

Avaya Command Line Interface Commands Reference

Introduction

This guide 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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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
<code>enable</code>	Enable auto-detection on ports.
<code>port <LINE></code>	Ports to which to apply the ADAC configuration.
<code>tagged-frames-pvid {<1-4094> [no-change]}</code>	Sets Tagged-Frames PVID on the port or ports listed. Use no-change to keep the current setting.
<code>tagged-frames-tagging {no-change tag-all tag-pvid-only untag-pvid-only}</code>	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
<code>lldp</code>	Enable 802.1ab-based detection on ports.
<code>mac</code>	Enable MAC-based detection on ports.
<code>port <LINE></code>	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
<code>call-server-port <LINE></code>	Set call server port(s) range
<code>op-mode</code>	Set ADAC operation mode
<code>uplink-port <LINE></code>	Set uplink port(s) range
<code>voice-vlan <1-4094></code>	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
<code><H.H.H></code>	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)
<code>high-end</code>	High end of the MAC address range to add
<code>low-end</code>	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
<code>call-server-port <LINE></code>	Set call server port(s) range
<code>tagged-frames</code>	IP phones send tagged frames
<code>untagged-frames-advanced</code>	IP phones send untagged frames and Voice-VLAN is created
<code>untagged-frames-basic</code>	IP phones send untagged frames and Voice-VLAN is not created
<code>uplink-port <LINE></code>	Set uplink port(s) range
<code>voice-vlan <1-4094></code>	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
<code><LINE></code>	Uplink port(s) range
<code>call-server-port <LINE></code>	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
<code><1-4094></code>	Voice-VLAN ID
<code>call-server-port <LINE></code>	Set call server port(s) range
<code>uplink-port <LINE></code>	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 or 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
<code>enable</code>	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
<code>off</code>	Stop blinking the LEDs
<code>time <1-10></code>	How long to blink the LEDs
<code>unit <1-8></code>	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
<code>default</code>	Reboot the stack/switch and use the factory default configurations
<code>unit <1-8></code>	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
<code>unit <1-8></code>	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
<code>port <port-list></code>	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/subtract 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/subtract 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
<code>filename <WORD></code>	Specify filename of config file
<code>unit <1-8></code>	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
<code>nvram</code>	Copy to local NV storage
<code>tftp address <ipv4 or ipv6> filename <filename></code>	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] [aur] [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
aur	Copy AUR 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
<code>config <ipv4 or ipv6> filename <filename></code>	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
<code><filename></code>	Specifies the diagnostics image file name to be downloaded
<code><filename> no-reset</code>	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
<code>auto</code>	Automatically detect duplex mode
<code>half</code>	Configures Full-duplex mode
<code>full</code>	Configures Half-duplex mode
<code>port</code>	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	Enable fail-open-vlan continuity-mode
vid <1-4094>	Enable fail-open-vlan 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
<code>activate</code>	Activate event
<code>deactivate</code>	Deactivate event
<code>friday</code>	Configure schedule entry for Friday
<code>hh:mm</code>	Set the hour and minutes
<code>monday</code>	Configure schedule entry for Monday
<code>saturday</code>	Configure schedule entry for Saturday
<code>sunday</code>	Configure schedule entry for Sunday
<code>thursday</code>	Configure schedule entry for Thursday
<code>tuesday</code>	Configure schedule entry for Tuesday
<code>wednesday</code>	Configure schedule entry for Wednesday
<code>weekday</code>	Configure schedule entries for weekdays
<code>weekend</code>	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
<code>asymmetric</code>	Asymmetric mode
<code>auto</code>	Automatically detect flowcontrol mode
<code>disable</code>	Disable flow control
<code>port</code>	Select port for operation
<code>symmetric</code>	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
<code>application</code>	Show commands available in Application Configuration Mode
<code>commands</code>	Show commands available
<code>config</code>	Show commands available in Global Configuration Mode
<code>current</code>	Show commands available in current configuration mode
<code>exec</code>	Show commands available in executive mode
<code>ifconfig</code>	Show commands available in Interface Configuration Mode
<code>interface</code>	Show commands available in Interface Configuration Modes
<code>mode</code>	Show commands available on specific mode
<code>modes</code>	Show available modes
<code>privExec</code>	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
<code><1024-65535></code>	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
<code><1-4094></code>	Configure DHCP snooping VLANs
<code><1-4094> option82</code>	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> | portfwddlist <1-128> <1-65535> <A.B.C.D> <name> }`
- `no ip forward-protocol udp { <1-65535> | portfwddlist <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
portfwddlist	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|source-ip <list ID> <IPaddr> [mask <mask>]}`
- `no ipmgr {snmp|telnet|web|source-ip <list ID>}`
- `default ipmgr {snmp|telnet|web|source-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
<code>block-multicast-replies</code>	Enable IPv6 ICMP block-multicast-replies
<code>enable</code>	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
<code><WORD></code>	IPv6 address, 45 length
<code>mac</code> <code><H.H.H></code>	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)
<code>port</code> <code><WORD></code>	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] [<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>] [<1-4>] [<1-4>] [<1-4>] [<1-4>]}]}`

Default

None

Command mode

Global configuration mode

Command parameters

Parameter	Description
<code>call-server <1-8> {A.B.C.D}</code>	Configure call server address number or IP address
<code>file-server <1-4> {A.B.C.D}</code>	Configure file server address number or IP address
<code>med-fast-start <1-10></code>	Set MED Fast Start repeat count value
<code>notification-interval <5-3600></code>	Set notification interval value
<code>reinit-delay <1-10></code>	Set reinitialize delay value
<code>tx-delay <1-8192></code>	Set transmission delay value
<code>tx-hold-multiplier <2-10></code>	Set transmission multiplier value
<code>tx-interval <5-32768></code>	Set retransmission interval value
<code>vendor-specific avaya</code>	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 LLDP transmit and receive status on the ports. rxonly: enables LLDP receive only. txAndRx: enables LLDP transmit and receive. For LLDP support for PoE+, transmission and reception must be enabled. txOnly: enables LLDP 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
postal/zip-code WORD
postal-community-name WORD
room-number WORD
state WORD
street WORD
street-suffix WORD
trailing-street-suffix WORD

Office
Postal/Zip code
Postal community name
Room number
National subdivisions: (state, canton, region)
Street
Street suffix
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
<code>dscp <0-63></code>	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.
<code>port <portlist></code>	Specifies the port or ports on which to configure LLDP MED policies.
<code>priority <0-7></code>	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
<code>tagging {tagged untagged}</code>	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.
<code>vlan-id <0-4094></code>	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.
<code>voice</code>	Specifies voice network policy. The default value is 46.
<code>voice-signaling</code>	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
<code>local-mgmt-addr</code>	The local management address TLV. This TLV is enabled by default.
<code>port <portlist></code>	Specifies a port or list of ports.
<code>port-desc</code>	The port description TLV This TLV is enabled by default. This TLV is enabled by default.
<code>sys-cap</code>	The system capabilities TLV
<code>sys-desc</code>	The system description TLV. This TLV is enabled by default.
<code>sys-name</code>	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
<code>port <portlist></code>	The ports affected by the command
<code>port-protocol-vlan-id <vlanlist></code>	The port and protocol VLAN ID TLV
<code>port-vlan-id</code>	The port VLAN ID TLV.
<code>protocol-identity {[EAP] [LLDP] [STP]}</code>	Protocol Identity TLV
<code>vlan-name <vlanlist></code>	The VLAN name TLV

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lldp tx-tlv dot3

Sets the optional IEEE 802.3 organizationally-specific 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
<code>extendedPSE</code>	Extended PSE TLV, the transmission of this TLV is enabled by default only on POE port switches.
<code>inventory</code>	Inventory TLVs This TLV is enabled by default.
<code>location</code>	Location Identification TLV This TLV is enabled by default
<code>med-capabilities</code>	MED Capabilities TLV (MED TLVs are transmitted only if MED Capabilities TLVs are transmitted). This TLV is enabled by default.
<code>network-policy</code>	Network Policy TLV This TLV is enabled by default.
<code>port <portlist></code>	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
<code>dot1q-framing</code> {auto non-tagged tagged }	Enables the Layer 2 priority tagging TLV transmit flag.
<code>poe-conservation-request-level</code> <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]}}
- 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>
serious
volatile

Configure remote syslog address

Serious event message

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
<code>aging-time <10 - 1000000></code>	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>

snmp-lock

sticky

sticky-address <H.H.H>

Assign a security list to a MAC address.

Enable/disable SNMP lock on MAC address security parameters.

Set mac-security sticky mode

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

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

| Parameter                            | Description                                       |
|--------------------------------------|---------------------------------------------------|
| <code>[port &lt;portlist&gt;]</code> | Specifies a port or list of ports.                |
| <code>auto-learning</code>           | Configure MAC Auto-Learning.                      |
| <code>disable</code>                 | Disable MAC security for port(s).                 |
| <code>enable</code>                  | Enable MAC security for port(s).                  |
| <code>learning</code>                | Enable MAC security address learning for port(s). |
| <code>lock-out</code>                | Lock out ports from mac security.                 |
| <code>max-addr</code>                | 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                                                  |
|-------------------------------------------------|--------------------------------------------------------------|
| <code>&lt;1-6&gt;</code>                        | MLT ID                                                       |
| <code>bpdu {all-ports   single-port}</code>     | Set BPDU send/receive mode                                   |
| <code>disable</code>                            | Disable MLT                                                  |
| <code>enable</code>                             | Enable MLT                                                   |
| <code>learning {disable   fast   normal}</code> | Set STP learning mode to disable, fast or normal for a trunk |
| <code>loadbalance {advance basic}</code>        | MLT Load Balance Selection (Advance/Basic)                   |
| <code>member &lt;LINE&gt;</code>                | Set port membership of MLT                                   |
| <code>name &lt;mlt-name&gt;</code>              | MLT Name                                                     |
| <code>shutdown-ports-on-disable</code>          | Set protection for disabled trunk                            |
| <code>spanning-tree</code>                      | Set MLT spanning-tree settings                               |
| <code>stp {&lt;1-8&gt;   all   learning}</code> | 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                           |
|--------------------------------------------|---------------------------------------|
| <code>aging-time day &lt;1-2730&gt;</code> | Password validity period              |
| <code>security</code>                      | 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                                      |
|-----------------------|--------------------------------------------------|
| <code>disable</code>  | Disable port mirroring                           |
| <code>Xrx</code>      | Mirror packets received on port X                |
| <code>XrxOrXtx</code> | Mirror packets received or transmitted on port X |
| <code>Xtx</code>      | 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-lp {<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>                            | Specify 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-lp {<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                                                                                |
|----------------------|--------------------------------------------------------------------------------------------|
| <code>disable</code> | Auto QOS application traffic processing disabled on all ports                              |
| <code>mixed</code>   | Auto QOS application traffic processing enabled on all ports with egress DSCP remapping    |
| <code>pure</code>    | 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 –<br>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                                          |
|----------------------------------------------|------------------------------------------------------|
| <code>&lt;1-55000&gt;</code>                 | Specify the classifier ID                            |
| <code>element-id &lt;1-55000&gt;</code>      | Specify the IP classifier element ID                 |
| <code>element-type {ip   l2   system}</code> | Specify the classifier element type (IP, L2, System) |
| <code>name &lt;WORD&gt;</code>               | Specify the classifier name                          |
| <code>session id &lt;1-4294967295&gt;</code> | Specify the session ID                               |
| <code>set-id &lt;1-55000&gt;</code>          | 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                                                                           |
|--------------------------------------------------|---------------------------------------------------------------------------------------|
| <code>&lt;1-55000&gt;</code>                     | Specify the classifier block ID                                                       |
| <code>block-number &lt;1-55000&gt;</code>        | Specify the classifier block number                                                   |
| <code>eval-order</code>                          | Specify the block entry evaluation order                                              |
| <code>in-profile-action &lt;1-55000&gt;</code>   | Specify the in-profile action ID to be linked to the classifier entry of this block   |
| <code>in-profile-action-name &lt;WORD&gt;</code> | Specify the in-profile action name to be linked to the classifier entry of this block |
| <code>meter &lt;1-55000&gt;</code>               | Specify the meter ID to be linked to the classifier entry of this block               |
| <code>meter-name &lt;WORD&gt;</code>             | Specify the meter name to be linked to the classifier entry of this block             |
| <code>name &lt;WORD&gt;</code>                   | Specify the classifier block name                                                     |
| <code>session-id &lt;1-4294967295&gt;</code>     | Specify the session ID                                                                |
| <code>set-id &lt;1-55000&gt;</code>              | Specify the classifier set ID to be linked to the block                               |
| <code>set-name &lt;WORD&gt;</code>               | 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>] [lp <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                                                                       |
|---------------|-----------------------------------------------------------------------------------|
| lp <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> } [session-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                                                                   |
| session-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                                                                                                                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>class</code>             | Specify class of traffic received on interfaces associated with this interface group                                                                                                                                                                                                                  |
| <code>name &lt;WORD&gt;</code> | Specify name of interface group                                                                                                                                                                                                                                                                       |
| <code>trusted</code>           | 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)                                                                                                                      |
| <code>unrestricted</code>      | 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)                                                                                         |
| <code>untrusted</code>         | 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)                                                                                              |
| <code>untrustedbasic</code>    | 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. |
| <code>untrustedv4v6</code>     | 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                                                                                                                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>name &lt;WORD&gt;</code>                 | Specifies an alphanumeric label used to identify the QoS interface queue shaper. Value is a character string ranging from 1–16 characters in length.                                |
| <code>port &lt;portlist&gt;</code>             | Specifies the port or list of ports for which to apply egress queue shaping.                                                                                                        |
| <code>queue &lt;1-8&gt;</code>                 | 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. |
| <code>shape-min-rate &lt;0-10230000&gt;</code> | Specifies the minimum QoS interface queue shaping rate, in kilobits per second (Kbps). Values range from 0 to 10230000 Kbps.                                                        |
| <code>shape-rate &lt;0-10230000&gt;</code>     | 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>           | Committed 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>][lp <0-7> ds <0-63>]}`
- `default qos ingressmap`

### Default

None

### Command mode

Global configuration mode

### Command parameters

| Parameter                      | Description                                                                        |
|--------------------------------|------------------------------------------------------------------------------------|
| <code>lp &lt;0-7&gt;</code>    | Specify the 802.1p user priority used as lookup key for DSCP assignment at ingress |
| <code>ds &lt;0-63&gt;</code>   | Specify the DSCP value associated with the target 802.1p priority                  |
| <code>name &lt;WORD&gt;</code> | 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 <0x0-0xffff>] [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-lp <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 0x0-0xffff                   | 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-lp <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 <0x00-0xffff>] [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 <0x00-0xffff>         | 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-lp <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-lp <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                                                                                                     |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <code>&lt;1-55000&gt;</code>                   | Specify the L2 classifier element ID                                                                            |
| <code>dst-mac &lt;H.H.H&gt;</code>             | Specify the destination MAC classifier criteria                                                                 |
| <code>dst-mac-mask &lt;H.H.H&gt;</code>        | Specify the destination MAC mask classifier criteria                                                            |
| <code>ethertype &lt;0x0-0xFFFF&gt;</code>      | Specify the ethertype classifier criteria                                                                       |
| <code>name &lt;WORD&gt;</code>                 | Specify name of l2 element                                                                                      |
| <code>pkt-type &lt;etherII llc snap&gt;</code> | Specify the filter packet format ethertype encoding criteria (Ethernet II packet, or LLC packet or SNAP packet) |
| <code>priority &lt;0-7&gt;  All</code>         | Specify the user priority classifier criteria                                                                   |
| <code>session-id &lt;1-4294967295&gt;</code>   | Specify the session ID                                                                                          |
| <code>src-mac &lt;H.H.H&gt;</code>             | Specify the source MAC classifier criteria                                                                      |
| <code>src-mac-mask &lt;H.H.H&gt;</code>        | Specify the source MAC mask classifier criteria                                                                 |
| <code>vlan-min &lt;1-4094&gt;</code>           | Specify the Vlan ID minimum value classifier criteria                                                           |
| <code>vlan-max &lt;1-4094&gt;</code>           | Specify the Vlan ID maximum value classifier criteria                                                           |
| <code>vlan-tag &lt;tagged  untagged&gt;</code> | 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                                                                        |

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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                                                       |
|---------------------------------------|-------------------------------------------------------------------|
| <code>enable</code>                   | Enable RADIUS Accounting Interim-Updates                          |
| <code>interim-updates</code>          | Modify interim-updates settings                                   |
| <code>interval &lt;60-3600&gt;</code> | Modify the timeout interval for RADIUS Accounting Interim-Updates |
| <code>use-server-interval</code>      | 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                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>both<br/>&lt;pct&gt;</code>      | Apply rate-limiting to both multicast and broadcast. Enter an integer from 1–10 to set the rate-limiting percentage.                                                                              |
| <code>broadcast<br/>&lt;pct&gt;</code> | Apply rate-limiting to broadcast packets. Enter an integer from 1–10 to set the rate-limiting percentage.                                                                                         |
| <code>multicast<br/>&lt;pct&gt;</code> | Apply rate-limiting to multicast packets. Enter an integer from 1–10 to set the rate-limiting percentage.                                                                                         |
| <code>port<br/>&lt;portlist&gt;</code> | 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                      |
|-------------------|----------------------------------|
| <code>unit</code> | 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                                          |
|------------------------------|------------------------------------------------------|
| <code>factory-default</code> | Reset stack/switch to factory default configurations |
| <code>-y</code>              | 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                               |
|----------------------------------------|-------------------------------------------|
| <code>&lt;1-65535&gt;</code>           | Index of entry                            |
| <code>community &lt;LINE&gt;]</code>   | Specify community string                  |
| <code>description &lt;LINE&gt;]</code> | Specify description of event              |
| <code>log</code>                       | Specify events should be logged           |
| <code>owner &lt;LINE&gt;</code>        | Specify owner string                      |
| <code>trap</code>                      | 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                 |
|-----------------------------------|-----------------------------|
| <code>&lt;1-3600&gt;</code>       | Sampling interval (seconds) |
| <code>&lt;1-65535&gt;</code>      | Index of entry              |
| <code>LINE &lt;1-65535&gt;</code> | Data source (port number)   |
| <code>owner &lt;LINE&gt;</code>   | 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               |
|---------------------------------|---------------------------|
| <code>&lt;1-65535&gt;</code>    | Index of entry            |
| <code>LINE</code>               | Data source (port number) |
| <code>owner &lt;LINE&gt;</code> | 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                                                               |
|---------------------------|---------------------------------------------------------------------------|
| <code>&lt;LINE&gt;</code> | List of ports                                                             |
| <code>port</code>         | 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                                               |
|---------------------------|-----------------------------------------------------------|
| <code>&lt;LINE&gt;</code> | List of ports                                             |
| <code>port</code>         | 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                          |
|------------------------|--------------------------------------|
| <code>nmm-table</code> | Display autotopology NMM table       |
| <code>settings</code>  | 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           |
|---------------------|-----------------------|
| <code>custom</code> | Display custom banner |
| <code>static</code> | 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                        |
|--------------------------|------------------------------------|
| <code>summer-time</code> | Show daylight saving time settings |
| <code>time-zone</code>   | 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 |
|-------------------------------|-------------|
| <code>unit &lt;1-8&gt;</code> | 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<br><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                             |
|--------------------------------|-----------------------------------------|
| <code>vlan &lt;LINE&gt;</code> | 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                     |
|----------------------------------|---------------------------------|
| <code>interface</code>           | Display interface configuration |
| <code>vlan &lt;1-4094&gt;</code> | 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       |
|---------------------------|-------------------|
| <code>client lease</code> | 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             |
|----------------------------------|-------------------------|
| <code>vlan &lt;1-4094&gt;</code> | 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             |
|----------------------------------|-------------------------|
| <code>vlan &lt;1-4094&gt;</code> | 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 address 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 address/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                  |
|------------------------------------------|------------------------------|
| <code>icmpstatistics</code>              | Display IPv6 icmp statistics |
| <code>statistics</code>                  | Display IPv6 statistics      |
| <code>tunnel &lt;1-2147483647&gt;</code> | Display by tunnel            |
| <code>vlan &lt;1-4094&gt;</code>         | 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       |
|------------------------------------------|-------------------|
| <code>tunnel &lt;1-2147483647&gt;</code> | Display by tunnel |
| <code>vlan &lt;1-4094&gt;</code>         | 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       |
|------------------------------------------|-------------------|
| <code>tunnel &lt;1-2147483647&gt;</code> | Display by tunnel |
| <code>vlan &lt;1-4094&gt;</code>         | 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                                        |
|---------------------|----------------------------------------------------|
| <code>detail</code> | Display all TLVs                                   |
| <code>dot1</code>   | Display IEEE 802.1 Organizationally specific TLVs  |
| <code>dot3</code>   | Display IEEE 802.3 Organizationally specific TLVs  |
| <code>med</code>    | 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                                        |
|------------------------------|----------------------------------------------------|
| <code>dot1</code>            | Display IEEE 802.1 Organizationally specific TLVs  |
| <code>dot3</code>            | Display IEEE 802.3 Organizationally specific TLVs  |
| <code>med</code>             | Display Media Endpoint Devices (MED) specific TLVs |
| <code>vendor-specific</code> | 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                            |
|---------------------------------------------|----------------------------------------|
| <code>call-server</code>                    | Display call-server address(es)        |
| <code>dot1q-framing</code>                  | Display 802.1Q framing tagging-mode    |
| <code>file-server</code>                    | Display file-server address(es)        |
| <code>poe-conservation-request-level</code> | 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                            |
|-------------------------------|----------------------------------------|
| <code>config</code>           | Display configuration of event logging |
| <code>critical</code>         | Critical event                         |
| <code>informational</code>    | Informational message                  |
| <code>serious</code>          | Serious event message                  |
| <code>sort-reverse</code>     | display log messages in reverse order  |
| <code>unit &lt;1-8&gt;</code> | 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<br><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                                   |
|------------------------------------|-----------------------------------------------|
| <code>&lt;1-4094&gt;</code>        | VLAN ID                                       |
| <code>address &lt;H.H.H&gt;</code> | Display specific address                      |
| <code>port &lt;LINE&gt;</code>     | 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                                           |
|------------------------------------------|-------------------------------------------------------|
| <code>address &lt;H.H.H&gt;</code>       | Display the accessible port for specific MAC address. |
| <code>config</code>                      | Display the stack/switch MAC security configuration.  |
| <code>mac-address-table</code>           | Display the accessible MAC addresses on each port.    |
| <code>mac-da-filter</code>               | Display MAC DA filtering addresses                    |
| <code>port</code>                        | Display ports' MAC security status.                   |
| <code>port &lt;LINE&gt;</code>           | Display MAC addresses from specific port              |
| <code>security-lists &lt;LINE&gt;</code> | 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 |
|-------------------------------|-------------|
| <code>unit &lt;1-8&gt;</code> | 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                             |
|-----------------------|-----------------------------------------|
| <code>security</code> | 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                                   |
|-------------------------------|-----------------------------------------------|
| <code>unit &lt;1-8&gt;</code> | 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                 |
|--------------------------------|-----------------------------|
| <code>&lt;port-list&gt;</code> | 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                 |
|--------------------------------|-----------------------------|
| <code>&lt;port-list&gt;</code> | 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   |
|-------------------------------|---------------|
| <code>port&lt;LINE&gt;</code> | 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                                           |
|------------------------------|-------------------------------------------------------|
| <code>&lt;1-65535&gt;</code> | Display the specified base action entry               |
| <code>all</code>             | Display all user-created, default, and system entries |
| <code>system</code>          | Display only system entries                           |
| <code>user</code>            | 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               |
|----------------------|---------------------------|
| <code>details</code> | 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                          |
|--------------------------------|--------------------------------------|
| <code>meter</code>             | Display QoS port meter capabilities  |
| <code>port &lt;LINE&gt;</code> | Specify list of ports                |
| <code>shaper</code>            | 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                                           |
|------------------------------|-------------------------------------------------------|
| <code>&lt;1-65535&gt;</code> | Display the specified classifier entry                |
| <code>all</code>             | Display all user-created, default, and system entries |
| <code>system</code>          | Display only system entries                           |
| <code>user</code>            | 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                                       |
|-------------------------------|---------------------------------------------------|
| <code>unit &lt;1-8&gt;</code> | 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                     |
|------------------------------|---------------------------------|
| <code>ds &lt;0-63&gt;</code> | 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           |
|--------------------------------|-----------------------|
| <code>port &lt;LINE&gt;</code> | 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           |
|--------------------------------|-----------------------|
| <code>port &lt;LINE&gt;</code> | 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                                           |
|------------------------------|-------------------------------------------------------|
| <code>&lt;1-65535&gt;</code> | Display the specified policy entry                    |
| <code>all</code>             | Display all user-created, default, and system entries |
| <code>port</code>            | Specify list of ports                                 |
| <code>system</code>          | Display only system entries                           |
| <code>user</code>            | 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                     |
|-------------------------------------|---------------------------------|
| <code>queue-set &lt;1-32&gt;</code> | 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                                          |
|--------------------------------|------------------------------------------------------|
| <code>&lt;1-65535&gt;</code>   | Policy ID                                            |
| <code>port &lt;LINE&gt;</code> | 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                                                       |
|--------------------------------|-------------------------------------------------------------------|
| <code>accounting</code>        | Display the configuration of RADIUS Accounting Interim-Updates    |
| <code>client {A.B.C.D}</code>  | Display the configuration of RADIUS Dynamic Authorization Client  |
| <code>dynamic-server</code>    | Display the configuration of RADIUS Dynamic Authorization Clients |
| <code>interim-updates</code>   | Display the parameters of interim-updates                         |
| <code>reachability</code>      | Display RADIUS reachability settings                              |
| <code>replay-protection</code> | Display status of RADIUS dynamic server replay protection         |
| <code>statistics</code>        | Display the statistics for RADIUS Dynamic Authorization Client    |
| <code>use-management-ip</code> | 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                               |
|------------------------------|-------------------------------------------|
| <code>interim-updates</code> | 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                                  |
|---------------------------|----------------------------------------------|
| <code>sort-reverse</code> | 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                                    |
|--------------------------------|------------------------------------------------|
| <code>port &lt;LINE&gt;</code> | 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                                    |
|--------------------------------|------------------------------------------------|
| <code>port &lt;LINE&gt;</code> | 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                             |
|--------------------------------|-----------------------------------------|
| <code>port &lt;LINE&gt;</code> | 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] [poel] [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 |

|                |                                                          |
|----------------|----------------------------------------------------------|
| po e           | 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                                                                         |
|------------------------------------|-------------------------------------------------------------------------------------|
| <code>port &lt;portlist&gt;</code> | 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                                       |
|-----------------------------------------------|---------------------------------------------------|
| <code>auto-unit-replacement</code>            | Display auto unit replacement configuration       |
| <code>auto-unit-replacement-image</code>      | Display auto unit image replacement configuration |
| <code>forced-mode</code>                      | Display the forced stack mode                     |
| <code>health</code>                           | Display the status of each stacking link          |
| <code>port-statistics</code>                  | Display stack port counters                       |
| <code>port-statistics unit &lt;1-8&gt;</code> | 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

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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                                                   |
|------------------------------------------|---------------------------------------------------------------|
| <code>interface &lt;port-list&gt;</code> | Select interfaces for which to display storm-control settings |
| <code>interface all</code>               |                                                               |

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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                                  |
|-----------------------------------|----------------------------------------------|
| <code>last-exception</code>       | Display last software exception information. |
| <code>unit &lt;1-8&gt; all</code> | Display last exception for a specified unit  |
| <code>verbose</code>              | 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                 |
|-----------------------|-----------------------------|
| <code>sessions</code> | 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                                                           |
|----------------------------------------|-----------------------------------------------------------------------|
| <code>&lt;1-4094&gt;</code>            | Vlan ID                                                               |
| <code>&lt;LINE&gt;</code>              | VLAN list                                                             |
| <code>unknown-mcast-allow-flood</code> | Display list of multicast MAC addresses for which flooding is allowed |
| <code>unknown-mcast-no-flood</code>    | 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                            |
|--------------------------------|----------------------------------------|
| <code>info &lt;LINE&gt;</code> | Display VLAN-related settings of ports |
| <code>vids &lt;LINE&gt;</code> | 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                  |
|------------------------------|------------------------------|
| <code>id &lt;LINE&gt;</code> | display for specific VLAN ID |
| <code>summary</code>         | 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                            |
|-------------------------------------------------|----------------------------------------|
| <code>cancel</code>                             | Cancel a previous scheduled shutdown   |
| <code>force</code>                              | Do not ask for confirmation            |
| <code>force minutes-to-wait &lt;1-60&gt;</code> | Number of minutes to wait before reset |
| <code>minutes-to-wait &lt;1-60&gt;</code>       | 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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## 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<br><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<br>{0 <10-<br>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                        |
|-----------------------------|------------------------------------|
| <code>minimum-secure</code> | Use minimum security configuration |
| <code>semi-secure</code>    | Use partial security configuration |
| <code>very-secure</code>    | 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> [<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                            |
|----------------------------|----------------------------------------|
| <code>&lt;0-168&gt;</code> | 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               |
|--------------------------|---------------------------|
| <code>ignore-self</code> | Ignore bridge's own BPDUs |

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## spanning-tree bpd-filtering (FastEthernet configuration mode)

Configures STP BPDU filtering.

### Syntax

- `spanning-tree bpd-filtering [port <portlist>] [enable] [timeout <10-65535 | 0> ]`
- `no spanning-tree bpd-filtering [enable] [port <portlist>enable]`
- `default spanning-tree bpd-filtering [enable] [port <portlist>enable]`

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

| Parameter                                          | Description                                                                                                                                                                                                                   |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>enable</code>                                | Enables STP BPDU Filtering on the specified ports. The default value is disabled                                                                                                                                              |
| <code>port<br/>&lt;portlist&gt;</code>             | Specifies the ports affected by the command.                                                                                                                                                                                  |
| <code>timeout<br/>&lt;10-65535<br/>  0 &gt;</code> | 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                                                                                                                          |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <code>10 100 1000 10000 auto</code><br><code>port &lt;portlist&gt;</code> | 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.<br>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                                                                   |
|-------------------------------|-------------------------------------------------------------------------------|
| <code>config</code>           | Modify AUR operational settings                                               |
| <code>disable</code>          | Disable AUR auto-save                                                         |
| <code>enable</code>           | Enable AUR auto-save                                                          |
| <code>restore</code>          | Restore configuration of a unit from the saved configuration on the base unit |
| <code>save</code>             | Enable/disable auto-save of unit configuration to base unit                   |
| <code>unit &lt;1-8&gt;</code> | 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 |
|-------------------------------|-------------|
| <code>unit &lt;1-8&gt;</code> | 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                                                         |
|-------------------------------------------|---------------------------------------------------------------------|
| <code>enable</code>                       | Enables stack monitoring                                            |
| <code>stack-size &lt;2-8&gt;</code>       | Sets the stack size to be monitored within the range <2-8>          |
| <code>trap-interval &lt;30-300&gt;</code> | 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 |
|-----------------------------------|-------------|
| <code>&lt;0-4294967295&gt;</code> | 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]} {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 privileges

### 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                                             |
|-------------------------------|---------------------------------------------------------|
| <code>&lt;password&gt;</code> | Cleartext password (when password security is disabled) |
| <code>&lt;WORD&gt;</code>     | Username                                                |
| <code>ro</code>               | Read-only user name reset to default.                   |
| <code>rw</code>               | 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 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 vlapc enable`
- `default vlapc [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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>&lt;slot/port&gt;</code>                                     | Specifies the slot and port number.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <code>enable</code>                                                | Enables VLACP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <code>ethertype {&lt;0x8101-0x81ff&gt; &lt;33025-33279&gt;}</code> | Sets the VLACP protocol identification for this port. Defines the ethertype value of the VLACP frame. The range is 8101-81FF. Default is 8103.                                                                                                                                                                                                                                                                                                                                                                 |
| <code>fast-periodic-time &lt;integer&gt;</code>                    | Specifies the number of milliseconds between periodic VLACPDU transmissions using short timeouts. The range is 400-20000 milliseconds. Default is 500.                                                                                                                                                                                                                                                                                                                                                         |
| <code>funcmac-addr &lt;mac&gt;</code>                              | 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.                                                                                                                                                                                                                                                            |
| <code>slow-periodic-time &lt;integer&gt;</code>                    | Specifies the number of milliseconds between periodic VLACPDU transmissions using long timeouts. The range is 10000-30000 milliseconds. Default is 30000.                                                                                                                                                                                                                                                                                                                                                      |
| <code>timeout {long  short}</code>                                 | Specifies whether the timeout control value for the port is a long or short timeout. <code>long</code> — sets the port timeout value to: (timeoutscale value) × (slow-periodic-time value). <code>short</code> — sets the port's timeout value to: (timeout-scale value) × (fast-periodic-time value). For example, if the timeout is set to <code>short</code> while the timeout-scale value is 5 and the fast-periodic-time value is 500 ms, the timer expires after 2500 ms. Default is <code>long</code> . |
| <code>timeout-scale &lt;integer&gt;</code>                         | Sets a timeout scale for the port, where <code>timeout = (periodic time) × (timeout-scale)</code> . 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                                                                   |
|------------------------|-------------------------------------------------------------------------------|
| <code>automatic</code> | AutoPVID and automatic change to membership of port-based VLANs               |
| <code>autopvid</code>  | Automatic change to PVID                                                      |
| <code>flexible</code>  | No restricts or automatic changes                                             |
| <code>strict</code>    | 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
type
voice-vlan
```

Create SPBM switched UNI  
Specify type of new 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>                      | Multicast 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 |
|-----------------------------|-------------|
| <code>&lt;1-4094&gt;</code> | 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 |

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