T8508, T8516 & T8524
CLI Guide

PURPOSE This guide gives specific information on how to operate and use the management functions of the switch.

AUDIENCE The guide is intended for use by network administrators who are responsible for operating and maintaining network equipment; consequently, it assumes a basic working knowledge of general switch functions, the Internet Protocol (IP), and Simple Network Management Protocol (SNMP).

CONVENTIONS The following conventions are used throughout this guide to show information:

NOTE: Emphasizes important information or calls your attention to related features or instructions.

CAUTION: Alerts you to a potential hazard that could cause loss of data, or damage the system or equipment.

WARNING: Alerts you to a potential hazard that could cause personal injury.

Contents

CLI Management

The following description is the brief of the network connection.

-- An RJ-45 cable is used for connecting to the Managed Switch's network port to access the command-line interface.

-- Attach the RJ-45 cable to the switch's network port.

- Make sure to be on the same IP subenet as the switch more information can be found in the user manual about connecting to the switch.

- Open a terminal emulator that is able to support SSH such as putty. Enter in the IP Address of the Switch and the SSH port 522

Default IP Address : 192.168.0.254

Default SSH port: 522

Login

The command-line interface (CLI) is a text-based interface. User can access the CLI through either a direct serial connection to the device or a Telnet session. The default uaser and password to login into the Managed Switch are listed below:

Username: root

Password: Automatically generated password can only be found on the product label on the underside of the switch.

> *If the password has been changed please make sure to use the updated password.*
> *If the password has been forgotten or lost please factory default the switch by following the factory default instructions in the user manual.*

After you login successfully, the prompt will be shown as "<sys_name>**#**" . See the following two figures. It means you behave as an administrator and have the privilege for setting the Managed Switch. If log as not the administrator, the prompt will be shown as "<sys_name>>", it means you behave as a guest and are only allowed for setting the system under the administrator. Each CLI command has its privilege

```
Username: root
Password:
AXIS T8508#
```

Commands of CLI

The CLI is divided into serveral modes. If a user has enough privilege to run a particular command, the user has to run the command in the correct mode. To see the commands of the mode, please input "**?**" after the system prompt, then all commands will be listed in the screen. The command modes are listed as below:

Command Modes

MODE	**PROMPT**	**COMMAND FUNCTION IN THIS MODE**
exec	<sys_name>#	Display current configuration, diagnostics, maintenance
config	<sys_name>(config)#	Configure features other than those below
Config-if	<sys_name>(config-interface)#	Configure ports
Config-if-vlan	<sys_name>(config-if-vlan)#	Configure static vlan
Config-line	<sys_name>(config-line)#	Line Configuration
Config-impc-profile	<sys_name>(config-impc-profile)#	IPMC Profile
Config-snmp-host	<sys_name>(config-snmp-host)#	SNMP Server Host
Config-stp-aggr	<sys_name>(config-stp-aggr)#	STP Aggregation
Config-dhcp-pool	<sys_name>(config-dhcp-pool)#	DHCP Pool Configuration
Config-rfc2544-profile	<sys_name>(config-rfc2544-profile)#	RFC2544 Profile

Commands reside in the corresponding modes could run only in that mode. If a user wants to run a particular command, the user has to change to the appropriate mode. The command modes are organized as a tree, and users start in enable mode. The following table explains how to change from one mode to another.

Change Between Command Modes

MODE	ENTER MODE	LEAVE MODE
exec	--	--
config	Configure terminal	exit
config-interfcae	Interface <port-type> <port-type-list>	exit
config-vlan	Interface vlan <vlan_list>	exit

Global Commands of CLI

```
AXIS T8508# ?
    clear       Reset functions
    configure    Enter configuration mode
    copy        Copy from source to destination
    debug       Debugging functions
    delete      Delete one file in flash: file system
    dir         Directory of all files in flash: file system
    disable     Turn off privileged commands
    do          To run exec commands in config mode
    dot1x       IEEE Standard for port-based Network Access
Control
    enable      Turn on privileged commands
    exit        Exit from EXEC mode
    firmware     Firmware upgrade/swap
    help        Description of the interactive help system
    ip          IPv4 commands
    logout      Exit from EXEC mode
    more        Display file
    no          Negate a command or set its defaults
    ping        Send ICMP echo messages
    reload      Reload system.
    send        Send a message to other tty lines
    show        Show running system information
```

Exit

Exit from EXEC mode.

Syntax:

exit

Parameter:

None.

Example:

```
AXIS T8508(config)# exit
AXIS T8508#
```

Help

Description of the interactive help system.

Syntax:

help

Parameter:

None.

Example:

```
AXIS T8508# help
Help may be requested at any point in a command by entering
a question mark '?'.  If nothing matches, the help list will
be empty and you must backup until entering a '?' shows the
available options.
Two styles of help are provided:
1. Full help is available when you are ready to enter a
   command argument (e.g. 'show ?') and describes each
possible
   argument.
2. Partial help is provided when an abbreviated argument is
entered
   and you want to know what arguments match the input
   (e.g. 'show pr?'.)
```

logout

Exit from EXEC mode.

Syntax:

logout

Parameter:

none

Example:

```
AXIS T8508# logout


press ENTER to get started
```

end

Go back to EXEC mode.

Syntax:

end

Example:

```
(config)# end
AXIS T8508#
```

CLEAR of CLI

Table : CLEAR Commands

Command	Function
access	Access management
access-list	Access list
dot1x	IEEE Standard for port-based Network Access Control
ip	Interface Internet Protocol config commands
ipv6	IPv6 configuration commands
lacp	Clear LACP statistics
lldp	Clears LLDP statistics.
logging	Syslog
mac	MAC Address Table
mvr	Multicast VLAN Registration configuration
sflow	Statistics flow.
spanning-tree	STP Bridge
statistics	Clear statistics for a given interface

access

Access management.

Syntax:

clear access management statistics

Parameter:

management Access management configuration.

statistics Statistics data.

Example:

```
AXIS T8508# clear access management statistics
AXIS T8508#
```

access-list

Access list.

Syntax:

Clear access-list ace statistics

Parameter:

ace	Access list entry
statistics	Traffic statistics

Example:

```
AXIS T8508# clear access-list ace statistics
AXIS T8508#
```

dot1x

IEEE Standard for port-based Network Access Control.

Syntax

Clear dot1x statistics

Clear dot1x statistics interface GigabitEthernet < PORT_TYPE_LIST>

Parameter

statistics	Clears the statistics counters
interface	Interface
GigabitEthernet	1 Gigabit Ethernet Port
PORT_TYPE_LIST	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508# clear dot1x statistics interface GigabitEthernet 1/1-26
AXIS T8508#
```

ip

Interface Internet Protocol config commands

Syntax

clear ip arp

clear ip dhcp detailed statistics { server | client | snooping | relay | helper | all } [interface (<port_type>

[<in_port_list>])]

clear ip dhcp relay statistics

clear ip dhcp server binding <ip>

clear ip dhcp server binding { automatic | manual | expired }

clear ip dhcp server statistics

clear ip dhcp snooping statistics [interface (<port_type> [<in_port_list>])]

clear ip igmp snooping [vlan <v_vlan_list>] statistics

clear ip statistics [system] [interface vlan <v_vlan_list>] [icmp] [icmp-msg <type>]

Parameter

arp	Clear ARP cache
dhcp	Dynamic Host Configuration Protocol
igmp	Internet Group Management Protocol
statistics	Traffic statistics
relay	DHCP relay agent configuration
snooping	DHCP snooping
interface	Select an interface to configure
GigabitEthernet	1 Gigabit Ethernet Port
vlan	IPv4 traffic interface
<vlan_list>	VLAN identifier(s): VID

EXAMPLE

```
AXIS T8508# clear ip arp
AXIS T8508# clear ip dhcp detailed  statistics all
interface GigabitEthernet 1/1-26
AXIS T8508# clear  ip dhcp relay statistics
AXIS T8508# clear ip dhcp server binding 192.168.1.11
AXIS T8508# clear ip dhcp server binding automatic
AXIS T8508# clear ip dhcp server statistics
AXIS T8508# Clear ip dhcp snooping statistics
interface GigabitEthernet 1/1-26
AXIS T8508# clear ip igmp snooping vlan 1 statistics
AXIS T8508# clear ip statistics system interface
AXIS T8508# clear ip statistics system interface vlan
1 icmp icmp-msg 2
```

ipv6

IPv6 configuration commands.

Syntax

clear ipv6 mld snooping [vlan <v_vlan_list>] statistics

clear ipv6 neighbors

clear ipv6 statistics [system] [interface vlan <v_vlan_list>] [icmp] [icmp-msg <type>]

Parameter

mld	Multicasat Listener Discovery
neighbors	Ipv6 neighbors
statistics	Traffic statistics
snooping	Snooping MLD
statistics	Running MLD snooping counters
vlan	Ipv6 interface traffic
<vlan_list>	VLAN identifier(s): VID
icmp	IPv6 ICMP traffic
icmp-msg	IPv6 ICMP traffic for designated message type
interface	Select an interface to configure
system	IPv6 system traffic
< 0~255>	ICMP message type ranges from 0 to 255

EXAMPLE

```
AXIS T8508# clear ipv6 mld snooping vlan 3 statistics
AXIS T8508# clear ipv6 neighbors
AXIS T8508# Clear ipv6 statistics system icmp icmp-msg
2
```

lacp

Clear LACP statistics

Syntax

Clear lacp statistics

Parameter

statistics	Clear all LACP statistics

EXAMPLE

```
AXIS T8508# clear lacp statistics
AXIS T8508#
```

lldp

Clears LLDP statistics.

Syntax

Clear lldp statistics

Clear lldp statistics| begin | exclude | include >< LINE >

Parameter

statistics	Clears LLDP statistics.
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# clear lldp statistics | begin LINE
AXIS T8508#
```

logging

Syslog.

Syntax

clear logging [info] [warning] [error] [switch <switch_list>]

Parameter

error	Error
info	Information
warning	Warning

EXAMPLE

```
AXIS T8508# clear logging info error warning
AXIS T8508#
```

mac

MAC Address Table.

Syntax

Clear mac address-table

Parameter

address-table	Flush MAC Address table.

EXAMPLE

```
AXIS T8508# clear mac address-table
AXIS T8508#
```

mvr

Multicast VLAN Registration configuration.

Syntax

clear mvr [vlan <v_vlan_list> | name <mvr_name>] statistics

Parameter

name	MVR multicast name
statistics	Running MVR protocol counters
vlan	MVR multicast vlan
< word16>	MVR multicast VLAN name
<vlan_list>	MVR multicast VLAN list

EXAMPLE

```
AXIS T8508# clear  mvr vlan 25 statistics
AXIS T8508#
```

sflow

Statistics flow.

Syntax

clear sflow statistics { receiver [<receiver_index_list>] | samplers [interface [<samplers_list>] (<port_type> [<v_port_type_list>])] }

Parameter

interface	Interface
receiver	Clear statistics for receiver.
<port_type>	GigabitEthernet
<Samplers : option>	runtime
<port_type_list>	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508# clear sflow statistics interface
GigabitEthernet 1/1-26
```

spanning-tree

STP Bridge.

Syntax

clear spanning-tree { { statistics [interface (<port_type> [<v_port_type_list>])] } | { detected-protocols [interface (<port_type> [<v_port_type_list_1>])] } }

Parameter

detected-protocols	Set the STP migration check
statistics	STP statistics
interface	Choose port
<port_type>	GigabitEthernet
<port_type_list>	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508# clear spanning-tree detected-protocols interface
GigabitEthernet 1/1-26
```

statistics

Clear statistics for a given interface

Syntax

clear **statistics interface** <port_type> <port_type_list>

clear **statistics** <port_type> <port_type_list>

Parameter

<port_type>	GigabitEthernet
<port_type_list>	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508# clear statistics GigabitEthernet 1/1-26
AXIS T8508#
```

CONFIGURE Commands of CLI

Table : CONFIGURE Commands

Command	Function
terminal	Configure from the terminal
aaa	Authentication, Authorization and Accounting
access	Access management
access-list	Access list
aggregation	Aggregation mode
banner	Define a login banner
clock	Configure time-of-day clock
default	Set a command to its defaults
do	To run exec commands in config mode
dot1x	IEEE Standard for port-based Network Access Control
enable	Modify enable password parameters
end	Go back to EXEC mode
exit	Exit from Configuration mode
event	Trap event severity level
gvrp	Enable GVRP feature
help	Description of the interactive help system
hostname	Set system's network name
interface	Select an interface to configure
ip	Internet Protocol
ipmc	IPv4/IPv6 multicast configuration
ipv6	IPv6 configuration commands
lacp	LACP settings

line	Configure a terminal line
lldp	LLDP configurations.
logging	Syslog
loop-protect	Loop protection configuration
mac	MAC table entries/configuration
monitor	Set monitor configuration.
mvr	Multicast VLAN Registration configuration
no	Negate a command or set its defaults
ntp	Configure NTP
poe	power over ethernet
port-security	Enable/disable port security globally.
Privilege	Command privilege parameters
qos	Quality of Service
radius-server	Configure RADIUS
rmon	Remote Monitoring
sflow	Statistics flow.
snmp-server	Set SNMP server's configurations
spanning-tree	Spanning Tree protocol
system	Set the SNMP server's configurations
tacacs-server	Configure TACACS+
upnp	Set UPnP's configurations
username	Establish User Name Authentication
vlan	VLAN commands
voice	Voice appliance attributes
web	Web

terminal

Configure from the terminal.

Syntax

configure terminal

EXAMPLE

```
AXIS T8508# configure terminal
AXIS T8508(config)#
```

aaa

Authentication, Authorization and Accounting.

SYNTAX

aaa authentication login { console | telnet | ssh | http } { { local | radius | tacacs } [{ local | radius | tacacs } [{ local | radius | tacacs }]] }

Parameter

authentication	Authentication
login	Login
console	Configure Console
http	Configure HTTP
ssh	Configure SSH
telnet	Configure Telnet
local	Use local database for authentication
radius	Use RADIUS for authentication
tacacs	Use TACACS+ for authentication

EXAMPLE

```
AXIS T8508(config)# aaa authentication login http radius
AXIS T8508(config)#
```

access

Access management.

SYNTAX

access management

access management <access_id> <access_vid> <start_addr> [to <end_addr>] { [web] [snmp] [telnet] | all }

Parameter

management	Access management configuration
< 1-16>	ID of access management entry
< 1-4094>	The VLAN ID for the access management entry
< ipv4_addr>	Start IPv4 address
< ipv6_addr>	Start IPv6 address
all	All services
snmp	SNMP service
telnet	TELNET/SSH service
to	End address of the range
web	Web service

EXAMPLE

```
AXIS T8508(config)# access management 10 3 192.168.1.1 all
AXIS T8508(config)#
```

aggregation

Aggregation mode.

SYNTAX

aggregation mode { [dmac] [ip] [dmac] [port] }

Parameter

mode	Traffic distribution mode
dmac	Destination MAC affects the distribution
ip	IP address affects the distribution
port	IP port affects the distribution
smac	Source MAC affects the distribution

EXAMPLE

```
AXIS T8508(config)# aggregation mode ip port dmac smac
AXIS T8508(config)#
```

banner

Define a login banner

SYNTAX

banner [motd] <banner>

banner exec <banner>

banner login <banner>

Parameter

<LINE>	c banner-text c, where 'c' is a delimiting character
exec	Set EXEC process creation banner
login	Set login banner
motd	Set Message of the Day banner

EXAMPLE

```
AXIS T8508(config)# banner exec LINE
Enter TEXT message.  End with the character 'L'.
L
AXIS T8508(config)#
```

clock

Configure time-of-day clock.

SYNTAX

clock set <icliDate> <icliTime>

clock summer-time <word16> date [<start_month_var> <start_date_var> <start_year_var> <start_hour_var> <end_month_var> <end_date_var> <end_year_var> <end_hour_var> [<offset_var>]]

clock summer-time <word16> recurring [<start_week_var> <start_day_var> <start_month_var> <start_hour_var> <end_week_var> <end_day_var> <end_month_var> <end_hour_var> [<offset_var>]]

clock timezone <word_var> <hour_var> [<minute_var>]

Parameter

set	set clock
summer-time	Configure summer (daylight savings) time
timezone	Configure time zone
<date>	yyyy/mm/dd
<time>	hh:mm:ss
<2000-2097>	Year to start
hh:mm	Time to start (hh:mm)
<1-12>	Month to end
<1-31>	Date to end
<2000-2097>	Year to end
hh:mm	Time to end (hh:mm)
<1-1440>	Offset to add in minutes
<1-5>	Week number to start

<1-7> Weekday to start

<1-12> Month to start

EXAMPLE

```
AXIS T8508(config)# clock set 2014/11/04 10:22:03
2014-11-04T10:22:03+00:00
AXIS T8508(config)# do show clock
System Time     : 2011-01-01T00:05:48+00:00
```

default

Set a command to its defaults

SYNTAX

default access-list rate-limiter [<rate_limiter_list>]

Parameter

access-list Access list

rate-limiter Rate limiter

<RateLimiterId : 1-16> Rate limiter ID

EXAMPLE

```
AXIS T8508(config)# default access-list rate-limiter 3
AXIS T8508(config)#
```

do

To run exec commands in config mode.?

SYNTAX

do < LINE >{[< LINE >]}

Parameter

<LINE> Exec Command

EXAMPLE

```
AXIS T8508(config)# do show vlan
VLAN  Name                          Ports
--------------------------------------------------------------------------------
--------------------
1     default                       GigabitEthernet 1/1, GigabitEthernet 1/2,
GigabitEthernet 1/3,
                                    GigabitEthernet 1/4, GigabitEthernet 1/5
AXIS T8508(config)#
```

dot1x

IEEE Standard for port-based Network Access Control.

SYNTAX

dot1x authentication timer inactivity <v_10_to_100000>

dot1x authentication timer re-authenticate <v_1_to_3600>

dot1x feature { [guest-vlan] [radius-qos] [radius-vlan] }*1

dot1x guest-vlan <value>

dot1x guest-vlan supplicant

dot1x max-reauth-req <value>

dot1x re-authentication

dot1x system-auth-control

dot1x timeout quiet-period <v_10_to_1000000>

dot1x timeout tx-period <v_1_to_65535>

Parameter

authentication	Authentication
feature	Globally enables/disables a dot1x feature functionality

guest-vlan	Guest VLAN
max-reauth-req	Guest VLAN ID used when entering the Guest VLAN.
re-authentication	Set Re-authentication state
system-auth-control	Set the global NAS state
timeout	timeout
timer	timer
inactivity	Time in seconds between check for activity on successfully authenticated MAC **addresses.**
re-authenticate	The period between re-authentication attempts in seconds
<10-1000000>	seconds
<1-3600>	seconds
guest-vlan	Globally enables/disables state of guest-vlan
radius-qos	Globally enables/disables state of RADIUS-assigned QoS.
radius-vlan	Globally enables/disables state of RADIUS-assigned VLAN.
<1-4095>	The number of times a Request Identity EAPOL frame is sent without response before considering entering the Guest VLAN.
supplicant	The switch remembers if an EAPOL frame has been received on the port for the life-time of the port. Once the switch considers whether to enter the Guest VLAN, it will first check if this option is enabled or disabled. If disabled (unchecked; default), the switch will only enter the Guest VLAN if an EAPOL frame has not been received on the port for the life-time of the port. If enabled (checked), the switch will consider entering the Guest VLAN even if an EAPOL frame has been received on the port for the life-time of the port.
<1-255>	number of times
quiet-period	Time in seconds before a MAC-addresshow that failed

authentication gets a new authentication chance.

tx-period the time between EAPOL retransmissions.

<10-1000000> seconds

<1-65535> seconds

EXAMPLE

```
AXIS T8508(config)# dot1x authentication timer inactivity 1000
AXIS T8508(config)# dot1x feature guest-vlan radius-qos radius-vlan
AXIS T8508(config)# dot1x guest-vlan 33
AXIS T8508(config)# dot1x max-reauth-req 3
AXIS T8508(config)# dot1x re-authentication
AXIS T8508(config)# dot1x system-auth-control
AXIS T8508(config)# dot1x timeout quiet-period 3000
```

enable

Modify enable password parameters.

SYNTAX

enable password [<level> <1-15>] <WORD>

enable secret { 0 | 5 } [< level> <1-15>] <WORD>

Parameter

password Assign the privileged level clear password

secret Assign the privileged level secret

WORD The UNENCRYPTED (cleartext) password

level Set exec level password

<1-15> Level number

0 Specifies an UNENCRYPTED password will follow

5 Specifies an ENCRYPTED secret will follow

EXAMPLE

```
AXIS T8508(config)# enable password level 10 999
AXIS T8508(config)#
```

event

Trap event severity level.

SYNTAX

event group <group_name> { level <lvl> | syslog { enable | disable } | trap { enable | disable } | smtp { enable | disable } | ipush { enable | disable } }

Parameter

Group	Configure trap event severity level
<word32>	ACL, ACL_Log, Access_Mgmt, Auth_Failed, Cold_Start, Config_Info, FAN_FAIL, Firmware_Upgrade, Import_Export, LACP, Link_Status, Login, Logout, Loop_Protect, Mgmt_IP_Change, Module_Change, NAS, Password_Change, Poe_Auto_Check, Port_Security, Temperature, VLAN, Voltage, Warm_Start

EXAMPLE

```
AXIS T8508(config)# event group VLAN trap enable
AXIS T8508(config)#
```

gvrp

Enable GVRP feature

SYNTAX

gvrp

gvrp max-vlans <1-4095>

gvrp time { [join-time <1-20>] [leave-time <60-300>] [leave-all-time <1000-5000>] }*1

Parameter

time	config gvrp timer value in units of centi seconds [cs]

EXAMPLE

```
AXIS T8508(config)# gvrp max-vlans 333
AXIS T8508(config)# gvrp time join-time 13 leave-all-time 3000 leave-time 200
AXIS T8508(config)#
```

hostname

Set system's network name.

SYNTAX

hostname < WORD >

Parameter

WORD	This system's network name.

EXAMPLE

```
AXIS T8508(config)# hostname abc
abc(config)#
```

interface

Select an interface to configure.

SYNTAX

interface (<port_type> [<plist>])

interface vlan <vlist>

Parameter

<port_type>	GigabitEthernet
vlan	VLAN interface configurations
<vlan_list>	List of VLAN interface numbers, 1-4095
<port_type_list>	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
GEPOEL2P-ESW48K(config)# interface GigabitEthernet 1/1-26
GEPoEL2P-ESW48K(config-if)# poe weekday Fri hour 22
GEPoEL2P-ESW48K(config-if)# GEPOEL2P-ESW48K(config)# interface vlan 3
GEPOEL2P-ESW48K(config-if-vlan)# ip address dhcp
GEPOEL2P-ESW48K(config-if-vlan)#
```

ip

Internet Protocol.

SYNTAX

ip arp inspection

ip arp inspection entry interface <port_type> <in_port_type_id> <vlan_var> <mac_var> <ipv4_var>

ip arp inspection translate [interface <port_type> <in_port_type_id> <vlan_var> <mac_var> <ipv4_var>]

ip arp inspection vlan <in_vlan_list>

ip arp inspection vlan <in_vlan_list> logging { deny | permit | all }

ip dhcp excluded-address <low_ip> [<high_ip>]

ip dhcp pool <pool_name>

ip dhcp relay

ip dhcp relay information option

ip dhcp relay information policy { drop | keep | replace }

ip dhcp server

ip dhcp snooping

ip dns proxy

ip helper-address <v_ipv4_ucast>

ip http secure-redirect

ip http secure-server

ip igmp host-proxy [leave-proxy]

ip igmp snooping

ip igmp snooping vlan <v_vlan_list>

ip igmp ssm-range <v_ipv4_mcast> <ipv4_prefix_length>

ip igmp unknown-flooding

ip name-server { <v_ipv4_addr> | dhcp [interface vlan <v_vlan_id>] }

ip route <v_ipv4_addr> <v_ipv4_netmask> <v_ipv4_gw>

ip routing

ip source binding interface <port_type> <in_port_type_id> <vlan_var> <ipv4_var> <mac_var>

ip ssh

ip verify source

ip verify source translate

Parameter

arp	Address Resolution Protocol
dhcp	Dynamic Host Configuration Protocol
dns	Domain Name System
helper-address	DHCP relay server
http	Hypertext Transfer Protocol
igmp	Internet Group Management Protocol
name-server	Domain Name System
route	Add IP route
routing	Enable routing for IPv4 and IPv6
source	source command
ssh	Secure Shell
verify	verify command
inspection	ARP inspection
entry	arp inspection entry

interface	arp inspection entry interface config
<port_type>	Port type in Fast, Giga ethernet
<port_type_id>	Port ID in the format of switch-no/port-no
<vlan_id>	Select a VLAN id to configure
<mac_ucast>	Select a MAC address to configure
<ipv4_ucast>	Select an IP Address to configure
deny	log denied entries
permit	log permitted entries
all	log all entries
translate	arp inspection translate all entries
vlan	arp inspection vlan setting
<vlan_list>	arp inspection vlan list
relay	**DHCP relay agent information**
information	DHCP information option <Option 82>
option	DHCP option
information	DHCP information option(Option 82)
policy	Policy for handling the receiving DHCP packet already include the information option
drop	Drop the package when receive a DHCP message that already contains relay information
keep	Keep the original relay information when receive a DHCP message that already contains it
server	Enable DHCP server
snooping	DHCP snooping
proxy	DNS proxy service
secure-redirect	Secure HTTP web rediction
secure-server	Secure HTTP web server
snooping	Snooping IGMP
<word16>	Profile name in 16 char's

vlan	IGMP VLAN
ssm-range	IPv4 address range of Source Specific Multicast
<ipv4_mcast>	Valid IPv4 multicast address
<4-32>	Prefix length ranges from 4 to 32
unknown-flooding	Flooding unregistered IPv4 multicast traffic
<ipv4_ucast>	A valid IPv4 unicast address
dhcp	Dynamic Host Configuration Protocol
interface	Select an interface to configure
vlan	VLAN Interface
<vlan_id>	VLAN identifier(s): VID
<ipv4_addr>	Network
<ipv4_netmask>	Netmask
<ipv4_addr>	Gateway
binding	ip source binding
interface	ip source binding entry interface config
<port_type>	* or Gigibitethernet
*****	All switches or All ports
Gigabitethernet	1 Gigabitethernet Port
<port_type_id>	Port ID in the format of switch-no/port-no, ex 1/1-26 for Gigabitethernet
<vlan_id>	Select a VLAN id to configure
<ipv4_ucast>	Select an IP Address to configure
<ipv4_netmask>	Select a subnet mask to configure
<mac_ucast>	Select a MAC address to configure
source	verify source
limit	limit command
<0-2>	the number of limit

translate ip verify source translate all entries

loggin ARP inspection vlan loging mode config

EXAMPLE

```
AXIS T8508(config)# ip arp inspection
AXIS T8508(config)# ip dhcp relay
AXIS T8508(config)# ip dns proxy
AXIS T8508(config)# ip helper-address 192.168.1.1
AXIS T8508(config)# ip http secure-server
AXIS T8508(config)# ip igmp snooping vlan 3
AXIS T8508(config)# ip name-server 192.168.1.6
AXIS T8508(config)# ip route 192.168.1.1 255.255.255.0 192.168.1.100
AXIS T8508(config)# ip routing
AXIS T8508(config)# ip ssh
AXIS T8508(config)# ip verify source translate
IP Source Guard:
      Translate 0 dynamic entries into static entries.
```

ipmc

IPv4/IPv6 multicast configuration.

SYNTAX

ipmc profile

ipmc profile <profile_name>

ipmc range <entry_name> { <v_ipv4_mcast> [<v_ipv4_mcast_1>] | <v_ipv6_mcast> [<v_ipv6_mcast_1>] }

Parameter

profile IPMC profile configuration

range A range of IPv4/IPv6 multicast addresses for the profile

< word16> Range entry name in 16 char's

<ipv4_mcast> Valid IPv4 multicast address

<ipv6_mcast> Valid IPv6 multicast address

EXAMPLE

```
AXIS T8508(config)# ipmc profile test
AXIS T8508(config-ipmc-profile)#
```

ipv6

IPv6 configuration commands

SYNTAX

ipv6 mld host-proxy [leave-proxy]

ipv6 mld snooping

ipv6 mld snooping vlan <v_vlan_list>

ipv6 mld ssm-range <v_ipv6_mcast> <ipv6_prefix_length>

ipv6 mld unknown-flooding

ipv6 route <v_ipv6_subnet> { <v_ipv6_ucast> | interface vlan <v_vlan_id> <v_ipv6_addr> }

Parameter

mld	Multicasat Listener Discovery
route	Configure static routes
host-proxy	MLD proxy configuration
snooping	Snooping MLD
ssm-range	IPv6 address range of Source Specific Multicast
unknown-flooding	Flooding unregistered IPv6 multicast traffic
leave-proxy	MLD proxy for leave configuration
vlan	MLD VLAN
<vlan_list>	VLAN identifier(s): VID
<ipv6_mcast>	Valid IPv6 multicast address
X:X:X:X::X/<0-128>	IPv6 prefix x:x::y/z

EXAMPLE

```
AXIS T8508(config)# ipv6 mld host-proxy leave-proxy
AXIS T8508(config)# ipv6 mld snooping vlan 1
AXIS T8508(config)#
```

lacp

LACP settings.

SYNTAX

lacp system-priority <1-65535>

Parameter

system-priority System priority

<1-65535> Priority value, lower means higher priority

EXAMPLE

```
AXIS T8508(config)# lacp system-priority 333
AXIS T8508(config)#
```

line

Configure a terminal line.

SYNTAX

line { <0~16> | console 0 | vty <0~15> }

Parameter

<0~16> List of line numbers

console Console terminal line

0 Console Line number

vty Virtual terminal

<0~15> List of vty numbers

EXAMPLE

```
AXIS T8508(config)# line  console 0
AXIS T8508(config-line)#
```

lldp

LACP configurations.

SYNTAX

lldp holdtime <2-10>

lldp med datum { wgs84 | nad83_navd88 | nad83_mllw }

lldp med fast <1-10>

lldp med location-tlv altitude { meters | floors } <word11>

lldp med location-tlv civic-addr { country | state | county | city | district | block | street | leading-street-direction | trailing-street-suffix | street-suffix | house-no | house-no-suffix | landmark | additional-info | name | zip-code | building | apartment | floor | room-number | place-type | postal-community-name | p-o-box | additional-code } <string250>

lldp med location-tlv elin-addr <dword25>

lldp med location-tlv latitude { north | south } <word8>

lldp med location-tlv longitude { west | east } <word9>

lldp med media-vlan policy-list <range_list>

lldp med media-vlan-policy <0-31> { voice | voice-signaling | guest-voice-signaling | guest-voice | softphone-voice | video-conferencing | streaming-video | video-signaling } { tagged <vlan_id> | untagged } [l2-priority <0-7>] [dscp <0-63>]

lldp reinit <1-10>

lldp timer <5-32768>

lldp transmission-delay <1-8192>

Parameter

holdtime	Sets LLDP hold time (The neighbor switch will discarded the LLDP information after "hold time" multiplied with "timer" seconds).

med	Media Endpoint Discovery.
reinit	LLDP tx reinitialization delay in seconds.
timer	Sets LLDP TX interval (The time between each LLDP frame transmitted in seconds).
transmission-delay	Sets LLDP transmision-delay. LLDP transmission delay (the amount of time that the transmission of LLDP frames will delayed after LLDP configuration has changed) in seconds.)
<2-10>	2-10 seconds.
<1-10>	1-10 seconds.
<5-32768>	5-32768 seconds.
<1-8192>	1-8192 seconds.
datum	Datum (geodetic system) type.
fast	Number of times to repeat LLDP frame transmission at fast start.
location-tlv	LLDP-MED Location Type Length Value parameter.
media-vlan-policy	Use the media-vlan-policy to create a policy, which can be assigned to an interface.
nad83_mllw	Mean lower low water datum 1983
nad83_navd88	North American vertical datum 1983
wgs84	World Geodetic System 1984
altitude	**Altitude parameter**
meter	**Altitude value**
floors	**Altitude value**
civic-addr	Civic address information and postal information
country	The two-letter ISO 3166 country code in capital ASCII letters - Example: DK, DE or US.

state	National subdivisions (state, canton, region, province, prefecture).
county	County, parish, gun (Japan), district.
city	City, township, shi (Japan) - Example: Copenhagen.
district	City division, borough, city district, ward, chou (Japan).
block	Neighbourhood, block.
street	Street - Example: Poppelvej.
leading-street-direction	Leading street direction - Example: N.
trailing-street-suffix	Trailing street suffix - Example: SW.
street-suffix	Street suffix - Example: Ave, Platz.
house-no	House number - Example: 21.
house-no-suffix	House number suffix - Example: A, 1/2.
landmark	Landmark or vanity address - Example: Columbia University.
additional-info	Additional location info - Example: South Wing.
name	Name (residence and office occupant) - Example: Flemming Jahn.
zip-code	Postal/zip code - Example: 2791.
building	Building (structure) - Example: Low Library.
apartment	Unit (Apartment, suite) - Example: Apt 42.
floor	Floor - Example: 4.
room-number	Room number - Example: 450F.
place-type	Place type - Example: Office.
postal-community-name	Postal community name - Example: Leonia.
p-o-box	Post office box (P.O. BOX) - Example: 12345.
additional-code	Additional code - Example: 1320300003.
<string250>	Value for the corresponding selected civic address.
elin-addr	Emergency Location Identification Number, (e.g. E911 and others), such as defined by TIA or NENA.
<dword25>	ELIN value

north	Setting latitude direction to north.
south	Setting latitude direction to south.
<word8>	Latitude degrees (0.0000-90.0000).
policy-list	Assignment of policies.
<range_list>	Policies to assign to the interface.
<0-31>	Policy id for the policy which is created.
voice	Create a voice policy.
voice-signaling	Create a voice signaling policy.
guest-voice-signaling	Create a guest voice signaling policy.
guest-voice	Create a guest voice policy.
softphone-voice	Create a softphone voice policy.
video-conferencing	Create a video conferencing policy.
streaming-video	Create a streaming video policy.
video-signaling	Create a video signaling policy.
tagged	The policy uses tagged frames.
<vlan_id>	The VLAN the policy uses tagged frames.
untagged	The policy uses un-tagged frames.
l2-priority	Layer 2 priority.
<0-7>	Priority 0-7
dscp	Differentiated Services Code Point.
<0-63>	DSCP value 0-63.

EXAMPLE

```
AXIS T8508(config)# lldp holdtime 5
AXIS T8508(config)# lldp med fast 5
AXIS T8508(config)# lldp reinit 3
AXIS T8508(config)# lldp timer 555
AXIS T8508(config)# lldp transmission-delay 333
Note: According to IEEE 802.1AB-clause 10.5.4.2 the transmission-delay must
not be larger than LLDP timer * 0.25. LLDP timer changed to 13332
```

logging

Syslog.

SYNTAX

logging host { <ipv4_ucast> | <hostname> }

logging level { info | warning | error }

logging on

Parameter

host	host
<ipv4_ucast>	IP address of the log server
<hostname>	Donain name of the log server
level	level
info	Information
warning	Warning
error	Error
on	Enable syslog server

EXAMPLE

```
AXIS T8508(config)# logging level error
AXIS T8508(config)# logging on
AXIS T8508(config)#
```

loop-protect

Loop protection configuration.

SYNTAX

loop-protect

loop-protect shutdown-time <0-604800>

loop-protect transmit-time <1-10>

Parameter

shutdown-time	Loop protection shutdown time interval
<0-604800>	Shutdown time in second
transmit-time	Loop protection transmit time interval
<1-10>	Transmit time in second

EXAMPLE

```
AXIS T8508(config)# loop-protect
AXIS T8508(config)# loop-protect shutdown-time 333
AXIS T8508(config)# loop-protect transmit-time 3
AXIS T8508(config)#
```

mac

MAC table entries/configuration.

SYNTAX

mac address-table aging-time <0,10-1000000>

mac address-table static <mac_addr> vlan <vlan_id> interface <port_type> <port_type_list>

Parameter

address-table	Mac Address Table
aging-time	Mac address aging time

<0,10-1000000>	Aging time in seconds, 0 disables aging
static	Static MAC address
<mac_addr>	48 bit MAC address: xx:xx:xx:xx:xx:xx
vlan	VLAN keyword
<vlan_id>	VLAN IDs 1-4095
interface	Select an interface to configure
<port_type>	Port type * or Gigabitethernet
*****	All switches or All ports
Gigabitethernet	1 Gigabit Ethernet port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508(config)# mac address-table aging-time 3333
AXIS T8508(config)#
```

monitor

Set monitor configuration.

SYNTAX

monitor destination interface <port_type> <port_type_id>

monitor source { interface <port_type> <port_type_list> | cpu } { both | rx | tx }

Parameter

destination	The destination port. That is the port that trafficed should be mirrored to.
interface	Interface to mirror traffic to.
source	The source port. That is the source port to be mirrored to the destination port.
interface	Mirrot interface traffic.
<port_type>	1 Gigabit Ethernet port
*****	**All switches or all ports.**
<port_type_list>	Port list in 1/1-26.

cpu	Mirrot CPU traffic.
both	Setting source port to both will mirror both ingress and egress traffic.
rx	Setting source port to rx will mirror bothingress traffic.
tx	Setting source port to tx will mirror both egress traffic.
<port_type>	Port type in Gigabitethernet
<port_type_list>	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508(config)# monitor destination interface GigabitEthernet 1/12
AXIS T8508(config)# monitor source  cpu both
AXIS T8508(config)#
```

mvr

Multicast VLAN Registration configuration.

SYNTAX

mvr

mvr name <mvr_name> channel <profile_name>

mvr name <mvr_name> frame priority <cos_priority>

mvr name <mvr_name> frame tagged

mvr name <mvr_name> igmp-address <v_ipv4_ucast>

mvr name <mvr_name> last-member-query-interval <ipmc_lmqi>

mvr name <mvr_name> mode { dynamic | compatible }

mvr vlan <v_vlan_list> [name <mvr_name>]

mvr vlan <v_vlan_list> channel <profile_name>

mvr vlan <v_vlan_list> frame priority <cos_priority>

mvr vlan <v_vlan_list> frame tagged

mvr vlan <v_vlan_list> igmp-address <v_ipv4_ucast>

mvr vlan <v_vlan_list> last-member-query-interval <ipmc_lmqi>

mvr vlan <v_vlan_list> mode { dynamic | compatible }

Parameter

name	MVR multicast name
<word16>	MVR multicast VLAN name
channel	MVR channel configuration
<word16>	Profile name in 16 char's
frame	MVR control frame in TX
priority	Interface CoS priority
<0-7>	CoS priority ranges from 0 to 7
tagged	Tagged IGMP/MLD frames will be sent
igmp-address	MVR address configuration used in IGMP
<ipv4_ucast>	A valid IPv4 unicast address MVR multicast VLAN name
last-member-query-interval	Last Member Query Interval in tenths of seconds
<0-31744>	0 - 31744 tenths of seconds
mode	MVR mode of operation
dynamic	Dynamic MVR operation mode
compatible	Compatible MVR operation mode
vlan	MVR multicast vlan
<vlan_list>	MVR multicast VLAN list
channel	MVR channel configuration
<word16>	Profile name in 16 char's
frame	MVR control frame in TX
priority	Interface CoS priority
<0-7>	CoS priority ranges from 0 to 7
igmp-address	MVR address configuration used in IGMP

<ipv4_ucast> A valid IPv4 unicast address

<vlan_list> MVR multicast VLAN list

last-member-query-interval Last Member Query Interval in tenths of seconds

<0-31744> 0 - 31744 tenths of seconds

compatible Compatible MVR operation mode

EXAMPLE

```
AXIS T8508(config)# mvr vlan 10 mode dynamic
AXIS T8508(config)#
```

ntp

Configure NTP.

SYNTAX

ntp

ntp server <1-5> ip-address <hostname>

ntp server <1-5> ip-address <ipv4_ucast>

ntp server <1-5> ip-address <ipv6_ucast>

Parameter

server Configure NTP server

<1-5> index number

ip-address ip address

<ipv4_ucast> ipv4 address

<ipv6_ucast> ipv6 address

<hostname> domain name

EXAMPLE

```
AXIS T8508(config)# ntp server 3 ip-address 192.168.1.1
AXIS T8508(config)#
```

poe

Configure poe.

SYNTAX

poe management mode { class-consumption | class-reserved-power | allocation-consumption | allocation-reserved-power | lldp-consumption | lldp-reserved-power }

poe ping-check { enable | disable }

poe select-all <port_list>

Parameter

management	Use management mode to configure PoE power management method.
select-all	Configure PoE Schedule mode.
Ping-check	Enable/Disable POE Ping Check.
Mode	PoE Power Management Mode
allocation-consumption	Max. port power determined by allocated, and power is managed according to power consumption.
allocation-reserved-power	Max. port power determined by alocated, and power is managed according to reserved power.
class-consumption	Max. port power determined by class, and power is managed according to power consumption.
class-reserved-power	Max. port power determined by class, and power is managed according to reserved power.
lldp-consumption	Max. port power determined by LLDP Media protocol, and power is managed according to power consumption.
lldp-reserved-power	Max. port power determined by LLDP Media protocol, and power is managed according to reserved power.

EXAMPLE

```
AXIS T8508(config)# poe management mode allocation-consumption
AXIS T8508(config)# poe management mode allocation-reserved-power
AXIS T8508(config)# poe management mode class-consumption
AXIS T8508(config)# poe management mode class-reserved-power
AXIS T8508(config)# poe management mode lldp-consumption
AXIS T8508(config)# poe management mode lldp-reserved-power
AXIS T8508(config)# Poe ping-check enable
AXIS T8508(config)# Poe select-all 3
AXIS T8508(config)#
```

port-security

Enable/disable port security globally.

SYNTAX

port-security

port-security aging

port-security aging time <v_10_to_10000000>

Parameter

aging	Time in seconds between check for activity on learned MAC addresses.
time	Time in seconds between check for activity on learned MAC addresses.
<10-10000000>	seconds

EXAMPLE

```
AXIS T8508(config)# port-security agin time 1000
AXIS T8508(config)#
```

privilege

Command privilege parameters.

SYNTAX

privilege { exec | configure | config-vlan | line | interface | if-vlan | ipmc-profile | snmps-host | stp-aggr | dhcp-pool | rfc2544-profile } level <privilege> <cmd>

Parameter

config-vlan	VLAN Configuration Mode
configure	Global configuration mode
dhcp-pool	DHCP Pool Configuration Mode
exec	Exec mode
if-vlan	VLAN Interface Mode
interface	Port List Interface Mode

ipmc-profile IPMC Profile Mode

line Line configuration mode

rfc2544-profile RFC2544 Profile Mode

snmps-host SNMP Server Host Mode

stp-aggr STP Aggregation Mode

level Set privilege level of command

<LINE> Initial valid words and literals of the command to modify, in 128 char's

EXAMPLE

```
AXIS T8508(config)# privilege config-vlan level 10 LINE
AXIS T8508(config)# privilege configure level 10 LINE
AXIS T8508(config)# privilege dhcp-pool level 10 LINE
AXIS T8508(config)#
```

radius-server

Configure RADIUS.

SYNTAX

radius-server attribute 32 <line1-255>

radius-server attribute 4 <ipv4_ucast>

radius-server attribute 95 <ipv6_ucast>

radius-server deadtime <1-1440>

radius-server host { <word1-255> | <ipv4_ucast> | <ipv6_ucast> } [auth-port <0-65535>] [acct-port <0-65535>] [timeout <1-1000>] [retransmit <1-1000>] [key <line1-63>]

radius-server key <line1-63>

radius-server retransmit <1-1000>

radius-server timeout <1-1000>

Parameter

Attribute

deadtime	Time to stop using a RADIUS server that doesn't respond
host	Specify a RADIUS server
key	Set RADIUS encryption key
retransmit	Specify the number of retries to active server
timeout	Time to wait for a RADIUS server to reply
<Minutes : 1-1440>	Time in minutes
<Host4 : ipv4_ucast>	IPv4 address
<Host6 : ipv6_ucast>	IPv6 address
<HostName : word1-255>	Hostname
acct-port	UDP port for RADIUS accounting server
auth-port	UDP port for RADIUS authentication server
key	Server specific key (overrides default)
retransmit	Specify the number of retries to active server (overrides default)
timeout	Time to wait for this RADIUS server to reply (overrides default)
<AuthPort : 0-65535>	UDP port number
<Seconds : 1-1000>	Wait time in seconds
<Key : line1-63>	The shared key
<1-1000>	Number of retries for a transaction

EXAMPLE

```
AXIS T8508(config)# radius-server host device key 12
AXIS T8508(config)#
```

rmon

Remote Monitoring.

SYNTAX

rmon alarm <1-65535> <WORD> <1-2147483647> { absolute | delta } rising-threshold <-2147483648-2147483647> [<0-

65535>] falling-threshold <-2147483648-2147483647> [<0-65535>] { [rising | falling | both] }

rmon alarm <1-65535> { ifInOctets | ifInUcastPkts | ifInNUcastPkts | ifInDiscards | ifInErrors | ifInUnknownProtos | ifOutOctets | ifOutUcastPkts | ifOutNUcastPkts | ifOutDiscards | ifOutErrors } <uint> <1-2147483647> { absolute | delta } rising-threshold <-2147483648-2147483647> [<0-65535>] falling-threshold <-2147483648-2147483647> [<0-65535>] { [rising | falling | both] }

rmon event <1-65535> [log] [trap <word127>] { [description <line127>] }

Parameter

alarm	Configure an RMON alarm
event	Configure an RMON event
<1-65535>	Alarm entry ID
<WORD>	MIB object to monitor
<1-2147483647>	Sample interval
absolute	Test each sample directly
delta	Test delta between samples
rising-threshold	Configure the rising threshold
<-2147483648-2147483647>	rising threshold value
<0-65535>	Event to fire on rising threshold crossing
falling-threshold	Configure the falling threshold
<-2147483648-2147483647>	falling threshold value
rising	Trigger alarm when the first value is larger than the rising threshold
falling	Trigger alarm when the first value is less than the falling threshold
both	Trigger alarm when the first value is larger than the rising threshold or less than the falling threshold (default)
ifInOctets	The total number of octets received on the interface, including framing characters
ifInUcastPkts	The number of uni-cast packets delivered to a higher-layer protocol
ifInNUcastPkts	The number of broad-cast and multi-cast packets delivered to a higher-layer protocol
ifInDiscards	The number of inbound packets that are discarded even the packets are normal

ifInErrors The number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol

ifInUnknownProtos The number of the inbound packets that were discarded because of the unknown or un-support protocol

ifOutOctets The number of octets transmitted out of the interface , including framing characters

ifOutUcastPkts The number of uni-cast packets that request to transmit

ifOutNUcastPkts The number of broad-cast and multi-cast packets that request to transmit

ifOutDiscards The number of outbound packets that are discarded event the packets is normal

ifOutErrors The The number of outbound packets that could not be transmitted because of errors

<uint> ifIndex

<1-2147483647> Sample interval

absolute Test each sample directly

delta Test delta between samples

rising-threshold Configure the rising threshold

EXAMPLE

```
AXIS T8508(config)# rmon alarm 10000 ifInErrors 10 9999 absolute rising-
threshold 0 falling-threshold 0 both
AXIS T8508(config)#
```

sflow

Statistics flow

SYNTAX

sflow agent-ip { ipv4 <ipv4_addr> | ipv6 <ipv6_addr> }

sflow collector-address{ <ipv4_addr> | <ipv6_addr> }

sflow collector-port <1-65535>

sflow max-datagram-size [receiver <range_list>] <200-1468>

sflow timeout [receiver <range_list>] <0-2147483647>

Parameter

agent-ip	The agent IP address used as agent-address in UDP datagrams. Defaults to IPv4 loopback address.
Ipv4	ipv4 address
Ipv6	ipv6 address
<ipv4_addr>	ipv6 address
<ipv6_addr>	ipv4 address
collector-address	Collector address
collector-port	Collector UDP port
<1-65535>	Port Number
max-datagram-size	Maximum datagram size.
<200-1468>	Bytes
timeout	Receiver timeout measured in seconds. The switch decrements the timeout once per second, and as long as it is non-zero, the receiver receives samples. Once the timeout reaches 0, the receiver and all its configuration is reset to defaults.
<0-2147483647>	Number in seconds

EXAMPLE

```
AXIS T8508(config)# sflow agent-ip ipv4 192.168.1.2
AXIS T8508(config)# sflow collector-port 3
AXIS T8508(config)# sflow max-datagram-size 333
AXIS T8508(config)# sflow timeout 3333
AXIS T8508(config)#
```

system

Set the SNMP server's configurations

SYNTAX

system contact <v_line255>

system location <v_line255>

system name <v_line255>

Parameter

contact	Set the SNMP server's contact string
location	Set the SNMP server's location string
name	Set the SNMP server's system model name string
<line255>	Maximum number of 255 character strings

EXAMPLE

```
AXIS T8508(config)# system contact 222
AXIS T8508(config)# system location 333
AXIS T8508(config)# system name GE
AXIS T8508(config)#
```

tacacs-server

Configure TACACS+.

SYNTAX

tacacs-server deadtime <minutes>

tacacs-server host <host_name> [port <port>] [timeout <seconds>] [key <key>]

tacacs-server key <key>

tacacs-server timeout <seconds>

Parameter

deadtime	Time to stop using a TACACS+ server that doesn't respond
host	Specify a TACACS+ server

key	Set TACACS+ encryption key
timeout	Time to wait for a TACACS+ server to reply
<Minutes : 1-1440>	Time in minutes
<Key : line1-63>	The shared key
<Seconds : 1-1000>	Wait time in seconds
<word1-255>	Hostname
<ipv4_ucast>	IPv4 address
<ipv6_ucast>	IPv6 address
port	TCP port for TACACS+ server
<0-65535>	TCP port number

EXAMPLE

```
AXIS T8508(config)# tacacs-server deadtime 300
AXIS T8508(config)# tacacs-server host 192.168.1.2
AXIS T8508(config)# tacacs-server key 33
AXIS T8508(config)# tacacs-server timeout 300
AXIS T8508(config)#
```

upnp

Set UPnP's configurations.

SYNTAX

upnp

upnp advertising-duration <100-86400>

upnp ttl <1-255>

Parameter

advertising-duration	Set advertising duration

ttl	Set TTL value
<100-86400>	advertising duration
<1-255>	TTL value

EXAMPLE

```
AXIS T8508(config)# upnp advertising-duration 8 AXIS
T8508(config)# upnp ttl 25
AXIS T8508(config)#
```

username

Establish User Name Authentication.

SYNTAX

username <username> privilege <priv> password encrypted <encry_password>

username <username> privilege <priv> password none

username <username> privilege <priv> password unencrypted <password>

Parameter

<Username : word31>	User name allows letters, numbers and underscores
privilege	Set user privilege level
<privilegeLevel : 0-15>	User privilege level
password	Specify the password for the user
encrypted	Specifies an ENCRYPTED password will follow
none	NULL password
unencrypted	Specifies an UNENCRYPTED password will follow
<Password : line31>	The UNENCRYPTED (Plain Text) user password. Any printable characters including space is accepted. Notice that you have no change to get the Plain Text password after this command. The system will always

display the ENCRYPTED password.

<Password : word4-44> The ENCRYPTED (hidden) user password. Notice the ENCRYPTED password will be decoded by system internally. You cannot directly use it as same as the Plain Text and it is not human-readable text normally.

EXAMPLE

```
AXIS T8508(config)# username jefferson privilege 15
password none
```

vlan

VLAN commands.

SYNTAX

vlan <vlan_list>

vlan ethertype s-custom-port <0x0600-0xffff>

vlan protocol { { eth2 { <0x600-0xffff> | arp | ip | ipx | at } } | { snap { <0x0-0xffffff> | rfc_1042 | snap_8021h } <0x0-0xffff> } | { llc <0x0-0xff> <0x0-0xff> } } group <word16>

Parameter

<vlan_list> ISL VLAN IDs 1-4095

ethertype Ether type for Custom S-ports

protocol Protocol-based VLAN commands

s-custom-port Custom S-ports configuration

<0x0600-0xffff> Ether type (Range: 0x0600-0xffff>

eth2 Ethernet-based VLAN commands

<0x600-0xffff> Ether Type(Range: 0x600 - 0xFFFF)

arp Ether Type is ARP

ip	Ether Type is IP
ipx	Ether Type is IPX
at	Ether Type is AppleTalk
snap	SNAP-based VLAN group
<0x0-0xffffff>	SNAP OUI (Range 0x000000 - 0XFFFFFF)
rfc_1042	SNAP OUI is rfc_1042
snap_8021h	SNAP OUI is 8021h
<0x0-0xffff>	PID (Range: 0x0 - 0xFFFF)
llc	LLC-based VLAN group
<0x0-0xff>	DSAP (Range: 0x00 - 0xFF)
<0x0-0xff>	SSAP (Range: 0x00 - 0xFF)
group	Protocol-based VLAN group commands
<word16>	Group Name (Range: 1 - 16 characters)

EXAMPLE

```
AXIS T8508(config)# vlan ethertype s-custom-port
0x1111
AXIS T8508(config)# vlan protocol eth2 arp group 123
AXIS T8508(config)#
```

voice

Voice appliance attributes.

SYNTAX

voice vlan

voice vlan aging-time <aging_time>

voice vlan class { <traffic_class> | low | normal | medium | high }

voice vlan oui <oui> [description <description>]

voice vlan vid <vid>

Parameter

advertising-duration	Set advertising duration
vlan	Vlan for voice traffic
aging-time	Set secure learning aging time
<10-10000000>	Aging time, 10-10000000 seconds
class	Set traffic class
<0-7>	Traffic class value
oui	OUI configuration
<oui>	OUI value
description	Set description for the OUI
<line32>	Description line
vid	Set VLAN ID
<vlan_id>	VLAN ID, 1-4095

EXAMPLE

```
AXIS T8508(config)# voice vlan aging-time 3333
AXIS T8508(config)# voice vlan class 7
AXIS T8508(config)# voice vlan vid 3333
AXIS T8508(config)#
```

web

Web.

SYNTAX

web privilege group <CWORD> level { [cro <0-15>] [crw <0-15>] [sro <0-15>] [srw <0-15>] }

Parameter

privilege	Web privilege
group	Web privilege group

CWORD	Valid words are 'Aggregation' 'Debug' 'Dhcp_Client' 'Green_Ethernet' 'IP2' 'IPMC_Snooping' 'LACP' 'LLDP' 'Loop_Protect' 'MAC_Table' 'MEP' 'MVR' 'Maintenance' 'Mirroring' 'NTP' 'POE' 'Ports' 'Private_VLANs' 'QoS' 'RPC' 'Security' 'Spanning_Tree' 'System' 'Timer' 'UPnP' 'VCL' 'VLAN_Translation' 'VLANs' 'Voice_VLAN' 'sFlow'
level	Web privilege group level
cro	Configuration Read-only level
crw	Configuration Read-write level
sro	Status/Statistics Read-only level
srw	Status/Statistics Read-write level

EXAMPLE

```
AXIS T8508(config)# web privilege group ptp level
sro 10
```

access-list

Table : configure – access-list Commands

Command	Function
ace	Access list entry
rate-limiter	Rate limiter

rate-limiter

Rate limiter.

SYNTAX

access-list rate-limiter [<1~16>] { pps <0-3276700> | 100kbps <0-10000> }

Parameter

100kbps 100k bits per second

<RateLimiterList : 1~16> Rate limiter ID

<PpsRate : 0-3276700> Rate value

<0-10000> Rate value

EXAMPLE

```
AXIS T8508(config)# access-list rate-limiter 100kbps
111
AXIS T8508(config)#
```

ace

Access list entry.

SYNTAX

access-list ace{ update<1-256> | <1-256> } [action< deny | filter | permit >]

access-list ace{ update<1-256> | <1-256> } [dmac-type < any | broadcast | multicast | unicast >]

access-list ace{ update<1-256> | <1-256> } [frametype < any | arp | etype | ipv4 | ipv4-icmp | ipv4-tcp | ipv4-udp | ipv6 | ipv6-icmp | ipv6-tcp | ipv6-udp >]

access-list ace{ update<1-256> | <1-256> } [ingress] [ingress interface { <port_type> <port_type_id> | <port_type> <port_type_list> } | any }]

access-list ace{ update<1-256> | <1-256> } [logging [disable]]

access-list ace{ update<1-256> | <1-256> } [lookup [disable]]

access-list ace{ update<1-256> | <1-256> } [mirror [disable]]

access-list ace{ update<1-256> | <1-256> } [next { <1-256> | last }]

access-list ace{ update<1-256> | <1-256> } [policy <0-255> [policy-bitmask <0x0-0xFF>]]

access-list ace{ update<1-256> | <1-256> } [rate-limiter { <1-16> | disable }]

access-list ace{ update<1-256> | <1-256> } [redirect | interface { <port_type> <port_type_id> | <port_type> <port_type_list> } | disable }]

access-list ace{ update<1-256> | <1-256> } [shutdown]

access-list ace{ update<1-256> | <1-256> } [tag { tagged | untagged | any }]

access-list ace{ update<1-256> | <1-256> } [tag-priority { <0-7> | any }]

access-list ace{ update<1-256> | <1-256> }[vid { <1-4095> | any }]

Parameter

action	Access list action
dmac-type	The type of destination MAC address
frametype	Frame type
ingress	Ingress
logging	Logging frame information
lookup	Second lookup
mirror	Mirror frame to destination mirror port
next	insert the current ACE before the next ACE ID
policy	Policy
rate-limiter	Rate limiter
redirect	Redirect frame to specific port

shutdown	Shutdown incoming port
tag	Tag
tag-priority	Tag priority
vid	VID field
deny	Deny
filter	Filter
permit	Permit
any	Don't-care the type of destination MAC address
broadcast	Broadcast destination MAC address
multicast	Multicast destination MAC address
unicast	Unicast destination MAC address
any	Don't-care the frame type
arp	Frame type of ARP
etype	Frame type of etype
ipv4	Frame type of IPv4
ipv4-icmp	Frame type of IPv4 ICMP
ipv4-tcp	Frame type of IPv4 TCP
ipv4-udp	Frame type of IPv4 TCP
ipv6	Frame type of IPv4
ipv6-icmp	Frame type of IPv6 ICMP
ipv6-tcp	Frame type of IPv6 TCP
ipv6-udp	Frame type of IPv6 UDP
interface	Select an interface to configure
<port_type>	Gigabitethernet
*****	All switches or All ports
Gigabitethernet	1 Gigabit Ethernet port

<port_type_id>	Port ID in the format of switch-no/port-no ex, 1/1-26 for Gigabitethernet
<port_type>	* or Gigabitethernet
*	All Switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26
any	Don't-care the ingress interface
<0-255>	Policy ID
policy-bitmask	The bitmask for policy ID
<0x0-0xFF>	The value of policy bitmask
<1-4095>	The value of VID field
<0-7>	The value of tag priority

EXAMPLE

```
AXIS T8508(config)# access-list ace 10 action deny
AXIS T8508(config)#
```

no

Negate a command or set its defaults

Table : configure – no Commands

Command	Function
aaa	Authentication, Authorization and Accounting
access	Access management
access-list	Access list
aggregation	Aggregation mode
banner	Define a login banner
clock	Configure time-of-day clock
dot1x	IEEE Standard for port-based Network Access Control
enable	Modify enable password parameters
gvrp	Enable GVRP feature
hostname	Set system's network name
interface	none
ip	Internet Protocol

ipmc	IPv4/IPv6 multicast configuration
ipv6	IPv6 configuration commands
lacp	LACP settings
lldp	LLDP configurations.
logging	Syslog
loop-protect	Loop protection configuration
mac	MAC table entries/configuration
monitor	Set monitor configuration.
mvr	Multicast VLAN Registration configuration
ntp	Configure NTP
poe	Power Over Ethernet
port-security	Enable/disable port security globally.
Privilege	Command privilege parameters
qos	Quality of Service
radius-server	Configure RADIUS
rmon	Remote Monitoring
sflow	Statistics flow.
snmp-server	Enable SNMP server
spanning-tree	STP Bridge
system	Set the SNMP server's configurations
tacacs-server	Configure TACACS+
upnp	Set UPnP's configurations
username	Establish User Name Authentication
vlan	Vlan commands
voice	Voice appliance attributes
web	Web

aaa

Authentication, Authorization and Accounting

SYNTAX

no aaa authentication login { console | telnet | ssh | http }

Parameter

authentication	Authentication
login	Login

console Disable Console

http Disable HTTP

ssh Disable SSH

telnet Disable Telnet

EXAMPLE

```
AXIS T8508(config)# no aaa authentication  login ssh
AXIS T8508(config)#
```

access

Access management

SYNTAX

no access management [<1~16>]

no access management

Parameter

management Access management configuration

<1~16> ID of access management entry

EXAMPLE

```
AXIS T8508(config)# no access management
AXIS T8508(config)#
```

access-list

Access list

SYNTAX

no access-list ace <1~256>

Parameter

ace Access list entry

<AceId : 1-256> ACE ID

EXAMPLE

```
AXIS T8508(config)# access-list ace 1
AXIS T8508(config)#
```

aggregation

Aggregation mode

SYNTAX

no aggregation mode

Parameter

mode Traffic distribution mode

EXAMPLE

```
AXIS T8508(config)# no aggregation mode
AXIS T8508(config)#
```

banner

Define a login banner

SYNTAX

no banner [motd]

no banner exec

no banner login

Parameter

exec Set EXEC process creation banner

login Set login banner

motd Set Message of the Day banner

EXAMPLE

```
AXIS T8508(config)# no banner login
AXIS T8508(config)#
```

clock

Configure time-of-day clock

SYNTAX

no clock summer-time

no clock timezone

Parameter

summer-time	Configure summer (daylight savings) time
timezone	Configure time zone

EXAMPLE

```
AXIS T8508(config)# no clock summer-time
AXIS T8508(config)# no clock timezone
AXIS T8508(config)#
```

dot1x

IEEE Standard for port-based Network Access Control

SYNTAX

no dot1x authentication timer inactivity

no dot1x authentication timer re-authenticate

no dot1x feature { [guest-vlan] [radius-qos] [radius-vlan] }

no dot1x guest-vlan [supplicant]

no dot1x max-reauth-req

no dot1x re-authentication

no dot1x system-auth-control

no dot1x timeout quiet-period

no dot1x timeout tx-period

Parameter

authentication	Authentication
feature	Globally enables/disables a dot1x feature functionality
guest-vlan	Guest VLAN
max-reauth-req	The number of time a Request Identity EAPOL frame is sent without response before considering entering the Guest VLAN.
re-authentication	Set Re-authentication state
system-auth-control	Set the global NAS state
timeout	timeout
timer	timer
inactivity	Time in seconds between check for activity on successfully authenticated MAC addresses.
re-authenticate	The period between re-authentication attempts in seconds
guest-vlan	Globally enables/disables state of guest-vlan
radius-qos	Globally enables/disables state of RADIUS-assigned QoS.
radius-vlan	Globally enables/disables state of RADIUS-assigned VLAN.
supplicant	The switch remembers if an EAPOL frame has been received on the port for the life-time of the port. Once the switch considers whether to enter the Guest VLAN, it will first check if this option is enabled or disabled. If disabled (unchecked; default), the switch will only enter the Guest VLAN if an EAPOL frame has not been received on the port for the life-time of the port. If enabled (checked), the switch will consider entering the Guest VLAN even if an EAPOL frame

has been received on the port for the life-time of the port.

quiet-period Time in seconds before a MAC-address that failed authentication gets a new authentication chance.

tx-period the time between EAPOL retransmissions.

EXAMPLE

```
AXIS T8508(config)# no dot1x authentication timer inactivity
AXIS T8508(config)# no dot1x feature guest-vlan radius-qos radius-vlan
AXIS T8508(config)# no dot1x guest-vlan supplicant
AXIS T8508(config)# no dot1x max-reauth-req
AXIS T8508(config)# no dot1x re-authentication
AXIS T8508(config)# no dot1x system-auth-control
AXIS T8508(config)# no dot1x timeout tx-period
```

enable

Modify enable password parameters

SYNTAX

no enable password [level <1-15>]

no enable secret [0|5 { level <1-15> }]

Parameter

password Assign the privileged level clear password

secret Assign the privileged level secret

0 Specifies an UNENCRYPTED password will follow

5 Specifies an ENCRYPTED password will follow

level Set exec level password

<1-15> Level number

EXAMPLE

```
AXIS T8508(config)# no enable secret level 15
AXIS T8508(config)# no enable password level 15
AXIS T8508(config)#
```

gvrp

Enable GVRP feature.

SYNTAX

gvrp

gvrp max-vlans <maxvlans>

gvrp time { [join-time <jointime>] [leave-time <leavetime>] [leave-all-time <leavealltime>] }*1

Parameter

max-vlans	Number of simultaniously VLANs that GVRP can control
time	Config GARP protocol timer parameters. IEEE 802.1D-2004, clause 12.11.
join-time	Set GARP protocol parameter JoinTime. See IEEE 802.1D-2004, clause 12.11
leave-all-time	Set GARP protocol parameter LeaveAllTime. See IEEE 802.1D-2004, clause 12.11
leave-time	Set GARP protocol parameter LeaveTime. See IEEE 802.1D-2004, clause 12.11

EXAMPLE

```
AXIS T8508(config)#no gvrp max-vlans 1
AXIS T8508(config)#no gvrp time join-time 10
AXIS T8508(config)#no gvrp time leave-all-time 2000
AXIS T8508(config)#no gvrp time leave-time 70
AXIS T8508(config)#
```

hostname

Set system's network name.

SYNTAX

no hostname

EXAMPLE

```
AXIS T8508(config)# no hostname
AXIS T8508(config)#
```

interface

SYNTAX

no interface vlan < vlan_list >

Parameter

vlan Vlan interface configurations

<vlan_list> Vlan list

EXAMPLE

```
AXIS T8508(config)# no interface vlan 10
AXIS T8508(config)#
```

Ip

Set system's network name.

SYNTAX

no ip arp inspection

no ip arp inspection entry interface Gigabitethernet <port_type_id> <vlan_id> <mac_ucast> <ipv4_ucast>

no ip arp inspection vlan <vlan_list> [logging]

no dhcp execluded-address [<ip_address> [<ip_address>]]

no dhcp pool <WORD>

no ip dhcp relay [information {option| policy }]

no ip dhcp server

no ip dhcp snooping

no ip dns proxy

no ip helper-address

no ip http secure-redirect

no ip http secure-server

no ip igmp host-proxy [leave-proxy]

no ip igmp snooping

no ip igmp snooping vlan [<vlan_list>]

no ip igmp ssm-range

no ip igmp unknown-flooding

no ip name-server

no ip route <ipv4_addr> <ipv4_netmask> <ipv4_addr>

no ip routing

no ip source binding interface Gigabitethernet <port_type_id> <vlan_id> <ipv4_ucast>{ <ipv4_netmask>|<mac_ucast>}

no ip ssh

no ip verify source

Parameter

arp	Address Resolution Protocol
inspection	ARP inspection
entry	arp inspection entry
interface	arp inspection entry interface config
GigabitEthernet	1 Gigabit Ethernet Port
<port_type_id>	Port ID in the format of switch-no/port-no, 1/1-26 for Gigabitetherne
<vlan_id>	Select a VLAN id to configure
<mac_ucast>	Select a MAC address to configure
<ipv4_ucast>	Select an IP Address to configure
vlan	arp inspection vlan setting
<vlan_list>	arp inspection vlan list

logging	ARP inspection vlan logging mode config
dhcp	Dynamic Host Configuration Protocol
excluded-address	Prevent DHCP from assigning certain address
<ip_address>	Low IP address and High IP address
<WORD>	Pool name in 32 characters
pool	Configure DHCP address pools
relay	DHCP relay agent configuration
server	enable DHCP server
snoping	DHCP snooping
information	DHCP information option(Option 82)
option	DHCP option
policy	Policy for handling the receiving DHCP packet already include the information option
snooping	DHCP snooping
dns	Domain Name System
proxy	DNS proxy service
helper-address	None.
http	Hypertext Transfer Protocol
secure-redirect	Secure HTTP web rediction
secure-server	Secure HTTP web server
igmp	Internet Group Management Protocol
host-proxy	IGMP proxy configuration
leave-proxy	IGMP proxy for leave configuration
snooping	Snooping IGMP
vlan	IGMP VLAN
<vlan_list>	VLAN identifier(s): VID
ssm-range	IPv4 address range of Source Specific Multicast

unknown-flooding	Flooding unregistered IPv4 multicast traffic
name-server	Domain Name System
Route	none
<ipv4_addr>	Network
<ipv4_netmask>	Netmask
<ipv4_gateway>	Gateway
routing	Disable routing for IPv4 and IPv6
source	source command
binding	ip source binding
interface	ip source binding entry interface config
Gigabitethernet	1 Gigabitethernet port
<port_type_id>	Port ID in the format of switch-no/port-no, ex., 1/1-26 for Gigabitethernet
<vlan_id>	Select a VLAN id to configure
<ipv4_ucast>	Select an IP Address to configure
<ipv4_netmask>	Select a subnet mask to configure
<mac_ucast>	Select a MAC address to configure
ssh	Secure Shell
verify	verify command
source	verify source

EXAMPLE

```
AXIS T8508(config)# no ip arp inspection vlan 3 logging
AXIS T8508(config)# no ip dhcp relay information option
AXIS T8508(config)# no ip dns proxy
AXIS T8508(config)# no ip helper-address
AXIS T8508(config)# no ip http secure-redirect
AXIS T8508(config)# no ip igmp snooping
AXIS T8508(config)# no ip name-server
AXIS T8508(config)# no ip routing
AXIS T8508(config)# no ip ssh
AXIS T8508(config)# no ip verify source
AXIS T8508(config)#
```

ipmc

IPv4/IPv6 multicast configuration

SYNTAX

no ipmc profile <Profilename : word16>

no ipmc range <Entryname : word16>

Parameter

profile	IPMC profile configuration
<Profilename : word16>	Profile name in 16 char's
range	A range of IPv4/IPv6 multicast addresses for the profile
<Entryname : word16>	Range entry name in 16 char's

EXAMPLE

```
AXIS T8508(config)# no ipmc profile
```

ipv6

IPv6 configuration commands

SYNTAX

no ipv6 mld host-proxy [leave-proxy]

no ipv6 mld snooping

no ipv6 mld snooping [vlan <vlan_list>]

no ipv6 mld ssm-range

no ipv6 mld unknown-flooding

no ipv6 route <ipv6_subnet> { <ipv6_ucast> | interface vlan <vlan_id> <ipv6_linklocal> }

Parameter

mld	Multicasat Listener Discovery
host-proxy	MLD proxy configuration
leave-proxy	MLD proxy for leave configuration
snooping	Snooping MLD
vlan	MLD VLAN
<vlan_list>	VLAN identifier(s): VID
ssm-range	IPv6 address range of Source Specific Multicast
unknown-flooding	Flooding unregistered IPv6 multicast traffic
route	Configure static routes
<ipv6_subnet>	IPv6 prefix x:x::y/z
<ipv6_ucast>	IPv6 unicast address (except link-local address) of next-hop
interface	Select an interface to configure
vlan	VLAN Interface
<vlan_id>	VLAN identifier(s): VID
<ipv6_linklocal>	IPv6 link-local address of next-hop

EXAMPLE

```
AXIS T8508(config)# no ipv6 mld snooping
AXIS T8508(config)#
```

lacp

LACP settings

SYNTAX

no lacp system-priority <1-65535>

Parameter

system-priority System priority

<1-65535> Priority value, lower means higher priority

EXAMPLE

```
AXIS T8508(config)# no lacp system-priority 10000
AXIS T8508(config)#
```

lldp

LLDP configurations..

SYNTAX

no lldp holdtime

no lldp med datum

no lldp med fast

no lldp med location-tlv altitude

no lldp med location-tlv civic-addr { country | state | county | city | district | block | street | leading-street-direction | trailing-street-suffix | street-suffix | house-no | house-no-suffix | landmark | additional-info | name | zip-code | building | apartment | floor | room-number | place-type | postal-community-name | p-o-box | additional-code }

no lldp med location-tlv elin-addr

no lldp med location-tlv latitude

no lldp med location-tlv longitude

no lldp med media-vlan-policy <0~31>

no lldp reinit

no lldp timer

no lldp transmission-delay

Parameter

holdtime	Sets LLDP hold time (The neighbor switch will discarded the LLDP information after "hold time" multiplied with "timer" seconds).
med	Media Endpoint Discovery.
reinit	Sets LLDP reinitialization delay.
timer	Sets LLDP TX interval (The time between each LLDP frame transmitted in seconds).
tlv-select	Which optional TLVs to transmit.
transmission-delay	Sets LLDP transmision-delay. LLDP transmission delay (the amount of time that the transmission of LLDP frames will delayed after LLDP configuration has changed) in seconds.)
datum	Set datum to default value.
fast	Set fast repeat count to default value.
location-tlv	LLDP-MED Location Type Length Value parameter.
media-vlan-policy	Use the media-vlan-policy to create a policy, which can be assigned to an interface.
altitude	Setting altitude to default.
civic-addr	Civic address information and postal information
elin-addr	Set elin address to default value.

latitude	Setting Latitude parameter to default.
longitude	Setting longitude to default.
additional-code	Additional code - Example: 1320300003.
additional-info	Additional location info - Example: South Wing.
apartment	Unit (Apartment, suite) - Example: Apt 42.
block	Neighbourhood, block.
building	Building (structure) - Example: Low Library.
city	City, township, shi (Japan) - Example: Copenhagen.
country	The two-letter ISO 3166 country code in capital ASCII letters - Example: DK, DE or US.
county	County, parish, gun (Japan), district.
district	City division, borough, city district, ward, chou (Japan).
floor	Floor - Example: 4.
house-no	House number - Example: 21.
house-no-suffix	House number suffix - Example: A, 1/2.
landmark	Landmark or vanity address - Example: Columbia University.
leading-street-direction	Leading street direction - Example: N.
name	Name (residence and office occupant) - Example: Flemming Jahn.
p-o-box	Post office box (P.O. BOX) - Example: 12345.
place-type	Place type - Example: Office.
postal-community-name	Postal community name - Example: Leonia.
room-number	Room number - Example: 450F.
state	National subdivisions (state, canton, region, province, prefecture).
street	Street - Example: Poppelvej.
street-suffix	Street suffix - Example: Ave, Platz.
trailing-street-suffix	Trailing street suffix - Example: SW.

zip-code	Postal/zip code - Example: 2791.
<0~31>	Policy to delete.

EXAMPLE

```
AXIS T8508(config)# no lldp holdtime
AXIS T8508(config)# no lldp med location-tlv civic-addr floor
AXIS T8508(config)# no lldp reinit
AXIS T8508(config)# no lldp timer
AXIS T8508(config)# no lldp transmission-delay
AXIS T8508(config)#
```

logging

Syslog.

SYNTAX

no logging host

no logging on

Parameter

host	host
on	Enable syslog server

EXAMPLE

```
AXIS T8508(config)# no logging host
AXIS T8508(config)# no logging on
AXIS T8508(config)#
```

loop-protect

Loop protection configuration

SYNTAX

no loop-protect

no loop-protect shutdown-time

no loop-protect transmit-time

Parameter

shutdown-time	Loop protection shutdown time interval
transmit-time	Loop protection transmit time interval

EXAMPLE

```
AXIS T8508(config)# no loop-protect shutdown-time
AXIS T8508(config)# no loop-protect transmit-time
AXIS T8508(config)#
```

mac

MAC table entries/configuration

SYNTAX

no mac address-table aging-time [<0,10-1000000>]

no mac address-table static <mac_addr> vlan <vlan_id> interface {* | Gigabitethernet [<port_type_list>]}

Parameter

address-table	Mac table entries configuration/table
aging-time	Mac address aging time
<0,10-1000000>	Aging time in seconds, 0 disables aging
static	Static MAC address
<mac_addr>	48 bit MAC address: xx:xx:xx:xx:xx:xx
vlan	VLAN keyword
<vlan_id>	VLAN IDs 1-4095
interface	Select an interface to configure
Gigabitethernet	1 Gigabit Ethernet port

<port_type_list> Port list in 1/1-26 for Gigaethernet

EXAMPLE

```
AXIS T8508(config)# no mac address-table aging-time 10000
AXIS T8508(config)#
```

monitor

Set monitor configuration.

SYNTAX

no monitor destination

no monitor source { interface Gigabitethernet <port_type_list> | cpu}

Parameter

Destination

source The source port(s). That is the ports to be mirrored to the destination port.l

cpu Mirror CPU traffic.

interface Mirror Interface traffic.

Gigabitethernet 1 Gigabit Ethernet Port

<port_type_list> Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508(config)# no monitor destination
AXIS T8508(config)# no monitor source cpu
AXIS T8508(config)#
```

mvr

Multicast VLAN Registration configuration.

SYNTAX

no mvr

no mvr name <word16> channel

no mvr name <word16> frame priority

no mvr name <word16> frame tagged

no mvr name <word16> igmp-address

no mvr name <word16> last-member-query-interval

no mvr name <word16> mode

no mvr vlan <vlan_list>

no mvr vlan <vlan_list> channel

no mvr vlan <vlan_list> frame priority

no mvr vlan <vlan_list> frame tagged

no mvr vlan <vlan_list> igmp-address

no mvr vlan <vlan_list> last-member-query-interval

no mvr vlan <vlan_list> mode [{channel | frame | igmp-address | last-member-query-interval}

Parameter

name	MVR multicast name
<word16>	MVR multicast VLAN name
channel	MVR channel configuration
frame	MVR control frame in TX
priority	Interface CoS priority
tagged	Tagged IGMP/MLD frames will be sent
igmp-address	MVR address configuration used in IGMP
last-member-query-interval	Last Member Query Interval in tenths of seconds
mode	MVR mode of operation
vlan	MVR multicast vlan
<vlan_list>	MVR multicast VLAN list

EXAMPLE

```
AXIS T8508(config)# no mvr vlan 12 mode
AXIS T8508(config)#
```

ntp

Configure NTP.

SYNTAX

no ntp

no ntp server <1-5>

Parameter

server	Configure NTP server
<1-5>	index number

EXAMPLE

```
AXIS T8508(config)# no ntp server 2
AXIS T8508(config)#
```

port-security

Enable/disable port security globally.

SYNTAX

no port-security

no port-security aging

no port-security aging time

Parameter

aging	Enable/disable port security aging.
time	Time in seconds between check for activity on learned MAC addresses.

EXAMPLE

```
AXIS T8508(config)# no port-security aging time
AXIS T8508(config)#
```

radius-server

Configure RADIUS.

SYNTAX

no radius-server attribute {32 | 4 | 95}

no radius-server deadtime

no radius-server host { <word1-255> | <ipv4_ucast> | <ipv6_ucast> } [auth-port <0-65535>] [acct-port <0-65535>]

no radius-server key

no radius-server retransmit

no radius-server timeout

Parameter

Attribute

deadtime	Time to stop using a RADIUS server that doesn't respond
host	Specify a RADIUS server
key	Set RADIUS encryption key
retransmit	Specify the number of retries to active server
timeout	Time to wait for a RADIUS server to reply

EXAMPLE

```
AXIS T8508(config)# no radius-server attribute 4
AXIS T8508(config)# no radius-server deadtime
AXIS T8508(config)# no radius-server key
AXIS T8508(config)# no radius-server retransmit
AXIS T8508(config)# no radius-server timeout
AXIS T8508(config)#
```

rmon

Remote Monitoring.

SYNTAX

no rmon alarm <alarm : 1-65535>

no rmon event<event : 1-65535>

Parameter

alarm	Configure an RMON alarm
event	Configure an RMON event
<alarm : 1-65535>	Alarm entry ID
<event: 1-65535>	Event entry ID

EXAMPLE

```
AXIS T8508(config)# no rmon alarm 1000
AXIS T8508(config)#
```

sflow

Statistics flow.

SYNTAX

no sflow agent-ip

no sflow collector-address

no sflow collector-port

no sflow max-datagram-size

no sflow timeout

Parameter

agent-ip	Sets the agent IP address used as agent-address in UDP datagrams to 127.0.0.1.
collector-address	Collector address

collector-port	Collector UDP port
max-datagram-size	Maximum datagram size.
timeout	Receiver timeout measured in seconds. The switch decrements the timeout once per second, and as long as it is non-zero, the receiver receives samples. Once the timeout reaches 0, the receiver and all its configuration is reset to defaults.

EXAMPLE

```
AXIS T8508(config)# no sflow agent-ip
AXIS T8508(config)# no sflow collector-address
AXIS T8508(config)# no sflow collector-port
AXIS T8508(config)# no sflow max-datagram-size
AXIS T8508(config)# no sflow timeout
AXIS T8508(config)#
```

snmp-server

Enable SNMP server.

SYNTAX

no snmp-server

no snmp-server access <Groupname : word32> model { v1 | v2c | v3 | any } level { auth | noauth | priv }

no snmp-server community v2c

no snmp-server community v3 <Community : word127>

no snmp-server contact

no snmp-server engined-id local

no snmp-server host <Conf : word32>

no snmp-server location

no snmp-server security-to-group model { v1 | v2c | v3 } name <Securityname : word32>

no snmp-server trap

no snmp-server user <Username : word32> engine-id <Engineid : word10-32>

no snmp-server version

no snmp-server view <Viewname : word32> <Oidsubtree : word255>

Parameter

access	access configuration
<Groupname : word32>	group name
model	security model
v1	v1 security model
v2c	v2c security model
v3	v3 security model
any	any security model
level	security level
auth	authNoPriv Security Level
noauth	noAuthNoPriv Security Level
priv	authPriv Security Level
community	Set the SNMP community
contact	Clear the SNMP server's contact string
engined-id	Set SNMP engine ID
host	Set SNMP host's configurations
location	Clear the SNMP server's location string
security-to-group	security-to-group configuration
trap	Set trap's configurations
user	user who can access SNMP server
version	Set the SNMP server's version
view	MIB view configuration

<Community : word127>

local Set SNMP local engine ID

<ConfName : word32> Name of the host configuration

model security model

v1 v1 security model

v2c v2c security model

v3 v3 security model

name security user

<SecurityName : word32> security user name

<Username : word32> name of user

engine-id engine ID

<Engineid : word10-32> engine ID octet string

<Viewname : word32>MIB view name

<Oidsubtree : word255> MIB view OID

EXAMPLE

```
AXIS T8508(config)# no snmp-server access 333 model any level auth
AXIS T8508(config)# no snmp-server community v2c
AXIS T8508(config)# no snmp-server engined-id local
AXIS T8508(config)# no snmp-server host 333
AXIS T8508(config)# no snmp-server location
AXIS T8508(config)# no snmp-server security-to-group model v2c name
132
AXIS T8508(config)# no snmp-server trap
AXIS T8508(config)# no snmp-server version
AXIS T8508(config)#
```

spanning-tree

STP Bridge.

SYNTAX

no spanning-tree edge bpdu-filter

no spanning-tree edge bpdu-guard

no spanning-tree mode

no spanning-tree mst <instance> priority

no spanning-tree mst <instance> vlan

no spanning-tree mst forward-time

no spanning-tree mst max-age

no spanning-tree mst max-hops

no spanning-tree mst name

no spanning-tree recovery interval

no spanning-tree transmit hold-count

Parameter

edge	Edge ports
mode	STP protocol mode
mst	STP bridge instance
recovery	The error recovery timeout
transmit	BPDUs to transmit
bpdu-filter	Enable BPDU filter (stop BPDU tx/rx)
bpdu-guard	Enable BPDU guard
<Instance : 0-7>	instance 0-7 (CIST=0, MST2=1...)
priority	Priority of the instance
forward-time	Delay between port states
max-age	Max bridge age before timeout
max-hops	MSTP bridge max hop count
name	Name keyword

vlan	VLAN keyword
interval	The interval
hold-count	Max number of transmit BPDUs per sec
<Holdcount : 1-10>	1-10 per sec, 6 is default

EXAMPLE

```
AXIS T8508(config)# no spanning-tree edge bpdu-filter
AXIS T8508(config)# no spanning-tree mode
AXIS T8508(config)# no spanning-tree mst max-age
AXIS T8508(config)# no spanning-tree recovery interval
AXIS T8508(config)# no spanning-tree transmit hold-count
AXIS T8508(config)#
```

tacacs-server

Configure TACACS+.

SYNTAX

no tacacs-server deadtime

no tacacs-server host <host_name> [port <port>]

no tacacs-server key

no tacacs-server timeout

Parameter

deadtime	Time to stop using a TACACS+ server that doesn't respond
host	Specify a TACACS+ server
<Hostname : word1-255>	Host name or IP address
key	Set TACACS+ encryption key
timeout	Time to wait for a TACACS+ server to reply
key	Server specific key (overrides default)
port	TCP port for TACACS+ server
timeout	Time to wait for this TACACS+ server to reply (overrides default)

<Port : 0-65535> TCP port number

EXAMPLE

```
AXIS T8508(config)# no tacacs-server deadtime
AXIS T8508(config)# no tacacs-server host 192.168.1.1 port 10000
AXIS T8508(config)# no tacacs-server key
AXIS T8508(config)# no tacacs-server timeout
AXIS T8508(config)#
```

upnp

Set UPnP's configurations.

SYNTAX

no upnp

no upnp advertising-duration

no upnp ttl

Parameter

advertising-duration Set advertising duration

ttl Set TTL value

EXAMPLE

```
AXIS T8508(config)# no upnp advertising-duration
AXIS T8508(config)# no upnp ttl
AXIS T8508(config)#
```

username

Establish User Name Authentication.

SYNTAX

no username <Username : word31>

Parameter

<Username : word31> User name allows letters, numbers and underscores

EXAMPLE

```
AXIS T8508(config)# no username admin
AXIS T8508(config)#
```

vlan

Vlan commands.

SYNTAX

no vlan protocol { { eth2 { <0x600-0xffff> | arp | ip | ipx | at } } | { snap { <0x0-0xffffff> | rfc_1042 | snap_8021h } <0x0-0xffff> } | { llc <0x0-0xff> <0x0-0xff> } } group <word16>

no vlan { [ethertype s-custom-port] | <vlan_list> }

Parameter

protocol Protocol-based VLAN commands

eth2 Ethernet-based VLAN commands

<0x600-0xffff> Ether Type(Range: 0x600 - 0xFFFF)

arp Ether Type is ARP

ip Ether Type is IP

ipx Ether Type is IPX

at Ether Type is AppleTalk

snap SNAP-based VLAN group

<0x0-0xffffff> SNAP OUI (Range 0x000000 - 0XFFFFFF)

rfc_1042 SNAP OUI is rfc_1042

snap_8021h SNAP OUI is 8021h

<0x0-0xffff> PID (Range: 0x0 - 0xFFFF)

llc LLC-based VLAN group

<0x0-0xff> DSAP (Range: 0x00 - 0xFF)

<0x0-0xff> SSAP (Range: 0x00 - 0xFF)

group Protocol-based VLAN group commands

<word16> Group Name (Range: 1 - 16 characters)

<vlan_list> Vlan list

ethertype

s-custom-port

EXAMPLE

```
AXIS T8508(config)# no vlan 3
AXIS T8508(config)# no vlan ethertype s-custom-port
AXIS T8508(config)#
```

voice

Voice appliance attributes.

SYNTAX

no voice vlan

no voice vlan aging-time

no voice vlan class

no voice vlan oui <oui>

no voice vlan vid

Parameter

vlan Vlan for voice traffic

aging-time Set secure learning aging time

class Set traffic class

oui OUI configuration

<oui> Traffice class value

vid Set VLAN ID

EXAMPLE

```
AXIS T8508(config)# no voice vlan vid
AXIS T8508(config)# no voice vlan class
AXIS T8508(config)# no voice vlan aging-time
AXIS T8508(config)#
```

web

Web.

SYNTAX

no web privilege group [<group_name>] level

Parameter

privilege Web privilege

group Web privilege group

<CWORD> Valid words are 'Aggregation' 'Debug' 'Dhcp_Client' 'Diagnostics'

'EEE' 'GARP' 'GVRP' ''Green_Ethernet' 'IP2' 'IPMC_Snooping' 'LACP' 'LLDP'

'Loop_Protect' 'MAC_Table' 'MEP' 'MVR' 'Maintenance'

'Mirroring' 'NTP' 'POE' 'Ports' 'Private_VLANs' 'QoS'

'RPC' 'Security' 'Spanning_Tree' 'System' 'Timer'

'UPnP' 'VCL' 'VLANs' 'Voice_VLAN' 'XXRP'

'sFlow'

level Web privilege group level

EXAMPLE

```
AXIS T8508(config)# no web privilege group LACP level
AXIS T8508(config)#
```

qos

Table : configure – qos Commands

Command	Function
map	Global QoS Map/Table
qce	QoS Control Entry
storm	Storm policer

map

Global QoS Map/Table.

SYNTAX

qos map cos-dscp <0~7> dpl <dpl : 0~1> dscp { <DscpNum : 0-63> | { be | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } }

qos map dscp-classify { <dscpNum : 0~63> | { be | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } }

qos map dscp-cos { < dscpNum : 0~63> | { be | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } } cos <Cos : 0-7> dpl <dpl>

qos map dscp-egress-translation { < DscpNum : 0~63> | { be | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } } <Dpl : 0~1> to { <Dscpnum : 0-63> | { be | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } }

qos map dscp-ingress-translation { < DscpNum : 0~63> | { be | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } } to { < DscpNum : 0-63> | { be | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } }

Parameter

cos-dscp	Map for cos to dscp
dscp-classify	Map for dscp classify enable
dscp-cos	Map for dscp to cos
dscp-egress-translation	Map for dscp egress translation
dscp-ingress-translation	Map for dscp ingress translation
dpl	Specify drop precedence level

<Dpl : 0~1>	Specific drop precedence level or range
dscp	Specify DSCP
<DscpNum : 0-63>	Specific DSCP
cos	Specify class of QoS
<Cos : 0-7>	Specific class of QoS
af11	Assured Forwarding PHB AF11(DSCP 10)
af12	Assured Forwarding PHB AF12(DSCP 12)
af13	Assured Forwarding PHB AF13(DSCP 14)
af21	Assured Forwarding PHB AF21(DSCP 18)
af22	Assured Forwarding PHB AF22(DSCP 20)
af23	Assured Forwarding PHB AF23(DSCP 22)
af31	Assured Forwarding PHB AF31(DSCP 26)
af32	Assured Forwarding PHB AF32(DSCP 28)
af33	Assured Forwarding PHB AF33(DSCP 30)
af41	Assured Forwarding PHB AF41(DSCP 34)
af42	Assured Forwarding PHB AF42(DSCP 36)
af43	Assured Forwarding PHB AF43(DSCP 38)
be	Default PHB(DSCP 0) for best effort traffic
cs1	Class Selector PHB CS1 precedence 1(DSCP 8)
cs2	Class Selector PHB CS2 precedence 2(DSCP 16)
cs3	Class Selector PHB CS3 precedence 3(DSCP 24)
cs4	Class Selector PHB CS4 precedence 4(DSCP 32)
cs5	Class Selector PHB CS5 precedence 5(DSCP 40)
cs6	Class Selector PHB CS6 precedence 6(DSCP 48)
cs7	Class Selector PHB CS7 precedence 7(DSCP 56)
ef	Expedited Forwarding PHB(DSCP 46)

va Voice Admit PHB(DSCP 44)

EXAMPLE

```
AXIS T8508(config)# qos map cos-dscp 5 dpl 1 dscp 20
AXIS T8508(config)#
```

qce

QoS Control Entry.

SYNTAX

qos qce refresh

qos qce { [update] } <Id : 1-256> [{ next <Id : 1-256> } | last] [ingress interface *|Gigabitethernet <PORT_LIST>] [tag { tagged | untagged | any }] [vid { <vlan_list> | any }] [pcp { <pcp> | any }] [dei { <Dpl : 0-1> | any }] [smac { <mac_addr> | <oui> | any }] [dmac-type { unicast | multicast | broadcast | any }] [frametype { any | { etype [{ <0x600-0x7ff,0x801-0x86dc,0x86de-0xffff> | any }] } | { llc [dsap { <0-0xff> | any }] [ssap { <0-0xff> | any }] [control { <0-0xff> | any }] } | { snap [{ <0-0xffff> | any }] } | { ipv4 [proto { <0-255> | tcp | udp | any }] [sip { <ipv4_subnet> | any }] [dscp { <0~63> | { be | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } | any }] [frag { yes | no | any }] [sport { <0~65535> | any }] [dport { <0~65535> | any }] } | { ipv6 [proto { <0-255> | tcp | udp | any }] [sip { <ipv4_subnet> | any }] [dscp { <0~63> | { be | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } | any }] [sport { <0~65535> | any }] [dport { <0~65535> | any }] } }] [action { [cos { <0-7> | default }] [dpl { <0-1> | default }] [dscp { <0-63> | { be | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } | default }] }]

Parameter

<Id : 1-256> QCE ID

refresh Refresh QCE tables in hardware

update Update an existing QCE

action Specify action

dei Specify DEI (Drop Eligible Indicator)

dmac-type Specify DMAC type

frametype Specify frame type

ingress	Ingress interfaces
last	Place QCE at the end
next	Place QCE before the next QCE ID
pcp	Specify PCP (Priority Code Point)
smac	Specify SMAC. If 'qos qce dmac-dip' is set, this parameter specifies the DMAC
tag	Specify tag options
vid	Specify VLAN ID
cos	Specify class of service
dpl	Specify drop precedence level
dscp	Specify DSCP
cos	Specify class of service
<Cos : 0-7>	Specific class of service
default	Keep default class of service
<Dpl : 0-1>	Specific drop precedence level
default	Keep default drop precedence level
<Dscp : 0-63>	Specific DSCP
af11	Assured Forwarding PHB AF11(DSCP 10)
af12	Assured Forwarding PHB AF12(DSCP 12)
af13	Assured Forwarding PHB AF13(DSCP 14)
af21	Assured Forwarding PHB AF21(DSCP 18)
af22	Assured Forwarding PHB AF22(DSCP 20)
af23	Assured Forwarding PHB AF23(DSCP 22)
af31	Assured Forwarding PHB AF31(DSCP 26)
af32	Assured Forwarding PHB AF32(DSCP 28)
af33	Assured Forwarding PHB AF33(DSCP 30)
af41	Assured Forwarding PHB AF41(DSCP 34)

af42	Assured Forwarding PHB AF42(DSCP 36)
af43	Assured Forwarding PHB AF43(DSCP 38)
be	Default PHB(DSCP 0) for best effort traffic
cs1	Class Selector PHB CS1 precedence 1(DSCP 8)
cs2	Class Selector PHB CS2 precedence 2(DSCP 16)
cs3	Class Selector PHB CS3 precedence 3(DSCP 24)
cs4	Class Selector PHB CS4 precedence 4(DSCP 32)
cs5	Class Selector PHB CS5 precedence 5(DSCP 40)
cs6	Class Selector PHB CS6 precedence 6(DSCP 48)
cs7	Class Selector PHB CS7 precedence 7(DSCP 56)
default	Keep default DSCP
ef	Expedited Forwarding PHB(DSCP 46)
va	Voice Admit PHB(DSCP 44)
any	Any
broadcast	Broadcast
multicast	Multicast
unicast	Unicast
etype	Ethernet frames
ipv4	IPv4 frames
ipv6	IPv6 frames
llc	LLC frames
snap	SNAP frames
<Etype : 0x600-0x7ff,0x801-0x86dc,0x86de-0xffff>	Specific EtherType
interface	Interfaces
<Next : 1-256>	The next QCE ID
<Pcp : pcp>	Specific PCP (0-7) or range (0-1, 2-3, 4-5, 6-7, 0-3 or 4-7)

<Smac : mac_addr>	Specific SMAC (XX-XX-XX-XX-XX-XX)
tagged	Tagged frames only
untagged	Untagges frames only
<Vid : vlan_list>	Specific VLAN ID or range
interface	Interfaces
Gigabitethernet	1 Gigabit Ethernet Port
<PORT_LIST>	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508(config)# qos qce 100 vid any
AXIS T8508(config)#
```

storm

Storm policer.

SYNTAX

qos storm { unicast | multicast | broadcast } <Rate : 1,2,4,8,16,32,64,128,256,512,1024> [kfps]

Parameter

broadcast	Police broadcast frames
multicast	Police multicast frames
unicast	Police unicast frames
<Rate : 1,2,4,8,16,32,64,128,256,512,1024>	Policer rate (default fps)
kfps	Rate is kfps

EXAMPLE

```
AXIS T8508(config)# qos storm broadcast 256 kfps
AXIS T8508(config)#
```

snmp-server

Set SNMP server's configurations

SYNTAX

snmp-server

Table : configure –snmp-server Commands

Command	Function
access	access configuration
community	Set the SNMP community
contact	Set the SNMP server's contact string
engine-id	Set SNMP engine ID
host	Set SNMP host's configurations
location	Set the SNMP server's location string
security-to-group	security-to-group configuration
trap	Set trap's configurations
user	Set the SNMPv3 user's configurations
version	Set the SNMP server's version
view	MIB view configuration

access

access configuration.

SYNTAX

snmp-server access <GroupName : word32> model { v1 | v2c | v3 | any } level { auth | noauth | priv } [read <ViewName : word255>] [write <WriteName : word255>]

Parameter

<GroupName : word32> group name

model security model

any any security model

v1 v1 security model

v2c v2c security model

v3 v3 security model

level security level

auth authNoPriv Security Level

noauth noAuthNoPriv Security Level

priv authPriv Security Level

read specify a read view for the group

write specify a write view for the group

<ViewName : word255> read view name

<WriteName : word255> write view name

EXAMPLE

```
AXIS T8508(config)# snmp-server access text model v2c level noauth
write text
AXIS T8508(config)#
```

community

Set the SNMP community.

SYNTAX

snmp-server community v2c <Community : word127> [ro | rw]

snmp-server community v3 <word127> [<ipv4_addr> <ipv4_netmask>]

Parameter

v2c SNMPv2c

<Community : word127> Community word

ro Read only

rw Read write

v3 SNMPv3

<Community : word127> Community word

<ipv4_addr> IPv4 address

<ipv4_netmask> IPv4 netmask

EXAMPLE

```
AXIS T8508(config)# snmp-server community v2c text
AXIS T8508(config)#
```

contact

Set the SNMP server's contact string.

SYNTAX

snmp-server contact <line255>

Parameter

contact Set the SNMP server's contact string

<line255> contact string

EXAMPLE

```
AXIS T8508(config)# snmp-server contact text
AXIS T8508(config)#
```

engine-id

Set SNMP engine ID.

SYNTAX

snmp-server engine-id local <Engineid : word10-32>

Parameter

local Set SNMP local engine ID

<Engineid : word10-32> local engine ID

EXAMPLE

```
AXIS T8508(config)# snmp-server engine-id local 1234567891
AXIS T8508(config)#
```

host

Set SNMP host's configurations.

SYNTAX

snmp-server host <word32>

Parameter

<word32> Name of the host configuration

EXAMPLE

```
AXIS T8508(config)# snmp-server host text
AXIS T8508(config-snmps-host)#
```

location

Set the SNMP server's location string.

SYNTAX

snmp-server location <line255>

Parameter

<line255> location string

EXAMPLE

```
AXIS T8508(config)# snmp-server location text
AXIS T8508(config)#
```

security-to-group

security-to-group configuration.

SYNTAX

snmp-server security-to-group model { v1 | v2c | v3 } name <SecurityName : word32> group <GroupName : word32>

Parameter

model	security model
v1	v1 security model
v2c	v2c security model
v3	v3 security model
name	security user
<SecurityName : word32>	security user name
group	security group
<GroupName : word32>	security group name

EXAMPLE

```
AXIS T8508(config)# snmp-server security-to-group model v2c name
text group text
AXIS T8508(config)#
```

trap

Set trap's configurations.

SYNTAX

snmp-server trap

EXAMPLE

```
AXIS T8508(config)# snmp-server trap
AXIS T8508(config)#
```

user

Set the SNMPv3 user's configurations.

SYNTAX

snmp-server user <Username : word32> engine-id <Engineid : word10-32> [{ md5 <Md5Passwd : word8-32> | sha <ShaPasswd : word8-40> } [priv { des | aes } <word8-32>]]

Parameter

<Username : word32>	Username
engine-id	engine ID
<Engineid : word10-32>	Engine ID octet string
md5	Set MD5 protocol
<Md5Passwd : word8-32>	MD5 password
sha	Set SHA protocol
<ShaPasswd word8-40>	SHA password
priv	Set Privacy
des	Set DES protocol
aes	Set AES protocol
<word8-32>	Set privacy password

EXAMPLE

```
AXIS T8508(config)# snmp-server user text engine-id 1234567891 md5
12345678 priv aes 12345678
AXIS T8508(config)#
```

version

Set the SNMP server's version.

SYNTAX

snmp-server version { v1 | v2c | v3 }

Parameter

v1	SNMPv1

v2c	SNMPv2c
v3	SNMPv3

EXAMPLE

```
AXIS T8508(config)# snmp-server version v2c
AXIS T8508(config)#
```

view

MIB view configuration.

SYNTAX

snmp-server view <ViewName : word32> <OidSubtree : word255> { include | exclude }

Parameter

<ViewName : word32>	MIB view name
<OidSubtree : word255>	MIB view OID
include	Ixcluded type from the view
exclude	Excluded type from the view

EXAMPLE

```
AXIS T8508(config)# snmp-server view text .1 include
AXIS T8508(config)#
```

spanning-tree

Spanning Tree protocol

Table : configure –spanning-tree Commands

Command	Function
aggregation	Aggregation mode
edge	Edge ports
mode	STP protocol mode
mst	STP bridge instance
recovery	The error recovery timeout
transmit	BPDUs to transmit

aggregation

Aggregation mode.

SYNTAX

spanning-tree aggregation

EXAMPLE

```
AXIS T8508(config)# spanning-tree  aggregation
AXIS T8508(config-stp-aggr)#
```

edge

Edge ports.

SYNTAX

spanning-tree edge bpdu-filter

spanning-tree edge bpdu-guard

Parameter

bpdu-filter Enable BPDU filter (stop BPDU tx/rx)

bpdu-guard Enable BPDU guard

EXAMPLE

```
AXIS T8508(config)# spanning-tree edge bpdu-filter
AXIS T8508(config)#
```

mode

STP protocol mode.

SYNTAX

spanning-tree mode { stp | rstp | mstp }

Parameter

mstp	Multiple Spanning Tree (802.1s)
rstp	Rabid Spanning Tree (802.1w)
stp	802.1D Spanning Tree

EXAMPLE

```
AXIS T8508(config)# spanning-tree mode stp
AXIS T8508(config)#
```

mst

STP bridge instance.

SYNTAX

spanning-tree mst <Instance : 0-7> priority <Prio : 0-61440>

spanning-tree mst < Instance : 0-7> vlan <vlan_list>

spanning-tree mst forward-time <Fwdtime : 4-30>

spanning-tree mst max-age <Maxage : 6-40> [forward-time <Fwdtime : 4-30>]

spanning-tree mst max-hops <Maxhops : 6-40>

spanning-tree mst name <Name : word32> revision <0-65535>

Parameter

<Instance : 0-7>	instance 0-7 (CIST=0, MST2=1...)
forward-time	Delay between port states
max-age	Max bridge age before timeout
max-hops	MSTP bridge max hop count
name	Name keyword
priority	Priority of the instance
vlan	VLAN keyword
<Prio : 0-61440>	Range in seconds
<vlan_list>	Range of VLANs
<Fwdtime : 4-30>	Range in seconds
<Maxage : 6-40>	Range in seconds
<Maxhops : 6-40>	Hop count range
<Name : word32>	Name of the bridge
revision	Revision keyword
<0-65535>	Revision number

EXAMPLE

```
AXIS T8508(config)# spanning-tree mst 7 vlan 10
AXIS T8508(config)#
```

recovery

The error recovery timeouts.

SYNTAX

spanning-tree recovery interval <Interval : 30-86400>

Parameter

interval	The interval
<Interval : 30-86400>	Range in seconds

EXAMPLE

```
AXIS T8508(config)# spanning-tree recovery interval 50
AXIS T8508(config)#
```

transmit

BPDUs to transmit.

SYNTAX

spanning-tree transmit hold-count <Holdcount : 1-10>

Parameter

hold-count Max number of transmit BPDUs per sec

<Holdcount : 1-10> 1-10 per sec, 6 is default

EXAMPLE

```
AXIS T8508(config)# spanning-tree transmit hold-count 5
AXIS T8508(config)#
```

COPY Commands of CLI

Copy from source to destination

SYNTAX

copy { startup-config | running-config | < flash:filename | tftp://server/path-and-filename > } { startup-config | running-config | < flash:filename | tftp://server/path-and-filename > } [syntax-check][| { begin | exclude | include }{ <LINE >}]

Parameter

flash:filename | tftp://server/path-and-filename	File in FLASH or on TFTP server
running-config	Currently running configuration
startup-config	Startup configuration
|	Output modifiers
syntax-check	Perform syntax check on source configuration
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# copy startup-config  running-config syntax-check |
include
```

DEBUG Commands of CLI

Debugging functions

SYNTAX

debug prompt text

Parameter

prompt	Set prompt for testing
WORD	Word for prompt in 32 char's

EXAMPLE

```
AXIS T8508# debug prompt test
test#
```

DELETE Commands of CLI

Delete one file in flash: file system

SYNTAX

Delete <Path : word>

Parameter

<Path : word> Name of file to delete

EXAMPLE

```
AXIS T8508# delete text
AXIS T8508#
```

DIR Commands of CLI

Directory of all files in flash: file system

SYNTAX

Dir [| begin | exclude | include <LINE>]

Parameter

|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# dir
Directory of flash:
    r- 2011-01-01 00:00:00     720 default-config
    rw 2011-01-01 00:00:11    1777 startup-config
2 files, 2497 bytes total.
```

DISABLE Commands of CLI

Turn off privileged commands

SYNTAX

disable <0-15>

Parameter

<0-15>	Privilege level

EXAMPLE

```
AXIS T8508# disable 10
AXIS T8508#
```

DO Commands of CLI

To run exec commands in config mode

SYNTAX

Do <LINE>{[LINE]}

Parameter

LINE	Exec Command

EXAMPLE

```
AXIS T8508# do show clock
System Time     : 2011-01-01T00:03:44+00:00
```

DOT1X of CLI

IEEE Standard for port-based Network Access Control

SYNTAX

dot1x initialize [interface (<port_type> [<plist>])]

Parameter

initialize	Force re-authentication immediately
interface	Interface
*	All switches or All ports
Gigabitethernet	1 GigabitEthernet port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508# dot1x initialize interface GigabitEthernet
1/1-26
```

ENABLE of CLI

Turn on privileged commands

Syntax

Enable <1-15>

Parameter

<0-15>	Choose privileged level

EXAMPLE

```
AXIS T8508# enable 10
AXIS T8508#
```

FIRMWARE of CLI

Firmware upgrade/swap

Syntax

firmware swap

firmware upgrade < TFTPServer_path_file **:** word>

Parameter

swap	Swap between Active and Alternate firmware image.
upgrade	Firmware upgrade
<TFTPServer_path_file : word>	TFTP Server IP address, path and file name for the server containing the new image.

EXAMPLE

```
AXIS T8508# firmware upgrade tftp://192.168.1.1/path/GEL2706
Programming image...
AXIS T8508#
```

NO of CLI

Negate a command or set its defaults

Syntax

no debug prompt

Parameter

debug	Debugging functions
prompt	Clear prompt for testing

EXAMPLE

```
AXIS T8508# no debug prompt
AXIS T8508#
```

PING of CLI

Send ICMP echo messages

Syntax

ping ip <word1-255> [repeat <Count : 1-60>] [size <Size : 2-1452>] [interval <Seconds : 0-30>]

ping ipv6 <ipv6_addr> [repeat <Count : 1-60>] [size <Size : 2-1452>] [interval <Seconds : 0-30>] [interface vlan <vlan_id>]

Parameter

ip	IP (ICMP) echo
<word1-255>	ICMP destination address
repeat	Specify repeat count
<Count : 1-60>	1-60; Default is 5
size	Specify datagram size
<Size : 2-1452>	2-1452; Default is 56 (excluding MAC, IP and ICMP headers)
interval	Specify repeat interval
<Seconds : 0-30>	0-30; Default is 0
ipv6	IPv6 (ICMPv6) echo
<ipv6_addr>	ICMPv6 destination address
repeat	Specify repeat count
<1-60>	1-60; Default is 5
size	Specify datagram size
<2-1452>	2-1452; Default is 56 (excluding MAC, IP and ICMP headers)
interval	Specify repeat interval
<0-30>	0-30; Default is 0

interface	Select an interface to configure
vlan	VLAN Interface
<vlan_id>	VLAN identifier(s): VID

EXAMPLE

```
AXIS T8508# ping ip 33 interval 22 repeat 33 size 444
PING server 0.0.0.33, 444 bytes of dataitialize interfac
```

RELOAD of CLI

Reload system.

Syntax

reload { { { cold | warm } [sid <usid>] } | { defaults [keep-ip] } }

Parameter

cold	Reload cold, i.e. reboot.
defaults	Reload defaults without rebooting.
keep-ip	Attepmt to keep VLAN1 IP setup.r

EXAMPLE

```
AXIS T8508# reload defaults
% Reloading defaults. Please stand by.
AXIS T8508# reload cold
% Cold reload in progress, please stand by.
AXIS T8508# +M25PXX : Init device with JEDEC ID 0x20BA19.
Luton26 board detected (VSC7427 Rev. D).

RedBoot(tm) bootstrap and debug environment [ROMRAM]
Non-certified release, version 1_15a-Vitesse - built 18:36:46, Sep  9 2014

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```

Send of CLI

Send a message to other tty lines

Syntax

send { * | <session_list> | console 0 | vty <vty_list> } <message>

Parameter

*****	All tty lines
<0~16>	Send a message to multiple lines
console	Primary terminal line
0	Send a message to a specific line
vty	Virtual terminal
<0~15>	Send a message to multiple lines
<LINE>	Message to be sent to lines, in 128 char's

EXAMPLE

```
AXIS T8508# send * yes,i do
Enter TEXT message.  End with the character 'y'.

y

----------------------------------------
*** Message from line 0:
yes,i do


----------------------------------------
AXIS T8508#
```

SHOW of CLI

Show running system information

Table : SHOW Commands

Command	Function
aaa	Login methods
access	Access management
access-list	Access list
aggregation	Aggregation port configuration
clock	Configure time-of-day clock
dot1x	IEEE Standard for port-based Network Access Control
green-ethernet	Green ethernet (Power reduction)
history	Display the session command history
interface	Interface status and configuration
ip	Internet Protocol
ipmc	IPv4/IPv6 multicast configuration
ipv6	IPv6 configuration commands
lacp	LACP configuration/status
line	TTY line information
lldp	Display LLDP neighbors information.
logging	Syslog
loop-protect	Loop protection configuration
mac	Mac Address Table information
mvr	Multicast VLAN Registration configuration
ntp	Configure NTP
platform	platform specific information
poe	Power over ethernet
port-security	
privilege	Display command privilege
pvlan	PVLAN status
qos	Quality of Service
radius-server	RADIUS configuration
rmon	RMON statistics
running-config	Show running system information

sflow	Statistics flow.
snmp	Display SNMP configurations
spanning-tree	STP Bridge
switchport	Display switching mode characteristics
System	show system information
tacacs-server	TACACS+ configuration
terminal	Display terminal configuration parameters
upnp	Display UPnP configurations
users	Display information about terminal lines
version	System hardware and software status
vlan	VLAN status
voice	Voice appliance attributes
web	Web

aaa

Login methods.

SYNTAX

show aaa [| {begin | exclude | include } <LINE>]

Parameter

|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show aaa
console : local
telnet  : local
ssh     : local
http    : local
AXIS T8508#
```

access

Access management.

SYNTAX

show access management [statistics | <access_id_list>]

Parameter

management	Access management configuration
statistics	Statistics data
<AccessidList : 1~16>	ID of access management entry
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show access management
Switch access management mode is disabled

W: WEB/HTTPS
S: SNMP
T: TELNET/SSH

Idx VID  Start IP Address              End IP Address                W S
T
--- ---  ------------------------------ ------------------------------
- - - -
AXIS T8508# show access management statistics

Access Management Statistics:
------------------------------
HTTP     Receive:         0    Allow:         0    Discard:         0
HTTPS    Receive:         0    Allow:         0    Discard:         0
SNMP     Receive:         0    Allow:         0    Discard:         0
TELNET   Receive:         0    Allow:         0    Discard:         0
SSH      Receive:         0    Allow:         0    Discard:         0
```

access-list

Access list

SYNTAX

show access-list [interface [* | Gigabitetherne <PORT_LIST>]] [rate-limiter [<RateLimiterList : 1~16>]] [ace statistics [<AceId : 1~256>]]

show access-list ace-status [static] [loop-protect] [dhcp] [upnp] [arp-inspection] [mep] [ipmc] [ip-source-guard] [ip-mgmt] [conflicts]

Parameter

interface	Select an interface to configure
*	All Switches or All Ports

Gigbitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26
rate-limiter	Rate limiter
< RateLimiterList : 1~16>	Rate limiter ID
ace	Access list entry
statistics	Traffic statistics
<AceId : 1~256>	ACE ID
ace-status	The local ACEs status
static	The ACEs that are configured by users manually
loop-protect	The ACEs that are configured by Loop Protect module
dhcp	The ACEs that are configured by DHCP module
upnp	The ACEs that are configured by UPnP module
arp-inspection	The ACEs that are configured by ARP Inspection module
mep	The ACEs that are configured by MEP module
ipmc	The ACEs that are configured by IPMC module
ip-source-guard	The ACEs that are configured by IP Source Guard module
ip-mgmt	The ACEs that are configured by IP Mamagement module
conflicts	The conflicts ACEs that does not applied to the hardware due to hardware limitations
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show access-list ace statistics rate-limiter

Switch access-list ace number: 0

Switch access-list rate limiter ID 1 is 1 pps
Switch access-list rate limiter ID 2 is 1 pps
Switch access-list rate limiter ID 3 is 1 pps
Switch access-list rate limiter ID 4 is 1 pps
Switch access-list rate limiter ID 5 is 1 pps
Switch access-list rate limiter ID 6 is 1 pps
Switch access-list rate limiter ID 7 is 1 pps
Switch access-list rate limiter ID 8 is 1 pps
Switch access-list rate limiter ID 9 is 1 pps
Switch access-list rate limiter ID 10 is 1 pps
Switch access-list rate limiter ID 11 is 1 pps
Switch access-list rate limiter ID 12 is 1 pps
Switch access-list rate limiter ID 13 is 1 pps
Switch access-list rate limiter ID 14 is 1 pps
Switch access-list rate limiter ID 15 is 1 pps
Switch access-list rate limiter ID 16 is 1 pps
AXIS T8508#
```

aggregation

Aggregation port configuration.

SYNTAX

show aggregation [mode] [| {begin | exclude | include } <LINE>]

Parameter

mode	Traffic distribution mode
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match

include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show aggregation  Mode
Aggregation Mode:

SMAC  : Enabled
DMAC  : Disabled
IP    : Enabled
Port  : Enabled
AXIS T8508#
```

clock

Configure time-of-day clock.

SYNTAX

show clock [detail]

Parameter

detail	Display detailed information

EXAMPLE

```
AXIS T8508# show clock detail
System Time     : 2011-01-01T00:53:57+00:00

Timezone : Timezone Offset : 0 ( 0 minutes)
Timezone Acronym :

Daylight Saving Time Mode : Disabled.
Daylight Saving Time Start Time Settings :
       Week: 0
       Day: 0
       Month: 0
       Date: 0
       Year: 0
       Hour: 0
       Minute: 0
Daylight Saving Time End Time Settings :
       Week: 0
       Day: 0
       Month: 0
       Date: 0
       Year: 0
       Hour: 0
       Minute: 0
Daylight Saving Time Offset : 1 (minutes)
```

dot1x

IEEE Standard for port-based Network Access Control.

SYNTAX

show dot1x statistics { eapol | radius | all } [interface <port_type> <port_type_list>] [| {begin | exclude | include } <LINE>]

show dot1x status [interface (<port_type> [<port_type_list>])] [brief] [| {begin | exclude | include } <LINE>]

Parameter

statistics Shows statistics for either eapol or radius.

all	Show all dot1x statistics
eapol	Show EAPOL statistics
radius	Show Backend Server statistics
<port_type >	GigabitEthernet
<port_type_list>	Port list in 1/1-26 for Gigabotethernet
Status	Shows dot1x status, such as admin state, port state and last source.
brief	Show status in a brief format
interface	Interface
*****	All Switches or All Ports
Gigbitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508# show dot1x statistics radius
                    Rx Access   Rx Other    Rx Auth.    Rx Auth.    Tx          MAC
Interface           Challenges  Requests    Successes   Failures    Responses   Address
--------------------  ----------  ----------  ----------  ----------  ----------  --
GigabitEthernet 1/1    0          0          0          0          0          -
GigabitEthernet 1/2    0          0          0          0          0          -
GigabitEthernet 1/3    0          0          0          0          0          -
GigabitEthernet 1/4    0          0          0          0          0          -
GigabitEthernet 1/5    0          0          0          0          0          -
AXIS T8508#
```

green-ethernet

Green ethernet (Power reduction).

SYNTAX

show green-ethernet [interface <port_type> <port_type_list>]

show green-ethernet eee [interface <port_type> <port_type_list>]

show green-ethernet energy-detect [interface <port_type> <port_type_list>]

show green-ethernet short-reach [interface <port_type> <port_type_list>]

Parameter

eee	Shows green ethernet EEE status for a specific port or ports.
energy-detect	Shows green ethernet energy-detect status for a specific port or ports.
interface	Shows green ethernet status for a specific port or ports.
short-reach	Shows green ethernet short-reach status for a specific
interface	
*	All Switches or All ports
<port_type >	GigabitEthernet or
<port_type_list>	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508# show green-ethernet eee
Interface            Lnk  EEE Capable  EEE Enabled  LP EEE Capable   In
Power Save
---------------------  ---  -----------  -----------  ---------------
-------------
GigabitEthernet 1/1    No   Yes          No           No               No
GigabitEthernet 1/2    No   Yes          No           No               No
GigabitEthernet 1/3    No   Yes          No           No               No
GigabitEthernet 1/4    No   Yes          No           No               No
GigabitEthernet 1/5    No   Yes          No           No               No
GigabitEthernet 1/6    No   Yes          No           No               No
GigabitEthernet 1/7    No   Yes          No           No               No
GigabitEthernet 1/8    No   Yes          No           No               No
GigabitEthernet 1/9    No   Yes          No           No               No
```

history

Display the session command history.

SYNTAX

show history [| {begin | exclude | include } <LINE>]

Parameter

|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show history
  show evc statistics
  show green-ethernet EEE
  show green-ethernet EEE interface GigabitEthernet
  show history
AXIS T8508#
```

interface

Interface status and configuration.

SYNTAX

show interface <port_type> <port_type_list> [switchport [access | trunk | hybrid]]

show interface <port_type> <port_type_list> capabilities

show interface <port_type> <port_type_list> statistics [{ packets | bytes | errors | discards | filtered | { priority [<0~7>] } }] [{ up | down }]

show interface <port_type> <port_type_list> status

show interface <port_type> <port_type_list> veriphy

show interface vlan [<vlan_list>]

Parameter

<port_type>	Gigabitethernet
*****	All Switches or All ports
Gigabitethernet	1 Gigabitethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet
capabilities	Display capabilities.
statistics	Display statistics counters.
status	Display status.
switchport	Show interface switchport information
veriphy	Run cable diagnostics and show result.
bytes	Show byte statistics.
discards	Show discard statistics.
down	Show ports which are down
errors	Show error statistics.
filtered	Show filtered statistics.
packets	Show packet statistics.
priority	Queue number
up	Show ports which are up
vlan	VLAN status
<vlan_list>	VLAN list

EXAMPLE

```
AXIS T8508# show interface GigabitEthernet 1/1-3 capabilities

GigabitEthernet 1/1 Capabilities:
SFP Type: None
SFP Vendor name:
SFP Vendor PN:
SFP Vendor revision:

GigabitEthernet 1/2 Capabilities:
SFP Type: None
SFP Vendor name:
SFP Vendor PN:
SFP Vendor revision:

GigabitEthernet 1/3 Capabilities:
SFP Type: None
SFP Vendor name:
SFP Vendor PN:
SFP Vendor revision:
AXIS T8508#
```

ip

Internet Protocol.

SYNTAX

show ip arp

show ip arp inspection [interface {<port_type> <port_type_list>} | vlan <vlan_list>]

show ip arp inspection entry [dhcp-snooping | static] [interface <port_type> <port_type_list>]

show ip dhcp relay [statistics]

show ip dhcp snooping [statistics] [interface <port_type> <port_type_list>]

show ip http server secure status

show ip igmp snooping [vlan <vlan_list>] [group-database [interface <port_type> <port_type_list>] [sfm-

information]] [detail]

show ip igmp snooping mrouter [detail]

show ip interface brief

show ip name-server

show ip route

show ip source binding [dhcp-snooping | static] [interface <port_type> <port_type_list>]

show ip ssh

show ip statistics [system] [interface vlan <vlan_list>] [icmp] [icmp-msg <0~255>]

show ip verify source [interface <port_type> <port_type_list>]

Parameter

arp	Address Resolution Protocol
inspection	ARP inspection
interface	arp inspection entry interface config
<port_type>	Gigabitethernet
<port_type_list>	Port list in 1/1-26 for Gigabitethernet
vlan	VLAN configuration
<vlan_list>	Select a VLAN id to configure
entry	arp inspection entries
dhcp-snooping	learn from dhcp snooping
static	setting from static entries
dhcp	Dynamic Host Configuration Protocol
relay	DHCP relay agent configuration
statistics	Traffic statistics
snooping	DHCP snooping
http	Hypertext Transfer Protocol
server	HTTP web server

secure	Secure
status	Status
igmp	Internet Group Management Protocol
snooping	Snooping IGMP
vlan	Search by VLAN
<vlan_list>	VLAN identifier(s): VID
group-database	Multicast group database from IGMP
sfm-information	Including source filter multicast information from IGMP
detail	Detail running information/statistics of IGMP snooping
mrouter	Multicast router port status in IGMP
detail	Detail running information/statistics of IGMP snooping
interface	IP interface status and configuration
brief	Brief IP interface status
name-server	Domain Name System
route	Display the current ip routing table
binding	ip source binding
dhcp-snooping	learn from dhcp snooping
ssh	Secure Shell
system	IPv4 system traffic
icmp	IPv4 ICMP traffic
icmp-msg	IPv4 ICMP traffic for designated message type
<0~255>	ICMP message type ranges from 0 to 255
verify	verify command
source	verify source

EXAMPLE

```
AXIS T8508# show ip statistics system

IPv4 statistics:

  Rcvd:  411 total in 36226 bytes
         273 local destination, 0 forwarding
         0 header error, 0 address error, 0 unknown protocol
         0 no route, 0 truncated, 138 discarded
  Sent:  0 total in 0 byte
         0 generated, 0 forwarded
         0 no route, 0 discarded
  Frags: 0 reassemble (0 reassembled, 0 couldn't reassemble)
         0 fragment (0 fragmented, 0 couldn't fragment)
         0 fragment created
  Mcast: 411 received in 36226 bytes
         0 sent in 0 byte
  Bcast: 273 received, 0 sent
AXIS T8508#
```

ipmc

IPv4/IPv6 multicast configuration.

SYNTAX

show ipmc profile [<ProfileName : word16>] [detail] [| {begin | exclude | include } <LINE>]

show ipmc range [<EntryName : word16>] [| {begin | exclude | include } <LINE>]

Parameter

profile	IPMC profile configuration
range	A range of IPv4/IPv6 multicast addresses for the profile
<ProfileName : word16>	Profile name in 16 char's
detail	Detail information of a profile
<EntryName : word16>	Range entry name in 16 char's

|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show ipmc range
AXIS T8508#
```

ipv6

IPv6 configuration commands.

SYNTAX

show ipv6 interface [vlan <vlan_list> { brief | statistics }] [| {begin | exclude | include } <LINE>]

show ipv6 mld snooping [vlan <vlan_list>] [group-database [interface <port_type> <port_type_list>] [sfm-information]] [detail]

show ipv6 mld snooping mrouter [detail]

show ipv6 neighbor [interface vlan <vlan_list>]

show ipv6 route [interface vlan <vlan_list>]

show ipv6 statistics [system] [interface vlan <vlan_list>] [icmp] [icmp-msg <Type : 0~255>]

Parameter

interface	Select an interface to configure
vlan	VLAN of IPv6 interface
<vlan_list>	IPv6 interface VLAN list
brief	Brief summary of IPv6 status and configuration
statistics	Traffic statistics
mld	Multicasat Listener Discovery

snooping	Snooping MLD
vlan	Search by VLAN
<vlan_list>	VLAN identifier(s): VID
group-database	Multicast group database from MLD
interface	Search by port
<port_type>	Gigabitethernet
*****	All Switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet
sfm-information	Including source filter multicast information from MLD
detail	Detail running information/statistics of MLD snooping
mrouter	Multicast router port status in MLD
neighbor	IPv6 neighbors
route	IPv6 routes
statistics	Traffic statistics
system	IPv6 system traffic
icmp	IPv6 ICMP traffic
icmp-msg	IPv6 ICMP traffic for designated message type
<Type : 0~255>	ICMP message type ranges from 0 to 255
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show ipv6 statistics system

IPv6 statistics:

  Rcvd:  2 total in 112 bytes
         0 local destination, 0 forwarding
         0 header error, 0 address error, 0 unknown protocol
         0 no route, 0 truncated, 2 discarded
  Sent:  8 total in 512 bytes
         14 generated, 0 forwarded
         3 no route, 0 discarded
  Frags: 0 reassemble (0 reassembled, 0 couldn't reassemble)
         0 fragment (0 fragmented, 0 couldn't fragment)
         0 fragment created
  Mcast: 2 received in 112 bytes
         8 sent in 512 bytes
  Bcast: 0 received, 0 sent
AXIS T8508#
```

lacp

LACP configuration/status.

SYNTAX

show lacp { internal | statistics | system-id | neighbour } [| {begin | exclude | include } <LINE>]

Parameter

internal	Internal LACP configuration
neighbour	Neighbour LACP status
statistics	Internal LACP statistics
system-id	LACP system id
|	Output modifiers
begin	Begin with the line that matches

exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show lacp internal
Port  Mode     Key   Role    Timeout  Priority
----  -------- ----  ------  -------  --------
1     Disabled  Auto  Active  Fast     32768
2     Disabled  Auto  Active  Fast     32768
3     Disabled  Auto  Active  Fast     32768
4     Disabled  Auto  Active  Fast     32768
5     Disabled  Auto  Active  Fast     32768
6     Disabled  Auto  Active  Fast     32768
7     Disabled  Auto  Active  Fast     32768
AXIS T8508#
```

line

TTY line information.

SYNTAX

show line [alive] [| {begin | exclude | include } <LINE>]

Parameter

alive	Display information about alive lines
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show line alive
Line is con 0.
    * You are at this line now.
    Alive from Console.
    Default privileged level is 2.
    Command line editing is enabled
    Display EXEC banner is enabled.
    Display Day banner is enabled.
    Terminal width is 80.
         length is 24.
           history size is 32.
           exec-timeout is 10 min 0 second.
```

```
    Current session privilege is 15.
    Elapsed time is 0 day 0 hour 26 min 52 sec.
    Idle time is 0 day 0 hour 0 min 0 sec.

AXIS T8508#
```

lldp

Display LLDP neighbors information..

SYNTAX

show lldp med media-vlan-policy [<0~31>] [| {begin | exclude | include } <LINE>]

show lldp med remote-device [interface <port_type> <port_type_list>] [| {begin | exclude | include } <LINE>]

show lldp neighbors [interface <port_type> <port_type_list>] [| {begin | exclude | include } <LINE>]

show lldp statistics [interface <port_type> <port_type_list>] [| {begin | exclude | include } <LINE>]

Parameter

med Display LLDP-MED neighbors information.

neighbors Display LLDP neighbors information.

statistics Display LLDP statistics information.

media-vlan-policy	Display media vlan policies.
remote-device	Display remote device LLDP-MED neighbors information.
<0~31>	List of policies.
Interface	
<port_type >	GigabitEthernet
*****	All Switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show lldp med media-vlan-policy
No policies defined
AXIS T8508#
```

logging

Syslog.

SYNTAX

show logging <loggin_id : 1-4294967295> [| {begin | exclude | include } <LINE>]

show logging [info] [warning] [error] [| {begin | exclude | include } <LINE>]

Parameter

<logging_id: 1-4294967295>	Logging ID
error	Error

info	Information
warning	Warning
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show logging info
Switch logging host mode is disabled
Switch logging host address is null
Switch logging level is information

Number of entries:
Info   : 3
Warning: 158
```

```
Error  : 0
All    : 161

ID   Level   Time                     Message
---- ------  -------------------------  ------------------------------
   1  Info    1970-01-01T00:00:00+00:00  Switch just made a cold boot.
   2  Info    1970-01-01T00:00:03+00:00  Link up on port 1
 161  Info    1970-01-01T02:25:55+00:00  Link down on port 1
AXIS T8508#
```

loop-protect

Loop protection configuration.

SYNTAX

show loop-protect [interface <port_type> <port_type_list>]

Parameter

interface	Interface status and configuration
<port_type >	GigabitEthernet
*	All Switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508# show loop-protect

Loop Protection Configuration
=====================================
Loop Protection   : Enable
Transmission Time : 1 sec
Shutdown Time     : 180 sec

GigabitEthernet 1/1
------------------------------
   Loop protect mode is enabled.
   Actions are both of shutdown and log.
```

```
   Transmit mode is enabled.
   No loop.
   The number of loops is 0.
   Status is down.

GigabitEthernet 1/2
------------------------------
   Loop protect mode is enabled.
-- more --, next page: Space, continue: g, quit: ^C    No loop.
```

mac

Mac Address Table information.

SYNTAX

show mac address-table [conf | static | aging-time | { { learning | count } [interface <port_type> <port_type_list>] } | { address <mac_addr> [vlan <vlan_id>] } | vlan <vlan_id> | interface <port_type> <port_type_list>] [| {begin | exclude | include } <LINE>]

Parameter

address-table	Mac Address Table
conf	User added static mac addresses
static	All static mac addresses
aging-time	Aging time
learning	Learn/disable/secure state
count	Total number of mac addresses
interface	Select an interface to configure
<port_type>	Gigabitethernet
*	All switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26
address	MAC address lookup
<mac_addr>	48 bit MAC address: xx:xx:xx:xx:xx:xx
vlan	VLAN lookup
<vlan_id>	VLAN IDs 1-4095
vlan	Addresses in this VLAN
<vlan_id>	VLAN IDs 1-4095
interface	Select an interface to configure
<port_type>	igabitethernet
*	All Switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port

<port_type_list>	Port list in 1/1-26 for Gigabitethernet
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show mac address-table static
AXIS T8508#
```

mvr

Multicast VLAN Registration configuration.

SYNTAX

show mvr [vlan <vlan_list> | name <word16>] [group-database [interface <port_type> <port_type_list>] [sfm-information]] [detail] [| {begin | exclude | include } <LINE>]

Parameter

vlan	Search by VLAN
<vlan_list>	MVR multicast VLAN list
name	Search by MVR name
<word16>	MVR multicast VLAN name
group-database	Multicast group database from MVR
interface	Search by port
<port_type>	* or Gigabitethernet
*****	All Switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet

sfm-information	Including source filter multicast information from MVR
detail	Detail information/statistics of MVR group database
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show mvr vlan 10 detail

MVR is currently disabled, please enable MVR to start group
registration.
% Invalid MVR IGMP VLAN 10.

% Invalid MVR MLD VLAN 10.
```

platform

Platform specific information

SYNTAX

show platform phy [interface (<port_type> [<v_port_type_list>])] [| {begin | exclude | include } <LINE>]

show platform phy id [interface (<port_type> [<v_port_type_list>])] [| {begin | exclude | include } <LINE>]

show platform phy instance [| {begin | exclude | include } <LINE>]

show platform phy status [interface (<port_type> [<v_port_type_list>])] [| {begin | exclude | include } <LINE>]

Parameter

phy	PHYs' information
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match

include Include lines that match

<LINE> String to match output lines

EXAMPLE

```
AXIS T8508# show platform phy
Port   API Inst   WAN/LAN/1G Mode      Duplex     Speed     Link
----   ---------  ---------  ----      ------     -----     ----
1      Default    1G         PD        -          -         ,No
2      Default    1G         PD        -          -         ,No
3      Default    1G         PD        -          -         ,No
4      Default    1G         PD        -          -         ,Yes
5      Default    1G         PD        -          -         ,No
6      Default    1G         PD        -          -         ,No
7      Default    1G         PD        -          -         ,No
8      Default    1G         PD        -          -         ,No
9      Default    1G         PD        -          -         ,No
10     Default    1G         PD        -          -         ,No
11     Default    1G         PD        -          -         ,No
12     Default    1G         PD        -          -         ,No
```

poe

show poe.

SYNTAX

show poe auto-check [interface (<port_type> [<v_port_type_list>])]

show poe config [interface (<port_type> [<v_port_type_list>])]

show poe power-delay [interface (<port_type> [<v_port_type_list>])]

show poe schedule [interface (<port_type> [<v_port_type_list>])]

show poe status [interface (<port_type> [<v_port_type_list>])]

Parameter

interface

|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show poe status interface GigabitEthernet 1/1-2
Interface             PD Class  Port Status                          Pwr
Req Pwr Alloc Power   Current  Priority
                                                                   Used
[W] Used[W]   Used[W] Used[mA]
---------------------- --------- ----------------------------------------
----
--- --------- ------- -------- --------
GigabitEthernet 1/1    -        PoE turned OFF - PoE disabled           30
0        0.0    0       Low
GigabitEthernet 1/2    -        PoE turned OFF - PoE disabled           30
0        0.0    0       Low


Total Power Request :   60.0 [W]
Total Power Alloctaed : 0.0 [W]
Total Power Used :     0.0 [W]
Total Current Used :    0 [mA]
AXIS T8508#
```

ntp

show NTP.

SYNTAX

show ntp status

Parameter

status	status

EXAMPLE

```
AXIS T8508# show ntp status
NTP Mode : disabled
Idx   Server IP host address (a.b.c.d) or a host name string
---   ------------------------------------------------
1
2
3
4
5
AXIS T8508#
```

port-security

SYNTAX

show port-security port [interface <port_type> <port_type_list>] [| {begin | exclude | include } <LINE>

show port-security switch [interface <port_type> <port_type_list>] [| {begin | exclude | include } <LINE>

Parameter

port	Show MAC Addresses learned by Port Security
switch	Show Port Security status.
Interface	
<port_type >	GigabitEthernet
*	All Switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match

<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show port-security port interface GigabitEthernet 1/2
GigabitEthernet 1/2
-------------------
MAC Address       VID   State      Added               Age/Hold Time
----------------  ----  ----------  ------------------  -------------
<none>

AXIS T8508#
```

privilege

SYNTAX

show privilege [| {begin | exclude | include } <LINE>

Parameter

|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match

EXAMPLE

```
AXIS T8508# show privilege

 ------------------------------------------
|   The order is as the input sequence and   |
|   the last one has the highest priority.   |
 ------------------------------------------

  privilege line level 5 LINE
```

pvlan

PVLAN status.

SYNTAX

show pvlan<range_list>

show pvlan isolation interface <port_type> <port_type_list>

Parameter

<range_list>	PVLAN id to show configuration for
isolation	show isolation configuration
<port_type >	GigabitEthernet
*	All Switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show pvlan isolation interface GigabitEthernet 1/1-2
Port                          Isolation
-------------------------------  ---------
GigabitEthernet 1/1             Disabled
GigabitEthernet 1/2             Disabled
AXIS T8508#
```

qos

Quality of Service.

SYNTAX

show qos [{ interface [<port_type> <port_type_list>] } | wred | { maps [dscp-cos] [dscp-ingress-translation] [dscp-classify] [cos-dscp] [dscp-egress-translation] } | storm | { qce [<Qce : 1-256>] }] [| {begin | exclude | include } <LINE>

Parameter

interface	Interface
<port_type >	GigabitEthernet
*****	All switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet
maps	Global QoS Maps/Tables
qce	QoS Control Entry
storm	Storm policer
wred	Weighted Random Early Discard
cos-dscp	Map for cos to dscp
dscp-classify	Map for dscp classify enable
dscp-cos	Map for dscp to cos
dscp-egress-translation	Map for dscp egress translation
dscp-ingress-translation	Map for dscp ingress translation
<Qce : 1-256>	QCE ID
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show qos storm
qos storm:
==========
Unicast  : disabled          1
Multicast: disabled          1
Broadcast: disabled          1
AXIS T8508#
```

radius-server

RADIUS configuration.

SYNTAX

show radius-server [statistics] [| {begin | exclude | include } <LINE>

Parameter

statistics	RADIUS statistics
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show radius-server
Global RADIUS Server Timeout     : 5 seconds
Global RADIUS Server Retransmit   : 3 times
Global RADIUS Server Deadtime     : 0 minutes
Global RADIUS Server Key         :
Global RADIUS Server Attribute 4  :
Global RADIUS Server Attribute 95 :
Global RADIUS Server Attribute 32 :
No hosts configured!
AXIS T8508#
```

rmon

RMON statistics.

SYNTAX

show rmon alarm [<1~65535>] [| {begin | exclude | include } <LINE>

show rmon event [<1~65535>] [| {begin | exclude | include } <LINE>

show rmon history [<1~65535>] [| {begin | exclude | include } <LINE>

show rmon statistics [<1~65535>] [| {begin | exclude | include } <LINE>

Parameter

alarm	Display the RMON alarm table
event	Display the RMON event table
history	Display the RMON history table
statistics	Display the RMON statistics table
<1~65535>	Alarm/Event/History/Statistics entry list
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match

include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show rmon alarm
AXIS T8508#
```

running-config

Show running system information.

SYNTAX

show running-config [all-defaults] [| {begin | exclude | include } <LINE>

show running-config feature <CWORD> [all-defaults] [| {begin | exclude | include } <LINE>

show running-config interface <port_type> <port_type_list> [all-defaults] [| {begin | exclude | include } <LINE>

show running-config interface vlan <vlan_list> [all-defaults] [| {begin | exclude | include } <LINE>

show running-config line { console | vty } <range_list> [all-defaults] [| {begin | exclude | include } <LINE>

show running-config vlan <vlan_list> [all-defaults] [| {begin | exclude | include } <LINE>

Parameter

all-defaults	Include most/all default values
feature	Show configuration for specific feature
interface	Show specific interface(s)
line	Show line settings
vlan	VLAN
CWORD	Valid words are 'GVRP' 'access' 'access-list'
	'aggregation' 'arp-inspection' 'auth' 'clock'
	'dhcp' 'dhcp-snooping' 'dns' 'dot1x' 'green-ethernet' 'http' 'icli'
	'ip-igmp-snooping' 'ip-igmp-snooping-port'

'ip-igmp-snooping-vlan' 'ipmc-profile'

'ipmc-profile-range' 'ipv4' 'ipv6'

'ipv6-mld-snooping' 'ipv6-mld-snooping-port' 'ipv6-mld-snooping-vlan'

'lacp' 'lldp' 'logging' 'loop-protect' 'mac' 'mep'

'monitor' 'mstp' 'mvr' 'mvr-port' 'ntp' 'phy' 'poe' 'port'

'port-security' 'pvlan' 'qos' 'rmon' 'sflow'

'snmp' 'source-guard' 'ssh' 'system' 'upnp' 'user'

'vlan' 'voice-vlan'

'web-privilege-group-level'

<port_type > GigabitEthernet

***** All switches or All ports

Gigabitethernet 1 Gigabit Ethernet Port

<port_type_list> Port list in 1/1-26 for Gigabitethernet

<vlan_list> List of VLAN numbers

console Console

vty VTY

<range_list> List of console/VTYs

| Output modifiers

begin Begin with the line that matches

exclude Exclude lines that match

include Include lines that match

<LINE> String to match output lines

EXAMPLE

```
AXIS T8508# show running-config interface vlan 3
Building configuration...
end
AXIS T8508#
```

sflow

Statistics flow..

SYNTAX

show sflow [statistics { receiver | samplers [[<range_list>] <port_type> <port_type_list>] }] [| {begin | exclude | include } <LINE>

Parameter

statistics	sFlow statistics.
receiver	Show statistics for receiver.
samplers	Show statistics for samplers.
<range_list>	runtime, see sflow_icli_functions.c
<port_type >	GigabitEthernet
*	All switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show sflow

Agent Configuration:
====================

Agent Address: 127.0.0.1

Receiver Configuration:
=======================

Owner       : <none>
Receiver    : 0.0.0.0
UDP Port    : 6343
Max. Datagram: 1400 bytes
Time left   : 0 seconds

No enabled collectors (receivers). Skipping displaying per-port info.
AXIS T8508#
```

snmp

Display SNMP configurations.

SYNTAX

show snmp

show snmp access [<GroupName : word32> { v1 | v2c | v3 | any } { auth | noauth | priv }] [| {begin | exclude | include } <LINE>

show snmp community v3 [<Community : word127>] [| {begin | exclude | include } <LINE>

show snmp host [<ConfName : word32>] [system] [switch] [interface] [aaa] [| {begin | exclude | include } <LINE>

show snmp security-to-group [{ v1 | v2c | v3 } <SecurityName : word32>] [| {begin | exclude | include } <LINE>

show snmp user [<UserName : word32> <EngineId : word10-32>] [| {begin | exclude | include } <LINE>

show snmp view [<ViewName : word32> <OidSubtree : word255>] [| {begin | exclude | include } <LINE>

Parameter

access	access configuration
<GroupName : word32>	Group name
v1	v1 security model
v2c	v2c security model
v3	v3 security model
any	any security model
auth	authNoPriv Security Level
noauth	noAuthNoPriv Security Level
priv	authPriv Security Level
community	Community
v3	SNMPv3
<Community : word127>	Specify community name
host	Set SNMP host's configurations
<ConfName : word32>	Name of the host configuration
system	System event group
switch	Switch event group
interface	Interface event group
aaa	AAA event group
security-to-group	security-to-group configuration
<SecurityName : word32>	security group name
user	User
<UserName : word32>	Security user name
<EngineId : word10-32>	Security Engine ID
view	MIB view configuration
<ViewName : word32>	MIB view name

<OidSubtree : word255>	MIB view OID
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show snmp
SNMP Configuration
SNMP Mode                   : enabled
SNMP Version                : 2c
Read Community              : public
Write Community             : private
Trap Mode                   : disabled
Trap Version                : 1

SNMPv3 Communities Table:
Community   : public
Source IP   : 0.0.0.0
Source Mask : 0.0.0.0

Community   : private
Source IP   : 0.0.0.0
Source Mask : 0.0.0.0


SNMPv3 Users Table:
User Name             : default_user
Engine ID             : 800007e5017f000001
-- more --, next page: Space, continue: g, quit: ^C
```

spanning-tree

STP Bridge.

SYNTAX

show spanning-tree [summary | active | { interface <port_type> <port_type_list> } | { detailed [interface <port_type> <port_type_list>] } | { mst [configuration | { <0-7> [interface <port_type> <port_type_list>] }] }] [| {begin | exclude | include } <LINE>

Parameter

summary	STP summary
active	STP active interfaces
interface	Choose port
<port_type>	Gigabitethernet
*	All switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet
detailed	STP statistics
interface	List of port type and port ID, ex, 1/1-26
mst	Configuration
configuration	STP bridge instance no (0-7, CIST=0, MST2=1...)
<0-7>	Choose port
<port_type >	GigabitEthernet
<port_type_list>	Port list in 1/1-26 for Gigabitethernet
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show snmp

SNMP Configuration
SNMP Mode                  : enabled
SNMP Version               : 2c
Read Community             : public
Write Community            : private
Trap Mode                  : disabled
Trap Version               : 1

SNMPv3 Communities Table:
Community   : public
Source IP   : 0.0.0.0
Source Mask : 0.0.0.0

Community   : private
Source IP   : 0.0.0.0
Source Mask : 0.0.0.0


SNMPv3 Users Table:
User Name             : default_user
Engine ID             : 800007e5017f000001
AXIS T8508# show spanning-tree ?
   |          Output modifiers
   active      STP active interfaces
   detailed    STP statistics
   interface   Choose port
   mst         Configuration
   summary     STP summary
   <cr>
AXIS T8508# show spanning-tree
CIST Bridge STP Status
Bridge ID    : 32768.00-40-C7-01-02-03
Root ID      : 32768.00-40-C7-01-02-03
Root Port    : -
```

switchport

Display switching mode characteristics.

SYNTAX

show switchport forbidden [{ vlan <vlan_id> } | { name <word> }] [| {begin | exclude | include } <LINE>

Parameter

forbidden	Lookup VLAN Forbidden port entry.
name	name - Show forbidden access for specific VLAN name.
vlan	vid - Show forbidden access for specific VLAN id.
<vlan_id>	VLAN id
<word>	VLAN name
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show switchport forbidden
Forbidden VLAN table is empty
AXIS T8508#
```

tacacs-server

TACACS+ configuration.

SYNTAX

show tacacs-server [| {begin | exclude | include } <LINE>

Parameter

|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show tacacs-server
Global TACACS+ Server Timeout     : 5 seconds
Global TACACS+ Server Deadtime    : 0 minutes
Global TACACS+ Server Key         :
No hosts configured!
AXIS T8508#
```

system

show system information.

SYNTAX

show system

Parameter

None

EXAMPLE

```
AXIS T8508# show system
Model Name                :
System Description         :
Location                  :
Contact                   :
Platform Name              :
System Date               : 2011-01-01T01:41:34 00:00
System Uptime             : 01:41:34
Bootloader Version         : v1.15a
Firmware Version          : v6.02 2014-09-23
Hardware Version          : v1.02
Mechanical Version         :
Serial Number             : XXXXYYZZZZZZ
MAC Address               : 00-40-c7-01-02-03
Memory                    : Total=84677 KBytes, Free=63281 KBytes,
Max=63281 KBytes
FLASH                     : 0x40000000-0x41ffffff, 512 x 0x10000 blocks
AXIS T8508#
```

terminal

Display terminal configuration parameters.

SYNTAX

show terminal [| {begin | exclude | include } <LINE>

Parameter

|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show terminal
Line is con 0.
    * You are at this line now.
    Alive from Console.
    Default privileged level is 2.
    Command line editing is enabled
    Display EXEC banner is enabled.
    Display Day banner is enabled.
    Terminal width is 80.
            length is 24.
            history size is 32.
            exec-timeout is 10 min 0 second.

    Current session privilege is 15.
    Elapsed time is 0 day 0 hour 29 min 24 sec.
    Idle time is 0 day 0 hour 0 min 0 sec.

AXIS T8508#
```

upnp

Display UPnP configurations.

SYNTAX

show upnp [| {begin | exclude | include } <LINE>

Parameter

|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show upnp
UPnP Mode               : Disabled
UPnP TTL                : 4
UPnP Advertising Duration : 100
AXIS T8508#
```

users

Display information about terminal lines.

SYNTAX

show users myself [| {begin | exclude | include } <LINE>

Parameter

myself	Display information about mine
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show user myself
Line is vty 0.
   * You are at this line now.
   Connection is from 192.168.10.119:4123 by Telnet.
   User name is admin.
   Privilege is 15.
   Elapsed time is 0 day 1 hour 33 min 27 sec.
   Idle time is 0 day 0 hour 0 min 0 sec.
```

version

System hardware and software status.

SYNTAX

show version [| {begin | exclude | include } <LINE>

Parameter

|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show version

MEMORY          : Total=84677 KBytes, Free=63281 KBytes, Max=63281 KBytes
FLASH           : 0x40000000-0x41ffffff, 512 x 0x10000 blocks
MAC Address     : 00-40-c7-01-02-03
Previous Restart : Cold

System Contact   :
System Name      :
System Location  :
System Time      : 2011-01-01T01:43:12+00:00
System Uptime    : 01:43:12

Active Image
------------
Image           : managed
Version         : AXIS T8508 (standalone) v6.02
Date            : 2014-09-23T13:35:25+08:00

Alternate Image
---------------
Image           : managed.bk
Version         :
Date            :

------------------
SID : 1
------------------
Chipset ID      : VSC0
Board Type      : AXIS T8508
Port Count      : 26
Product         : Vitesse AXIS T8508 Switch
Software Version : AXIS T8508 (standalone) v6.02
Build Date      : 2014-09-23T13:35:25+08:00
```

vlan

VLAN status.

SYNTAX

show vlan [id <vlan_list> | name <vword32> | brief]

show vlan protocol [eth2 { <0x600-0xffff> | arp | ip | ipx | at }] [snap { <0x0-0xffffff> | rfc_1042 | snap_8021h } <0x0-0xffff>] [llc <0x0-0xff> <0x0-0xff>]

show vlan status [admin [interface] | all | combined | conflicts | gvrp | interface | mstp | mvr | nas | vcl | voice-vlan] [<port_type ><port_type_list>]

Parameter

id	VLAN status by VLAN id
<vlan_list>	VLAN IDs 1-4095
name	VLAN status by VLAN name
<vword32>	A VLAN name
brief	VLAN summary information
protocol	Protocol-based VLAN status
eth2	Ethernet protocol based VLAN status
<0x600-0xffff>	Ether Type(Range: 0x600 - 0xFFFF)
arp	Ether Type is ARP
ip	Ether Type is IP
ipx	Ether Type is IPX
at	Ether Type is AppleTalk
snap	SNAP-based VLAN status
<0x0-0xffffff>	SNAP OUI (Range 0x000000 - 0XFFFFFF)
rfc_1042	SNAP OUI is rfc_1042
snap_8021h	SNAP OUI is 8021h

<0x0-0xffff>	PID (Range: 0x0 - 0xFFFF)
llc	LLC-based VLAN status
<0x0-0xff>	DSAP (Range: 0x00 - 0xFF)
<0x0-0xff>	SSAP (Range: 0x00 - 0xFF)
admin	Show the VLANs configured by administrator.
all	Show all VLANs configured.
combined	Show the VLANs configured by a combination.
conflicts	Show VLANs configurations that has conflicts.
gvrp	Show the VLANs configured by GVRP.
interface	Show the VLANs configured for a specific interface(s).
mstp	Show the VLANs configured by MSTP.
mvr	Show the VLANs configured by MVR.
nas	Show the VLANs configured by NAS.
vcl	Show the VLANs configured by VCL.
voice-vlan	Show the VLANs configured by Voice VLAN.
interface	Show the VLANs configured for a specific interface(s).
<port_type >	GigabitEthernet
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet

EXAMPLE

```
AXIS T8508# show vlan
VLAN  Name                            Interfaces
----  ------------------------------  ----------
1     default                         Gi 1/1-26

AXIS T8508#
```

voice

Voice appliance attributes.

SYNTAX

show voice vlan [oui <oui> | interface <port_type> <port_type_list>] [| {begin | exclude | include } <LINE>

Parameter

vlan	Vlan for voice traffic
oui	OUI configuration
<oui>	OUI value
interface	Select an interface to configure
<port_type>	* or Gigabitethernet
*****	All Switches or All ports
Gigabitethernet	1 Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-26 for Gigabitethernet
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show voice vlan
Switch voice vlan is disabled
Switch voice vlan ID is 1000
Switch voice vlan aging-time is 86400 seconds
Switch voice vlan traffic class is 7

Telephony OUI  Description
-------------  -----------
00-01-E3       Siemens AG phones
00-03-6B       Cisco phones
00-0F-E2       H3C phones
00-60-B9       Philips and NEC AG phones
00-D0-1E       Pingtel phones
00-E0-75       Polycom phones
00-E0-BB       3Com phones

Voice VLAN switchport is configured on following:
```

```
GigabitEthernet 1/1 :
---------------------
GigabitEthernet 1/1 switchport voice vlan mode is disabled
GigabitEthernet 1/1 switchport voice security is disabled
GigabitEthernet 1/1 switchport voice discovery protocol is oui
-- more --, next page: Space, continue: g, quit: ^C
```

web

web.

SYNTAX

show web privilege group [<cword>] level [| {begin | exclude | include } <LINE>

Parameter

privilege	Web privilege
group	Web privilege group

CWORD	Valid words are 'Aggregation' 'DHCP' 'Debug' 'Dhcp_Client' 'Diagnostics' 'EEE' 'GARP' 'GVRP' 'Green_Ethernet' 'IP2' 'IPMC_Snooping' 'LACP' 'LLDP' 'Loop_Protect' 'MAC_Table' 'MVR' 'Maintenance' 'Mirroring' 'NTP' 'POE' 'Ports' 'Private_VLANs' 'QoS' 'RPC' 'Security' 'Spanning_Tree' 'System' 'Timer' 'UPnP' 'VCL' 'VLANs' 'Voice_VLAN' 'XXRP' 'sFlow' 'sFlow'
level	Web privilege group level
|	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
AXIS T8508# show web privilege group level
Group Name                     Privilege Level
                              CRO CRW SRO SRW
-------------------------------- --- --- --- ---
ACTIVATE                       5  10   5  10
Aggregation                    5  10   5  10
cloud_management               5  10   5  10
Debug                         15  15  15  15
DHCP                           5  10   5  10
Dhcp_Client                    5  10   5  10
Diagnostics                    5  10   5  10
EEE                            5  10   5  10
GARP                           5  10   5  10
Green_Ethernet                 5  10   5  10
GVRP                           5  10   5  10
IP2                            5  10   5  10
IPMC_Snooping                  5  10   5  10
LACP                           5  10   5  10
LLDP                           5  10   5  10
Loop_Protect                   5  10   5  10
MAC_Table                      5  10   5  10
Maintenance                   15  15  15  15
Mirroring                      5  10   5  10
MVR                            5  10   5  10
NTP                            5  10   5  10
POE                            5  10   5  10
Ports                          5  10   1  10
Private_VLANs                  5  10   5  10
QoS                            5  10   5  10
RPC                            5  10   5  10
Security                       5  10   5  10
sFlow                          5  10   5  10
Spanning_Tree                  5  10   5  10
System                         5  10   1  10
Timer                          5  10   5  10
Trap Event                     5  10   5  10
```

TERMINAL of CLI

Set terminal line parameters

Syntax

terminal editing

terminal exec-timeout <0-1440> [<0-3600>]

terminal help

terminal history size <0-32>

terminal length <0 or 3-512>

terminal width <0 or 40-512>

Parameter

editing	Enable command line editing
exec-timeout	Set the EXEC timeout
help	Description of the interactive help system
history	Control the command history function
length	Set number of lines on a screen
width	Set width of the display terminal
<0-1440>	Timeout in minutes
<0-3600>	Timeout in seconds
size	Set history buffer size
<0-32>	Number of history commands, 0 means disable
<0 or 3-512>	Number of lines on screen (0 for no pausing)
<0 or 40-512>	Number of characters on a screen line (0 for unlimited width)

EXAMPLE

```
AXIS T8508# terminal help
Help may be requested at any point in a command by entering
a question mark '?'.  If nothing matches, the help list will
be empty and you must backup until entering a '?' shows the
available options.
Two styles of help are provided:
1. Full help is available when you are ready to enter a
   command argument (e.g. 'show ?') and describes each possible
   argument.
2. Partial help is provided when an abbreviated argument is entered
   and you want to know what arguments match the input
   (e.g. 'show pr?'.)

AXIS T8508#
```

IP of CLI

IPv4 commands

Syntax

ip dhcp retry interface vlan <vlan_id>

Parameter

dhcp	Dhcp commands
retry	Restart the DHCP query process
interface	Interface
vlan	Vlan interface
<vlan_id>	Vlan ID

EXAMPLE

```
AXIS T8508# ip dhcp retry interface vlan 1
% Failed to restart DHCP client on VLAN = 1.
```

Traceroute

Copy from source to destination

SYNTAX

traceroute ip <v_ip_addr> [protocol { icmp | udp | tcp }] [wait <v_wait_time>] [ttl <v_max_ttl>] [nqueries <v_nqueries>]

Parameter

ip	IP
<word1-255>	destination address
nqueries	Specify number of probe packets
protocol	Specify protocol including icmp, udp and tcp
ttl	Specify max TTL
wait	Specify wait time

EXAMPLE

```
AXIS T8508# traceroute ip 22 nqueries 3 protocol icmp ttl 3 wait 3
traceroute to 22 (0.0.0.22), 3 hops max, 140 byte packets
 1  * * *
 2  * * *
 3  * * *
AXIS T8508#
```

CLI COMMAND REFERENCEs

This chapter introduces the CLI privilege level and command modes.

- The privilege level determines whether or not the user could run the particular commands
- If the user could run the particular command, then the user has to run the command in the correct mode.

Privilege level

Every command has a privilege level (0-15). Users can run a command if the session's privilege level is greater than or equal to the command's privilege level. The session's privilege level initially comes from the login account's privilege level, though it is possible to change the session's privilege level after logging in.

PRIVILEGE LEVEL	TYPES OF COMMANDS AT THIS PRIVILEGE LEVEL
0	Display basic system information
13	Configure features except for login accounts, the authentication method sequence, multiple logins, and administrator and enable passwords.
15	Configure login accounts, the authentication method sequence, multiple logins, and administrator and enable passwords.

Command modes

The CLI is divided into several modes. If a user has enough privilege to run a particular command, the user has to run the command in the correct mode. The modes that are available depend on the session's privilege level.

COMMAND	DESCRIPTION	P	M
show access management	Use the show access management user EXEC command without keywords to display the access management configuration, or use the statistics keyword to display statistics, or use the <AccessId> keyword to display the specific access management entry.	15	EXEC
clear access management statistics	Use the clear access management statistics privileged EXEC command to clear the statistics maintained by access management.	15	EXEC
access management	Use the access management global configuration command to enable the access management. Use the no form of this command to disable the access management.	15	GLOBAL_CONFIG
access management <1-16> <1-4094> <ipv4_addr> [to <ipv4_addr>] { [web] [snmp] [telnet] | all }	Use the access management <AccessId> global configuration command to set the access management entry for IPv4 address.	15	GLOBAL_CONFIG
access management <1-16> <1-4094> <ipv6_addr> [to <ipv6_addr>] { [web] [snmp] [telnet] | all }	Use the access management <AccessId> global configuration command to set the access management entry for IPv6 address.	15	GLOBAL_CONFIG
no access management <1~16>	Use the no access management <AccessIdList> global configuration command to delete the specific access management entry.	15	GLOBAL_CONFIG
access-list action { permit | deny }	Use the access-list action interface configuration command to configure access-list action. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list rate-limiter <1-16>	Use the access-list rate-limiter interface configuration command to configure the access-list rate-limiter ID . The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
no access-list rate-limiter	Use the no access-list rate-limiter interface	15	INTERFACE_PORT_LIST

	configuration command to disable the access-list rate-limiter. The access-list interface configuration will affect the received frames if it doesn't match any ACE.		
access-list { redirect | port-copy } interface { <port_type_id> | <port_type_list> }	Use the no access-list redirect interface configuration command to configure the access-list redirect interface.	15	INTERFACE_PORT_LIST
no access-list { redirect | port-copy }	Use the no access-list redirect interface configuration command to disable the access-list redirect. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list mirror	Use the access-list mirror interface configuration command to enable access-list mirror. Use the no form of this command to disable access-list mirror. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list logging	Use the access-list logging interface configuration command to enable access-list logging. Use the no form of this command to disable access-list logging. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list shutdown	Use the access-list shutdown interface configuration command to enable access-list shutdown. Use the no form of this command to disable access-list shutdown. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list evc-policer <1-256>	Use the access-list evc-policer interface configuration command to configure the access-list evc-policer ID. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST

no access-list evc-policer	Use the no access-list evc-policer interface configuration command to configure the access-list evc-policer ID. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list policy <0-255>	Use the access-list policy interface configuration command to configure the access-list policy value. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
no access-list policy	Use the no access-list policy interface configuration command to restore the default access-list policy ID. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list port-state	Use the access-list port-state interface configuration command to enable access-list port state. Use the no form of this command to disable access-list port state.	15	INTERFACE_PORT_LIST
access-list rate-limiter [<1~16>] { pps <1,2,4,8,16,32,64,128,256,512>| 100pps <1-32767> | kpps <1,2,4,8,16,32,64,128,256,512,1024> | 100kbps <0-10000> }	Use the access-list rate-limiter global configuration command to configure the access-list rate-limiter.	15	INTERFACE_PORT_LIST
default access-list rate-limiter [<1~16>]	Use the default access-list rate-limiter global configuration command to restore the default setting of access-list rate-limiter.	15	GLOBAL_CONFIG
access-list ace [update] <1-256> [next {<1-256>|last}] [ingress {switch <switch_id>|switchport {<1-53>|<1~53>}|interface {<port_type_id>|<port_type_list>}|any}] [policy <0-255> [policy-bitmask <0x0-0xFF>]] [tag {tagged|untagged|any}] [vid {<1-4095>|any}] [tag-priority {<0-7>|0-1|2-3|4-5|6-7|0-3|4-7|any}] [dmac-type {unicast|multicast|broadcast|any}] [frametype { any| etype [etype-value {<0x600-0x7ff,0x801-0x805,0x807-0x86dc,0x86de-0xffff>|any}] [smac {<mac_addr>|any}] [dmac {<mac_addr>|any}]| arp [sip {<ipv4_subnet>|any}] [dip {<ipv4_subnet>|any}]	Use the access-list ace global configuration command to set the access-list ace. The command without the update keywrod will creates or overwrites an existing ACE, any unspecified parameter will be set to its default value. Use the update keyword to update an existing ACE and only specified parameter are modified. The ACE must ordered by an appropriate sequence, the received frame will only be hit on the first matched ACE. Use the next or last keyword to adjust the ACE's sequence order.	15	GLOBAL_CONFIG

[smac {<mac_addr>|any}] [arp-opcode {arp|rarp|other|any}] [arp-flag [arp-request {<0-1>|any}] [arp-smac {<0-1>|any}] [arp-tmac {<0-1>|any}] [arp-len {<0-1>|any}] [arp-ip {<0-1>|any}] [arp-ether {<0-1>|any}]]| ipv4 [sip {<ipv4_subnet>|any}] [dip {<ipv4_subnet>|any}] [ip-protocol {<0,2-5,7-16,18-255>|any}] [ip-flag [ip-ttl {<0-1>|any}] [ip-options {<0-1>|any}] [ip-fragment {<0-1>|any}]]| ipv4-icmp [sip {<ipv4_subnet>|any}] [dip {<ipv4_subnet>|any}] [icmp-type {<0-255>|any}] [icmp-code {<0-255>|any}] [ip-flag [ip-ttl {<0-1>|any}] [ip-options {<0-1>|any}] [ip-fragment {<0-1>|any}]]| ipv4-udp [sip {<ipv4_subnet>|any}] [dip {<ipv4_subnet>|any}] [sport {<0-65535> [to <0-65535>]|any}] [dport {<0-65535> [to <0-65535>]|any}] [ip-flag [ip-ttl {<0-1>|any}] [ip-options {<0-1>|any}] [ip-fragment {<0-1>|any}]]| ipv4-tcp [sip {<ipv4_subnet>|any}] [dip {<ipv4_subnet>|any}] [sport {<0-65535> [to <0-65535>]|any}] [dport {<0-65535> [to <0-65535>]|any}] [ip-flag [ip-ttl {<0-1>|any}] [ip-options {<0-1>|any}] [ip-fragment {<0-1>|any}]] [tcp-flag [tcp-fin {<0-1>|any}] [tcp-syn {<0-1>|any}] [tcp-rst {<0-1>|any}] [tcp-psh {<0-1>|any}] [tcp-ack {<0-1>|any}] [tcp-urg {<0-1>|any}]]| ipv6 [next-header {<0-5,7-16,18-57,59-255>|any}] [sip {<ipv6_addr> [sip-bitmask <uint>]|any}] [hop-limit {<0-1>|any}]| ipv6-icmp [sip {<ipv6_addr> [sip-bitmask <uint>]|any}] [icmp-type {<0-255>|any}] [icmp-code {<0-255>|any}] [hop-limit {<0-1>|any}]| ipv6-udp [sip {<ipv6_addr> [sip-bitmask <uint>]|any}] [sport {<0-65535> [to <0-65535>]|any}] [dport {<0-65535> [to <0-65535>]|any}] [hop-limit {<0-1>|any}]| ipv6-tcp [sip {<ipv6_addr> [sip-bitmask <uint>]|any}] [sport {<0-65535> [to <0-65535>]|any}] [dport {<0-65535> [to <0-65535>]|any}] [hop-limit {<0-1>|any}] [tcp-flag [tcp-fin {<0-1>|any}] [tcp-syn {<0-1>|any}] [tcp-rst {<0-1>|any}] [tcp-psh {<0-1>|any}] [tcp-ack {<0-1>|any}] [tcp-urg {<0-1>|any}]]}] [action			

{permit|deny|filter {switchport <1~53>|interface <port_type_list>}}] [rate-limiter {<1-16>|disable}] [evc-policer {<1-256>|disable}] [{redirect|port-copy} {switchport {<1-53>|<1~53>}|interface {<port_type_id>|<port_type_list>}|disable}] [mirror [disable]] [logging [disable]] [shutdown [disable]] [lookup [disable]]			
no access-list ace <1~256>	Use the no access-list ace global configuration command to delete the access-list ace.	15	GLOBAL_CONFIG
show access-list [interface [<port_type_list>]] [rate-limiter [<1~16>]] [ace statistics [<1~256>]]	Use the show access-list privilege EXEC command without keywords to display the access-list configuration, or particularly the show access-list interface for the access-list interface configuration, or use the rate-limiter keyword to display access-list rate-limiter configuration, or use the ace keyword to display access-list ace configuration.	15	EXEC
clear access-list ace statistics	Use the clear access-list ace statistics privileged EXEC command to clear the statistics maintained by access-list, including access-list interface statistics and ACE's statistics.	15	EXEC
show access-list ace-status [static] [link-oam] [loop-protect] [dhcp] [ptp] [upnp] [arp-inspection] [mep] [ipmc] [ip-source-guard] [ip-mgmt] [conflicts] [switch <switch_list>]	Use the show access-list ace-status privilege EXEC command without keywords to display the access-list ace status for all access-list users, or particularly the access-list user for the access-list ace status. Use conflicts keyword to display the access-list ace that doesn't apply on on the hardware. In other word, it means the specific ACE is not applied to the hardware due to hardware limitations.	15	EXEC
show aggregation [mode]		15	EXEC
aggregation mode { [smac] [dmac] [ip] [port] }		15	GLOBAL_CONFIG
no aggregation mode		15	GLOBAL_CONFIG
aggregation group <uint>		15	INTERFACE_PORT_LIST

no aggregation group		15	INTERFACE_PORT_LIST
ip arp inspection	Use the ip arp inspection global configuration command to globally enable ARP inspection. Use the no form of this command to globally disable ARP inspection.	13	GLOBAL_CONFIG
ip arp inspection vlan <vlan_list>	Use the ip arp inspection global configuration command to globally enable ARP inspection. Use the no form of this command to globally disable ARP inspection.	13	GLOBAL_CONFIG
ip arp inspection vlan <vlan_list> logging { deny | permit | all }		13	GLOBAL_CONFIG
no ip arp inspection vlan <vlan_list> logging		13	GLOBAL_CONFIG
ip arp inspection entry interface <port_type_id> <vlan_id> <mac_ucast> <ipv4_ucast>		13	GLOBAL_CONFIG
arp_inspection_translate		13	GLOBAL_CONFIG
arp_inspection_port_mode	Use the ip arp inspection trust interface configuration command to configure a port as trusted for ARP inspection purposes. Use the no form of this command to configure a port as untrusted.	13	INTERFACE_PORT_LIST
arp_inspection_port_check_vlan	Use the ip arp inspection check-vlan interface configuration command to configure a port as VLAN mode for ARP inspection purposes. Use the no form of this command to configure a port as default.	13	INTERFACE_PORT_LIST
ip arp inspection logging { deny | permit | all }	Use the ip arp inspection logging interface configuration command to configure a port as some logging mode for ARP inspection purposes. Use the no form of this command to configure a port as logging none.	13	INTERFACE_PORT_LIST
no ip arp inspection logging	Use the no ip arp inspection logging interface configuration command to configure a port as default logging mode for ARP inspection purposes.	13	INTERFACE_PORT_LIST

show ip arp inspection [interface <port_type_list> | vlan <vlan_list>]		0	EXEC
show ip arp inspection entry [dhcp-snooping | static] [interface <port_type_list>]		13	EXEC
aaa authentication login { console | telnet | ssh | http } { [local | radius | tacacs] ... }	Use the aaa authentication login command to configure the authentication methods.	15	GLOBAL_CONFIG
no aaa authentication login { console | telnet | ssh | http }		15	GLOBAL_CONFIG
radius-server timeout <1-1000>	Use the radius-server timeout command to configure the global RADIUS timeout value.	15	GLOBAL_CONFIG
no radius-server timeout	Use the no radius-server timeout command to reset the global RADIUS timeout value to default.	15	GLOBAL_CONFIG
radius-server retransmit <1-1000>	Use the radius-server retransmit command to configure the global RADIUS retransmit value.	15	GLOBAL_CONFIG
no radius-server retransmit	Use the no radius-server retransmit command to reset the global RADIUS retransmit value to default.	15	GLOBAL_CONFIG
radius-server deadtime <1-1440>	Use the radius-server deadtime command to configure the global RADIUS deadtime value.	15	GLOBAL_CONFIG
no radius-server deadtime	Use the no radius-server deadtime command to reset the global RADIUS deadtime value to default.	15	GLOBAL_CONFIG
radius-server key <line1-63>	Use the radius-server key command to configure the global RADIUS key.	15	GLOBAL_CONFIG
no radius-server key	Use the no radius-server key command to remove the global RADIUS key.	15	GLOBAL_CONFIG
radius-server attribute 4 <ipv4_ucast>		15	GLOBAL_CONFIG
no radius-server attribute 4		15	GLOBAL_CONFIG
radius-server attribute 95 <ipv6_ucast>		15	GLOBAL_CONFIG
no radius-server attribute 95		15	GLOBAL_CONFIG
radius-server attribute 32 <line1-253>		15	GLOBAL_CONFIG
no radius-server attribute 32		15	GLOBAL_CONFIG
radius-server host <word1-255> [auth-port <0-65535>] [acct-port <0-65535>] [timeout <1-1000>] [retransmit <1-1000>] [key <line1-63>]	Use the radius-server host command to add a new RADIUS host.	15	GLOBAL_CONFIG

no radius-server host <word1-255> [auth-port <0-65535>] [acct-port <0-65535>]	Use the no radius-server host command to delete an existing RADIUS host.	15	GLOBAL_CONFIG
tacacs-server timeout <1-1000>	Use the tacacs-server timeout command to configure the global TACACS+ timeout value.	15	GLOBAL_CONFIG
no tacacs-server timeout	Use the no tacacs-server timeout command to reset the global TACACS+ timeout value to default.	15	GLOBAL_CONFIG
tacacs-server deadtime <1-1440>	Use the tacacs-server deadtime command to configure the global TACACS+ deadtime value.	15	GLOBAL_CONFIG
no tacacs-server deadtime	Use the no tacacs-server deadtime command to reset the global TACACS+ deadtime value to default.	15	GLOBAL_CONFIG
tacacs-server key <line1-63>	Use the tacacs-server key command to configure the global TACACS+ key.	15	GLOBAL_CONFIG
no tacacs-server key	Use the no tacacs-server key command to remove the global TACACS+ key.	15	GLOBAL_CONFIG
tacacs-server host <word1-255> [port <0-65535>] [timeout <1-1000>] [key <line1-63>]	Use the tacacs-server host command to add a new TACACS+ host.	15	GLOBAL_CONFIG
no tacacs-server host <word1-255> [port <0-65535>]	Use the no tacacs-server host command to delete an existing TACACS+ host.	15	GLOBAL_CONFIG
show aaa	Use the show aaa command to view the currently active authentication login methods.	15	GLOBAL_CONFIG
show radius-server [statistics]	Use the show radius-server command to view the current RADIUS configuration and statistics.	15	EXEC
show tacacs-server	Use the show tacacs-server command to view the current TACACS+ configuration.	15	EXEC
debug auth { console | telnet | ssh | http } <word31> [<word31>]		debug	EXEC
clock summer-time <word16> recurring [<1-5> <1-7> <1-12> <hhmm> <1-5> <1-7> <1-12> <hhmm> [<1-1440>]]		13	GLOBAL_CONFIG
clock summer-time <word16> date [<1-12> <1-31> <2000-2097> <hhmm> <1-12> <1-31> <2000-2097> <hhmm> [<1-1440>]]		13	GLOBAL_CONFIG

no clock summer-time		13	GLOBAL_CONFIG
clock timezone <word16> <-23-23> [<0-59>]		13	GLOBAL_CONFIG
no clock timezone		13	GLOBAL_CONFIG
show clock detail		0	EXEC
clock summer-time <word16> recurring [<1-5> <1-7> <1-12> <hhmm> <1-5> <1-7> <1-12> <hhmm> [<1-1440>]]		13	GLOBAL_CONFIG
clock summer-time <word16> date [<1-12> <1-31> <2000-2097> <hhmm> <1-12> <1-31> <2000-2097> <hhmm> [<1-1440>]]		13	GLOBAL_CONFIG
no clock summer-time		13	GLOBAL_CONFIG
clock timezone <word16> <-23-23> [<0-59>]		13	GLOBAL_CONFIG
no clock timezone		13	GLOBAL_CONFIG
show clock detail		0	EXEC
show ip dhcp detailed statistics { server | client | snooping | relay | normal-forward | combined } [interface <port_type_list>]	Use the show ip dhcp detailed statistics user EXEC command to display statistics. Notice that the normal forward per-port TX statistics isn't increased if the incoming DHCP packet is done by L3 forwarding mechanism. Notice that the normal forward per-port TX statistics isn't increased if the incoming DHCP packet is done by L3 forwarding mechanism.	0	EXEC
clear ip dhcp detailed statistics { server | client | snooping | relay | helper | all } [interface <port_type_list>]	Use the clear ip dhcp detailed statistics privileged EXEC command to clear the statistics, or particularly the IP DHCP statistics for the interface. Notice that except for clear statistics on all interfaces, clear the statistics on specific port may not take effect on global statistics since it gathers the different layer overview.	15	EXEC
clear ip dhcp relay statistics	Use the clear ip dhcp relay statistics privileged EXEC command to clear the statistics maintained by IP DHCP realy.	15	EXEC
show ip dhcp relay [statistics]	Use the show ip dhcp relay user EXEC command without keywords to display the DHCP relay configuration, or use the statistics keyword to display statistics.	0	EXEC

ip dhcp relay	Use the ip dhcp relay global configuration command to enable the DHCP relay server. Use the no form of thiscommand to disable the DHCP relay server.	15	GLOBAL_CONFIG
ip helper-address <ipv4_ucast>	Use the ip helper-address global configuration command to configure the host address of DHCP relay server.	15	GLOBAL_CONFIG
no ip helper-address	Use the no ip helper-address global configuration command to clear the host address of DHCP relay server.	15	GLOBAL_CONFIG
ip dhcp relay information option	Use the ip dhcp relay information option global configuration command to enable the DHCP relay information option. Use the no form of this command to disable the DHCP relay information option. The option 82 circuit ID format as "[vlan_id][module_id][port_no]". The first four characters represent the VLAN ID, the fifth and sixth characters are the module ID(in standalone device it always equal 0, in stackable device it means switch ID), and the last two characters are the port number. For example, "00030108" means the DHCP message receive form VLAN ID 3, switch ID 1, port No 8. And the option 82 remote ID value is equal the switch MAC address.	15	GLOBAL_CONFIG
ip dhcp relay information policy { drop | keep | replace }	Use the ip dhcp relay information policy global configuration command to configure the DHCP relay information policy. When DHCP relay information mode operation is enabled, if the agent receives a DHCP message that already contains relay agent information it will enforce the policy. The 'Replace' policy is invalid when relay information mode is disabled.	15	GLOBAL_CONFIG
no ip dhcp relay information policy	Use the ip dhcp relay information policy global configuration command to restore	15	GLOBAL_CONFIG

	the default DHCP relay information policy.		
show ip dhcp pool [<word32>]		0	EXEC
show ip dhcp pool counter [<word32>]		debug	EXEC
show ip dhcp excluded-address		0	EXEC
show ip dhcp server binding [state {allocated | committed | expired}] [type {automatic | manual | expired}]		0	EXEC
show ip dhcp server binding <ipv4_ucast>		0	EXEC
show ip dhcp server		0	EXEC
show ip dhcp server statistics		0	EXEC
show ip dhcp server declined-ip		0	EXEC
show ip dhcp server declined-ip <ipv4_addr>		0	EXEC
clear ip dhcp server binding <ipv4_ucast>		13	EXEC
clear ip dhcp server binding { automatic | manual | expired }		13	EXEC
clear ip dhcp server statistics		13	EXEC
ip dhcp server		13	GLOBAL_CONFIG
ip dhcp excluded-address <ipv4_addr> [<ipv4_addr>]		13	GLOBAL_CONFIG
no ip dhcp pool <word32>		13	GLOBAL_CONFIG
ip dhcp server		13	INTERFACE_VLAN
network <ipv4_addr> <ipv4_netmask>		13	DHCP_POOL
no network		13	DHCP_POOL
broadcast <ipv4_addr>		13	DHCP_POOL
no broadcast		13	DHCP_POOL
default-router <ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast>]]]		13	DHCP_POOL
no default-router		13	DHCP_POOL
lease { <0-365> [<0-23> [<uint>]] | infinite }		13	DHCP_POOL
no lease		13	DHCP_POOL
domain-name <word128>		13	DHCP_POOL
no domain-name		13	DHCP_POOL
dns-server <ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast>]]]		13	DHCP_POOL
no dns-server		13	DHCP_POOL
ntp-server <ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast>]]]		13	DHCP_POOL
no ntp-server		13	DHCP_POOL

netbios-name-server <ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast>]]]		13	DHCP_POOL
no netbios-name-server		13	DHCP_POOL
netbios-node-type { b-node | h-node | m-node | p-node }		13	DHCP_POOL
no netbios-node-type		13	DHCP_POOL
netbios-scope <line128>		13	DHCP_POOL
no netbios-scope		13	DHCP_POOL
nis-domain-name <word128>		13	DHCP_POOL
no nis-domain-name		13	DHCP_POOL
nis-server <ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast>]]]		13	DHCP_POOL
no nis-server		13	DHCP_POOL
host <ipv4_ucast> <ipv4_netmask>		13	DHCP_POOL
no host		13	DHCP_POOL
client-identifier { fqdn <line128> | mac-address <mac_addr> }		13	DHCP_POOL
no client-identifier		13	DHCP_POOL
hardware-address <mac_ucast>		13	DHCP_POOL
no hardware-address		13	DHCP_POOL
client-name <word32>		13	DHCP_POOL
no client-name		13	DHCP_POOL
vendor class-identifier <string64> specific-info <hexval32>		13	DHCP_POOL
no vendor class-identifier <string64>		13	DHCP_POOL
debug dhcp server memsize		debug	EXEC
debug dhcp server declined add <ipv4_addr>		debug	EXEC
debug dhcp server declined delete <ipv4_addr>		debug	EXEC
show ip dhcp snooping [interface <port_type_list>]	Use the show ip dhcp snooping user EXEC command to display the DHCP snooping configuration.	0	EXEC
show ip dhcp snooping [statistics] [interface <port_type_list>]	Use the show ip dhcp snooping user EXEC command without keywords to display the DHCP snooping configuration, or particularly the ip dhcp snooping statistics for the interface, or use the statistics keyword to display statistics.	0	EXEC

clear ip dhcp snooping statistics [interface <port_type_list>]	Use the clear ip dhcp snooping statistics privileged EXEC command to clear the statistics maintained by IP DHCP snooping, or particularly the IP DHCP snooping statistics for the interface.	15	EXEC
ip dhcp snooping	Use the ip dhcp snooping global configuration command to globally enable DHCP snooping. Use the no form of this command to globally disable DHCP snooping.	15	GLOBAL_CONFIG
dhcp_snooping_port_mode	Use the ip dhcp snooping trust interface configuration command to configure a port as trusted for DHCP snooping purposes. Use the no form of this command to configure a port as untrusted.	15	INTERFACE_PORT_LIST
show ip dhcp snooping table	Use the show ip dhcp snooping table user EXEC command to display the IP assigned information that is obtained from DHCP server except for local VLAN interface IP addresses.	15	EXEC
ip name-server { <ipv4_ucast> | dhcp [interface vlan <vlan_id>] }	Set the DNS server for resolving domain names	15	GLOBAL_CONFIG
no ip name-server	Stop resolving domain names by accessing DNS server	15	GLOBAL_CONFIG
show ip name-server	Display the active domain name server information	0	EXEC
ip dns proxy	Enable DNS proxy service	15	GLOBAL_CONFIG
show version	Use show version to display firmware information.	0	EXEC
firmware upgrade <word>	Use firmware upgrade to load new firmware image to the switch.	15	EXEC
firmware swap	Use firmware swap to swap the active and alternative firmware images.	15	EXEC
show green-ethernet fan	Shows Fan status (chip Temperature and fan speed).	15	GLOBAL_CONFIG
green-ethernet fan temp-on <-127-127>	Sets temperature at which to turn fan on to the lowest speed.	15	GLOBAL_CONFIG
no green-ethernet fan temp-on	Sets temperature at which to turn fan on to	15	GLOBAL_CONFIG

	the lowest speed to default.		
green-ethernet fan temp-max <-127-127>	Sets temperature where the fan must be running at full speed.	15	GLOBAL_CONFIG
no green-ethernet fan temp-max	Sets temperature at which the fan shall be running at full speed to default.	15	GLOBAL_CONFIG
green-ethernet led interval <0~24> intensity <0-100>	Use green-ethernet led interval to configure the LED intensity at specific interval of the day.	15	GLOBAL_CONFIG
no green-ethernet led interval <0~24>		15	GLOBAL_CONFIG
green-ethernet led on-event { [link-change <0-65535>] [error] }*1	Use green-ethernet led on-event to configure when to turn LEDs intensity to 100%%.	15	GLOBAL_CONFIG
no green-ethernet led on-event [link-change] [error]		15	GLOBAL_CONFIG
show green-ethernet eee [interface <port_type_list>]	Shows Green Ethernet EEE status.	15	EXEC
show green-ethernet short-reach [interface <port_type_list>]	Shows Green Ethernet short-reach status.	15	EXEC
show green-ethernet energy-detect [interface <port_type_list>]	Shows Green Ethernet energy-detect status.	15	EXEC
show green-ethernet [interface <port_type_list>]	Shows Green Ethernet status.	15	EXEC
green-ethernet eee	Sets EEE mode.	15	INTERFACE_PORT_LIST
green-ethernet eee urgent-queues [<range_list>]	Sets EEE urgeent queues.	15	INTERFACE_PORT_LIST
green-ethernet eee optimize-for-power	Sets if EEE should be optimized for least traffic latency or least power comsumption	15	GLOBAL_CONFIG
green-ethernet energy-detect	Enables energy-detect power savings.	15	INTERFACE_PORT_LIST
green-ethernet short-reach	Enables short-reach power savings.	15	INTERFACE_PORT_LIST
show ip http server secure status	Use the show ip http server secure status privileged EXEC command to display the secure HTTP web server status.	15	EXEC
ip http secure-server	Use the ip http secure-server global configuration command to enable the secure HTTP web server. Use the no form of this command to disable the secure HTTP web server.	15	GLOBAL_CONFIG
ip http secure-redirect	Use the http secure-redirect global configuration command to enable the secure HTTP web redirection. When the secure HTTP web server is enabled, the feature automatic redirect the none secure	15	GLOBAL_CONFIG

	HTTP web connection to the secure HTTP web connection. Use the no form of this command to disable the secure HTTP web redirection.		
reload { { { cold | warm } [sid <1-16>] } | { defaults [keep-ip] } }	Reload system, either cold (reboot) or restore defaults without reboot.	15	EXEC
show running-config [all-defaults]		15	EXEC
show running-config feature <cword> [all-defaults]		15	EXEC
show running-config interface <port_type_list> [all-defaults]		15	EXEC
show running-config interface vlan <vlan_list> [all-defaults]		15	EXEC
show running-config vlan <vlan_list> [all-defaults]		15	EXEC
show running-config line { console | vty } <range_list> [all-defaults]		15	EXEC
copy { startup-config | running-config | <word> } { startup-config | running-config | <word> } [syntax-check]		15	EXEC
dir		15	EXEC
more <word>		15	EXEC
delete <word>		debug	EXEC
debug icfg wipe-flash-fs-conf-block		debug	EXEC
debug icfg wipe-specific-block {local|global} <uint>		debug	EXEC
debug icfg silent-upgrade status		debug	EXEC
debug icfg dir		debug	EXEC
debug icfg error-trace <line>		debug	EXEC
ip routing	Enable routing for IPv4 and IPv6	15	GLOBAL_CONFIG
no ip routing	Disable routing for IPv4 and IPv6	15	GLOBAL_CONFIG
ip address {{<ipv4_addr> <ipv4_netmask>} | {dhcp [fallback <ipv4_addr> <ipv4_netmask> [timeout <uint>]]}}	IP address configuration	15	INTERFACE_VLAN
ip dhcp retry interface vlan <vlan_id>	Restart the dhcp client	15	EXEC
no ip address	IP address configuration	15	INTERFACE_VLAN
ip route <ipv4_addr> <ipv4_netmask> <ipv4_addr>	Add new IP route	15	GLOBAL_CONFIG
no ip route <ipv4_addr> <ipv4_netmask> <ipv4_addr>	Delete an existing IP route	15	GLOBAL_CONFIG
show interface vlan [<vlan_list>]	Vlan interface status	15	EXEC
show ip interface brief	Brief IP interface status	0	EXEC

show ip arp	Print ARP table	0	EXEC
clear ip arp	Clear ARP cache	0	EXEC
show ip route	Routing table status	0	EXEC
ping ip <word1-255> [repeat <1-60>] [size <2-1452>] [interval <0-30>]		0	EXEC
clear ip statistics [system] [interface vlan <vlan_list>] [icmp] [icmp-msg <0~255>]		0	EXEC
show ip statistics [system] [interface vlan <vlan_list>] [icmp] [icmp-msg <0~255>]		0	EXEC
debug ipstack log [ERR|NOERR] [WARNING|NOWARNING] [NOTICE|NONOTICE] [INFO|NOINFO] [DEBUG|NODEBUG] [MDEBUG|NOMDEBUG] [IOCTL|NOIOCTL] [INIT|NOINIT] [ADDR|NOADDR] [FAIL|NOFAIL] [EMERG|NOEMERG] [CRIT|NOCRIT]		debug	EXEC
debug ip kmem		debug	EXEC
debug ip route		debug	EXEC
debug ip sockets		debug	EXEC
debug ip lpm stat ip <vlan_list>		debug	EXEC
debug ip lpm stat ipv6 <vlan_list>		debug	EXEC
debug ip lpm stat clear <vlan_list>		debug	EXEC
debug ip lpm sticky clear		debug	EXEC
debug ip lpm usage		debug	EXEC
debug ip global interface table change		debug	EXEC
debug ip vlan ipv4 created <vlan_list>		debug	EXEC
debug ip vlan ipv4 changed <vlan_list>		debug	EXEC
debug ip vlan ipv6 created <vlan_list>		debug	EXEC
debug ip vlan ipv6 changed <vlan_list>		debug	EXEC
show ip igmp snooping mrouter [detail]		0	EXEC
clear ip igmp snooping [vlan <vlan_list>] statistics		15	EXEC
show ip igmp snooping [vlan <vlan_list>] [group-database [interface <port_type_list>] [sfm-information]] [detail]		0	EXEC
ip igmp snooping		15	GLOBAL_CONFIG
ip igmp unknown-flooding		15	GLOBAL_CONFIG
ip igmp host-proxy [leave-proxy]		15	GLOBAL_CONFIG
ip igmp ssm-range <ipv4_mcast> <4-32>		15	GLOBAL_CONFIG

no ip igmp ssm-range		15	GLOBAL_CONFIG
ip igmp snooping vlan <vlan_list>		15	GLOBAL_CONFIG
no ip igmp snooping vlan [<vlan_list>]		15	GLOBAL_CONFIG
ip igmp snooping		15	INTERFACE_VLAN
ip igmp snooping querier { election | address <ipv4_ucast> }		15	INTERFACE_VLAN
no ip igmp snooping querier { election | address }		15	INTERFACE_VLAN
ip igmp snooping compatibility { auto | v1 | v2 | v3 }		15	INTERFACE_VLAN
no ip igmp snooping compatibility		15	INTERFACE_VLAN
ip igmp snooping priority <0-7>		15	INTERFACE_VLAN
no ip igmp snooping priority		15	INTERFACE_VLAN
ip igmp snooping robustness-variable <1-255>		15	INTERFACE_VLAN
no ip igmp snooping robustness-variable		15	INTERFACE_VLAN
ip igmp snooping query-interval <1-31744>		15	INTERFACE_VLAN
no ip igmp snooping query-interval		15	INTERFACE_VLAN
ip igmp snooping query-max-response-time <0-31744>		15	INTERFACE_VLAN
no ip igmp snooping query-max-response-time		15	INTERFACE_VLAN
ip igmp snooping last-member-query-interval <0-31744>		15	INTERFACE_VLAN
no ip igmp snooping last-member-query-interval		15	INTERFACE_VLAN
ip igmp snooping unsolicited-report-interval <0-31744>		15	INTERFACE_VLAN
no ip igmp snooping unsolicited-report-interval		15	INTERFACE_VLAN
ip igmp snooping immediate-leave		15	INTERFACE_VLAN
ip igmp snooping mrouter		15	INTERFACE_PORT_LIST
ip igmp snooping max-groups <1-10>		15	INTERFACE_PORT_LIST
no ip igmp snooping max-groups		15	INTERFACE_PORT_LIST
ip igmp snooping filter <word16>		15	INTERFACE_PORT_LIST
no ip igmp snooping filter		15	INTERFACE_PORT_LIST
ipv6 mld snooping		15	GLOBAL_CONFIG
ipv6 mld unknown-flooding		15	GLOBAL_CONFIG
ipv6 mld host-proxy [leave-proxy]		15	GLOBAL_CONFIG
ipv6 mld ssm-range <ipv6_mcast> <8-128>		15	GLOBAL_CONFIG
no ipv6 mld ssm-range		15	GLOBAL_CONFIG
ipv6 mld snooping vlan <vlan_list>		15	GLOBAL_CONFIG
no ipv6 mld snooping vlan [<vlan_list>]		15	GLOBAL_CONFIG
ipv6 mld snooping immediate-leave		15	INTERFACE_PORT_LIST

ipv6 mld snooping mrouter		15	INTERFACE_PORT_LIST
ipv6 mld snooping max-groups <1-10>		15	INTERFACE_PORT_LIST
no ipv6 mld snooping max-groups		15	INTERFACE_PORT_LIST
ipv6 mld snooping filter <word16>		15	INTERFACE_PORT_LIST
no ipv6 mld snooping filter		15	INTERFACE_PORT_LIST
show ipv6 mld snooping mrouter [detail]		0	EXEC
clear ipv6 mld snooping [vlan <vlan_list>] statistics		15	EXEC
show ipv6 mld snooping [vlan <vlan_list>] [group-database [interface <port_type_list>] [sfm-information]] [detail]		0	EXEC
ipv6 mld snooping		15	INTERFACE_VLAN
ipv6 mld snooping querier election		15	INTERFACE_VLAN
ipv6 mld snooping compatibility { auto | v1 | v2 }		15	INTERFACE_VLAN
no ipv6 mld snooping compatibility		15	INTERFACE_VLAN
ipv6 mld snooping priority <0-7>		15	INTERFACE_VLAN
no ipv6 mld snooping priority		15	INTERFACE_VLAN
ipv6 mld snooping robustness-variable <1-255>		15	INTERFACE_VLAN
no ipv6 mld snooping robustness-variable		15	INTERFACE_VLAN
ipv6 mld snooping query-interval <1-31744>		15	INTERFACE_VLAN
no ipv6 mld snooping query-interval		15	INTERFACE_VLAN
ipv6 mld snooping query-max-response-time <0-31744>		15	INTERFACE_VLAN
no ipv6 mld snooping query-max-response-time		15	INTERFACE_VLAN
ipv6 mld snooping last-member-query-interval <0-31744>		15	INTERFACE_VLAN
no ipv6 mld snooping last-member-query-interval		15	INTERFACE_VLAN
ipv6 mld snooping unsolicited-report-interval <0-31744>		15	INTERFACE_VLAN
no ipv6 mld snooping unsolicited-report-interval		15	INTERFACE_VLAN
ip verify source		13	GLOBAL_CONFIG
i ip verify source		13	INTERFACE_PORT_LIST
ip verify source limit <0-2>		13	INTERFACE_PORT_LIST
no ip verify source limit		13	INTERFACE_PORT_LIST
ip verify source translate		13	GLOBAL_CONFIG
show ip verify source [interface <port_type_list>]		0	EXEC
show ip source binding [dhcp-snooping | static] [interface <port_type_list>]		13	EXEC

ip source binding interface <port_type_id> <vlan_id> <ipv4_ucast> <mac_ucast>		13	GLOBAL_CONFIG
ip source binding interface <port_type_id> <vlan_id> <ipv4_ucast> <ipv4_netmask>		13	GLOBAL_CONFIG
show lacp { internal | statistics | system-id | neighbour }	Show LACP configuration and status	15	EXEC
clear lacp statistics	Clear all LACP statistics	15	EXEC
lacp system-priority <1-65535>	Set the LACP system priority	15	GLOBAL_CONFIG
lacp	Enable LACP on an interface	15	INTERFACE_PORT_LIST
lacp key { <1-65535> | auto }	Set the LACP key	15	INTERFACE_PORT_LIST
lacp role { active | passive }	Set the LACP role, active or passive in transmitting BPDUs	15	INTERFACE_PORT_LIST
lacp timeout { fast | slow }	Set the LACP timeout, i.e. how fast to transmit BPDUs, once a sec or once each 30 sec.	15	INTERFACE_PORT_LIST
lacp port-priority <1-65535>	Set the lacp port priority,	15	INTERFACE_PORT_LIST
lldp holdtime <2-10>	Sets LLDP hold time (The neighbor switch will discarded the LLDP information after \"hold time\" multiplied with \"timer\" seconds)	15	GLOBAL_CONFIG
no lldp holdtime		15	GLOBAL_CONFIG
lldp timer <5-32768>	Sets LLDP TX interval (The time between each LLDP frame transmitted in seconds).	15	GLOBAL_CONFIG
no lldp timer		15	GLOBAL_CONFIG
lldp reinit <1-10>	Sets LLDP reinitialization delay.	15	GLOBAL_CONFIG
no lldp reinit	Sets LLDP reinitialization delay.	15	GLOBAL_CONFIG
lldp tlv-select {management-address | port-description | system-capabilities | system-description | system-name}	Enables/disables LLDP optional TLVs.	15	INTERFACE_PORT_LIST
lldp transmit	Sets if switch shall transmit LLDP frames.	15	INTERFACE_PORT_LIST
lldp receive	Sets if switch shall update LLDP entry table with incoming LLDP information.	15	INTERFACE_PORT_LIST
show lldp neighbors [interface <port_type_list>]	Shows the LLDP neighbors information.	0	EXEC
show lldp statistics [interface <port_type_list>]	Shows the LLDP statistics information.	0	EXEC
clear lldp statistics	Clears the LLDP statistics.	0	EXEC
lldp transmission-delay <1-8192>	Sets LLDP transmision-delay. LLDP transmission delay (the amount of time that the transmission of LLDP frames will	15	GLOBAL_CONFIG

	delayed after LLDP configuration has changed) in seconds.)		
no lldp transmission-delay		15	GLOBAL_CONFIG
lldp cdp-aware	Configures if the interface shall be CDP aware (CDP discovery information is added to the LLDP neighbor table)	15	INTERFACE_PORT_LIST
show lldp med remote-device [interface <port_type_list>]	Show LLDP-MED neighbor device information.	0	EXEC
show lldp med media-vlan-policy [<0~31>]	Show media vlan policy(ies)	0	EXEC
lldp med location-tlv latitude { north | south } <word8>	Use the lldp med location-tlv latitude to configure the location latitude.	15	GLOBAL_CONFIG
no lldp med location-tlv latitude	Use no lldp med location-tlv latitude to configure the latitude location to north 0 degrees.	15	GLOBAL_CONFIG
lldp med location-tlv longitude { west | east } <word9>	Use the lldp med location-tlv longitude to configure the location longitude.	15	GLOBAL_CONFIG
no lldp med location-tlv longitude	Use no lldp med location-tlv longitude to configure the longitude location to north 0 degrees.	15	GLOBAL_CONFIG
lldp med location-tlv altitude { meters | floors } <word11>	Use the lldp med location-tlv altitude to configure the location altitude.	15	GLOBAL_CONFIG
no lldp med location-tlv altitude	Use the lldp med location-tlv altitude to configure the location altitude.	15	GLOBAL_CONFIG
lldp med location-tlv civic-addr { country | state | county | city | district | block | street | leading-street-direction | trailing-street-suffix | street-suffix | house-no | house-no-suffix | landmark | additional-info | name | zip-code | building | apartment | floor | room-number | place-type | postal-community-name | p-o-box | additional-code } <string250>	Use lldp med location-tlv civic-addr to configure the civic address.	15	GLOBAL_CONFIG
no lldp med location-tlv civic-addr { country | state | county | city | district | block | street | leading-street-direction | trailing-street-suffix | street-suffix | house-no | house-no-suffix | landmark | additional-info | name | zip-code | building | apartment | floor | room-number | place-type | postal-community-name | p-o-box | additional-code }		15	GLOBAL_CONFIG
lldp med location-tlv elin-addr <dword25>	Use the lldp med location-tlv elin-addr to	15	GLOBAL_CONFIG

	configure value for the Emergency Call Service		
no lldp med location-tlv elin-addr	Use the no lldp med location-tlv elin-addr to configure value for the Emergency Call Service to default value.	15	GLOBAL_CONFIG
lldp med transmit-tlv [capabilities] [location] [network-policy]	Use the lldp med transmit-tlv to configure which TLVs to transmit to link partner.	15	INTERFACE_PORT_LIST
no lldp med transmit-tlv [capabilities] [location] [network-policy]		15	INTERFACE_PORT_LIST
lldp med datum { wgs84 | nad83-navd88 | nad83-mllw }	Use the lldp med datum to configure the datum (geodetic system) to use.	15	GLOBAL_CONFIG
no lldp med datum		15	GLOBAL_CONFIG
lldp med fast <1-10>	Use the lldp med fast to configure the number of times the fast start LLDPDU are being sent during the activation of the fast start mechanism defined by LLDP-MED (1-10).	15	GLOBAL_CONFIG
no lldp med fast		15	GLOBAL_CONFIG
lldp med media-vlan-policy <0-31> { voice | voice-signaling | guest-voice-signaling | guest-voice | softphone-voice | video-conferencing | streaming-video | video-signaling } { tagged <vlan_id> | untagged } [l2-priority <0-7>] [dscp <0-63>]	Use the media-vlan-policy to create a policy, which can be assigned to an interface.	15	GLOBAL_CONFIG
no lldp med media-vlan-policy <0~31>		15	GLOBAL_CONFIG
lldp med media-vlan policy-list <range_list>	Use the media-vlan policy-list to assign policy to the interface.	15	INTERFACE_PORT_LIST
loop-protect	Loop protection configuration	15	GLOBAL_CONFIG
loop-protect transmit-time <1-10>	Loop protection transmit time interval	15	GLOBAL_CONFIG
no loop-protect transmit-time		15	GLOBAL_CONFIG
loop-protect shutdown-time <0-604800>	Loop protection shutdown time interval	15	GLOBAL_CONFIG
no loop-protect shutdown-time		15	GLOBAL_CONFIG
loop-protect	Loop protection configuration	15	INTERFACE_PORT_LIST
loop-protect action { [shutdown] [log] }*1		15	INTERFACE_PORT_LIST
no loop-protect action		15	INTERFACE_PORT_LIST
loop-protect tx-mode		15	INTERFACE_PORT_LIST
show loop-protect [interface <port_type_list>]		13	EXEC
mac address-table learning [secure]	Enable learning on port	15	INTERFACE_PORT_LIST
show mac address-table [conf | static | aging-time |		0	EXEC

{ { learning | count } [interface <port_type_list>] } | { address <mac_addr> [vlan <vlan_id>] } | vlan <vlan_id> | interface <port_type_list>]			
clear mac address-table		15	EXEC
mac address-table static <mac_addr> vlan <vlan_id> interface <port_type_list>	Assign a static mac address to this port	15	GLOBAL_CONFIG
mac address-table aging-time <0,10-1000000>	Set switch aging time, 0 to disable.	15	GLOBAL_CONFIG
no mac address-table aging-time	Default aging time.	15	GLOBAL_CONFIG
monitor destination interface <port_type_id>	Sets monitor destination port.	15	GLOBAL_CONFIG
no monitor destination	Sets monitor destination port.	15	GLOBAL_CONFIG
monitor source { { interface <port_type_list> } | { cpu [<range_list>] } } { both | rx | tx }	Sets monitor source port(s).	15	GLOBAL_CONFIG
no monitor source { { interface <port_type_list> } | { cpu [<range_list>] } }	Sets monitor source port(s).	15	GLOBAL_CONFIG
debug chip [{ 0 | 1 | all }]		debug	EXEC
debug api [interface <port_type_list>] [{ ail | cil }] [{ init | misc | port | counters | phy | vlan | pvlan | mac-table | acl | qos | aggr | stp | mirror | evc | erps | eps | packet | fdma | ts | pts | wm | ipmc | stack | cmef | mplscore | mplsoam | vxlat | oam | sgpio | l3 | afi | macsec }] [full] [clear]		debug	EXEC
debug suspend		debug	EXEC
debug resume		debug	EXEC
debug kr-conf [cm1 <-32-31>] [c0 <-32-31>] [cp1 <-32-31>] [ampl <300-1275>] [{ ps25 | ps35 | ps55 | ps70 | ps120 }] [en-ob | dis-ob] [ser-inv | ser-no-inv]		debug	INTERFACE_PORT_LIST
show spanning-tree [summary | active | { interface <port_type_list> } | { detailed [interface <port_type_list>] } | { mst [configuration | { <0-7> [interface <port_type_list>] }] }]		15	EXEC
clear spanning-tree { { statistics [interface <port_type_list>] } | { detected-protocols [interface <port_type_list>] } }		15	EXEC
spanning-tree mode { stp | rstp | mstp }		15	GLOBAL_CONFIG
no spanning-tree mode		15	GLOBAL_CONFIG
spanning-tree transmit hold-count <1-10>		15	GLOBAL_CONFIG
no spanning-tree transmit hold-count		15	GLOBAL_CONFIG

spanning-tree mst max-hops <6-40>		15	GLOBAL_CONFIG
no spanning-tree mst max-hops		15	GLOBAL_CONFIG
spanning-tree mst max-age <6-40> [forward-time <4-30>]		15	GLOBAL_CONFIG
no spanning-tree mst max-age		15	GLOBAL_CONFIG
spanning-tree mst forward-time <4-30>		15	GLOBAL_CONFIG
no spanning-tree mst forward-time		15	GLOBAL_CONFIG
spanning-tree edge bpdu-filter		15	GLOBAL_CONFIG
spanning-tree edge bpdu-guard		15	GLOBAL_CONFIG
spanning-tree recovery interval <30-86400>		15	GLOBAL_CONFIG
no spanning-tree recovery interval		15	GLOBAL_CONFIG
spanning-tree mst <0-7> priority <0-61440>		15	GLOBAL_CONFIG
no spanning-tree mst <0-7> priority		15	GLOBAL_CONFIG
spanning-tree mst <0-7> vlan <vlan_list>		15	GLOBAL_CONFIG
no spanning-tree mst <0-7> vlan		15	GLOBAL_CONFIG
spanning-tree mst name <word32> revision <0-65535>		15	GLOBAL_CONFIG
no spanning-tree mst name		15	GLOBAL_CONFIG
spanning-tree		15	INTERFACE_PORT_LIST
spanning-tree edge		15	INTERFACE_PORT_LIST
spanning-tree auto-edge		15	INTERFACE_PORT_LIST
spanning-tree link-type { point-to-point | shared | auto }		15	INTERFACE_PORT_LIST
no spanning-tree link-type		15	INTERFACE_PORT_LIST
spanning-tree restricted-role		15	INTERFACE_PORT_LIST
spanning-tree restricted-tcn		15	INTERFACE_PORT_LIST
spanning-tree bpdu-guard		15	INTERFACE_PORT_LIST
spanning-tree mst <0-7> cost { <1-200000000> | auto }		15	INTERFACE_PORT_LIST
no spanning-tree mst <0-7> cost		15	INTERFACE_PORT_LIST
spanning-tree mst <0-7> port-priority <0-240>		15	INTERFACE_PORT_LIST
no spanning-tree mst <0-7> port-priority		15	INTERFACE_PORT_LIST
spanning-tree		15	STP_AGGR
spanning-tree edge		15	STP_AGGR
spanning-tree auto-edge		15	STP_AGGR
spanning-tree link-type { point-to-point | shared | auto }		15	STP_AGGR
no spanning-tree link-type		15	STP_AGGR
spanning-tree restricted-role		15	STP_AGGR

spanning-tree restricted-tcn		15	STP_AGGR
spanning-tree bpdu-guard		15	STP_AGGR
spanning-tree mst <0-7> cost { <1-200000000> | auto }		15	STP_AGGR
no spanning-tree mst <0-7> cost		15	STP_AGGR
spanning-tree mst <0-7> port-priority <0-240>		15	STP_AGGR
no spanning-tree mst <0-7> port-priority		15	STP_AGGR
mvr vlan <vlan_list> type { source | receiver }		15	INTERFACE_PORT_LIST
mvr name <word16> type { source | receiver }		15	INTERFACE_PORT_LIST
no mvr vlan <vlan_list> type		15	INTERFACE_PORT_LIST
no mvr name <word16> type		15	INTERFACE_PORT_LIST
mvr immediate-leave		15	INTERFACE_PORT_LIST
clear mvr [vlan <vlan_list> | name <word16>] statistics		15	EXEC
show mvr [vlan <vlan_list> | name <word16>] [group-database [interface <port_type_list>] [sfm-information]] [detail]		0	EXEC
mvr		15	GLOBAL_CONFIG
mvr vlan <vlan_list> [name <word16>]		15	GLOBAL_CONFIG
no mvr vlan <vlan_list>		15	GLOBAL_CONFIG
mvr vlan <vlan_list> mode { dynamic | compatible }		15	GLOBAL_CONFIG
mvr name <word16> mode { dynamic | compatible }		15	GLOBAL_CONFIG
no mvr vlan <vlan_list> mode		15	GLOBAL_CONFIG
no mvr name <word16> mode		15	GLOBAL_CONFIG
mvr vlan <vlan_list> igmp-address <ipv4_ucast>		15	GLOBAL_CONFIG
mvr name <word16> igmp-address <ipv4_ucast>		15	GLOBAL_CONFIG
no mvr vlan <vlan_list> igmp-address		15	GLOBAL_CONFIG
no mvr name <word16> igmp-address		15	GLOBAL_CONFIG
mvr vlan <vlan_list> frame priority <0-7>		15	GLOBAL_CONFIG
mvr vlan <vlan_list> frame tagged		15	GLOBAL_CONFIG
mvr name <word16> frame priority <0-7>		15	GLOBAL_CONFIG
mvr name <word16> frame tagged		15	GLOBAL_CONFIG
no mvr vlan <vlan_list> frame priority		15	GLOBAL_CONFIG
no mvr name <word16> frame priority		15	GLOBAL_CONFIG
mvr vlan <vlan_list> last-member-query-interval <0-31744>		15	GLOBAL_CONFIG
mvr name <word16> last-member-query-interval <0-31744>		15	GLOBAL_CONFIG

no mvr vlan <vlan_list> last-member-query-interval		15	GLOBAL_CONFIG
no mvr name <word16> last-member-query-interval		15	GLOBAL_CONFIG
mvr vlan <vlan_list> channel <word16>		15	GLOBAL_CONFIG
no mvr vlan <vlan_list> channel		15	GLOBAL_CONFIG
no mvr name <word16> channel		15	GLOBAL_CONFIG
show dot1x statistics { eapol | radius | all} [interface <port_type_list>]	Shows statistics for either eapol or radius.	0	EXEC
show dot1x status [interface <port_type_list>] [brief]	Shows dot1x status, such as admin state, port state and last source.	0	EXEC
clear dot1x statistics [interface <port_type_list>]	Clears the statistics counters	15	EXEC
dot1x re-authentication	Set Re-authentication state	15	GLOBAL_CONFIG
dot1x authentication timer re-authenticate <1-3600>	The period between re-authentication attempts in seconds	15	GLOBAL_CONFIG
no dot1x authentication timer re-authenticate		15	GLOBAL_CONFIG
dot1x timeout tx-period <1-65535>	the time between EAPOL retransmissions.	15	GLOBAL_CONFIG
no dot1x timeout tx-period		15	GLOBAL_CONFIG
dot1x authentication timer inactivity <10-1000000>	Time in seconds between check for activity on successfully authenticated MAC addresses.	15	GLOBAL_CONFIG
no dot1x authentication timer inactivity		15	GLOBAL_CONFIG
dot1x timeout quiet-period <10-1000000>	Time in seconds before a MAC-address that failed authentication gets a new authentication chance.	15	GLOBAL_CONFIG
no dot1x timeout quiet-period		15	GLOBAL_CONFIG
dot1x re-authenticate	Refresh (restart) 802.1X authentication process.	15	INTERFACE_PORT_LIST
dot1x initialize [interface <port_type_list>]	Force re-authentication immediately	15	EXEC
dot1x system-auth-control	Set the global NAS state	15	GLOBAL_CONFIG
dot1x port-control { force-authorized | force-unauthorized | auto | single | multi | mac-based }	Sets the port security state.	15	INTERFACE_PORT_LIST
no dot1x port-control	Sets the port security state.	15	INTERFACE_PORT_LIST
dot1x guest-vlan	Enables/disables guest VLAN	15	INTERFACE_PORT_LIST
dot1x max-reauth-req <1-255>	The number of times a Request Identity EAPOL frame is sent without response before considering entering the Guest VLAN	15	GLOBAL_CONFIG
no dot1x max-reauth-req	The number of times a Request Identity EAPOL frame is sent without response before considering entering the Guest VLAN	15	GLOBAL_CONFIG

dot1x guest-vlan <1-4095>	Guest VLAN ID used when entering the Guest VLAN.	15	GLOBAL_CONFIG
no dot1x guest-vlan	Guest VLAN ID used when entering the Guest VLAN.	15	GLOBAL_CONFIG
dot1x guest-vlan supplicant	The switch remembers if an EAPOL frame has been received on the port for the life-time of the port. Once the switch considers whether to enter the Guest VLAN, it will first check if this option is enabled or disabled. If disabled (unchecked; default), the switch will only enter the Guest VLAN if an EAPOL frame has not been received on the port for the life-time of the port. If enabled (checked), the switch will consider entering the Guest VLAN even if an EAPOL frame has been received on the port for the life-time of the port.	15	GLOBAL_CONFIG
dot1x radius-qos	Enables/disables per-port state of RADIUS-assigned QoS.	15	INTERFACE_PORT_LIST
dot1x radius-vlan	Enables/disables per-port state of RADIUS-assigned VLAN.	15	INTERFACE_PORT_LIST
dot1x feature { [guest-vlan] [radius-qos] [radius-vlan] }*1	Globally enables/disables a dot1x feature functionality	15	GLOBAL_CONFIG
show dot1x statistics { eapol | radius | all} [interface <port_type_list>]	Shows statistics for either eapol or radius.	0	EXEC
ntp	Enable NTP	13	GLOBAL_CONFIG
ntp server <1-5> ip-address {<ipv4_ucast>|<ipv6_ucast>|<hostname>}		13	GLOBAL_CONFIG
ntp server <1-5> ip-address {<ipv4_ucast>|<hostname>}		13	GLOBAL_CONFIG
no_ntp_server_ip_address		13	GLOBAL_CONFIG
show ntp status		13	EXEC
show platform phy [interface <port_type_list>]	Show PHY module's information for all or a given interface	15	EXEC
show platform phy id [interface <port_type_list>]	Platform PHY's IDs	15	EXEC
show platform phy instance		15	EXEC
show platform phy failover		15	EXEC
platform phy instance restart { cool | warm }		15	EXEC

platform phy instance default-activate		15	EXEC
show platform phy status [interface <port_type_list>]		15	EXEC
no platform phy instance		15	GLOBAL_CONFIG
platform phy failover		15	INTERFACE_PORT_LIST
debug phy read [<0~31>] [<0-0xffff>] [addr-sort]		debug	INTERFACE_PORT_LIST
debug phy write [<0~31>] <0-0xffff> [<0-0xffff>]		debug	INTERFACE_PORT_LIST
debug phy do-page-chk [enable|disable]		debug	EXEC
debug phy force-pass-through-speed {1G | 100M | 10M}		debug	INTERFACE_PORT_LIST
debug phy reset		debug	INTERFACE_PORT_LIST
debug phy gpio <0-13> mode {output|input|alternative}		debug	INTERFACE_PORT_LIST
debug phy gpio <0-13> get		debug	INTERFACE_PORT_LIST
show poe [interface <port_type_list>]	Use the show poe to show PoE status.	0	EXEC
poe mode { standard | plus }	Use poe mode to configure of PoE mode.	15	INTERFACE_PORT_LIST
no poe mode	Use poe mode to configure of PoE mode.	15	INTERFACE_PORT_LIST
poe priority { low | high | critical }	Use poe priority to configure PoE priority.	15	INTERFACE_PORT_LIST
no poe priority	Use poe priority to configure PoE priority.	15	INTERFACE_PORT_LIST
poe management mode { class-consumption | class-reserved-power | allocation-consumption | allocation-reserved-power | lldp-consumption | lldp-reserved-power }	Use management mode to configure PoE power management method.	15	GLOBAL_CONFIG
no poe management mode		15	GLOBAL_CONFIG
poe power limit { <fword2.1> }	Use poe power limit to configure the maximum allowed power for the interface when power management is in allocation mode.	15	INTERFACE_PORT_LIST
no poe power limit	Use poe power limit to configure the maximum allowed power for the interface when power management is in allocation mode.	15	INTERFACE_PORT_LIST
poe supply sid <1~16> <1-2000>	Use poe supply to specify the maximum power the power supply can deliver.	15	GLOBAL_CONFIG
no poe supply [sid <1~16>]		15	GLOBAL_CONFIG
poe schedule-mode	Configure PoE Schedule mode.	15	INTERFACE_PORT_LIST
no poe schedule-mode	disable PoE power management method.	15	INTERFACE_PORT_LIST
poe select-all <range_list>	Configure PoE Schedule mode.	15	GLOBAL_CONFIG

no poe schedule-all <range_list>	disable PoE power management method.	15	GLOBAL_CONFIG
poe delay-mode <range_list>	Configure PoE Power Delay mode.	15	GLOBAL_CONFIG
no poe delay-mode <range_list>		15	GLOBAL_CONFIG
poe delay-time <range_list> <0-300>	Configure PoE Power Delay time.	15	GLOBAL_CONFIG
poe hour <0-23>	This command is used to set hour time per week to enable PoE.	15	INTERFACE_PORT_LIST
no poe hour <0-23>	This command is used to set hour time per week to disable PoE.	15	INTERFACE_PORT_LIST
poe Sun	This command is used to set hour time on Sunday to enable PoE.	15	INTERFACE_PORT_LIST
no poe Sun	This command is used to set hour time on Sunday to disble PoE.	15	INTERFACE_PORT_LIST
poe Mon	This command is used to set hour time on Monday to enable PoE.	15	INTERFACE_PORT_LIST
no poe Mon	This command is used to set hour time on Monday to disable PoE.	15	INTERFACE_PORT_LIST
poe Tue	This command is used to set hour time on Tuesday to enable PoE.	15	INTERFACE_PORT_LIST
no poe Tue	This command is used to set hour time on Tuesday to disable PoE.	15	INTERFACE_PORT_LIST
poe Wed	This command is used to set hour time on Wednesday to enable PoE.	15	INTERFACE_PORT_LIST
no poe Wed	This command is used to set hour time on Wednesday to disable PoE.	15	INTERFACE_PORT_LIST
poe Thr	This command is used to set hour time on Thursday to enable PoE.	15	INTERFACE_PORT_LIST
no poe Thr	This command is used to set hour time on Thursday to enable PoE.	15	INTERFACE_PORT_LIST
poe Fri	This command is used to set hour time on Friday to enable PoE.	15	INTERFACE_PORT_LIST
no poe Fri	This command is used to set hour time on Friday to disable PoE.	15	INTERFACE_PORT_LIST
poe Sat	This command is used to set hour time on Saturday to enable PoE.	15	INTERFACE_PORT_LIST
no poe Sat	This command is used to set hour time on Saturday to disable PoE.	15	INTERFACE_PORT_LIST
show interface <port_type_list> statistics [{ packets | bytes | errors | discards | filtered | { priority	Shows the statistics for the interface.	0	EXEC

[<0~7>] } }] [{ up | down }]			
show interface <port_type_list> veriphy	Run and display cable diagnostics.	0	EXEC
clear statistics [interface] <port_type_list>	Clears the statistics for the interface.	0	EXEC
show interface <port_type_list> capabilities		0	EXEC
show interface <port_type_list> status	Display status for the interface.	0	EXEC
mtu <'VTSS_MAX_FRAME_LENGTH_STANDARD'-'VTSS_MAX_FRAME_LENGTH_MAX'>	Use mtu to specify maximum frame size (1518-9600 bytes).	15	INTERFACE_PORT_LIST
no mtu	Use no mtu to set maximum frame size to default.	15	INTERFACE_PORT_LIST
shutdown	Use shutdown to shutdown the interface.	15	INTERFACE_PORT_LIST
speed {2500 | 1000 | 100 | 10 | auto {[10] [100] [1000]} }	Configures interface speed. If you use 10, 100, or 1000 keywords with the auto keyword the port will only advertise the specified speeds.	15	INTERFACE_PORT_LIST
no speed	Use "no speed" to configure interface to default speed.	15	INTERFACE_PORT_LIST
duplex { half | full | auto [half | full] }	Use duplex to configure interface duplex mode.	15	INTERFACE_PORT_LIST
no duplex	Use "no duplex" to set duplex to default.	15	INTERFACE_PORT_LIST
media-type { rj45 | sfp | dual }	Use media-type to configure the interface media type.	15	INTERFACE_PORT_LIST
no media-type	Use to configure the interface media-type type to default.	15	INTERFACE_PORT_LIST
flowcontrol { on | off }	Use flowcontrol to configure flow control for the interface.	15	INTERFACE_PORT_LIST
no flowcontrol	Use no flowcontrol to set flow control to default.	15	INTERFACE_PORT_LIST
excessive-restart	Use excessive-restart to configure backoff algorithm in half duplex mode.	15	INTERFACE_PORT_LIST
show web privilege group [<cword>] level		0	EXEC
web privilege group <cword> level { [cro <0-15>] [crw <0-15>] [sro <0-15>] [srw <0-15>] }*1		15	GLOBAL_CONFIG
no web privilege group [<cword>] level		15	GLOBAL_CONFIG
show port-security port [interface <port_type_list>]	Show MAC Addresses learned by Port Security	0	EXEC
show port-security switch [interface <port_type_list>]	Show Port Security status.	0	EXEC
no port-security shutdown [interface <port_type_list>]	Reopen one or more ports whose limit is exceeded and shut down.	15	EXEC

port-security	Enable/disable port security globally.	15	GLOBAL_CONFIG
port-security aging	Enable/disable port security aging.	15	GLOBAL_CONFIG
port-security aging time <10-10000000>	Time in seconds between check for activity on learned MAC addresses.	15	GLOBAL_CONFIG
no port-security aging time		15	GLOBAL_CONFIG
port-security	Enable/disable port security per interface.	15	INTERFACE_PORT_LIST
port-security maximum [<1-1024>]	Maximum number of MAC addresses that can be learned on this set of interfaces.	15	INTERFACE_PORT_LIST
no port-security maximum		15	INTERFACE_PORT_LIST
port-security violation { protect | trap | trap-shutdown | shutdown }	The action involved with exceeding the limit.	15	INTERFACE_PORT_LIST
no port-security violation	The action involved with exceeding the limit.	15	INTERFACE_PORT_LIST
pvlan <range_list>	Use the pvlan add or remove command to add or remove a port from a PVLAN.	13	INTERFACE_PORT_LIST
pvlan isolation	Use the pvlan isolation command to add the port into an isolation group.	13	INTERFACE_PORT_LIST
show pvlan [<range_list>]	Use the show pvlan command to view the PVLAN configuration.	13	EXEC
show pvlan isolation [interface <port_type_list>]	Use the show pvlan isolation command to view the PVLAN isolation configuration.	13	EXEC
show qos [{ interface [<port_type_list>] } | wred | { maps [dscp-cos] [dscp-ingress-translation] [dscp-classify] [cos-dscp] [dscp-egress-translation] } | storm | { qce [<1-256>] }]		15	EXEC
qos map dscp-cos { <0~63> | <dscp> } cos <0-7> dpl <dpl>		15	GLOBAL_CONFIG
no qos map dscp-cos { <0~63> | <dscp> }		15	GLOBAL_CONFIG
qos map dscp-ingress-translation { <0~63> | <dscp> } to { <0-63> | <dscp> }		15	GLOBAL_CONFIG
no qos map dscp-ingress-translation { <0~63> | <dscp> }		15	GLOBAL_CONFIG
qos map dscp-classify { <0~63> | <dscp> }		15	GLOBAL_CONFIG
qos map cos-dscp <0~7> dpl <0~1> dscp { <0-63> | <dscp> }		15	GLOBAL_CONFIG
no qos map cos-dscp <0~7> dpl <0~1>		15	GLOBAL_CONFIG
qos map dscp-egress-translation { <0~63> | <dscp> } <0~1> to { <0-63> | <dscp> }		15	GLOBAL_CONFIG

no qos map dscp-egress-translation { <0~63> | <dscp> } <0~1>		15	GLOBAL_CONFIG
qos wred queue <0~5> min-th <0-100> mdp-1 <0-100> mdp-2 <0-100> mdp-3 <0-100>		15	GLOBAL_CONFIG
qos wred queue <0~5> min-fl <0-100> max <1-100> [fill-level]		15	GLOBAL_CONFIG
no qos wred queue <0~5>		15	GLOBAL_CONFIG
qos storm { unicast | multicast | broadcast } { { <1,2,4,8,16,32,64,128,256,512> [kfps] } | { 1024 kfps } }		15	GLOBAL_CONFIG
no qos storm { unicast | multicast | broadcast }		15	GLOBAL_CONFIG
qos qce { [update] } <uint> [{ next <uint> } | last] [interface <port_type_list>] [smac { <mac_addr> | <oui> | any }] [dmac { <mac_addr> | unicast | multicast | broadcast | any }] [tag { [type { untagged | tagged | c-tagged | s-tagged | any }] [vid { <vcap_vr> | any }] [pcp { <pcp> | any }] [dei { <0-1> | any }] }*1] [inner-tag { [type { untagged | tagged | c-tagged | s-tagged | any }] [vid { <vcap_vr> | any }] [pcp { <pcp> | any }] [dei { <0-1> | any }] }*1] [frame-type { any | { etype [{ <0x600-0x7ff,0x801-0x86dc,0x86de-0xffff> | any }] } | { llc [dsap { <0-0xff> | any }] [ssap { <0-0xff> | any }] [control { <0-0xff> | any }] } | { snap [{ <0-0xffff> | any }] } | { ipv4 [proto { <0-255> | tcp | udp | any }] [sip { <ipv4_subnet> | any }] [dip { <ipv4_subnet> | any }] [dscp { <vcap_vr> | <dscp> | any }] [fragment { yes | no | any }] [sport { <vcap_vr> | any }] [dport { <vcap_vr> | any }] } | { ipv6 [proto { <0-255> | tcp | udp | any }] [sip { <ipv4_subnet> | any }] [dip { <ipv4_subnet> | any }] [dscp { <vcap_vr> | <dscp> | any }] [sport { <vcap_vr> | any }] [dport { <vcap_vr> | any }] } }] [action { [cos { <0-7> | default }] [dpl { <0-1> | default }] [pcp-dei { <0-7> <0-1> | default }] [dscp { <0-63> | <dscp> | default }] [policy { <uint> | default }] }*1]		15	GLOBAL_CONFIG
no qos qce <'QCE_ID_START'~'QCE_ID_END'>		15	GLOBAL_CONFIG
qos qce refresh		15	GLOBAL_CONFIG
qos cos <0-7>		15	GLOBAL_CONFIG

no qos cos		15	INTERFACE_PORT_LIST
qos dpl <dpl>		15	INTERFACE_PORT_LIST
no qos dpl		15	INTERFACE_PORT_LIST
qos pcp <0-7>		15	INTERFACE_PORT_LIST
no qos pcp		15	INTERFACE_PORT_LIST
qos dei <0-1>		15	INTERFACE_PORT_LIST
no qos dei		15	INTERFACE_PORT_LIST
qos trust tag		15	INTERFACE_PORT_LIST
qos trust dscp		15	INTERFACE_PORT_LIST
qos map tag-cos pcp <0~7> dei <0~1> cos <0-7> dpl <dpl>		15	INTERFACE_PORT_LIST
no qos map tag-cos pcp <0~7> dei <0~1>		15	INTERFACE_PORT_LIST
qos policer <uint> [fps] [flowcontrol]		15	INTERFACE_PORT_LIST
no qos policer		15	INTERFACE_PORT_LIST
qos queue-policer queue <0~7> <uint>		15	INTERFACE_PORT_LIST
qos queue-policer queue <0~7> <uint>		15	INTERFACE_PORT_LIST
no qos queue-policer queue <0~7>		15	INTERFACE_PORT_LIST
qos wrr <1-100> <1-100> <1-100> <1-100> <1-100> <1-100>		15	INTERFACE_PORT_LIST
no qos wrr		15	INTERFACE_PORT_LIST
qos shaper <uint>		15	INTERFACE_PORT_LIST
no qos shaper		15	INTERFACE_PORT_LIST
qos queue-shaper queue <0~7> <uint> [excess]		15	INTERFACE_PORT_LIST
no qos queue-shaper queue <0~7>		15	INTERFACE_PORT_LIST
qos tag-remark { pcp <0-7> dei <0-1> | mapped }		15	INTERFACE_PORT_LIST
no qos tag-remark		15	INTERFACE_PORT_LIST
qos map cos-tag cos <0~7> dpl <0~1> pcp <0-7> dei <0-1>		15	INTERFACE_PORT_LIST
no qos map cos-tag cos <0~7> dpl <0~1>		15	INTERFACE_PORT_LIST
qos dscp-translate		15	INTERFACE_PORT_LIST
qos dscp-classify { zero | selected | any }		15	INTERFACE_PORT_LIST
no qos dscp-classify		15	INTERFACE_PORT_LIST
qos dscp-remark { rewrite | remap | remap-dp }		15	INTERFACE_PORT_LIST
no qos dscp-remark		15	INTERFACE_PORT_LIST
qos storm { unicast | broadcast | unknown } <100-13200000> [fps]		15	INTERFACE_PORT_LIST
no qos storm { unicast | broadcast | unknown }		15	INTERFACE_PORT_LIST

qos qce { [addr { source | destination }] [key { double-tag | normal | ip-addr | mac-ip-addr }] }*1		15	INTERFACE_PORT_LIST
no qos qce { [addr] [key] }*1		15	INTERFACE_PORT_LIST
debug qos shaper cir { <100-3300000> [cbs <4096-258048>] } { [eir <100-3300000> [ebs <4096-258048>]] }		debug	INTERFACE_PORT_LIST
no debug qos shaper		debug	INTERFACE_PORT_LIST
debug qos queue-shaper queue <0~7> { cir <100-3300000> [cbs <4096-258048>] } { [eir <100-3300000> [ebs <4096-258048>]] } [excess]		debug	INTERFACE_PORT_LIST
no debug qos queue-shaper queue <0~7>		debug	INTERFACE_PORT_LIST
debug show qos shapers		debug	EXEC
debug qos cmef [{ enable | disable }]		debug	EXEC
show rmon statistics [<1~65535>]		15	EXEC
show rmon history [<1~65535>]		15	EXEC
show rmon alarm [<1~65535>]		15	EXEC
show rmon event [<1~65535>]		15	EXEC
rmon alarm <1-65535> <word255> <1-2147483647> {absolute | delta} rising-threshold <-2147483648-2147483647> [<0-65535>] falling-threshold <-2147483648-2147483647> [<0-65535>] {[rising | falling | both]}		15	GLOBAL_CONFIG
no rmon alarm <1-65535>		15	GLOBAL_CONFIG
rmon event <1-65535> [log] [trap <word127>] {[description <line127>]}		15	GLOBAL_CONFIG
no rmon event <1-65535>		15	GLOBAL_CONFIG
rmon collection stats <1-65535>		15	INTERFACE_PORT_LIST
no rmon collection stats <1-65535>		15	INTERFACE_PORT_LIST
rmon collection history <1-65535> [buckets <1-65535>] [interval <1-3600>]		15	INTERFACE_PORT_LIST
no rmon collection history <1-65535>		15	INTERFACE_PORT_LIST
show sflow statistics { receiver [<range_list>] | samplers [interface [<range_list>] <port_type_list>]}	Use sflow statistics to show statistics for either receiver or sample interface.	0	EXEC
show sflow	Use show sflow to display the current sFlow configuration.	0	EXEC
clear sflow statistics { receiver [<range_list>] | samplers [interface [<range_list>] <port_type_list>] }	Clearing statistics.	15	EXEC
sflow agent-ip {ipv4 <ipv4_addr> | ipv6 <ipv6_addr>}	The agent IP address used as agent-address	15	GLOBAL_CONFIG

	in UDP datagrams. Defaults to IPv4 loopback address.		
no sflow agent-ip	Sets the agent IP address used as agent-address in UDP datagrams to 127.0.0.1.	15	GLOBAL_CONFIG
sflow timeout [receiver <range_list>] <0-2147483647>	Receiver timeout measured in seconds. The switch decrements the timeout once per second, and as long as it is non-zero, the receiver receives samples. Once the timeout reaches 0, the receiver and all its configuration is reset to defaults.	15	GLOBAL_CONFIG
no sflow timeout [receiver <range_list>]	Receiver timeout measured in seconds. The switch decrements the timeout once per second, and as long as it is non-zero, the receiver receives samples. Once the timeout reaches 0, the receiver and all its configuration is reset to defaults.	15	GLOBAL_CONFIG
sflow collector-address [receiver <range_list>] [<word>]	Collector address	15	GLOBAL_CONFIG
no sflow collector-address [receiver <range_list>]		15	GLOBAL_CONFIG
sflow collector-port [receiver <range_list>] <1-65535>	Collector UDP port. Valid range is 0-65536.	15	GLOBAL_CONFIG
no sflow collector-port [receiver <range_list>]	Collector UDP port. Valid range is 0-65536.	15	GLOBAL_CONFIG
sflow max-datagram-size [receiver <range_list>] <200-1468>	Maximum datagram size.	15	GLOBAL_CONFIG
no sflow max-datagram-size [receiver <range_list>]	Maximum datagram size.	15	GLOBAL_CONFIG
sflow sampling-rate [sampler <range_list>] [<1-4294967295>]	Specifies the statistical sampling rate. The sample rate is specified as N to sample 1/Nth of the packets n the monitored flows. There are no restrictions on the value, but the switch will adjust it to the closest possible sampling rate.	15	INTERFACE_PORT_LIST
sflow max-sampling-size [sampler <range_list>] [<14-200>]	Specifies the maximum number of bytes to transmit per flow sample.	15	INTERFACE_PORT_LIST
no sflow max-sampling-size [sampler <range_list>]	Specifies the maximum number of bytes to transmit per flow sample.	15	INTERFACE_PORT_LIST
sflow counter-poll-interval [sampler <range_list>] [<1-3600>]	The interval - in seconds - between counter poller samples.	15	INTERFACE_PORT_LIST
no sflow counter-poll-interval [<range_list>]	The interval - in seconds - between counter poller samples.	15	INTERFACE_PORT_LIST

sflow [<range_list>]	Enables/disables flow sampling on this port.	15	INTERFACE_PORT_LIST
show smtp	Email information	0	EXEC
smtp delete { server | username | sender | returnpath | mailaddress <1-6> }	Delete email server	15	GLOBAL_CONFIG
smtp mailaddress <1-6> <word47>	Set email server	15	GLOBAL_CONFIG
smtp returnpath <word47>		15	GLOBAL_CONFIG
smtp returnpath <word47>		15	GLOBAL_CONFIG
smtp sender <word47>		15	GLOBAL_CONFIG
smtp username <word31> <word31>		15	GLOBAL_CONFIG
smtp server <word47>		15	GLOBAL_CONFIG
smtp level <0-7>		15	GLOBAL_CONFIG
show snmp		15	EXEC
show snmp community v3 [<word127>]		15	EXEC
show snmp user [<word32> <word10-32>]			
show snmp security-to-group [{ v1 | v2c | v3 } <word32>]			
show snmp access [<word32> { v1 | v2c | v3 | any } { auth | noauth | priv }]			
show snmp view [<word32> <word255>]			
snmp-server	Enable SNMP server.	13	GLOBAL_CONFIG
snmp-server engine-id local <word10-32>	To specify SNMP server's engine ID.	13	GLOBAL_CONFIG
no snmp-server engined-id local	To set SNMP server's engine ID to default value.	15	GLOBAL_CONFIG
snmp-server version { v1 | v2c | v3 }	Set the SNMP server version to SNMPv1, SNMPv2c or SNMPv3.	15	GLOBAL_CONFIG
no snmp-server version	Set SNMP server's version to default setting.	15	GLOBAL_CONFIG
snmp-server community v2c <word127> [ro | rw]		15	GLOBAL_CONFIG
snmp-server community v3 <word127> [<ipv4_addr> <ipv4_netmask>]		15	GLOBAL_CONFIG
no snmp-server community v2c		15	GLOBAL_CONFIG
no snmp-server community v3 <word127>		15	GLOBAL_CONFIG
snmp-server user <word32> engine-id <word10-32> [{md5 <word8-32> | sha <word8-40> } [priv { des | aes } <word8-32>]]		15	GLOBAL_CONFIG
no snmp-server user <word32> engine-id <word10-		15	GLOBAL_CONFIG

32>			
snmp-server security-to-group model { v1 | v2c | v3 } name <word32> group <word32>		15	GLOBAL_CONFIG
no snmp-server security-to-group model { v1 | v2c | v3 } name <word32>		15	GLOBAL_CONFIG
snmp-server access <word32> model { v1 | v2c | v3 | any } level { auth | noauth | priv } [read <word255>] [write <word255>]		15	GLOBAL_CONFIG
no snmp-server access <word32> model { v1 | v2c | v3 | any } level { auth | noauth | priv }		15	GLOBAL_CONFIG
snmp-server view <word32> <word255> { include | exclude }		15	GLOBAL_CONFIG
no snmp-server view <word32> <word255>		15	GLOBAL_CONFIG
snmp-server contact <line255>	To specify the system contact string.	15	GLOBAL_CONFIG
no snmp-server contact	To clear the system contact string.	15	GLOBAL_CONFIG
snmp-server location <line255>	To specify the system location string.	15	GLOBAL_CONFIG
no snmp-server location	To specify the system location string.	15	GLOBAL_CONFIG
show snmp mib context	Use the show snmp mib context user EXEC command to display the supported MIBs in the switch.	15	EXEC
show snmp mib ifmib ifIndex	Use the show snmp mib ifmib ifIndex user EXEC command to display the SNMP ifIndex(defined in IF-MIB) mapping information in the switch.	15	EXEC
show snmp mib redefine	Use the show snmp mib redefine user EXEC command to display the redefined MIBs in the switch, that are different definitions from the standard MIBs.	15	EXEC
snmp-server trap		15	GLOBAL_CONFIG
no snmp-server host <word32>		15	GLOBAL_CONFIG
shutdown		15	SNMPS_HOST
host { <ipv4_ucast> | <hostname> } [<1-65535>] [traps | informs]		15	SNMPS_HOST

host <ipv6_ucast> [<1-65535>] [traps | informs]		15	SNMPS_HOST
no host		15	SNMPS_HOST
version { v1 [<word127>] | v2 [<word127>] | v3 [probe | engineID <word10-32>] [<word32>] }		15	SNMPS_HOST
no version		15	SNMPS_HOST
informs retries <0-255> timeout <0-2147>		15	SNMPS_HOST
no informs		15	SNMPS_HOST
traps [aaa authentication] [system [coldstart] [warmstart]] [switch [stp] [rmon]]		15	SNMPS_HOST
no traps		15	SNMPS_HOST
snmp-server host <word32> traps [linkup] [linkdown] [lldp]		15	INTERFACE_PORT_LIST
no snmp-server host <word32> traps		15	INTERFACE_PORT_LIST
show snmp host [<word32>] [system] [switch] [interface] [aaa]		15	EXEC
switch stack re-elect	Config commands for the switches in the stack	13	EXEC
switch stack priority {local | <1-16>} <1-4>	Configure master election priority	13	GLOBAL_CONFIG
switch stack swap <1-16> <1-16>	Swap switch ID	13	GLOBAL_CONFIG
no switch stack <1-16>		13	GLOBAL_CONFIG
switch stack <1-16> mac <mac_ucast>	MAC address of the switch	13	GLOBAL_CONFIG
switch stack { enable | disable }	Enable/disable stacking	13	GLOBAL_CONFIG
switch stack interface <port_type_list>	Configure stacking interface	13	GLOBAL_CONFIG
show switch stack [details]	Show switch Detail information	0	EXEC
show switch stack debug	Show switch Debug information	debug	EXEC
show ip ssh	Use the show ip ssh privileged EXEC \ command to display the SSH status.	15	EXEC
ip ssh	Use the ip ssh global configuration command to \ enable the SSH. Use the no form of this \ command to disable the SSH.	15	GLOBAL_CONFIG
show network-clock	Show selector state.	0	EXEC
clear network-clock clk-source <range_list>	Clear active WTR timer.	15	EXEC
network-clock clk-source <range_list> nominate { clk-in | {interface <port_type_id>} }	Nominate a clk input to become a selectable clock source.	15	GLOBAL_CONFIG

no network-clock clk-source <range_list> nominate		15	GLOBAL_CONFIG
network-clock input-source { 1544khz | 2048khz | 10mhz }	Sets the station clock input frequency	15	GLOBAL_CONFIG
no network-clock input-source		15	GLOBAL_CONFIG
network-clock output-source { 1544khz | 2048khz | 10mhz }	Sets the station clock output frequency	15	GLOBAL_CONFIG
no network-clock output-source		15	GLOBAL_CONFIG
network-clock clk-source <range_list> aneg-mode { master | slave | forced}	Sets the preferred negotiation.	15	GLOBAL_CONFIG
no network-clock clk-source <range_list> aneg-mode		15	GLOBAL_CONFIG
network-clock clk-source <range_list> hold-timeout <3-18>	The hold off timer value in 100 ms.Valid values are range 3-18.	15	GLOBAL_CONFIG
no network-clock clk-source <range_list> hold-timeout		15	GLOBAL_CONFIG
network-clock selector { { manual clk-source <uint> } | selected | nonrevertive | revertive | holdover | freerun }	Selection mode of nominated clock sources	15	GLOBAL_CONFIG
no network-clock selector		15	GLOBAL_CONFIG
network-clock clk-source <range_list> priority <0-1>	Priority of nominated clock sources.	15	GLOBAL_CONFIG
no network-clock clk-source <range_list> priority		15	GLOBAL_CONFIG
network-clock wait-to-restore <0-12>	WTR time (0-12 min) '0' is disable	15	GLOBAL_CONFIG
no network-clock wait-to-restore		15	GLOBAL_CONFIG
network-clock ssm-holdover { prc | ssua | ssub | eec2 | eec1 | dnu | inv }	Hold Over SSM overwrite	15	GLOBAL_CONFIG
no network-clock ssm-holdover		15	GLOBAL_CONFIG
network-clock ssm-freerun { prc | ssua | ssub | eec2 | eec1 | dnu | inv }	Free Running SSM overwrite	15	GLOBAL_CONFIG
no network-clock ssm-freerun		15	GLOBAL_CONFIG
network-clock clk-source <range_list> ssm-overwrite { prc | ssua | ssub | eec2 | eec1 | dnu }	Clock source SSM overwrite	15	GLOBAL_CONFIG
no network-clock clk-source <range_list> ssm-overwrite		15	GLOBAL_CONFIG
network-clock option { eec1 | eec2 }	EEC options	15	GLOBAL_CONFIG
no network-clock option		15	GLOBAL_CONFIG
network-clock synchronization ssm	SSM enable/disable.	15	INTERFACE_PORT_LIST
show logging [info] [warning] [error] [switch <switch_list>]	Use the show logging privileged EXEC command without keywords to display the logging configuration, or particularly the logging message summary for the logging	15	EXEC

	level.		
show logging <1-4294967295> [switch <switch_list>]	Use the show logging privileged EXEC command with logging ID to display the detail logging message. OC_CMD_DEFAULT =	15	EXEC
clear logging [info] [warning] [error] [switch <switch_list>]	Use the clear logging privileged EXEC command to clear the logging message.	15	EXEC
logging on	Use the logging on global configuration command to enable the logging server. Use the no form of this command to disable the logging server.	15	GLOBAL_CONFIG
logging host { <ipv4_ucast> | <hostname> }	Use the logging host global configuration command to configure the host address of logging server.	15	GLOBAL_CONFIG
no logging host	Use the no logging host global configuration command to clear the host address of logging server.	15	GLOBAL_CONFIG
logging level { info | warning | error }	Use the logging level global configuration command to configure what level of message will send to logging server.	15	GLOBAL_CONFIG
show clock	Show running system information	0	EXEC
show version	System hardware and software status	0	EXEC
password unencrypted <line31>	Use the password encrypted <password> global configuration command to configure administrator password with unencrypted password for the local switch access.	15	GLOBAL_CONFIG
password encrypted <word4-44>	Use the password encrypted <password> global configuration command to configure administrator password with encrypted password for the local switch access.	15	GLOBAL_CONFIG
password none	Use the password none global configuration command to remove the administrator password.	15	GLOBAL_CONFIG
show system	Show system information	0	EXEC
system contact <line255>	To specify the system contact string.	15	GLOBAL_CONFIG
no system contact	To clear the system contact string.	15	GLOBAL_CONFIG
system location <line255>	To specify the system location string.	15	GLOBAL_CONFIG
no system location	To specify the system location string.	15	GLOBAL_CONFIG

system name <line255>	To specify the system mode name string.	15	GLOBAL_CONFIG
no system name	To specify the system model name string.	15	GLOBAL_CONFIG
show thermal-protect [interface <port_type_list>]	Shows thermal protection status (chip temperature and port status).	15	EXEC
thermal-protect prio <0~3> temperature <0-255>	Thermal protection configuirations.	15	GLOBAL_CONFIG
no thermal-protect prio <0~3>	Sets temperature at which to turn ports with the corresponding priority off.	15	GLOBAL_CONFIG
thermal-protect port-prio <0-3>	Sets temperature at which to turn ports with the corresponding priority off.	15	INTERFACE_PORT_LIST
no thermal-protect port-prio	Sets temperature at which to turn ports with the corresponding priority off.	15	INTERFACE_PORT_LIST
show upnp		15	EXEC
upnp		15	GLOBAL_CONFIG
upnp ttl <1-255>		15	GLOBAL_CONFIG
no upnp ttl		15	GLOBAL_CONFIG
upnp advertising-duration <100-86400>		15	GLOBAL_CONFIG
no upnp advertising-duration		15	GLOBAL_CONFIG
username <word31> privilege <0-15> password unencrypted <line31>	Use the username <username> privilege <level> password encrypted <password> global configuration command to add a user with unencrypted password for the local switch access.	15	GLOBAL_CONFIG
username <word31> privilege <0-15> password encrypted <word4-44>	Use the username <username> privilege <level> password encrypted <password> global configuration command to add a user with encrypted password for the local switch access.	15	GLOBAL_CONFIG
username <word31> privilege <0-15> password none	Use the username <username> privilege <level> password none global configuration command to remove the password for specific username.	15	GLOBAL_CONFIG
no username <word31>	Use the no username <username> global configuration command to delete a local user.	15	GLOBAL_CONFIG
vlan protocol {{eth2 {<0x600-0xffff>|arp|ip|ipx|at}} | {snap {<0x0-0xffffff>|rfc-1042|snap-8021h} <0x0-0xffff>} | {llc <0x0-0xff> <0x0-0xff>} } group <word16>		13	GLOBAL_CONFIG
switchport vlan mac <mac_ucast> vlan <vlan_id>	Use the switchport vlan mac command to	13	INTERFACE_PORT_LIST

	associate a MAC address to VLAN ID.		
switchport vlan protocol group <word16> vlan <vlan_id>	Use the no form of this command to remove the group to vlan mapping.	13	INTERFACE_PORT_LIST
show vlan protocol [eth2 {<0x600-0xffff>|arp|ip|ipx|at}] [snap {<0x0-0xffffff>|rfc-1042|snap-8021h} <0x0-0xffff>] [llc <0x0-0xff> <0x0-0xff>]	Use the switchport vlan protocol group command to add group to vlan mapping.	13	EXEC
show vlan mac [address <mac_ucast>]		13	EXEC
show vlan ip-subnet [id <1-128>]		13	EXEC
switchport vlan ip-subnet id <1-128> <ipv4_subnet> vlan <vlan_id>		13	INTERFACE_PORT_LIST
no switchport vlan ip-subnet id <1~128>		13	INTERFACE_PORT_LIST
debug vcl policy <uint>		debug	INTERFACE_PORT_LIST
no debug vcl policy		debug	GLOBAL_CONFIG
debug show vcl policy		debug	EXEC
switchport mode {access | trunk | hybrid}	Use the switchport mode command to define the type of the port.	13	INTERFACE_PORT_LIST
no switchport mode		13	INTERFACE_PORT_LIST
switchport access vlan <vlan_id>	Use the switchport access vlan command to configure a port to a VLAN. Valid VLAN IDs are 1 to 4095.	13	INTERFACE_PORT_LIST
no switchport access vlan		13	INTERFACE_PORT_LIST
switchport trunk native vlan <vlan_id>	Use the switchport native vlan command to configure a port VLAN ID for a trunk port.	13	INTERFACE_PORT_LIST
no switchport trunk native vlan	Set trunk mode characteristics of the interface	13	INTERFACE_PORT_LIST
switchport hybrid native vlan <vlan_id>	Use the switchport native vlan command to configure a port VLAN ID for a hybrid port.	13	INTERFACE_PORT_LIST
no switchport hybrid native vlan	Set hybrid mode characteristics of the interface	13	INTERFACE_PORT_LIST
switchport hybrid port-type { unaware | c-port | s-port | s-custom-port }	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
no switchport hybrid port-type	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
switchport hybrid ingress-filtering	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
switchport hybrid acceptable-frame-type { all | tagged | untagged }	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
no switchport hybrid acceptable-frame-type	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
switchport hybrid egress-tag {none | all [except-	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST

native]}			
no switchport hybrid egress-tag	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
switchport trunk vlan tag native	Set trunk characteristics of the interface	13	INTERFACE_PORT_LIST
switchport trunk allowed vlan {all | none | [add | remove | except] <vlan_list>}	Set trunk mode characteristics of the interface	13	INTERFACE_PORT_LIST
no switchport trunk allowed vlan	Set trunk characteristics of the interface,	13	INTERFACE_PORT_LIST
switchport hybrid allowed vlan {all | none | [add | remove | except] <vlan_list>}	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
no switchport hybrid allowed vlan	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
vlan ethertype s-custom-port <0x0600-0xffff>		13	GLOBAL_CONFIG
no vlan {{ethertype s-custom-port} | <vlan_list>}		15	GLOBAL_CONFIG
show interface <port_type_list> switchport [access | trunk | hybrid]	Use the how interfaces command to display the administrative and operational status of all interfaces or a specified interface.	0	EXEC
show vlan [id <vlan_list> | name <vword32> | brief]	Use the show vlan command to view the VLAN configuration.	13	EXEC
show vlan status [interface <port_type_list>] [combined|admin|nas|mvr|voice-vlan|mstp|erps|vcl|evc|gvrp|all|conflicts]	Use the show VLAN status command to view the VLANs configured for each interface.	13	EXEC
name <vword32>	Use the name <vword32> command to configure VLAN name.	13	CONFIG_VLAN
no name	The no form of this command will restore the VLAN name to its default.	13	CONFIG_VLAN
switchport forbidden vlan {add|remove} <vlan_list>	Adds or removes forbidden VLANs from the current list of forbidden VLANs	15	INTERFACE_PORT_LIST
no switchport forbidden vlan	Allows for adding VLANs to an interface	15	INTERFACE_PORT_LIST
show switchport forbidden [{vlan <vlan_id>} | {name <word>}]	Lookup VLAN Forbidden port entry.	0	EXEC
voice vlan	Use the voice vlan global configuration command to enable voice vlan. Use the no form of this command to globally disable voice vlan.	15	GLOBAL_CONFIG
voice vlan vid <vlan_id>	Use the voice vlan vid global configuration command to configure voice vlan vid.	15	GLOBAL_CONFIG
no voice vlan vid	Use the no voice vlan vid global configuration command to restore the default voice vlan vid.	15	GLOBAL_CONFIG

voice vlan aging-time <10-10000000>	Use the voice vlan aging-time global configuration command to configure default voice vlan aging-time.	15	GLOBAL_CONFIG
no voice vlan aging-time	Use the no voice vlan aging-time global configuration command to restore the default voice vlan aging-time.	15	GLOBAL_CONFIG
voice vlan class { <0-7> | low | normal | medium | high }	Use the voice vlan class global configuration command to configure voice vlan class.	15	GLOBAL_CONFIG
no voice vlan class	Use the no voice vlan class global configuration command to restore the default voice vlan class.	15	GLOBAL_CONFIG
voice vlan oui <oui> [description <line32>]	Use the voice vlan oui global configuration command to set the oui entry for voice vlan.	15	GLOBAL_CONFIG
no voice vlan oui <oui>	Use the no voice vlan oui global configuration command to delete the oui entry.	15	GLOBAL_CONFIG
switchport voice vlan mode { auto | force | disable }	Use the switchport voice vlan mode interface configuration command to configure to switchport voice vlan mode.	15	INTERFACE_PORT_LIST
no switchport voice vlan mode	Use the no switchport voice vlan mode interface configuration command to restore the default switchport voice vlan mode.	15	INTERFACE_PORT_LIST
switchport voice vlan security	Use the switchport voice vlan security interface configuration command to configure switchport voice vlan security mode. Use the no form of this command to globally disable switchport voice vlan security mode.	15	INTERFACE_PORT_LIST
switchport voice vlan discovery-protocol {oui | lldp | both}	Use the switchport voice vlan discovery-protocol interface configuration command to configure to switchport voice vlan discovery-protocol.	15	INTERFACE_PORT_LIST
no switchport voice vlan discovery-protocol	Use the no switchport voice vlan discovery-protocol interface configuration command to restore the default switchport voice vlan discovery-protocol.	15	INTERFACE_PORT_LIST

show voice vlan [oui <oui> | interface <port_type_list>]	Use the show voice vlan privilege EXEC command without keywords to display the voice vlan configuration, or particularly switchport configuration for the interface, or use the oui keyword to display oui table.	15	EXEC
debug gvrp protocol-state interface <port_type_list> vlan <vlan_list>		debug	EXEC
debug gvrp msti		debug	EXEC
debug gvrp statistic		debug	EXEC
gvrp		15	GLOBAL_CONFIG
gvrp time { [join-time <1-20>] [leave-time <60-300>] [leave-all-time <1000-5000>] }*1		15	GLOBAL_CONFIG
gvrp max-vlans <1-4095>		15	GLOBAL_CONFIG
gvrp		15	INTERFACE_PORT_LIST
gvrp join-request vlan <vlan_list>		15	INTERFACE_PORT_LIST
gvrp leave-request vlan <vlan_list>		15	INTERFACE_PORT_LIST