information

Syntax

- `show sys-info`

Default

None

Command mode

Privileged EXEC mode

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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

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show tacacs

Display current TACACS+ server/port/key configuration.

Syntax

- `show tacacs`

Default

None

Command mode

Privileged EXEC mode

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show tech

Show telnet active sessions

Syntax

- `show tech`

Default

None

Command mode

Privileged EXEC mode

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show telnet

Display configuration of telnet access

Syntax

- `show telnet sessions`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
sessions	Show telnet active sessions

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show telnet-access

Display terminal configuration parameters

Syntax

- `show telnet-access`

Default

None

Command mode

Privileged EXEC mode

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show terminal

Shows the TFTP Server IP address

Syntax

- `show terminal`

Default

None

Command mode

Privileged EXEC mode

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show tftp-server

Display trace information

Syntax

- `show tftp-server`

Default

None

Command mode

Privileged EXEC mode

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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

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show vlan configcontrol

Display VLAN control mode

Syntax

- `show vlan configcontrol`

Default

None

Command mode

Privileged EXEC mode

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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

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show vlan id

Display specific VLAN

Syntax

- `show vlan id <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
LINE	VLAN list

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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

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show vlan interface

Display VLAN configuration for specified interfaces

Syntax

- `show vlan interface {info | vids} <LINE>`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`info <LINE>`	Display VLAN-related settings of ports
`vids <LINE>`	Display VLAN membership of ports

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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

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show vlan mgmt

Display mgmt vlan ID

Syntax

- `show vlan mgmt`

Default

None

Command mode

Privileged EXEC mode

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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

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show vlan summary

Display a summary of VLANs

Syntax

- `show vlan summary`

Default

None

Command mode

Privileged EXEC mode

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show vlan type

Display specific type of VLAN

Syntax

- `show vlan type {port |protocol-ipv6Ether2 | voice-vlan}`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
`port`	Display All Userdef VLANs
`protocol-ipv6Ether2`	Display Ethernet II Userdef VLANs
`voice-vlan`	Display LLC Userdef VLANs

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show vlan voice-vlan

Display voice VLANs

Syntax

- `show vlan voice-vlan`

Default

None

Command mode

Privileged EXEC mode

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show web-server

Display web server status

Syntax

- `show web-server`

Default

None

Command mode

Privileged EXEC mode

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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
`force minutes-to-wait <1-60>`	Number of minutes to wait before reset
`minutes-to-wait <1-60>`	Number of minutes to wait before reset

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shutdown (FastEthernet configuration mode)

Shutdown the selected interface

Syntax

- `shutdown [port <portlist>]`

Default

None

Command mode

FastEthernet configuration mode

Command parameters

Parameter	Description
`port <port-list>`	Shutdown the selected interface

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slamon agent

Sets the SLAMon agent configuration

Syntax

- `slamon agent [ip address <A.B.C.D> | port <0-65535> ]`

Default

None

Command mode

FastEthernet configuration mode

Command parameters

Parameter	Description
ip address<ip address>	Set the SLAMon agent IP address
port <0-65535>	Set the SLAMon agent UDP port

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slamon agent-comm-port

Configures the port used for RTP and NTR testing in agent-to-agent communication.

Syntax

- `slamon agent-comm-port <0-65535>`
- `default slamon agent-comm-port`

Default

`50012`

Command mode

Application configuration mode

Command parameters

Parameter	Description
`<0-65535>`	Configures the port used for RTP and NTR testing in agent-to-agent communication. The default port is 50012. If you configure this value to zero (0), the default port is used.

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Home | Command modes | Alphabetical listing

slamon agent ip address

Configures the agent IP address.

Syntax

- `slamon agent ip address {A.B.C.D}`
- `default slamon agent ip address`

Default

`0.0.0.0`

Command mode

Application configuration mode

Command parameters

Parameter	Description
`{A.B.C.D}`	Specifies 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.

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slamon agent port

Configures the UDP port for agent-server communication. The agent receives discovery packets on this port.

Syntax

- `slamon agent port <0–65535>`
- `default slamon agent port`

Default

`50011`

Command mode

Application configuration mode

Command parameters

Parameter	Description
`<0-65535>`	Configures the UDP port for agent-server communication. The default is port 50011. The server must use the same port.

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slamon cli

Enables the SLAMon agent CLI interface

Syntax

- `slamon cli enable`

Default

None

Command mode

FastEthernet configuration mode

Command parameters

Parameter	Description
enable	Enable the SLAMon agent CLI interface

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slamon cli enable

Enables the SLA Monitor agent CLI support. This command affects the SLA Monitor CLI commands only, not the standard platform CLI commands.

Syntax

- `slamon cli enable`
- `default slamon cli`
- `no slamon cli [enable]`

Default

`Disabled`

Command mode

Application configuration mode

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slamon cli-timeout

Configures the CLI timeout value in seconds. This command affects the SLA Monitor CLI commands only, not the standard platform CLI commands.

Syntax

- `slamon cli-timeout <60–600>`

Default

60

Command mode

Application configuration mode

Command parameters

Parameter	Description
<60-600>	Configures the CLI timeout value in seconds. The default is 60 seconds.

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slamon cli-timeout-mode

Sets the SLAMon agent CLI session timeout mode

Syntax

- `slamon cli-timeout-mode enable`

Default

None

Command mode

FastEthernet configuration mode

Command parameters

Parameter	Description
enable	Enable the SLAMon agent CLI session timeout mode

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slamon cli-timeout-mode enable

Enables the agent automatic CLI session timeout.

Syntax

- `slamon cli-timeout-mode [enable]`
- `defaultslamon cli-timeout-mode`
- `no slamon cli-timeout-mode`

Default

`Disabled`

Command mode

Application configuration mode

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slamon ntr

Initiates an SLA Monitor NTR test.

Syntax

- `slamon ntr {A.B.C.D} <0–63> [attempts] [period]`

Default

None

Command mode

Application configuration mode

Command parameters

Parameter	Description
{A.B.C.D}	Specifies the destination IP address. If no IP address is specified, the test execution fails.
<0-63>	Specifies the Differential Services Code Point (DSCP) value for use in packets that are generated by the NTR test.
attempts	Specifies the number of attempts generated by the NTR test. The range of values is 1-10. The default value is 2.
period	Specifies the interval between packets in microseconds, generated by the NTR test. The range of values is 1000-200000. The default interval is 20000 microseconds.

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slamon oper-mode

Enable the SLAMon agent

Syntax

- `slamon oper-mode enable`

Default

`None`

Command mode

FastEthernet configuration mode

Command parameters

Parameter	Description
`enable`	Enable the SLAMon agent

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slamon oper-mode enable

Enables the SLA Monitor agent.

Syntax

- `slamon oper-mode enable`
- `no slamon oper-mode [enable]`

Default

`Disabled`

Command mode

Application configuration mode

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slamon refuse-server-tests

Enables the agent refuse server test mode so that the agent can accept NTR and RTP test requests from the server.

Syntax

- `slamon refuse-server-tests [enable]`
- `default slamon refuse-server-tests`
- `no slamon refuse-server-tests [enable]`

Default

`Disabled`

Command mode

Application configuration mode

Command parameters

Parameter	Description
`enable`	Agent rejects NTR and RTP test requests from the server. If you disable this mode, the agent accepts test requests from the server with which it is registered. Test requests originating from platform, SLM CLI interfaces, and SNMP are not affected.

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slamon rtp

Initiates an SLA Monitor RTP test.

Syntax

- `slamon rtp {A.B.C.D} <0–63> [npack] [nsync] [period]`

Default

None

Command mode

Application configuration mode

Command parameters

Parameter	Description
{A.B.C.D}	Specifies the destination IP address. If no IP address is specified, the test execution fails.
<0-63>	Specifies the Differential Services Code Point (DSCP) value for use in packets that are generated by the NTR test.
npack	Specifies the RTP npack value. The range of values is 10-100. The default value is 50.
nsync	Specifies the RTP nsync value. The range of values is 10-100. The default value is 10.
period	Specifies the interval between packets in microseconds, generated by the NTR test. The range of values is 1000-200000. The default interval is 20000 microseconds.

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slamon server-bypass

Disables the SLA Monitor agent server bypass mode.

Syntax

- `slamon server-bypass [enable]`
- `slamon server-bypass [enable]`
- `slamon server-bypass [enable]`

Default

`Disabled`

Command mode

Application configuration mode

Command parameters

Parameter	Description
`enable`	Enables the agent server bypass mode, which allows an enabled agent to always accept agent-to-agent traffic. When enabled a small number of network ports remain open to process network traffic. You must take this into account if security concerns are high.

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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

`0.0.0.0`

Command mode

Application configuration mode

Command parameters

Parameter	Description
{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. You can specify a secondary server as well.

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slamon server port

Configures the server TCP registration port.

Syntax

- `slamon server port <0–65535>`
- `default slamon server port`

Default

`0`

Command mode

Application configuration mode

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.

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slpp-guard

Configures the SLPP Guard to disable a port when a SLPP packet is received on that port.

Syntax

- `slpp-guard [port <portlist>][enable][timeout {0|<10-65535>}]`
- `no slpp-guard`
- `default slpp-guard`

Default

None

Command mode

FastEthernet configuration mode

Command parameters

Parameter	Description
port <portlist>	Specifies the port or list of ports on which the specified SLPP Guard parameter or parameters are configured.
enable	Enables SLPP Guard parameters for a port or list of ports.
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.

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slpp-guard ethertype

Specifies the Ethernet type used to detect SLPP packets.

Syntax

- `slpp-guard ethertype {<0x0-0xffff> | <1-65535>}`

Default

`0x8102`

Command mode

Global configuration mode

Command parameters

Parameter	Description
`{<0x0-0xffff> | <1-65535>}`	Specifies the Ethernet type used to detect SLPP packets.

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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

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snmp-server community

Enable SNMP; set community string and access privs

Syntax

- `snmp-server community <WORD> {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
<WORD>	SNMP community string
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

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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

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snmp-server disable

Disable SNMP access

Syntax

- `snmp-server disable`

Default

`None`

Command mode

Global configuration mode

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snmp-server enable

Enable SNMP access

Syntax

- `snmp-server enable`

Default

`None`

Command mode

Global configuration mode

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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

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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

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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

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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

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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

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snmp-server user

Create SNMPv3 user

Syntax

- `snmp-server user {[engine-id <WORD> <user-name>] [md5 <LINE>] | [WORD] [md5<LINE>] [read-view <WORD>] [write-view <WORD>] [notify-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`	Select MD5 authentication protocol
`md5 <LINE>`	MD5 authentication password
`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

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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

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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

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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

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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

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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

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sntp sync-now

Force immediate SNTP synchronization

Syntax

- `sntp sync-now`

Default

None

Command mode

Global configuration mode

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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

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spanning-tree bpdu-filtering (FastEthernet configuration mode)

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

FastEthernet configuration mode

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.

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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

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spanning-tree rstp

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

Global configuration mode

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.

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speed

Sets the port speed.

Syntax

- `speed [port <portlist>] {10 | 100 | 1000 | 10000 | auto}`
- `default speed [port <portlist>]`

Default

None

Command mode

FastEthernet configuration mode

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.

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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

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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

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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

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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

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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

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stack-monitor

Configures 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`	Enables stack monitoring
`stack-size <2-8>`	Sets the stack size to be monitored within the range <2-8>
`trap-interval <30-300>`	Sets the interval between traps (seconds) that ranges from <30-300>

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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 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

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storm-control all

Configure Storm Control settings for all types of traffic

Syntax

- `storm-control all action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} [enable] high-watermark <10-100000000> action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} low-watermark <10-100000000> action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} poll-interval <5-300> action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} trap-interval <0-1000> enable`
- `no storm-control all enable`
- `default storm-control all {action [trap-interval]}{ high-watermark [action [trap-interval]] [poll-interval action [trap-interval] trap-interval] [trap-interval]} {low-watermark [action [trap-interval]] [poll-interval action [trap-interval] trap-interval] [trap-interval]} {poll-interval [action [trap-interval]] trap-interval} {trap-interval}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`action drop`	Globally sets the Storm Control action to drop
`action none`	Globally sets the Storm Control action to none
`action shutdown`	Globally sets the Storm Control action to shutdown
`enable`	Enables storm control globally
`high-watermark <10-100000000>`	Set high-watermark in pps
`low-watermark <10-100000000>`	Set low-watermark in pps
`poll-interval <5-300>`	Sets the interval for watermark checking (seconds)
`trap-interval <0-1000>`	Set trap sending interval in poll-intervals when above high-watermark (0= do not send)

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storm-control broadcast

Configure broadcast Storm Control settings

Syntax

- `storm-control broadcast action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} [enable] high-watermark <10-100000000> action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} low-watermark <10-100000000> action {drop [enable | trap-interval <0- 1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} poll-interval <5-300> action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} trap-interval <0-1000> enable`
- `no storm-control broadcast enable`
- `default storm-control broadcast {action [trap-interval]}{ high-watermark [action [trap-interval]] [poll-interval action [trap-interval] trap-interval] [trap-interval]} {low-watermark [action [trap-interval]] [poll-interval action [trap-interval] trap-interval] [trap-interval]} {poll-interval [action [trap-interval]] trap-interval} {trap-interval}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`action drop`	Sets the Storm Control action to drop for the broadcast interface
`action none`	Sets the Storm Control action to none for the broadcast interface
`action shutdown`	Sets the Storm Control action to shutdown for the broadcast interface
`enable`	Enables storm control on the broadcast interface
`high-watermark <10-100000000>`	Set high-watermark in pps for the broadcast interface
`low-watermark <10-100000000>`	Set low-watermark in pps for the broadcast interface
`poll-interval <5-300>`	Sets the interval for watermark checking (seconds) for the broadcast interface
`trap-interval <0-1000>`	Sets the trap sending interval for the broadcast interface in poll-intervals when above high-watermark (0= do not send)

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storm-control multicast

Configure multicast Storm Control settings

Syntax

- `storm-control multicast action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} [enable] high-watermark <10-100000000> action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} low-watermark <10-100000000> action {drop [enable | trap-interval <0- 1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} poll-interval <5-300> action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} trap-interval <0-1000> enable`
- `no storm-control multicast enable`
- `default storm-control multicast {action [trap-interval]}{ high-watermark [action [trap-interval]] [poll-interval action [trap-interval] trap-interval] [trap-interval]} {low-watermark [action [trap-interval]] [poll-interval action [trap-interval] trap-interval] [trap-interval]} {poll-interval [action [trap-interval]] trap-interval} {trap-interval}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`action drop`	Sets the Storm Control action to drop for the multicast interface
`action none`	Sets the Storm Control action to none for the multicast interface
`action shutdown`	Sets the Storm Control action to shutdown for the multicast interface
`enable`	Enables storm control on the multicast interface
`high-watermark <10-100000000>`	Set high-watermark in pps for the multicast interface
`low-watermark <10-100000000>`	Set low-watermark in pps for the multicast interface
`poll-interval <5-300>`	Sets the interval for watermark checking (seconds) for the multicast interface
`trap-interval <0-1000>`	Sets the trap sending interval for the multicast interface in poll-intervals when above high-watermark (0= do not send)

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storm-control unicast

Configure unicast storm control settings

Syntax

- `storm-control unicast action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} [enable] high-watermark <10-100000000> action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} low-watermark <10-100000000> action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} poll-interval <5-300> action {drop [enable | trap-interval <0-1000> enable]} {none [enable |trap-interval <0-1000> enable]} {shutdown [enable | trap-interval <0-1000> enable]} trap-interval <0-1000> enable`
- `no storm-control unicast enable`
- `default storm-control unicast {action [trap-interval]}{ high-watermark [action [trap-interval]] [poll-interval action [trap-interval] trap-interval] [trap-interval]} {low-watermark [action [trap-interval]] [poll-interval action [trap-interval] trap-interval] [trap-interval]} {poll-interval [action [trap-interval]] trap-interval} {trap-interval}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
`action drop`	Sets the Storm Control action to drop for the unicast interface
`action none`	Sets the Storm Control action to none for the unicast interface
`action shutdown`	Sets the Storm Control action to shutdown for the unicast interface
`enable`	Enables storm control on the unicast interface
`high-watermark <10-100000000>`	Set high-watermark in pps for the unicast interface
`low-watermark <10-100000000>`	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-interval <0-1000>`	Sets the trap sending interval for the unicast interface in poll-intervals when above high-watermark (0= do not send)

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tacacs accounting

TACACS+ accounting tracks the user actions

Syntax

- `tacacs accounting {disable | enable}`

Default

`None`

Command mode

Global configuration mode

Command parameters

Parameter	Description
`disable`	disable accounting
`enable`	enable accounting

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tacacs authorization

TACACS+ authorization determines the user priviliges

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

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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

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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

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telnet

Telnet to another host

Syntax

- `telnet {Hostname | {A.B.C.D} | <WORD>} port <0-65535>`

Default

None

Command mode

User 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

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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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terminal

Set terminal line parameters

Syntax

- `terminal {length <0-132> | width <1-132>}`

Default

None

Command mode

User 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

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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

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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

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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>}}`

Default

None

Command mode

User Exec mode

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

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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.

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vlacp

Modify VLACP configuration

Syntax

- `vlacp {enable | macaddress <H.H.H>}`
- `no vlacp {enable | macaddress}`
- `default vlacp {enable | 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
macaddress	Set the multicast address used for VLACPDU

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vlacp (FastEthernet configuration mode)

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

FastEthernet configuration mode

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.

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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

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vlan create

Create new VLAN

Syntax

- `vlan create [<2-4094>] [<LINE>] [name <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-vinesEther2] [protocol-xnsEther2] [protocol-Userdef {ether <4096-65534> | llc <1-65534> | snap <1-65534>}] [spbm-bvlan] [spbm-switchedUni] [<1-8>][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
remote-span	Create RSPAN VLAN
snap <1-65534>	Create SNAP Userdef VLAN
spbm-bvlan	Create SPBM B-VLAN

`spbm-switchedUni`	Create SPBM switched UNI
`type`	Specify type of new VLAN
`voice-vlan`	Create Voice VLAN

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vlan delete

Delete a VLAN

Syntax

- `vlan delete <LINE>`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<LINE>	VLAN list

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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.

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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

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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

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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

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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
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 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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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
enable	Disable HTTP access
disable	Enable HTTP access

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write

Write configuration to local NV storage

Syntax

- `write memory`

Default

None

Command mode

Privileged EXEC mode

Command parameters

Parameter	Description
memory	Write configuration to local NV storage

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