

## Avaya Command Line Interface Commands Reference

### Introduction

This guide describes the Avaya Command Line Interface (CLI) commands for the configuration of various features in Avaya Ethernet Routing Switch 3500 Series for the 5.3.2 release.

This document provides two different ways of navigating CLI 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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## Command mode index

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## Application configuration mode

### D

- [default slamon oper-mode](#)

### S

- [slamon agent-comm-port](#)
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# FastEthernet configuration mode

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## FastEthernet configuration mode

### A

- [adac](#)
- [adac detection](#)
- [auto-negotiation-advertisements](#)

### C

- [clear ip-blocking](#)
- [clear stack port-statistics](#)
- [clear-stats](#)
- [clear system last-exception](#)

### D

- [duplex](#)

### E

- [eapol \(FastEthernet configuration mode\)](#)
- [eapol guest-vlan \(FastEthernet configuration mode\)](#)
- [eapol multihost \(FastEthernet configuration mode\)](#)
- [eapol multihost non-eap-mac](#)
- [energy-saver \(FastEthernet configuration mode\)](#)

### F

- [flowcontrol](#)

### I

- [ip arp-inspection \(FastEthernet configuration mode\)](#)
- [ip dhcp-relay \(FastEthernet configuration mode\)](#)

### L

- [lACP aggregation](#)
- [lACP clear-stats](#)
- [lACP key \(FastEthernet configuration mode\)](#)
- [lACP mode](#)
- [lACP priority](#)
- [lACP timeout-time](#)
- [lldp \(FastEthernet configuration mode\)](#)
- [lldp location-identification \(FastEthernet configuration mode\)](#)
- [lldp med-network-policies](#)
- [lldp tx-tlv](#)
- [lldp tx-tlv dot3](#)
- [lldp tx-tlv med](#)
- [lldp tx-tlv vendor-specific avaya \(FastEthernet configuration mode\)](#)
- [lldp vendor-specific avaya \(FastEthernet configuration mode\)](#)

### M

- [mac-security \(FastEthernet configuration mode\)](#)

## P

- [poe poe-limit \(for PoE+ units\)](#)
- [poe poe-limit \(for PoE units\)](#)
- [poe poe-priority](#)
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## Q

- [qos if-assign \(FastEthernet configuration mode\)](#)
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## S

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- [shutdown \(FastEthernet configuration mode\)](#)
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- [slamon oper-mode](#)
- [slpp-guard](#)
- [spanning-tree bpdu-filtering \(FastEthernet configuration mode\)](#)
- [speed](#)

## V

- [vlacp \(FastEthernet configuration mode\)](#)



# Global Configuration

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## Global Configuration

I

- [i-sid](#)

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## Global configuration mode

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- [adac enable](#)
- [adac mac-range-table](#)
- [adac op-mode](#)
- [adac uplink-port](#)
- [adac voice-vlan](#)
- [arp](#)
- [asset-id](#)
- [auto-pvid](#)
- [autosave](#)
- [autotopology](#)

### B

- [banner](#)

### C

- [cli](#)
- [clock summer-time](#)
- [clock time-zone](#)

### D

- [default http-port](#)

### E

- [eapol](#)
- [eapol guest-vlan](#)
- [eapol multihost](#)
- [eapol multihost dummy-adac-radius-requests](#)
- [eapol multihost fail-open-vlan](#)
- [eapol multihost multivlan](#)
- [eapol multihost non-eap-pwd-fmt](#)
- [eapol multihost non-eap-user-based-policies](#)
- [eapol multihost voip-vlan](#)
- [enable](#)
- [end](#)
- [energy-saver \(Global configuration mode\)](#)
- [energy-saver schedule](#)

### H

- [http-port](#)

### I

- [interface FastEthernet](#)
- [interface loopback](#)



- [interface vlan](#)
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- [ip arp-inspection](#)
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- [ip bootp](#)
- [ip default-gateway](#)
- [ip dhcp client lease](#)
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- [ip dhcp-snooping](#)
- [ip dhcp-snooping](#)
- [ip dhcp-snooping vlan](#)
- [ip directed-broadcast](#)
- [ip domain-name](#)
- [ip forward-protocol](#)
- [ip igmp](#)
- [ip mgmt](#)
- [ipmgr](#)
- [ip name-server](#)
- [ip route](#)
- [ip routing](#)
- [ipv6](#)
- [ipv6 address](#)
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## L

- [lACP key](#)
- [lACP system-priority](#)
- [lldp](#)
- [logging](#)

## M

- [mac-address-table](#)
- [mac-security](#)
- [mlt](#)

## P

- [password](#)
- [poe](#)
- [port-mirroring](#)

## Q

- [qos acl-assign](#)
- [qos action](#)
- [qos agent aq-mode](#)
- [qos agent nvram-delay](#)
- [qos agent reset-default](#)
- [qos agent statistics-tracking](#)
- [qos classifier](#)
- [qos classifier-block](#)
- [qos clear-stats](#)
- [qos egressmap](#)
- [qos if-action-extension](#)
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- [qos ip-acl](#)

- [qos ip-element](#)
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- [qos meter](#)
- [qos policy](#)
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## R

- [radius accounting](#)
- [radius dynamic-server](#)
- [radius reachability](#)
- [radius-server](#)
- [radius use-management-ip](#)
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- [rear-ports mode](#)
- [renumber](#)
- [rmon alarm](#)
- [rmon event](#)
- [rmon history](#)
- [rmon stats](#)

## S

- [slpp-guard ethertype](#)
- [snmp-server bootstrap](#)
- [snmp-server community](#)
- [snmp-server contact](#)
- [snmp-server disable](#)
- [snmp-server enable](#)
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- [snmp-server view](#)
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- [spanning-tree port-mode](#)
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- [stack auto-unit-replacement](#)
- [stack auto-unit-replacement-image](#)
- [stack forced-mode](#)
- [stack-monitor](#)
- [stack reboot-on-failure](#)
- [stack retry-count](#)
- [storm-control all](#)
- [storm-control broadcast](#)
- [storm-control multicast](#)
- [storm-control unicast](#)

## T

- [tacacs accounting](#)
- [tacacs authorization](#)
- [tacacs server](#)
- [tacacs switch](#)
- [telnet-access](#)
- [tftp-server](#)

## U

- [username](#)

## V

- [vlacp](#)
- [vlan configcontrol](#)
- [vlan create](#)
- [vlan delete](#)
- [vlan igmp](#)
- [vlan members](#)
- [vlan mgmt](#)
- [vlan name](#)
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- [vlan voice-vlan](#)

## W

- [web-server](#)



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## Loopback Interface configuration mode

### E

- [end \(Loopback Interface configuration mode\)](#)
- [exit \(Loopback Interface configuration mode\)](#)

### I

- [ipv6 interface](#)

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## Privileged EXEC mode

### B

- [blink-leds](#)
- [boot](#)

### C

- [clear arp-cache](#)
- [clear ip forward-protocol udp counters](#)
- [clear license](#)
- [clear logging](#)
- [clear mac-address-table](#)
- [configure network address](#)
- [configure network filename](#)
- [configure network load-on-boot](#)
- [configure terminal](#)
- [copy config](#)
- [copy running-config tftp](#)
- [copy sftp](#)
- [copy tftp](#)

### D

- [disable](#)
- [download address](#)
- [download diag](#)
- [download image](#)
- [download no-reset](#)

### E

- [energy-saver \(Privileged EXEC mode\)](#)

### I

- [install](#)
- [ip igmp flush vlan](#)

### R

- [reload](#)
- [renew](#)
- [restore](#)
- [run ipoffice](#)

### S

- [save](#)
- [show adac](#)
- [show adac detection](#)
- [show adac interface](#)
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# Privileged Executive

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## Privileged Executive

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## User Executive

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# VLAN Interface configuration mode

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## VLAN Interface configuration mode

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# Command: adac

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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)]}`
- `default adac [enable] [port <LINE> tagged-frames-pvid enable] [port <LINE> tagged-frames-tagging enable]`
- `no adac [enable] [port <LINE> enable]`

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

Parameter	Description
<code>enable</code>	Enable auto-detection on ports.
<code>port &lt;LINE&gt;</code>	Ports to which to apply the ADAC configuration.
<code>tagged-frames-pvid {&lt;1-4094&gt;  [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.



# Command: adac call-server-port

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## adac call-server-port

Set call server port(s) range

### Syntax

- `adac call-server-port <LINE>`
- `default adac call-server-port`
- `no 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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# Command: adac detection

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## adac detection

Enables detection mechanisms on ports.

### Syntax

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

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

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

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# Command: adac enable

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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>]`
- `default adac enable [voice-vlan] [uplink-port] [call-server-port]`
- `no adac enable [voice-vlan] [uplink-port] [call-server-port]`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>call-server-port &lt;LINE&gt;</code>	Set call server port(s) range
<code>op-mode</code>	Set ADAC operation mode
<code>uplink-port &lt;LINE&gt;</code>	Set uplink port(s) range
<code>voice-vlan &lt;1-4094&gt;</code>	Set Voice-VLAN

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# Command: adac mac-range-table

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>&lt;H.H.H&gt;</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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# Command: adac op-mode

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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 &lt;LINE&gt;</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 &lt;LINE&gt;</code>	Set uplink port(s) range
<code>voice-vlan &lt;1-4094&gt;</code>	Set Voice-VLAN

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# Command: adac uplink-port

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## adac uplink-port

Set uplink port(s) range

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>&lt;LINE&gt;</code>	Uplink port(s) range
<code>call-server-port &lt;LINE&gt;</code>	Call server port(s) range

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# Command: adac voice-vlan

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## adac voice-vlan

Set Voice-VLAN ID

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>&lt;1-4094&gt;</code>	Voice-VLAN ID
<code>call-server-port &lt;LINE&gt;</code>	Set call server port(s) range
<code>uplink-port &lt;LINE&gt;</code>	Set uplink port(s) range

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# Command: arp

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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>}`
- `default arp timeout`
- `no arp {A.B.C.D}`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>&lt;A.B.C.D&gt;</code>	IP addr of ARP entry
<code>&lt;H.H.H&gt;</code>	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)
<code>&lt;WORD&gt;</code>	unit/port
<code>id &lt;1-4094&gt;</code>	VLAN ID to apply ARP entry for
<code>timeout &lt;5-360&gt;</code>	time for the entry to exist



# Command: asset-id

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## asset-id

Configure the Asset-ID

### Syntax

- `asset-id {stack <WORD> | unit <1-8> <WORD>| <WORD>}`
- `default asset-id {stack | unit <1-8>}`
- `no 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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# Command: auto-negotiation-advertisements

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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]]
- `default auto-negotiation-advertisements` [port <LINE>]
- `no auto-negotiation-advertisements` [port <LINE>]

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

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





# Command: auto-pvid

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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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# Command: autosave

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## autosave

Change autosave settings

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>enable</code>	Enable autosave



# Command: autotopology

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## autotopology

Enable the autotopology protocol

### Syntax

- autotopology
- default autotopology
- no autotopology

### Default

None

### Command mode

Global configuration mode

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# Command: banner

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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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# Command: blink-leds

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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 &lt;1-10&gt;</code>	How long to blink the LEDs
<code>unit &lt;1-8&gt;</code>	Unit number

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# Command: boot

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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 &lt;1-8&gt;</code>	Specifies the unit number to be rebooted on the switch/stack

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# Command: clear arp-cache

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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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# Command: clear ip-blocking

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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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# Command: clear ip forward-protocol udp counters

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## clear ip forward-protocol udp counters

Clears UDP broadcast 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.

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# Command: clear license

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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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# Command: clear logging

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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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# Command: clear mac-address-table

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## clear mac-address-table

Flush addresses from Mac Address Table

### Syntax

- clear mac-address-table [address <H.H.H>] [interface {FastEthernet <LINE> |mlt <1-6>| vlan <1-4094>}]

### 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.
interface {FastEthernet <LINE>  mlt <1-6>   vlan 1-4094>}	Flush MAC Addresses of a specific interface.
mlt <1-6>	Trunk to be flushed out.



# Command: clear stack port-statistics

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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 &lt;1-8&gt;</code>	Specifies the unit in the stack.

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# Command: clear-stats

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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 &lt;port-list&gt;</code>	Selects a port to clear the port counter

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# Command: clear system last-exception

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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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# Command: cli

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## cli

Modify session settings

### Syntax

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





# Command: clock summer-time

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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>] }`
- `default clock summer-time recurring`
- `no 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.





# Command: clock time-zone

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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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# Command: configure network address

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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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# Command: configure network filename

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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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# Command: configure network load-on-boot

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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



# Command: configure terminal

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## configure terminal

Configure from the terminal

### Syntax

- `configure terminal`

### Default

None

### Command mode

Privileged EXEC mode

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# Command: copy config

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## copy config

Copy to local NV storage

### Syntax

- `copy config [nvram|tftp address <ipv4 or ipv6> filename <filename>]`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

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

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# Command: copy running-config tftp

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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] [poel] [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 AAUR configuration
adac	Copy ADAC configuration
address	Specify address of the TFTP server
arp-inspection	Copy ARP Inspection configuration
asset-id	Copy Asset ID configuration
aur	Copy AUR configuration
banner	Copy Custom Banner configuration
brouter	Copy Brouter configuration
cfm	Copy CFM configuration
core	Copy Core configuration
dhcp-relay	Copy DHCP Relay configuration
dhcp-snooping	Copy DHCP Snooping configuration
eap	Copy EAP configuration
energy-saver	Copy Energy Saver configuration
filename	Specify filename in which to store configuration on TFTP server

igmp	Copy IGMP configuration
interface	Copy Interface configuration
ip	Copy IP configuration
ipfix	Copy IPFIX configuration
ipmgr	Copy IP Manager configuration
ip-source-guard	Copy IP Source Guard configuration
ipv6	Copy IPV6 configuration
l3	Copy L3 configuration
l3-protocols	Copy L3 Protocols configuration
lacp	Copy LACP configuration
link-state	Copy Link State Tracking configuration
logging	Copy System Logging configuration
mac-security	Copy MAC Security configuration
mlt	Copy MLT configuration
module	Copy configuration of an application
poe	Copy PoE configuration
port-mirroring	Copy Port Mirroring configuration
qos	Copy QoS configuration
rate-limit	Copy Rate Limiting configuration
rmon	Copy RMON configuration
rtc	Copy RTC configuration
slamon	Copy SLAMon configuration
slpp	Copy SLPP configuration
snmp	Copy SNMP configuration
spbm	Copy SPBM configuration
stack	Copy Stack configuration
stkmon	Copy Stack Monitor configuration
stp	Copy STP configuration
verbose	Copy entire configuration (defaults and non-defaults)
vlacp	Copy VLACP configuration
vlan	Copy VLAN configuration
WORD	TFTP server IPv6 address



# Command: copy sftp

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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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# Command: copy tftp

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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 &lt;ipv4 or ipv6&gt; filename &lt;filename&gt;</code>	Specify address of the TFTP server to copy to local configuration

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# Command: default http-port

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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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# Command: default slamon oper-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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# Command: disable

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## disable

Turn off privileged commands

### Syntax

- disable

### Default

None

### Command mode

Privileged EXEC mode

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# Command: download address

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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 downloaded if it is newer version of the software image





# Command: download diag

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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>&lt;filename&gt;</code>	Specifies the diagnostics image file name to be downloaded
<code>&lt;filename&gt; no-reset</code>	Does not reset the switch after downloading the specified image file

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# Command: download image

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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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# Command: download no-reset

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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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# Command: duplex

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## duplex

Configure duplex mode of a port

### Syntax

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

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

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

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# Command: eapol

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## eapol

Enable/Disable EAPOL protocol

### Syntax

- default eapol
- eapol disable | enable
- no 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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# Command: eapol (FastEthernet configuration mode)

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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	Sets the level of traffic control (in-out — if EAP authentication fails, both

{in-out | in}

ingressing and egressing traffic are blocked; in — if EAP authentication fails, only ingressing traffic is blocked).

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# Command: eapol guest-vlan

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## eapol guest-vlan

Set guest-vlan

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>enable</code>	Enable guest-vlan
<code>vid &lt;1-4094&gt;</code>	guest-vlan ID

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# Command: eapol guest-vlan (FastEthernet configuration mode)

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## eapol guest-vlan (FastEthernet configuration mode)

Sets guest-vlan.

### Syntax

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

### 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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# Command: eapol multihost

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## eapol multihost

Set EAPOL multihost settings of port

### Syntax

- `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]`
- `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

None

### Command mode

Global configuration mode

### Command parameters

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

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## eapol multihost dummy-adac-radius-requests

Set dummy radius request status

### Syntax

- `default eapol multihost dummy-adac-radius-requests enable`
- `eapol multihost dummy-adac-radius-requests enable`
- `no 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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# Command: eapol multihost fail-open-vlan

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## eapol multihost fail-open-vlan

Set fail-open-vlan

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>continuity-mode</code>	Enable fail-open-vlan continuity-mode
<code>enable</code>	Enable fail-open-vlan
<code>vid &lt;1-4094&gt;</code>	fail-open-vlan ID

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# Command: eapol multihost (FastEthernet configuration mode)

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## eapol multihost (FastEthernet configuration mode)

Sets EAPOL multihost settings.

### Syntax

- `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]`
- `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

None

### Command mode

FastEthernet configuration mode

### Command parameters

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



# Command: eapol multihost multivlan

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## eapol multihost multivlan

Set EAPOL multihost multiVlan

### Syntax

- `default eapol multihost multivlan enable`
- `eapol multihost multivlan enable`
- `no 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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# Command: eapol multihost non-eap-mac

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## eapol multihost non-eap-mac

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

### Syntax

- `default eapol multihost non-eap-mac [port <portlist>] <H.H.H>`
- `eapol multihost non-eap-mac [port <portlist>] <H.H.H>`
- `no 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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# Command: eapol multihost non-eap-pwd-fmt

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## eapol multihost non-eap-pwd-fmt

Set bits in RADIUS non-EAPOL password format

### Syntax

- `default eapol multihost non-eap-pwd-fmt { [padding ] [ip-addr] [mac-addr] [port-number] key] | key-string }`
- `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

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



# Command: eapol multihost non-eap-user-based-policies

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## eapol multihost non-eap-user-based-policies

Enable non-EAPOL user-based policies

### Syntax

- `default eapol multihost non-eap-user-based-policies [enable] filter-on-mac enable`
- `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

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>enable</code>	Enable non-EAPOL user-based policies
<code>filter-on-mac enable</code>	Enable UBP filtering based on non-EAPOL MAC address

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# Command: eapol multihost voip-vlan

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## eapol multihost voip-vlan

Set voip-vlan

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>&lt;1-5&gt;</code>	Number of voip vlan
<code>enable</code>	Enable voip-vlan
<code>vid &lt;1-4094&gt;</code>	voip-vlan ID

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# Command: edm help-file-path

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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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# Command: enable

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## enable

Turn on privileged commands

### Syntax

- enable

### Default

None

### Command mode

Global configuration mode



# Command: end

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## end

Exit from configure mode

### Syntax

- end

### Default

None

### Command mode

Global configuration mode

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# Command: end (Loopback Interface configuration mode)

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## end (Loopback Interface configuration mode)

Exit from interface configure mode

### Syntax

- end

### Default

None

### Command mode

Loopback Interface configuration mode

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# Command: end (VLAN Interface 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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# Command: energy-saver (FastEthernet 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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# Command: energy-saver (Global configuration mode)

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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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# Command: energy-saver (Privileged EXEC 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
<code>activate</code>	Manually activate energy saver
<code>deactivate</code>	Manually deactivate energy saver

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# Command: energy-saver schedule

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## energy-saver schedule

Configure energy saver activation/deactivation schedule

### Syntax

- `default energy-saver schedule { { sunday | monday | tuesday | wednesday | thursday | friday | saturday | weekday | weekend } <hh:mm>`
- `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

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 Set</code>	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



# Command: exit

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## exit

Exit from configure mode

### Syntax

- exit

### Default

None

### Command mode

User Exec mode

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# Command: exit (Loopback Interface configuration mode)

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## exit (Loopback Interface configuration mode)

Exit from loopback interface configuration mode

### Syntax

- exit

### Default

None

### Command mode

Loopback Interface configuration mode

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# Command: exit (VLAN Interface configuration 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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# Command: flowcontrol

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## flowcontrol

Configure flow control mode of a port

### Syntax

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

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## help

Description of the interactive help system

### Syntax

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

### Default

None

### Command mode

User Exec mode

### Command parameters

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



# Command: http-port

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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>&lt;1024-65535&gt;</code>	Specifies the http port number

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# Command: igmp last-member-query-interval

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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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# Command: igmp query-interval

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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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# Command: igmp query-max-response

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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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# Command: igmp send-query

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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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# Command: install

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## install

Quick Install & Setup Script

### Syntax

- install

### Default

None

### Command mode

Privileged EXEC mode

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# Command: interface FastEthernet

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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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# Command: interface loopback

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## interface loopback

Loopback interface

### Syntax

- interface loopback <1-16>

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<1-16>	Interface ID value

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# Command: interface vlan

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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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# Command: ip address

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## ip address

Set switch/stack IP address

### Syntax

- default ip address <source>
- 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

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





# Command: ip address (VLAN Interface configuration mode)

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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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# Command: ip arp-inspection

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## ip arp-inspection

Enable ARP inspection

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

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

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# Command: ip arp-inspection (FastEthernet configuration mode)

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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

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

### Default

untrusted

### Command mode

FastEthernet configuration mode

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# Command: ip blocking 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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# Command: ip bootp

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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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# Command: ip default-gateway

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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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# Command: ip dhcp client lease

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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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# Command: ip dhcp-relay

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## ip dhcp-relay

Enable DHCP relay

### Syntax

- `default ip dhcp-relay {max-frame | option82}`
- `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

None

### Command mode

Global configuration mode

### Command parameters

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

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# Command: ip dhcp-relay (FastEthernet configuration mode)

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## ip dhcp-relay (FastEthernet configuration mode)

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

### Syntax

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

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

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

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# Command: ip dhcp-relay (VLAN Interface configuration mode)

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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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# Command: ip dhcp-server enable

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## ip dhcp-server enable

Enable the DHCP server

### Syntax

- `default ip dhcp-server enable lease option-3 option-6`
- `ip dhcp-server enable lease [days <0-49710>] [hours <0-23>] [minutes <0-59>] [infinite] [option-3 {A.B.C.D}] [option-6 {A.B.C.D}]`
- `no ip dhcp-server enable lease [option-3 {A.B.C.D}] [option-6 {A.B.C.D}]`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>days &lt;0-49710&gt;</code>	Number of days the lease is active
<code>hours &lt;0-23&gt;</code>	Number of hours the lease time is active
<code>infinite</code>	Infinite lease time
<code>lease</code>	Configure global lease time
<code>minutes &lt;0-59&gt;</code>	Number of minutes the lease time is active
<code>option-3 &lt;A.B.C.D&gt;</code>	Configure global list of routers
<code>option-6 &lt;A.B.C.D&gt;</code>	Configure global list of DNS servers

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# Command: ip dhcp-server lease

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## ip dhcp-server lease

Configure global lease time

### Syntax

- default ip dhcp-server lease option-3 option-6
- ip dhcp-server lease [days <0-49710>] [hours <0-23>] [minutes <0-59>] [infinite] [option-3 {A.B.C.D}] [option-6 {A.B.C.D}]
- no ip dhcp-server lease [option-3 {A.B.C.D}] [option-6 {A.B.C.D}]

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
days <0-49710>	Number of days the lease is active
hours <0-23>	Number of hours the lease time is active
infinite	Infinite lease time
minutes <0-59>	Number of minutes the lease time is active
option-3 <A.B.C.D>	Configure global list of routers
option-6 <A.B.C.D>	Configure global list of DNS servers

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# Command: ip dhcp-server option-3

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## ip dhcp-server option-3

Configure global list of routers

### Syntax

- `default ip dhcp-server option-3 option-6`
- `ip dhcp-server option-3 {A.B.C.D} [option-6 {A.B.C.D}]`
- `no ip dhcp-server option-3 {A.B.C.D} [option-6 {A.B.C.D}]`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<A.B.C.D>	IP address
option-6 <A.B.C.D>	Configure global list of DNS servers

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# Command: ip dhcp-server option-6

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## ip dhcp-server option-6

Configure global list of DNS servers

### Syntax

- `default ip dhcp-server option-6`
- `ip dhcp-server option-6 {A.B.C.D}`
- `no ip dhcp-server option-6 {A.B.C.D}`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<A.B.C.D>	IP address

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# Command: ip dhcp-server pool

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## ip dhcp-server pool

Create/modify a DHCP server pool

### Syntax

- default ip dhcp-server pool <poolName> lease option-1 {option-120 | option-150 | option-176 | option-241 | option-242 | option-3 | option-43 | option-6}
- ip dhcp-server pool <poolName> [host <A.B.C.D><xx:xx:xx:xx:xx:xx> | range <A.B.C.D> <A.B.C.D>] | [option-60<WORD>] | [[lease { {days <1-49710>] [hours <0-23>] [minutes <0-59>}} | infinite }}] | [option-1 {<0-32> | <A.B.C.D> }}] | [option-43 <WORD>] | [option-3 <ipv4AddrList>] | [option-6 <ipv4AddrList>] | [option-120 <ipv4AddrList>|<DNSName>] | [option-150 <ipv4AddrList>] | [option-176 {mcipadd <ipv4AddrList>] [mcpport <1-65535>] [tftp-servers <ipv4AddrList>][[l2qvlan <0-4096>] [vlantest <0-180>] | [l2qaud <0-7>] [l2qsig <0-7>]]}] | [option-241 <parametersList>] | [option-242 {mcipadd <ipv4AddrList>] | [httpsrvr <ipv4AddrList>] | [httpport <1-65535>]}
- no ip dhcp-server pool <poolName> lease option-1 {option-120 | option-150 | option-176 | option-241 | option-242 | option-3 | option-43 | option-6}

### Default

None

### Command mode

### Command parameters

Parameter	Description
host	Static IP allocation
httpport	HTTP Port
httpsrvr	List of HTTP Servers
l2qaud	L2 audio priority
l2qsig	L2 signaling priority
l2qvlan	802.1q vlan id
lease	Pool's lease time
mcipadd	List of gatekeeper IP addresses
mcipadd	List of gatekeeper IP addresses
mcpport	UDP port for RAS registration
option-1	Configure client's subnetmask
option-120	Configure list of SIP servers
option-150	Configure list of TFTP servers

option-176	Configure Avaya IP phones' option-176 parameters
option-241	Configure Avaya IP phones' option-241 parameters
option-242	Configure Avaya IP phones' option-242 parameters
option-3	Configure list of routers
option-6	Configure DNS servers
option-60	Vendor class identifier option
range	Dynamic IP address allocation
tftp-servers	List of TFTP servers
vlan-test	Number of seconds before returning to previous voice vlan



# Command: ip dhcp-snooping

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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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# Command: ip dhcp-snooping vlan

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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>&lt;1-4094&gt;</code>	Configure DHCP snooping VLANs
<code>&lt;1-4094&gt; option82</code>	Enable option 82 for DHCP snooping

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# Command: ip directed-broadcast

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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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# Command: ip domain-name

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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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# Command: ip forward-protocol

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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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# Command: ip forward-protocol udp (VLAN Interface configuration mode)

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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.



# Command: ip igmp

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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
<code>flush</code>	Flush IGMP Mrouter, group member, or sender
<code>grp-member</code>	Flush IGMP group member
<code>mrouter</code>	Flush IGMP Mrouter
<code>vlan &lt;1-4094&gt;</code>	Flush on vlan interfaces

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# Command: ip igmp flush vlan

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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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# Command: ip igmp mrouter

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## ip igmp mrouter

Adds one or more static mrouter ports to a VLAN.

### Syntax

- default ip igmp mrouter
- ip igmp mrouter <port\_list>
- 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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# Command: ip igmp proxy

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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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# Command: ip igmp robust-value

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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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# Command: ip igmp router-alert

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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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# Command: ip igmp snooping

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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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# Command: ip igmp version

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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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# Command: ip igmp (VLAN Interface configuration mode)

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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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# Command: ip mgmt

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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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# Command: ipmgr

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## ipmgr

Modify IP Manager settings

### Syntax

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



# Command: ip name-server

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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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# Command: ip route

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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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# Command: ip routing

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## ip routing

Enable global routing

### Syntax

- ip routing force

### Default

None

### Command mode

Global configuration mode

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# Command: ip routing (VLAN Interface 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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# Command: ipv6

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## ipv6

Set global IPv6 configuration subcommands

### Syntax

- `default ipv6 [enable] [icmp] {[block-multicast-replies] [icmp] [error-interval] [icmp] [error-quota] [icmp] [unreach-msg]}`
- `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

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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# Command: ipv6 address

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## ipv6 address

Set default IPv6 address

### Syntax

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

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## ipv6 default-gateway

Configure IPv6 default gateway

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<WORD>	IPv6 address

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# Command: ipv6 interface

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## ipv6 interface

Create/configure loopback IPv6 interface

### Syntax

- `default ipv6 interface enable`
- `ipv6 interface [address <WORD>] enable`
- `no ipv6 interface [address <WORD>] enable`

### Default

None

### Command mode

Loopback Interface configuration mode

### Command parameters

Parameter	Description
<code>address &lt;WORD&gt;</code>	Address/Prefix_length
<code>enable</code>	Enable loopback interface admin status

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# Command: ipv6 neighbor

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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>&lt;WORD&gt;</code>	IPv6 address, 45 length
<code>mac</code> <code>&lt;H.H.H&gt;</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>&lt;WORD&gt;</code>	unit/ port



# Command: i-sid

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## i-sid

Configures the User-Network-Interface (UNI).

### Syntax

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1-16777214>	Specifies the I-SID.
<LINE>	Specifies the port list.
port	Configures the switched UNI by assigning port and VLAN to I-SID.
vlan <1-4094>	Configures the C-VLAN UNI by assigning VLAN to I-SID.

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# Command: lacp aggregation

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## lacp aggregation

Enables the port aggregation mode.

### Syntax

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

### 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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# Command: lacp clear-stats

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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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# Command: lacp key

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## lacp key

Configure LACP key to MLT mappings

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>&lt;1-4095&gt;</code>	LACP key value
<code>mlt-id &lt;1-32&gt;</code>	Configure MLT ID for this LACP key

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# Command: lacp key (FastEthernet configuration mode)

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## lacp key (FastEthernet configuration mode)

Configure the administrative LACP key for a set of ports.

### Syntax

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

### 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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# Command: lacp mode

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## lacp mode

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

### Syntax

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

### 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 LACPDU's 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 LACPDU's only when the configuration is changed or when its link partner communicates first.



# Command: lacp priority

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## lacp priority

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

### Syntax

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

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

Parameter	Description
<code>&lt;0-65535&gt;</code>	The priority value to assign.
<code>port &lt;portList&gt;</code>	The ports for which to configure LACP priority.

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# Command: lacp system-priority

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## lacp system-priority

Set LACP system priority

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<0 - 65535>	Priority

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# Command: lacp timeout-time

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## lacp timeout-time

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

### Syntax

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

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

Parameter	Description
<code>{long   short}</code>	Specify the long or short timeout interval.
<code>port &lt;portList&gt;</code>	The ports for which to configure the timeout interval.

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# Command: lldp

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## Ildp

Configure 802.1ab settings

### Syntax

- 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>] [file-server] {[<1-4>] [<1-4>] [<1-4>] [<1-4>]}}
- 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] [file-server] {[<1-4> A.B.C.D] [<1-4> A.B.C.D] [<1-4> A.B.C.D] [<1-4> A.B.C.D]}}

### Default

None

### Command mode

Global configuration mode

### Command parameters

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



# Command: lldp (FastEthernet configuration mode)

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## lldp (FastEthernet configuration mode)

Sets the LLDP port parameters

### Syntax

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

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

Parameter	Description
<code>config notification</code>	Enable notification when new neighbor information is stored or when existing information is removed. The default value is enabled.
<code>port &lt;portlist&gt;</code>	Specify the ports affected by the command.
<code>status {rxOnly   txAndRx   txOnly}</code>	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



# Command: lldp location-identification (FastEthernet configuration mode)

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

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



# Command: lldp med-network-policies

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## lldp med-network-policies

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

### Syntax

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

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

Parameter	Description
<code>dscp &lt;0-63&gt;</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 &lt;portlist&gt;</code>	Specifies the port or ports on which to configure LLDP MED policies.
<code>priority &lt;0-7&gt;</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   untaged}</code>	Specifies the type of VLAN tagging to apply on the selected switch port or ports. tagged—uses a tagged VLAN. untaged—uses an untagged VLAN or does not support port-based VLANs. If you select untaged, the system ignores the VLAN ID and priority values, and recognizes only the DSCP value.
<code>vlan-id &lt;0-4094&gt;</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





# Command: lldp tx-tlv

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## lldp tx-tlv

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

### Syntax

- `default lldp tx-tlv port <portlist> local-mgmt-addr port-desc sys-cap sys-desc sys-name`
- `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]}`
- `no lldp tx-tlv port <portlist> local-mgmt-addr port-desc sys-cap sys desc sys-name`

### 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 &lt;portlist&gt;</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.



# Command: lldp tx-tlv dot3

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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

- `default lldp tx-tlv port <portlist> dot3 link-aggregation mac-phy config-status maximum-frame-size mdi-power-support`
- `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





# Command: lldp tx-tlv med

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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

- `default lldp tx-tlv port <portlist> med extendedPSE inventory location med-capabilities network-policy`
- `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 &lt;portlist&gt;</code>	specifies the ports affected by the command



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

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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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# Command: lldp vendor-specific avaya (FastEthernet configuration mode)

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## lldp vendor-specific avaya (FastEthernet configuration mode)

Configure 802.1ab vendor-specific settings

### Syntax

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

### 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.



# Command: logging

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## logging

Change system event log settings

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

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

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



# Command: logout

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## logout

Exit from the EXEC and end the current session

### Syntax

- logout

### Default

None

### Command mode

User Exec mode

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# Command: mac-address-table

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## mac-address-table

Configure MAC address table settings

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>aging-time &lt;10 - 1000000&gt;</code>	Configure MAC address table aging time

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# Command: mac-security

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## mac-security

Configure MAC Address security options

### Syntax

- `default mac-security [auto-learning] {[aging-time] | [sticky]} [mac-da-filter <H.H.H>]`
- `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

None

### Command mode

Global configuration mode

### Command parameters

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



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



# Command: mac-security (FastEthernet configuration mode)

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## mac-security (FastEthernet configuration mode)

Enables /disables MAC-based security for individual port.

### Syntax

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

### 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 s</code>	Number of auto-learned entries.



# Command: mlt

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## mlt

Modify Multi-Link Trunking (MLT) configuration

### Syntax

- `default mlt {<1-6> bpdu | shutdown-ports-on-disable enable}`
- `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

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<1-6>	MLT ID
bpdu {all-ports   single-port}	Set BPDU send/receive mode
disable	Disable MLT
enable	Enable MLT
learning {disable   fast   normal}	Set STP learning mode to disable, fast or normal for a trunk
loadbalance {advance basic}	MLT Load Balance Selection (Advance/Basic)
member <LINE>	Set port membership of MLT
name <mlt-name>	MLT Name
shutdown-ports-on-disable	Set protection for disabled trunk
spanning-tree	Set MLT spanning-tree settings
stp {<1-8>   all   learning}	Spanning tree group and learning mode



# Command: password

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## password

Configure password security restrictions

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

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

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# Command: ping

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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



# Command: poe

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## poe

Set global configuration of Power Over Ethernet

### Syntax

- `poe [poe-pd-detect-type] {[unit <1-8>] [802dot3at] [802dot3at_and_legacy]} | [poe-power-usage-threshold] {[unit <1-8>] [<1-99>]}`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>802dot3at</code>	Set PD detection mode in 802.3at
<code>802dot3at_and_legacy</code>	Set PD detection mode in 802.3at and legacy
<code>poe-pd-detect-type</code>	Set PD detection type
<code>poe-power-usage-threshold &lt;1-99&gt;</code>	Set power usage threshold in percentage
<code>poe-power-usage-threshold unit &lt;1-8&gt;</code>	Set power usage threshold of an unit in stack
<code>unit &lt;1-8&gt;</code>	Set PD detection mode of an unit in stack



# Command: poe poe-limit (for PoE+ units)

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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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# Command: poe poe-limit (for PoE units)

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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
<code>&lt;3 - 16&gt;</code>	Power limit in watt.
<code>port &lt;portlist&gt;</code>	Select port for operation.

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# Command: poe poe-priority

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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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# Command: poe poe-shutdown

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## poe poe-shutdown

Disables PoE to a port.

### Syntax

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

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

Parameter	Description
port <portlist>	List of ports.

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# Command: port-mirroring

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## port-mirroring

Change port mirroring configuration

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
disable	Disable port mirroring
ManytoOneRx	Many to one port mirroring ingress traffic
ManytoOneRxTx	Many to one port mirroring ingress & egress traffic
ManytoOneTx	Many to one port mirroring egress traffic
Xrx	Mirror packets received on port X
XrxOrXtx	Mirror packets received or transmitted on port X
XrxOrYtx	Mirror packets received on port X or transmitted on port Y
Xtx	Mirror packets transmitted on port X



# Command: qos acl-assign

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## qos acl-assign

Create access-list assignment

### Syntax

- no qos acl-assign {<1 - 55000> enable| [<port> <LINE> acl-type [ip | 12] <name> <WORD>}
- qos acl-assign {<1-55000> enable | <port> <LINE> acl-type [ip | 12] <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   12]	Specify the access-list type (ip,12)
port	Specify the port(s) to apply access-list on

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# Command: qos action

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## qos action

Create base actions entry

### Syntax

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

### 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-1p {<0-7>   use-tos-prec   use-egress}	Specify the update user priority
update-dscp <0-63>	Specify the update DSCP



# Command: qos agent aq-mode

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## qos agent aq-mode

Modify the Auto QOS application traffic processing mode

### Syntax

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

### 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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# Command: qos agent nvram-delay

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## qos agent nvram-delay

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

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

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

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# Command: qos agent reset-default

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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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# Command: qos agent statistics-tracking

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## qos agent statistics-tracking

Modify the QoS default statistics tracking

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

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

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# Command: qos classifier

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## qos classifier

Create classifier set entry

### Syntax

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

### 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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# Command: qos classifier-block

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## qos classifier-block

Create classifier block entry

### Syntax

- no qos classifier-block <1-55000>
- 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]

### Default

None

### Command mode

Global configuration mode

### Command parameters

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



# Command: qos clear-stats

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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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# Command: qos egressmap

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## qos egressmap

Configure the DSCP to 802.1p priority and drop precedence associations

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

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

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# Command: qos if-action-extension

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## qos if-action-extension

Create interface actions extension entry

### Syntax

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

### 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



# Command: qos if-assign

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## qos if-assign

Add interfaces to interface groups

### Syntax

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

### Default

None

### Command mode

Global configuration mode

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# Command: qos if-assign (FastEthernet 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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# Command: qos if-group

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## qos if-group

Create interface group

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

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



# Command: qos if-queue-shaper

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## qos if-queue-shaper

Creates an egress queue shaper for one or more interfaces.

### Syntax

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

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

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



# Command: qos if-shaper

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

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# Command: qos ingressmap

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## qos ingressmap

Configure the 802.1p to DSCP associations

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

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

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# Command: qos ip-acl

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## qos ip-acl

Create IP access-list element

### Syntax

- no qos ip-acl {<1-55000> | all}
- 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-1p <0 - 7>] [set-drop-prec {high drop | low drop}] [block <WORD>]}

### 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-1p <0 - 7>

Specify the update user priority

update-dscp <0 - 63>

Specify the update DSCP

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# Command: qos ip-element

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## qos ip-element

Create IP classifier element entry

### Syntax

- no qos ip-element <1-55000>
- 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>]

### 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







# Command: qos l2-acl

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## qos l2-acl

Create L2 access-list element

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

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





# Command: qos l2-element

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## qos l2-element

Create L2 classifier element entry

### Syntax

- no qos l2-element <1-55000>
- 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>]

### Default

None

### Command mode

Global configuration mode

### Command parameters

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

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# Command: qos meter

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## qos meter

Create meter entry

### Syntax

- `no qos meter <1-55000>`
- `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>]`

### Default

None

### Command mode

Global configuration mode

### Command parameters

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





# Command: qos policy

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## qos policy

Create policy entry

### Syntax

- no qos policy <1-55000> [enable]
- 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>]

### 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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# Command: qos queue-set-assignment

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## qos queue-set-assignment

Configure the 802.1p priority to queue

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>lp &lt;0-7&gt;</code>	Specify the 802.1p priority value
<code>queue &lt;1-8&gt;</code>	Specifies the QoS queue set. Values range from 1 to 8.
<code>queue-set &lt;1-32&gt;</code>	Specify the queue set ID

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# Command: qos system-element

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## qos system-element

Create system classifier element entry

### Syntax

- no qos system-element <1-55000>
- 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>]

### 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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# Command: radius accounting

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## radius accounting

Configure RADIUS accounting settings

### Syntax

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

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## radius dynamic-server

RADIUS Dynamic Authorization Client settings

### Syntax

- `default radius dynamic-server {[client] {A.B.C.D} [secret] [enable] [port] [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]`
- `radius dynamic-server {[client] {A.B.C.D} [secret] [port <1024-65535>] [enable] [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



# Command: radius reachability

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## radius reachability

Configure RADIUS server reachability settings

### Syntax

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

### 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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# Command: radius-server

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## radius-server

Configure RADIUS server password fallback

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

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



# Command: radius use-management-ip

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## radius use-management-ip

Enable Radius use-management-ip flag

### Syntax

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

### Default

None

### Command mode

Global configuration mode

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# Command: rate-limit

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## rate-limit

Configures rate-limiting on the port.

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>both &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 &lt;pct&gt;</code>	Apply rate-limiting to broadcast packets. Enter an integer from 1–10 to set the rate-limiting percentage.
<code>multicast &lt;pct&gt;</code>	Apply rate-limiting to multicast packets. Enter an integer from 1–10 to set the rate-limiting percentage.
<code>port &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.



# Command: rear-ports mode

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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
<code>stacking</code>	Set the rear ports mode to stacking
<code>standalone</code>	Set the rear ports to standalone

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# Command: reload

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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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# Command: renew

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: renumber

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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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# Command: restore

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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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# Command: rmon alarm

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## rmon alarm

Create RMON Alarm entries

### Syntax

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

### 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)



# Command: rmon event

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## rmon event

Create RMON Event entries

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

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

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# Command: rmon history

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## rmon history

Create RMON History entries

### Syntax

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

### 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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# Command: rmon stats

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## rmon stats

Create RMON Stats entries

### Syntax

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

### 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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# Command: run ipoffice

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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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# Command: save

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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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# Command: show adac

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## show adac

Display ADAC configuration

### Syntax

- show adac

### Default

None

### Command mode

Privileged EXEC mode

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# Command: show adac detection

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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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# Command: show adac interface

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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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# Command: show adac mac-range-table

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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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# Command: show application slamon agent

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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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# Command: show arp (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



# Command: show arp-table

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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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# Command: show arp (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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# Command: show auto-negotiation-advertisements

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## show auto-negotiation-advertisements

Display current auto-negotiation advertisement settings

### Syntax

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

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

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

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# Command: show auto-negotiation-capabilities

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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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# Command: show auto-pvid

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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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# Command: show autosave

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## show autosave

Display current autosave setting

### Syntax

- show autosave

### Default

None

### Command mode

Privileged EXEC mode

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# Command: show autotopology

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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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# Command: show banner

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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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# Command: show boot

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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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# Command: show cli

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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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# Command: show clock

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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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# Command: show config-network

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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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# Command: show cpu-utilization

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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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# Command: show eapol

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







# Command: show edm help-file-path

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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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# Command: show energy-saver

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## show energy-saver

Displays the AES configuration on the switch.

### Syntax

- show energy-saver

### Default

None

### Command mode

User Exec mode

### Command parameters

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

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# Command: show energy-saver savings

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show energy-saver schedule

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show environmental

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show environmental

Displays environmental information of the switch

### Syntax

- show environmental

### Default

None

### Command mode

Privileged EXEC mode

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# Command: show fa (Privileged Executive)

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## show fa (Privileged Executive)

Displays Fabric Attach specific settings.

### Syntax

- show fa {agent | assignment<1-16777214> | elements [client-type] | i-sid <1-16777214> | interface {disabled-auth | disabled-port | enabled-auth | enabled-port | LINE} | port-enable <LINE> | uplink | vlan <LINE> | zero-touch-options [client-data]}

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
assignment <1-16777214>	Display Fabric Attach configured UNIs
elements	Displays discovered Fabric Attach elements.
i-sid <1-16777214>	Displays the Fabric Attach configured user-to-network interface (UNIs).
interface	Display Fabric Attach port settings
disabled-auth	Display only disabled authorized ports
disabled-port	Display only disabled ports
enabled-auth	Display only enabled authorized ports
enabled-port	Display only enabled ports
<LINE>	List of ports
uplink	Display Fabric Attach uplink data
port-enable <LINE>	Displays the Fabric Attach port settings.
agent	Displays the Fabric Attach agent status.
vlan	Displays Fabric Attach VLANs.
zero-touch-options	Displays Fabric Attach Zero Touch option settings.
client-data	Displays FA Client type information.



# Command: show fa (User Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show fa (User Executive)

Displays Fabric Attach specific settings.

### Syntax

- show fa {agent | assignment<1-16777214> | elements [client-type] | i-sid <1-16777214> | interface {disabled-auth | disabled-port | enabled-auth | enabled-port | LINE} | port-enable <LINE> | uplink | vlan <LINE> | zero-touch-options [client-data] | statistics}

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
assignment <1-16777214>	Display Fabric Attach configured UNIs
elements	Displays discovered Fabric Attach elements.
i-sid <1-16777214>	Displays the Fabric Attach configured user-to-network interface (UNIs).
interface	Display Fabric Attach port settings
disabled-auth	Display only disabled authorized ports
disabled-port	Display only disabled ports
enabled-auth	Display only enabled authorized ports
enabled-port	Display only enabled ports
<LINE>	List of ports
uplink	Display Fabric Attach uplink data
client-data	Displays FA Client type information.
port-enable <LINE>	Displays the Fabric Attach port settings.
agent	Displays the Fabric Attach agent status.
vlan	Displays Fabric Attach VLANs.
zero-touch-options	Displays Fabric Attach Zero Touch option settings.
statistics	Displays the FA summary and per-port statistics counters.







# Command: show flash (Privileged Executive)

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## show flash (Privileged Executive)

Displays FLASH information.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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

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# Command: show flash (User Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show flash (User Executive)

Displays FLASH information.

### Syntax

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

### Default

None

### Command mode

User Executive

### Command parameters

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

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# Command: show http-port

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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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# Command: show interfaces

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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



# Command: show ip arp-inspection interface

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show ip arp-inspection (Privileged EXEC mode)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show ip arp-inspection (User Exec mode)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show ip arp-proxy

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show ip arp-proxy

Display Proxy ARP status

### Syntax

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

### Default

None

### Command mode

User Exec mode

### Command parameters

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

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# Command: show ip default-ttl

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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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# Command: show ip dhcp

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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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# Command: show ip dhcp-relay

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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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# Command: show ip dhcp-relay counters

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show ip dhcp-relay fwd-path

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show ip dhcp-relay interface

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show ip dhcp-server leases

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show ip dhcp-server leases

Display all the DHCP server leases

### Syntax

- `show ip dhcp-server leases verbose`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
verbose	Display DHCP leases in verbose mode

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# Command: show ip dhcp-server pool

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## show ip dhcp-server pool

Display the state of DHCP server pool

### Syntax

- `show ip dhcp-server pool <word>`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
<WORD>	Display the state of specific DHCP server scopes

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# Command: show ip dhcp-snooping

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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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# Command: show ip dhcp-snooping binding

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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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# Command: show ip dhcp-snooping interface

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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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# Command: show ip dhcp-snooping vlan

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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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# Command: show ip directed-broadcast

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show ip dns

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show ip dns

Display DNS configuration

### Syntax

- `show ip dns`

### Default

None

### Command mode

User Exec mode

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# Command: show ip forward-protocol

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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
<code>interface</code>	Display interface configuration
<code>portfwdlist &lt;1-128&gt;</code>	Shows UDP fwdlists configured
<code>udp</code>	Shows UDP ports configured
<code>vlan &lt;1-4094&gt;</code>	Layer 3 IP VLAN

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# Command: show ip igmp cache

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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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# Command: show ip igmp group

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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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# Command: show ip igmp group-ext

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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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# Command: show ip igmp interface

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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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# Command: show ip igmp router-alert

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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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# Command: show ip igmp snooping

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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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# Command: show ip mgmt

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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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# Command: show ipmgr

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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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# Command: show ip netstat

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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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# Command: show ip (Privileged EXEC mode)

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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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# Command: show ip route

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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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# Command: show ip routing

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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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# Command: show ip source

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show ip (User Exec mode)

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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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# Command: show ipv6 address

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## show ipv6 address

Display configured ipv6 addresses

### Syntax

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

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
stack	Display configured stack ipv6 address/prefix
switch	Display configured IPv6 address/prefix of local unit
unit <1-8>	Display configured IPv6 address/prefix of another unit in a stack

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# Command: show ipv6 address interface

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## show ipv6 address interface

Display addresses for IPv6 interfaces

### Syntax

- `show ipv6 address interface {loopback <-16>| summary | vlan <1-4094> | <WORD>}`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
<WORD>	IPv6 Address, 45 length
loopback <1-16>	Display ipv6 address per loopback interface
summary	Display IPv6 interfaces summary
vlan <1-4094>	Display per vlan addresses for IPv6 interfaces

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# Command: show ipv6 default-gateway

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## show ipv6 default-gateway

Display IPv6 default gateway

### Syntax

- `show ipv6 default-gateway`

### Default

None

### Command mode

Privileged EXEC mode

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# Command: show ipv6 default-routers

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show ipv6 default-routers

Display IPv6 default routers

### Syntax

- `show ipv6 default-routers`

### Default

None

### Command mode

Privileged EXEC mode

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# Command: show ipv6 destinationcache

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## show ipv6 destinationcache

Show IPv6 destination cache content

### Syntax

- show ipv6 destinationcache

### Default

None

### Command mode

Privileged EXEC mode

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# Command: show ipv6 global

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## show ipv6 global

Display IPv6 global configuration

### Syntax

- `show ipv6 global`

### Default

None

### Command mode

Privileged EXEC mode

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# Command: show ipv6 interface

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## show ipv6 interface

Display interface information

### Syntax

- `show ipv6 interface {icmpstatistics | process-redirect | statistics} {loopback <1-16>| vlan <1-4094>}`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
<code>icmpstatistics</code>	Display IPv6 icmp statistics
<code>loopback &lt;1-16&gt;</code>	Display per loopback IPv6 interfaces
<code>process-redirect</code>	Display processing redirect
<code>statistics</code>	Display IPv6 statistics
<code>vlan &lt;1-4094&gt;</code>	Display by VLAN

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# Command: show ipv6 mld-host-cache

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## show ipv6 mld-host-cache

Display MLD host cache

### Syntax

- `show ipv6 mld-host-cache {interface <1-4094> | mgmt}`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
interface <1-4094>	Display by interface
mgmt	Out of Band

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# Command: show ipv6 nd interface

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## show ipv6 nd interface

Display neighbor discovery interface configuration

### Syntax

- `show ipv6 nd interface [ vlan ] <1-4094> | details`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
<code>&lt;1-4094&gt;</code>	VLAN ID
<code>details</code>	Display IPV6 nd details on interface
<code>vlan &lt;1-4094&gt;</code>	Display IPV6 nd on VLAN interfaces only

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# Command: show ipv6 nd-prefix interface

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## show ipv6 nd-prefix interface

Display IPV6 nd-prefix interface configurations

### Syntax

- `show ipv6 nd-prefix interface [ vlan ] <1-4094> | details`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
<code>&lt;1-4094&gt;</code>	VLAN ID
<code>details</code>	Display IPV6 nd-prefix details on interface
<code>vlan &lt;1-4094&gt;</code>	Display addresses on VLAN interfaces only

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# Command: show ipv6 neighbor

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## show ipv6 neighbor

Display IPv6 neighbor information

### Syntax

- `show ipv6 neighbor interface {tunnel <1-2147483647> | vlan <1-4094> | loopback <1-16>} [|] [  
[<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
loopback <1-16>	Display per loopback IPv6 interfaces
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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# Command: show ipv6 tcp

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## show ipv6 tcp

Display IPV6 tcp info

### Syntax

- `show ipv6 tcp {connections | listener}`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
connections	Display IPv6 tcp connections
listener	Display IPv6 tcp listeners

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# Command: show ipv6 udp

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## show ipv6 udp

Display IPv6 udp global

### Syntax

- `show ipv6 udp endpoints`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
endpoints	Display ipv6 udp endpoints

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# Command: show ip verify

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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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# Command: show lacp aggr

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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
<code>&lt;1-65535&gt;</code>	Aggr ID

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# Command: show lacp debug

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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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# Command: show lacp key

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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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# Command: show lacp port

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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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# Command: show lacp stats

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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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# Command: show lacp system

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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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# Command: show lldp local-sys-data

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## show lldp local-sys-data

Display 802.1ab local system data

### Syntax

- `show lldp local-sys-data [dot3] [med] [detail]`

### Default

None

### Command mode

User Exec mode

### Command parameters

Parameter	Description
detail	Display all TLVs
dot3	Display IEEE 802.3 Organizationally specific TLVs
med	Display Media Endpoint Devices (MED) specific TLVs

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# Command: show lldp med-network-policies

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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
<code>port &lt;LINE&gt;</code>	Port list
<code>voice</code>	Display Voice Network Policies
<code>voice-signaling</code>	Display Voice Signaling Network Policies

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# Command: show lldp mgmt-sys-data

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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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# Command: show lldp neighbor

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## show lldp neighbor

Display 802.1ab neighbors

### Syntax

- `show lldp neighbor {detail | {[vlan-names] [protocol-id] [dot3] [med]{[capabilities] [network-policy] [location] [extended-power] [inventory]}} | {vendor-specific avaya [call-server] [fa-element-type] [file-server] [phone-ip] [poe-conservation]}}`

### Default

None

### Command mode

User Exec mode

### Command parameters

Parameter	Description
<code>call-server</code>	Display neighbors call-server information
<code>capabilities</code>	Display neighbors MED capabilities
<code>detail</code>	Display all TLVs
<code>dot3</code>	Display IEEE 802.3 Organizationally specific TLVs
<code>extended-power</code>	Display neighbors MED power information
<code>fa-element-type</code>	Display neighbors Fabric Attach information
<code>file-server</code>	Display neighbors file-server information
<code>inventory</code>	Display neighbors MED inventory information
<code>location</code>	Display neighbors MED location information
<code>med</code>	Display Media Endpoint Devices (MED) specific TLVs
<code>network-policy</code>	Display neighbors MED network-policy information
<code>phone-ip</code>	Display neighbors phone-ip information
<code>poe-conservation</code>	Display neighbors poe-conservation information
<code>vendor-specific</code>	Display the vendor-specific TLVs



# Command: show lldp neighbor-mgmt-addr

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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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# Command: show lldp pdu-tlv-size

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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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# Command: show lldp port

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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] [dot3] [med] [vendor-specific avaya [call-server] [dot1q-framing] [fa-element-type] [file-server] [phone-ip] [poe-conservation]] } | {vendor-specific avaya [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
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



# Command: show lldp rx-stats

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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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# Command: show lldp stats

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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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# Command: show lldp tx-stats

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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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# Command: show lldp tx-tlv

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## show lldp tx-tlv

Display 802.1ab TLVs

### Syntax

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

### Default

None

### Command mode

User Exec mode

### Command parameters

Parameter	Description
<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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# Command: show lldp vendor-specific

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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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# Command: show logging

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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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# Command: show mac-address-table address

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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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# Command: show mac-address-table aging-time

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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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# Command: show mac-address-table mlt

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## show mac-address-table mlt

Display mac-address-table for specified trunk id

### Syntax

- `show mac-address-table mlt <1-6> address`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
<1-6>	Trunk number
address	Display specific address

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# Command: show mac-address-table port

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## show mac-address-table port

Display mac-address-table for specified ports

### Syntax

- `show mac-address-table port <LINE> address <H.H.H>`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
<H.H.H>	Address to be displayed (i.e. H.H.H or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx or xx:xx:xx:xx:xx:xx)
<LINE>	List of port(s)
address <H.H.H>	Display specific address

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# Command: show mac-address-table vid

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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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# Command: show mac-security

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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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# Command: show memory-utilization

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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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# Command: show mlt

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## show mlt

Displays Multi-Link Trunking (MLT) configuration

### Syntax

- `show mlt [<LINE>] [all-members] [disabled] [enabled] [shutdown-ports-on-disable] [spanning-tree <1-6>] [utilization <1-6>]`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
<LINE>	List of Trunk Groups
all-members	Display all members of the selected trunk
disabled	Display disabled MLTs
enabled	Display enabled MLTs
shutdown-ports-on-disable	Display disabled trunk loop prevention status
spanning-tree <1-6>	Display multi-link trunk spanning-tree settings
utilization <1-6>	Display multi-link trunk utilization

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# Command: show password

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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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# Command: show poe-main-status

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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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# Command: show poe-port-status

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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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# Command: show poe-power-measurement

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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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# Command: show port-mirroring

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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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# Command: show port-statistics

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## show port-statistics

Displays the port counter for a port

### Syntax

- `show port-statistics port <LINE>`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
port<LINE>	List of ports

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# Command: show qos acl-assign

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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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# Command: show qos action

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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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# Command: show qos agent

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## show qos agent

Display the global QoS parameters

### Syntax

- show qos agent details

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
details	Display QoS agent details

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# Command: show qos capability

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## show qos capability

Display QoS port capabilities

### Syntax

- `show qos capability {meter | shaper} port <LINE>`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
meter	Display QoS port meter capabilities
port <LINE>	Specify list of ports
shaper	Display QoS port shaper capabilities

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# Command: show qos classifier

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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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# Command: show qos classifier-block

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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
<code>&lt;1-65535&gt;</code>	Display the specified classifier block 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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# Command: show qos diag

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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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# Command: show qos egressmap

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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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# Command: show qos if-action-extension

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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
<code>&lt;1-65535&gt;</code>	Display the specified interface action extension 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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# Command: show qos if-assign

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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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# Command: show qos if-group

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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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# Command: show qos if-shaper

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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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# Command: show qos ingressmap

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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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# Command: show qos ip-acl

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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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# Command: show qos ip-element

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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
<code>&lt;1-65535&gt;</code>	Display the specified IP classifier element 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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# Command: show qos l2-acl

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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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# Command: show qos l2-element

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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
<code>&lt;1-65535&gt;</code>	Display the specified Layer2 classifier element 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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# Command: show qos meter

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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
<code>&lt;1-65535&gt;</code>	Display the specified meter 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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# Command: show qos policy

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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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# Command: show qos port

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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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# Command: show qos queue-set

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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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# Command: show qos queue-set-assignment

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## show qos queue-set-assignment

Display the association between the 802.1p priority to that of a specific queue

### Syntax

- `show qos queue-set-assignment queue-set <1-32>`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
queue-set <1-32>	Display the specified queue-set

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# Command: show qos statistics

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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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# Command: show qos system-element

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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
<code>&lt;1-65535&gt;</code>	Display the specified system classifier element 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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# Command: show radius

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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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# Command: show radius accounting

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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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# Command: show radius dynamic-server

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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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# Command: show radius reachability

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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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# Command: show radius-server

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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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# Command: show radius use-management-ip

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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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# Command: show rate-limit

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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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# Command: show rmon alarm

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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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# Command: show rmon ethernet history

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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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# Command: show rmon ethernet packets

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## show rmon ethernet packets

Display rmon ethernet packets according to their size

### Syntax

- show rmon ethernet packets port <LINE>

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
port <LINE>	Display rmon ethernet packets specific to port

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# Command: show rmon ethernet statistics

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## show rmon ethernet statistics

Display rmon ethernet statistics

### Syntax

- `show rmon ethernet statistics port <LINE>`

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
port <LINE>	Display ethernet statistics for specific ports

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# Command: show rmon event

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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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# Command: show rmon history

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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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# Command: show rmon stats

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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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# Command: show running-config

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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] [aur] [adac] [arp-inspection] [asset-id] [aur] [banner] [core] [dhcp-relay] [dhcp-server] [dhcp-snooping] [eap] [energy-saver] [igmp] [interface] [ip] [ip-source-guard] [ipmgr] [ipv6] [l3] [l3-protocols] [lacp] [logging] [mac-security] [mlt] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp] [snmp] [storm control] [stp] [vlacp] [vlan]]

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
802.1ab	Display 802.1ab configuration
aur	Display AAUR configuration
adac	Display ADAC configuration
arp-inspection	Display ARP Inspection configuration
asset-id	Display Asset ID configuration
aur	Display AUR configuration
banner	Display Custom Banner configuration
core	Display Core configuration
dhcp-relay	Display DHCP Relay configuration
dhcp-server	Display DHCP Server configuration
dhcp-snooping	Display DHCP Snooping configuration
eap	Display EAP configuration
igmp	Display IGMP configuration
interface	Display Interface configuration
ip	Display IP configuration
ipmgr	Display IP Manager configuration
ip-source-guard	Display IP Source Guard configuration
ipv6	Display IPV6 configuration
l3	Display L3 configuration

l3-protocols	Display L3 Protocols configuration
lacp	Display LACP configuration
logging	Display System Logging configuration
mac-security	Display MAC Security configuration
mlt	Display MLT configuration
module	Display configuration of an application
poe	Display PoE configuration
port-mirroring	Display Port Mirroring configuration
qos	Display QoS configuration
rate-limit	Display Rate Limiting configuration
rmon	Display RMON configuration
rtc	Display RTC configuration
slamon	Display SLAMon configuration
snmp	Display SNMP configuration
storm control	Display storm control configuration
stp	Display STP configuration
verbose	Display entire configuration (defaults and non-defaults)
vlacp	Display VLACP configuration
vlan	Display VLAN configuration



# Command: show slpp-guard

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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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# Command: show snmp-server

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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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# Command: show sntp

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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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# Command: show spanning-tree

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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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# Command: show spanning-tree bpdu-filtering

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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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# Command: show spanning-tree rstp

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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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# Command: show spanning-tree rstp port

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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
<code>config &lt;LINE&gt;</code>	Display RSTP related port-level configuration
<code>role &lt;LINE&gt;</code>	Display RSTP related port-level role information
<code>statistics &lt;LINE&gt;</code>	Display RSTP related port-level statistics
<code>status &lt;LINE&gt;</code>	Display RSTP related port-level status

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# Command: show ssh

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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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# Command: show stack

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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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# Command: show stack-info

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## show stack-info

Display stack information

### Syntax

- `show stack-info uptime`

### Default

None

### Command mode

Privileged EXEC mode

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# Command: show stack-monitor

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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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# Command: show storm-control

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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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# Command: show sys-info

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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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# Command: show system

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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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# Command: show tacacs

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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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# Command: show tech

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## show tech

Show telnet active sessions

### Syntax

- show tech

### Default

None

### Command mode

Privileged EXEC mode

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# Command: show telnet

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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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# Command: show telnet-access

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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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# Command: show terminal

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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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# Command: show tftp-server

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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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# Command: show vlacp

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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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# Command: show vlan configcontrol

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## show vlan configcontrol

Display VLAN control mode

### Syntax

- `show vlan configcontrol`

### Default

None

### Command mode

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# Command: show vlan dhcp-relay

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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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# Command: show vlan id

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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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# Command: show vlan igmp

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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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# Command: show vlan interface

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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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# Command: show vlan ip

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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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# Command: show vlan mgmt

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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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# Command: show vlan multicast

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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
<code>&lt;1-4094&gt;</code>	Vlan ID
<code>membership</code>	Display VLAN multicast membership

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# Command: show vlan summary

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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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# Command: show vlan type

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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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# Command: show vlan voice-vlan

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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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# Command: show web-server

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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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# Command: shutdown

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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>force minutes-to-wait &lt;1-60&gt;</code>	Number of minutes to wait before reset
<code>cancel</code>	Cancel a previous scheduled shutdown
<code>force</code>	Do not ask for confirmation
<code>minutes-to-wait &lt;1-60&gt;</code>	Number of minutes to wait before reset

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# Command: shutdown (FastEthernet configuration mode)

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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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# Command: slamon agent

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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
<code>ip address&lt;ip address&gt;</code>	Set the SLAMon agent IP address
<code>port &lt;0-65535&gt;</code>	Set the SLAMon agent UDP port

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# Command: slamon agent-comm-port

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## slamon agent-comm-port

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

### Syntax

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

### 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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# Command: slamon agent ip address

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## slamon agent ip address

Configures the agent IP address.

### Syntax

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

### 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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# Command: slamon agent port

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## slamon agent port

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

### Syntax

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

### 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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# Command: slamon cli

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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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# Command: slamon cli enable

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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

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

### Default

Disabled

### Command mode

Application configuration mode

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# Command: slamon cli-timeout

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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
<code>&lt;60-600&gt;</code>	Configures the CLI timeout value in seconds. The default is 60 seconds.

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# Command: slamon cli-timeout-mode

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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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# Command: slamon cli-timeout-mode enable

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## slamon cli-timeout-mode enable

Enables the agent automatic CLI session timeout.

### Syntax

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

### Default

Disabled

### Command mode

Application configuration mode

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# Command: slamon ntr

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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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# Command: slamon oper-mode

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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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# Command: slamon oper-mode enable

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## slamon oper-mode enable

Enables the SLA Monitor agent.

### Syntax

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

### Default

Disabled

### Command mode

Application configuration mode

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# Command: slamon refuse-server-tests

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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

- `default slamon refuse-server-tests`
- `no slamon refuse-server-tests [enable]`
- `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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# Command: slamon rtp

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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.



# Command: slamon server-bypass

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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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# Command: slamon server ip address

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## slamon server ip address

Configures the agent server IP address.

### Syntax

- default slamon server ip address
- slamon server ip address {A.B.C.D} [{A.B.C.D}]

### 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.





# Command: slamon server port

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## slamon server port

Configures the server TCP registration port.

### Syntax

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

### 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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# Command: slpp-guard

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## slpp-guard

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

### Syntax

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

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

Parameter	Description
enable	Enables SLPP Guard parameters for a port or list of ports.
port <portlist>	Specifies the port or list of ports on which the specified SLPP Guard parameter or parameters are configured.
timeout {0 <10- 65535>}	Specifies the time period, in seconds, for which SLPP Guard disables the port. After the timeout period expires, the switch re-enables the port.



# Command: slpp-guard ethertype

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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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# Command: snmp-server bootstrap

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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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# Command: snmp-server community

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## snmp-server community

Enable SNMP; set community string and access privs

### Syntax

- `default snmp-server community { ro |rw }`
- `no snmp-server community {<WORD> | ro |rw }`
- `snmp-server community <WORD> {read-view <WORD> | write-view <WORD>| notify-view <WORD> | 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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# Command: snmp-server contact

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## snmp-server contact

Text for mib object sysContact

### Syntax

- default snmp-server contact
- no snmp-server contact
- snmp-server contact <LINE>

### 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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# Command: snmp-server disable

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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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# Command: snmp-server enable

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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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# Command: snmp-server host

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## snmp-server host

Specify hosts to receive SNMP notifications

### Syntax

- default snmp-server host
- no snmp-server host [A.B.C.D] [<WORD>] [port <1-65535>] [v1] [v2c] [v3] [ <WORD>]
- 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>]

### 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



# Command: snmp-server location

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## snmp-server location

Modify text for mib object sysLocation

### Syntax

- default snmp-server location
- no snmp-server location
- snmp-server location <LINE>

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<LINE>	The physical location of this node

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# Command: snmp-server name

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## snmp-server name

Modify text for mib object sysName

### Syntax

- default snmp-server name
- no snmp-server name
- snmp-server name <LINE>

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<LINE>	The system name of this node

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# Command: snmp-server notification-control

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## snmp-server notification-control

Enable generation of a notification type

### Syntax

- `default snmp-server notification-control <WORD> <LINE>`
- `no snmp-server notification-control <WORD> <LINE>`
- `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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# Command: snmp-server notify-filter

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## snmp-server notify-filter

Create SNMP notify filter

### Syntax

- `no snmp-server notify-filter <WORD> [<WORD>]`
- `snmp-server notify-filter <Profile-name> <WORD> [<WORD>] [<WORD>] [<WORD>] [<WORD>] [<WORD>] [<WORD>] [<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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# Command: snmp-server user

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## snmp-server user

Create SNMPv3 user

### Syntax

- default snmp-server port
- no snmp-server user [engine-id <WORD>] | [WORD]
- snmp-server user {[engine-id <WORD> <user-name>] [md5 <LINE>] | [WORD] [md5<LINE>] [read-view <WORD>] [write-view <WORD>] [notify-view <WORD>]}

### 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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# Command: snmp-server view

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## snmp-server view

Create/modify an SNMP access view

### Syntax

- `no snmp-server view <view-name>`
- `snmp-server view <view-name> <OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID>]]]]]]]]]]]`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<OID>	OID view specification
<view-name>	View name

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# Command: sntp enable

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## sntp enable

Enable Simple Network Time Protocol (SNTP) parameters

### Syntax

- `default sntp enable`
- `no sntp enable`
- `sntp enable`

### Default

None

### Command mode

Global configuration mode

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# Command: sntp server primary

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## sntp server primary

Configure primary SNTP server

### Syntax

- default sntp server primary
- no sntp server primary
- sntp server primary address {A.B.C.D} | [WORD]

### 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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# Command: sntp server secondary

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## sntp server secondary

Configure secondary SNTP server

### Syntax

- `default sntp server secondary`
- `no sntp server secondary`
- `sntp server secondary address {A.B.C.D} | [WORD]`

### 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



# Command: sntp sync-interval

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## sntp sync-interval

Set SNTP re-synchronization interval

### Syntax

- default sntp sync-interval
- sntp sync-interval <0-168>

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<0-168>	SNTP re-synchronization interval hours

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# Command: sntp sync-now

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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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# Command: spanning-tree 802dot1d-port-compliance

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## spanning-tree 802dot1d-port-compliance

Set 802dot1d port compliance mode

### Syntax

- `spanning-tree 802dot1d-port-compliance enable`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
enable	Enable 802dot1d port compliance mode

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# Command: spanning-tree bpdu-filtering

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## spanning-tree bpdu-filtering

Configure spanning-tree bpdu-filtering

### Syntax

- `default spanning-tree bpdu-filtering ignore-self`
- `no spanning-tree bpdu-filtering ignore-self`
- `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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# Command: spanning-tree bpd-filtering (FastEthernet configuration mode)

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

Configures STP BPDU filtering.

### Syntax

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

### 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 &lt;portlist&gt;</code>	Specifies the ports affected by the command.
<code>timeout &lt;10-65535   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.



# Command: spanning-tree cost-calc-mode

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## spanning-tree cost-calc-mode

Set pathcost type IEEE 802.1d or IEEE 802.1t

### Syntax

- default spanning-tree cost-calc-mode
- spanning-tree cost-calc-mode {dot1d | dot1t}

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
dot1d	IEEE 802.1d pathcost
dot1t	IEEE 802.1t pathcost

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# Command: spanning-tree forward-time <4-30>

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## spanning-tree forward-time <4-30>

Set spanning tree forwarding time

### Syntax

- spanning-tree forward-time <4-30> [ hello-time <1-10> ] [ max-age <6-40>] [priority <0000 | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | a000 | b000 | c000 | d000 | e000 | f000>] [multicast-address <H.H.H>]

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
hello-time <1-10>	Set spanning tree hello time
max-age <6-40>	Set spanning tree maximum age
multicast-address <H.H.H>	Set spanning-tree multicast MAC address
priority <0000   1000   2000   3000   4000   5000   6000   7000   8000   9000   a000   b000   c000   d000   e000   f000>	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.



# Command: spanning-tree hello-time <1-10>

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## spanning-tree hello-time <1-10>

Set spanning tree hello time

### Syntax

- spanning-tree hello-time <1-10> [ max-age <6-40>] [priority <0000 | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | a000 | b000 | c000 | d000 | e000 | f000>] [multicast-address <H.H.H>]

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
max-age <6-40>	Set spanning tree maximum age
multicast-address <H.H.H>	Set spanning-tree multicast MAC address
priority <0000   1000   2000   3000   4000   5000   6000   7000   8000   9000   a000   b000   c000   d000   e000   f000>	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.

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# Command: spanning-tree max-age <6-40>

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## spanning-tree max-age <6-40>

Set spanning tree maximum age

### Syntax

- spanning-tree max-age <6-40> [priority <0000 | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | a000 | b000 | c000 | d000 | e000 | f000>] [multicast-address <H.H.H>]

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
multicast-address <H.H.H>	Set spanning-tree multicast MAC address
priority <0000   1000   2000   3000   4000   5000   6000   7000   8000   9000   a000   b000   c000   d000   e000   f000>	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.



# Command: spanning-tree mode

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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
<code>mst</code>	802.1s Multi Spanning Tree Protocol
<code>rstp</code>	802.1w Rapid Spanning Tree Protocol (single group/instance)
<code>stpg</code>	Avaya Multi Spanning Tree Protocol

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# Command: spanning-tree multicast-address

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## spanning-tree multicast-address

Set spanning-tree multicast MAC address

### Syntax

- `spanning-tree multicast-address <H.H.H>`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>&lt;H.H.H &gt;</code>	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)

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# Command: spanning-tree port-mode

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## spanning-tree port-mode

Set spanning-tree port membership mode

### Syntax

- `spanning-tree port-mode {auto | normal }`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
auto	spanning-tree auto port membership mode
normal	spanning-tree normal port membership mode

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# Command: spanning-tree priority

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## spanning-tree priority

Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.

### Syntax

- spanning-tree priority <0000 | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | a000 | b000 | c000 | d000 | e000 | f000> [multicast-address <H.H.H>]

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<0000   1000   2000   3000   4000   5000   6000   7000   8000   9000   a000   b000   c000   d000   e000   f000>	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.
multicast-address <H.H.H>	Set spanning-tree multicast MAC address



# Command: spanning-tree rstp

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## spanning-tree rstp

Sets the RSTP parameters.

### Syntax

- `default spanning-tree rstp [port <LINE>] [ cost | edge-port | learning | p2p | priority | protocol-migration ]`
- `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

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>cost &lt;1 - 200000000&gt;</code>	Set the RSTP path cost on the single or multiple ports; the default is 200000.
<code>edge-port {false   true}</code>	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.
<code>learning {disable   enable}</code>	Enable or disable RSTP on the single or multiple ports; the default is enable.
<code>p2p {auto   force-false   force-true}</code>	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.
<code>port &lt;portlist&gt;</code>	Filter on list of ports.
<code>priority {00   10   ...   F0}</code>	Set the RSTP port priority on the single or multiple ports; the default is 80.
<code>protocol-migration {false   true}</code>	Force the single or multiple port to transmit RSTP BPDUs when set to true, while operating in RSTP mode; the default is false.





# Command: speed

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## speed

Sets the port speed.

### Syntax

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

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

Parameter	Description
<code>10 100 1000 10000 auto</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.
<code>port &lt;portlist&gt;</code>	List of ports.

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# Command: stack auto-unit-replacement

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## stack auto-unit-replacement

Set auto unit replacement settings

### Syntax

- `default stack auto-unit-replacement enable`
- `no stack auto-unit-replacement enable`
- `stack auto-unit-replacement config {restore unit <1-8> | save [disable] [enable] [unit <1-8>]}`

### 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



# Command: stack auto-unit-replacement config

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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



# Command: stack auto-unit-replacement-image

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## stack auto-unit-replacement-image

Set auto unit image replacement settings

### Syntax

- `default stack auto-unit-replacement-image enable`
- `no stack auto-unit-replacement-image enable`
- `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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# Command: stack auto-unit-replacement remove-mac-address

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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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# Command: stack forced-mode

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## stack forced-mode

Enables the forced stack mode

### Syntax

- `default stack forced-mode`
- `no stack forced-mode`
- `stack forced-mode`

### Default

None

### Command mode

Global configuration mode

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# Command: stack-monitor

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## stack-monitor

Configures stack monitoring

### Syntax

- `default stack-monitor [enable] [stack-size] [trap-interval]`
- `no stack-monitor enable`
- `stack-monitor [enable] [stack-size <2-8>] [trap-interval <30-300>]`

### 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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# Command: stack reboot-on-failure

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## stack reboot-on-failure

Reboot stack units when their stacking ports fail to come up

### Syntax

- `default stack reboot-on-failure`
- `no stack reboot-on-failure`
- `stack reboot-on-failure`

### Default

None

### Command mode

Global configuration mode

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# Command: stack retry-count

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## stack retry-count

Configure stack retry count

### Syntax

- default stack retry-count
- stack retry-count <0-4294967295>

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<0-4294967295>	retry count

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# Command: storm-control all

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## storm-control all

Configure Storm Control settings for all types of traffic

### Syntax

- `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}`
- `no storm-control all enable`
- `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`

### Default

None

### Command mode

Global configuration mode

### Command parameters

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





# Command: storm-control broadcast

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## storm-control broadcast

Configure broadcast Storm Control settings

### Syntax

- 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}
- no storm-control broadcast enable
- 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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
action none	Sets the Storm Control action to none for the broadcast interface
low-watermark <10-100000000>	Set low-watermark in pps for the broadcast interface
action drop	Sets the Storm Control action to drop 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
poll-interval <5-300>	Sets the interval for watermark checking (seconds) for the broadcast interface
trap-interval <0-	Sets the trap sending interval for the broadcast interface in poll-intervals

1000>

when above high-watermark (0= do not send)

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# Command: storm-control multicast

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## storm-control multicast

Configure multicast Storm Control settings

### Syntax

- 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}
- no storm-control multicast enable
- 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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
enable	Enables storm control on 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
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
high-watermark <10-100000000>	Set high-watermark in pps for the multicast interface
trap-interval <0-	Sets the trap sending interval for the multicast interface in poll-intervals

1000>

when above high-watermark (0= do not send)

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# Command: storm-control unicast

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## storm-control unicast

Configure unicast storm control settings

### Syntax

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

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
enable	Enables storm control on the unicast interface
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
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-	Sets the trap sending interval for the unicast interface in poll-intervals when



1000>

above high-watermark (0= do not send)

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# Command: tacacs accounting

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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
<code>disable</code>	disable accounting
<code>enable</code>	enable accounting

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# Command: tacacs authorization

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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



# Command: tacacs server

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## tacacs server

TACACS+ server's primary/secondary host, shared secret key and TCP port

### Syntax

- `default tacacs server [host] [secondary-host] [port] [key]`
- `no tacacs server [host] [secondary-host] [port] [key]`
- `tacacs server [host {A.B.C.D}] [secondary-host {A.B.C.D}] [port <1-65535>] [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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# Command: tacacs switch

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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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# Command: telnet

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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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# Command: telnet-access

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## telnet-access

Configure TELNET access settings

### Syntax

- default telnet-access
- no telnet-access source-ip {<1-50> | <51-100>}
- 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>}]

### 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







# Command: terminal

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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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# Command: tftp-server

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## tftp-server

Configure the tftp server

### Syntax

- `default tftp-server`
- `no tftp-server`
- `tftp-server {<A.B.C.D> | <WORD>}`

### 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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# Command: trace

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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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# Command: traceroute

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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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# Command: username

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## username

Sets the RO/RW credentials

### Syntax

- `default username {ro | rw}`
- `username <WORD> <password> {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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# Command: vlacp

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## vlacp

Modify VLACP configuration

### Syntax

- `default vlacp {enable | macaddress}`
- `no vlacp {enable | macaddress}`
- `vlacp {enable | macaddress <H.H.H>}`

### 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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# Command: vlacp (FastEthernet configuration mode)

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## vlacp (FastEthernet configuration mode)

Configures VLACP parameters per port.

### Syntax

- default vlacp [port <LINE>] [enable] [ethertype] [fast-periodic-time] [funcmac-addr] [port LINE] [slow-periodic-time] [timeout] [timeout-scale]
- no vlacp enable
- 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>}]

### Default

None

### Command mode

FastEthernet configuration mode

### Command parameters

Parameter	Description
<slot/port>	Specifies the slot and port number.
enable	Enables VLACP.
ethertype {<0x8101-0x81ff> <33025-33279>}	Sets the VLACP protocol identification for this port. Defines the ethertype value of the VLACP frame. The range is 8101-81FF. Default is 8103.
fast-periodic-time <integer>	Specifies the number of milliseconds between periodic VLACPDU transmissions using short timeouts. The range is 400-20000 milliseconds. Default is 500.
funcmac-addr <mac>	Specifies the address of the far-end switch/stack configured to be the partner of this switch/stack. If none is configured, any VLACP-enabled switch communicating with the local switch through VLACP PDUs is considered to be the partner switch.
slow-periodic-time <integer>	Specifies the number of milliseconds between periodic VLACPDU transmissions using long timeouts. The range is 10000-30000 milliseconds. Default is 30000.
timeout {long  short}	Specifies whether the timeout control value for the port is a long or short timeout. long— sets the port timeout value to: (timeoutscale value) × (slow-periodic-time value). short— sets the port's timeout value to: (timeout-scale value) × (fast-periodic-time value). For example, if the timeout is set to short while the timeout-scale value is 5 and the fast-periodic-time value is 500 ms, the timer expires after 2500 ms. Default is long.

timeout-scale  
<integer>

Sets a timeout scale for the port, where  $\text{timeout} = (\text{periodic time}) \times (\text{timeout-scale})$ . The range is 1-10. Default is 3. Note: When you use fast-timers, you do not use a timeout-scale of 1, because this breaks the link continuity from service due to the time taken to transmit VLACPDU and for the partner to provide a corresponding response. Avaya recommends that you set the minimum timeout-scale to 3. Avaya also recommends that you use the minimum setting of 5 for the timeout-scale when using the fast-periodic-timer of 500 ms.

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# Command: vlan configcontrol

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## vlan configcontrol

Configure the VLAN control mode

### Syntax

- default vlan configcontrol
- vlan configcontrol {automatic | autopvid | flexible | strict}

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
automatic	AutoPVID and automatic change to membership of port-based VLANs
autopvid	Automatic change to PVID
flexible	No restricts or automatic changes
strict	AutoPVID and restrictions imposed on adding port to VLAN and changing tagging



# Command: vlan create

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## vlan create

Create new VLAN

### Syntax

- `vlan create [<2-4094>] [<LINE>] [name <LINE>] [type] [port] [protocol-decEther2] [protocol-ipEther2] [protocol-ipv6Ether2] [protocol-ipx802.2] [protocol-ipx802.3] [protocol-ipxEther2] [protocol-ipxSnap] [protocol-Netbios] [protocol-RarpEther2] [protocol-sna802.2] [protocol-snaEther2] [protocol-vinesEther2] [protocol-xnsEther2] [protocol-Userdef {ether <4096-65534> | llc <1-65534> | snap <1-65534>}] [spbm-bvlan] [spbm-switchedUni] [<1-8>] [remote-span] [voice-vlan]`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<1-8>	Spanning Tree Group ID
<2-4094>	VLAN ID
<LINE>	VLAN List
ether <4096-65534>	Create Ethernet II Userdef VLAN
llc <1-65534>	Create LLC Userdef VLAN
name <LINE>	Specify name of new VLAN
port	Create port-based VLAN
protocol-decEther2	Create decEther2 VLAN
protocol-ipEther2	Create ipEther2 VLAN
protocol-ipv6Ether2	Create ipv6Ether2 VLAN
protocol-ipx802.2	Create ipx802.2 VLAN
protocol-ipx802.3	Create ipx802.3 VLAN
protocol-ipxEther2	Create ipxEther2 VLAN
protocol-ipxSnap	Create ipxSnap VLAN
protocol-Netbios	Create Netbios VLAN
protocol-RarpEther2	Create RarpEther2 VLAN
protocol-sna802.2	Create sna802.2 VLAN
protocol-snaEther2	Create snaEther2 VLAN

protocol-Userdef	Create Userdef VLAN
protocol-vinesEther2	Create vinesEther2 VLAN
protocol-xnsEther2	Create xnsEther2 VLAN
remote-span	Create RSPAN VLAN
snap <1-65534>	Create SNAP Userdef VLAN
spbm-bvlan	Create SPBM B-VLAN
spbm-switchedUni	Create SPBM switched UNI
type	Specify type of new VLAN
voice-vlan	Create Voice VLAN

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# Command: vlan delete

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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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# Command: vlan igmp

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## vlan igmp

Modify IGMP snoop settings

### Syntax

- `default vlan igmp {<1-4094> | unknown-mcast-allow-flood <1-4094> {<A.B.C.D> | <H.H.H> | <WORD>} | unknown-mcast-no-flood}`
- `no vlan igmp unknown-mcast-allow-flood <1-4094> {<A.B.C.D> | <H.H.H>}`
- `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}`

### 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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# Command: vlan members

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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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# Command: vlan mgmt

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## vlan mgmt

Set management VLAN

### Syntax

- default vlan mgmt
- vlan mgmt <1-4094>

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<1-4094>	VLAN ID

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# Command: vlan name

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## vlan name

Change the name of a VLAN

### Syntax

- default vlan name <LINE>
- no vlan name <LINE>
- vlan name <1-4094> <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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# Command: vlan ports

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## vlan ports

Modify VLAN port settings

### Syntax

- `default vlan ports name <LINE>`
- `no vlan ports name <LINE>`
- `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>]`

### 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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# Command: vlan voice-vlan

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## vlan voice-vlan

Change to voice VLAN

### Syntax

- no vlan <LINE> {remote-span | voice-vlan}
- vlan voice-vlan <LINE>

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<LINE>	The VLAN id

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# Command: web-server

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## web-server

Modify WEB server parameters

### Syntax

- no web-server
- web-server {disable | enable}

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
disable	Enable HTTP access
enable	Disable HTTP access

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# Command: write

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## write

Write configuration to local NV storage

### Syntax

- write memory

### Default

None

### Command mode

Privileged EXEC mode

### Command parameters

Parameter	Description
memory	Write configuration to local NV storage

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