



# **AW-GTS-287A**

## **10G L2 Plus Managed PoE Switch**

### **Command-Line Interface (CLI) Guide**

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**Rev. 1.0**

For firmware revision 6.33

# ABOUT THIS 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.

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

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

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**RELATED PUBLICATIONS** The following publication details the hardware features of the switch, including the physical and performance-related characteristics, and how to install the switch:

The *Installation Guide*

Also, as part of the switch's software, there is an online web-based help that describes all management related features.

# Revision History

<b>Release</b>	<b>Date</b>	<b>Revision</b>
<b>V6.33</b>	<b>02/20/2016</b>	<b>1.0</b>

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# 1

## CLI Management

The following description is the brief of the network connection.

-- Locate the correct DB-9 RS-232 cable with female DB-9 connector. RS-232 cable is used for connecting a terminal or terminal emulator to the Managed Switch's RS-232 port to access the command-line interface.

-- Attach the DB-9 serial port on the switch's front panel which used to connect to the switch for console configuration

-- Attach the other end of the DB-9 cable to an ASCII terminal emulator or PC Com-1, 2 port. For example, PC runs Microsoft Windows HyperTerminal utility.

-- At "Com Port Properties" Menu, configure the parameters as below: (see the next section)

Baud rate	115200
Stop bits	1
Data bits	8
Parity	N
Flow control	none

## 1-1 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 user and password to login into the Managed Switch are listed below:

Username: admin

Password: admin

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: admin
Password: admin
AW-GTS-287A#
```

## 1-2 Commands of CLI

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. 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 follows:

### 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-impcc-profile	<sys_name>(config-impcc-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

### 1-3 Global Commands of CLI

```

AW-GTS-287A# ?
  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
  terminal   Set terminal line parameters

```



## Exit

Exit from EXEC mode.

### Syntax:

**exit**

### Parameter:

None.

### Example:

```
AW-GTS-287A(config)# exit
AW-GTS-287A#
```

## Help

Description of the interactive help system.

### Syntax:

**help**

### Parameter:

None.

### Example:

```
AW-GTS-287A# 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?'.)
AW-GTS-287A#
```

## ***logout***

Exit from EXEC mode.

### **Syntax:**

**logout**

### **Parameter:**

none

### **Example:**

```
AW-GTS-287A# logout

press ENTER to get started
```

## ***end***

Go back to EXEC mode.

### **Syntax:**

**end**

### **Example:**

```
AW-GTS-287A(config)# end
AW-GTS-287A#
```

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## CLEAR of CLI

**Table : CLEAR Commands**

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

### **access**

Access management.

#### **Syntax:**

**clear** access management statistics

#### **Parameter:**

**management** Access management configuration.

**statistics** Statistics data.

#### **Example:**

```
AW-GTS-287A# clear access management statistics
AW-GTS-287A#
```

## **access-list**

Access list.

### **Syntax:**

**Clear** access-list ace statistics

### **Parameter:**

**ace** Access list entry

**statistics** Traffic statistics

### **Example:**

```
AW-GTS-287A# clear access-list ace statistics
AW-GTS-287A#
```

## **dot1x**

IEEE Standard for port-based Network Access Control.

### **Syntax**

**Clear** dot1x statistics

**Clear** dot1x statistics interface GigabitEthernet < PORT\_TYPE\_LIST >

**Clear** dot1x statistics interface 10GigabitEthernet < PORT\_TYPE\_LIST >

### **Parameter**

**statistics** Clears the statistics counters

**interface** Interface

**GigabitEthernet** 1 Gigabit Ethernet Port

**GigabitEthernet** 10 Gigabit Ethernet Port

**PORT\_TYPE\_LIST** Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

### **EXAMPLE**

```
AW-GTS-287A# clear dot1x statistics interface GigabitEthernet 1/1-24
AW-GTS-287A#
```

## **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

<b>arp</b>	Clear ARP cache
<b>dhcp</b>	Dynamic Host Configuration Protocol
<b>igmp</b>	Internet Group Management Protocol
<b>statistics</b>	Traffic statistics
<b>relay</b>	DHCP relay agent configuration
<b>snooping</b>	DHCP snooping
<b>interface</b>	Select an interface to configure
<b>GigabitEthernet</b>	1 Gigabit Ethernet Port
<b>10GigabitEthernet</b>	10 Gigabit Ethernet Port
<b>vlan</b>	IPv4 traffic interface
<b>&lt;vlan_list&gt;</b>	VLAN identifier(s): VID

#### EXAMPLE

```

AW-GTS-287A# clear ip arp
AW-GTS-287A# clear ip dhcp detailed statistics all
interface GigabitEthernet 1/1-24
AW-GTS-287A# clear ip dhcp relay statistics
AW-GTS-287A# clear ip dhcp server binding 192.168.1.11
AW-GTS-287A# clear ip dhcp server binding automatic
AW-GTS-287A# clear ip dhcp server statistics
AW-GTS-287A# Clear ip dhcp snooping statistics interface
GigabitEthernet 1/1-24
AW-GTS-287A# clear ip igmp snooping vlan 1 statistics
AW-GTS-287A# clear ip statistics system interface
AW-GTS-287A# clear ip statistics system interface vlan 1
icmp icmp-msg 2

```

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

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

### EXAMPLE

```
AW-GTS-287A# clear ipv6 mld snooping vlan 3 statistics
AW-GTS-287A# clear ipv6 neighbors
AW-GTS-287A# Clear ipv6 statistics system icmp icmp-msg
2
```

## *lACP*

Clear LACP statistics

### Syntax

**Clear lACP** statistics

### Parameter

**statistics** Clear all LACP statistics

### EXAMPLE

```
AW-GTS-287A# clear lACP statistics
AW-GTS-287A#
```

## lldp

Clears LLDP statistics.

### Syntax

**Clear lldp** statistics

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

### Parameter

<b>statistics</b>	Clears LLDP statistics.
	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### EXAMPLE

```
AW-GTS-287A# clear lldp statistics | begin LINE
AW-GTS-287A#
```

## logging

Syslog.

### Syntax

**clear logging** [ info ] [ warning ] [ error ] [ switch <switch\_list> ]

### Parameter

<b>error</b>	Error
<b>info</b>	Information
<b>warning</b>	Warning

### EXAMPLE

```
AW-GTS-287A# clear logging info error warning
AW-GTS-287A#
```

## mac

MAC Address Table.

### Syntax

**Clear mac** address-table

### Parameter

**address-table** Flush MAC Address table.

#### EXAMPLE

```
AW-GTS-287A # clear mac address-table
AW-GTS-287A #
```

### *mvr*

Multicast VLAN Registration configuration.

#### Syntax

**clear mvr** [ vlan <v\_vlan\_list> | name <mvr\_name> ] statistics

#### Parameter

<b>name</b>	MVR multicast name
<b>statistics</b>	Running MVR protocol counters
<b>vlan</b>	MVR multicast vlan
<b>&lt; word16 &gt;</b>	MVR multicast VLAN name
<b>&lt;vlan_list&gt;</b>	MVR multicast VLAN list

#### EXAMPLE

```
AW-GTS-287A# clear mvr vlan 25 statistics
AW-GTS-287A#
```

### *sflow*

Statistics flow.

#### Syntax

**clear sflow** statistics { receiver [ <receiver\_index\_list> ] | samplers [ interface [ <samplers\_list> ] ( <port\_type> [ <v\_port\_type\_list> ] ) ] }

#### Parameter

<b>interface</b>	Interface
<b>receiver</b>	Clear statistics for receiver.
<b>&lt;port_type&gt;</b>	GigabitEthernet or 10Gigabitethernet
<b>&lt;Samplers : option&gt;</b>	runtime
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

#### EXAMPLE



```
AW-GTS-287A# clear sflow statistics interface
GigabitEthernet 1/1-24
```

## 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

<b>detected-protocols</b>	Set the STP migration check
<b>statistics</b>	STP statistics
<b>interface</b>	Choose port
<b>&lt;port_type&gt;</b>	GigabitEthernet or 10Gigabitethernet
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

### EXAMPLE

```
AW-GTS-287A# clear spanning-tree detected-protocols interface GigabitEthernet
1/1-24
```

## statistics

Clear statistics for a given interface

### Syntax

```
clear statistics interface <port_type> <port_type_list>
clear statistics <port_type> <port_type_list>
```

### Parameter

<b>&lt;port_type&gt;</b>	GigabitEthernet or 10Gigabitethernet
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

### EXAMPLE

```
AW-GTS-287A# clear statistics GigabitEthernet 1/1-13
AW-GTS-287A#
```



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## 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
event	Trap event severity level
exit	Exit from Configuration mode
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

<a href="#">ipmc</a>	IPv4/IPv6 multicast configuration
<a href="#">ipv6</a>	IPv6 configuration commands
<a href="#">lACP</a>	LACP settings
<a href="#">line</a>	Configure a terminal line
<a href="#">lldp</a>	LLDP configurations.
<a href="#">logging</a>	Syslog
<a href="#">loop-protect</a>	Loop protection configuration
<a href="#">mac</a>	MAC table entries/configuration
<a href="#">monitor</a>	Set monitor configuration.
<a href="#">mvr</a>	Multicast VLAN Registration configuration
<a href="#">no</a>	Negate a command or set its defaults
<a href="#">ntp</a>	Configure NTP
<a href="#">port-security</a>	Enable/disable port security globally.
<a href="#">Privilege</a>	Command privilege parameters
<a href="#">qos</a>	Quality of Service
<a href="#">radius-server</a>	Configure RADIUS
<a href="#">rmon</a>	Remote Monitoring
<a href="#">sflow</a>	Statistics flow.
<a href="#">smtp</a>	Set email information.
<a href="#">snmp-server</a>	Set SNMP server's configurations
<a href="#">spanning-tree</a>	Spanning Tree protocol
<a href="#">system</a>	Set the SNMP server's configurations
<a href="#">tacacs-server</a>	Configure TACACS+
<a href="#">upnp</a>	Set UPnP's configurations
<a href="#">username</a>	Establish User Name Authentication
<a href="#">vlan</a>	VLAN commands

<a href="#">voice</a>	Voice appliance attributes
<a href="#">web</a>	Web

---

## **terminal**

Configure from the terminal.

### **Syntax**

**configure terminal**

### **EXAMPLE**

```
AW-GTS-287A# configure terminal
AW-GTS-287A(config)#
```

## **aaa**

Authentication, Authorization and Accounting.

### **SYNTAX**

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

### **Parameter**

<b>authentication</b>	Authentication
<b>login</b>	Login
<b>console</b>	Configure Console
<b>http</b>	Configure HTTP
<b>ssh</b>	Configure SSH
<b>telnet</b>	Configure Telnet
<b>local</b>	Use local database for authentication
<b>radius</b>	Use RADIUS for authentication

**tacacs** Use TACACS+ for authentication

### EXAMPLE

```
AW-GTS-287A(config)# aaa authentication login http radius
AW-GTS-287A(config)#
```

## access

Access management.

### SYNTAX

**access** management

**access** management <access\_id> <access\_vid> <start\_addr> [ to <end\_addr> ] { [ web ] [ snmp ] [ telnet ] | all }

### Parameter

<b>management</b>	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
<b>all</b>	All services
<b>snmp</b>	SNMP service
<b>telnet</b>	TELNET/SSH service
<b>to</b>	End address of the range
<b>web</b>	Web service

### EXAMPLE

```
AW-GTS-287A(config)# access management 10 3 192.168.1.1 all
AW-GTS-287A(config)#
```

## aggregation

Aggregation mode.

## SYNTAX

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

## Parameter

<b>mode</b>	Traffic distribution mode
<b>dmac</b>	Destination MAC affects the distribution
<b>ip</b>	IP address affects the distribution
<b>port</b>	IP port affects the distribution
<b>smac</b>	Source MAC affects the distribution

## EXAMPLE

```
AW-GTS-287A(config)# aggregation mode ip port dmac smac  
AW-GTS-287A(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

```
AW-GTS-287A(config)# banner exec LINE
Enter TEXT message. End with the character 'L'.
L
AW-GTS-287A(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



<b>hh:mm</b>	Time to end (hh:mm)
<b>&lt;1-1440&gt;</b>	Offset to add in minutes
<b>&lt;1-5&gt;</b>	Week number to start
<b>&lt;1-7&gt;</b>	Weekday to start
<b>&lt;1-12&gt;</b>	Month to start

### EXAMPLE

```
AW-GTS-287A(config)# clock set 2014/11/04 10:22:03
2014-11-04T10:22:03+00:00
AW-GTS-287A(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

<b>access-list</b>	Access list
<b>rate-limiter</b>	Rate limiter
<b>&lt;RateLimiterId : 1-16&gt;</b>	Rate limiter ID

### EXAMPLE

```
AW-GTS-287A(config)# default access-list rate-limiter 3
AW-GTS-287A(config)#
```

### do

To run exec commands in config mode.?

## SYNTAX

**do** <LINE >{[<LINE >]}

## Parameter

<LINE>                    Exec Command

## EXAMPLE

```
AW-GTS-287A(config)# do show vlan
VLAN  Name                               Ports
-----
-----
1      default                               GigabitEthernet 1/1, GigabitEthernet 1/2,
GigabitEthernet 1/3,
                                           GigabitEthernet 1/4, GigabitEthernet 1/5
AW-GTS-287A (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

<b>authentication</b>	Authentication
<b>feature</b>	Globally enables/disables a dot1x feature functionality
<b>guest-vlan</b>	Guest VLAN
<b>max-reauth-req</b>	Guest VLAN ID used when entering the Guest VLAN.
<b>re-authentication</b>	Set Re-authentication state
<b>system-auth-control</b>	Set the global NAS state
<b>timeout</b>	timeout
<b>timer</b>	timer
<b>inactivity addresses.</b>	Time in seconds between check for activity on successfully authenticated MAC
<b>re-authenticate</b>	The period between re-authentication attempts in seconds
<b>&lt;10-1000000&gt;</b>	seconds
<b>&lt;1-3600&gt;</b>	seconds
<b>guest-vlan</b>	Globally enables/disables state of guest-vlan
<b>radius-qos</b>	Globally enables/disables state of RADIUS-assigned QoS.
<b>radius-vlan</b>	Globally enables/disables state of RADIUS-assigned VLAN.
<b>&lt;1-4095&gt;</b>	The number of times a Request Identity EAPOL frame is sent without response before considering entering the Guest VLAN.
<b>supplicant</b>	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.

<b>&lt;1-255&gt;</b>	number of times
<b>quiet-period</b>	Time in seconds before a MAC-address that failed authentication gets a new authentication chance.
<b>tx-period</b>	the time between EAPOL retransmissions.
<b>&lt;10-1000000&gt;</b>	seconds
<b>&lt;1-65535&gt;</b>	seconds

### EXAMPLE

```
AW-GTS-287A(config)# dot1x authentication timer inactivity 1000
AW-GTS-287A(config)# dot1x feature guest-vlan radius-qos radius-vlan
AW-GTS-287A(config)# dot1x guest-vlan 33
AW-GTS-287A(config)# dot1x max-reauth-req 3
AW-GTS-287A(config)# dot1x re-authentication
AW-GTS-287A(config)# dot1x system-auth-control
AW-GTS-287A(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

<b>password</b>	Assign the privileged level clear password
<b>secret</b>	Assign the privileged level secret
<b>WORD</b>	The UNENCRYPTED (cleartext) password

<b>level</b>	Set exec level password
<b>&lt;1-15&gt;</b>	Level number
<b>0</b>	Specifies an UNENCRYPTED password will follow
<b>5</b>	Specifies an ENCRYPTED secret will follow

#### EXAMPLE

```
AW-GTS-287A(config)# enable password level 10 999
AW-GTS-287A(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

<b>Group</b>	Configure trap event severity level
<b>&lt;word32&gt;</b>	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

```
AW-GTS-287A(config)# event group VLAN trap enable
AW-GTS-287A(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

```
AW-GTS-287A(config)# gvrp max-vlans 333
AW-GTS-287A(config)# gvrp time join-time 13 leave-all-time 3000 leave-time 200
AW-GTS-287A(config)#
```

## hostname

Set system's network name.

#### SYNTAX

**hostname** <WORD >

#### Parameter

**WORD** This system's network name.

#### EXAMPLE

```
AW-GTS-287A(config)# hostname vivotek
vivotek(config)#
```

## interface

Select an interface to configure.

#### SYNTAX

**interface** ( <port\_type> [ <plist> ] )

**interface** vlan <vlist>

#### Parameter

<port\_type> GigabitEthernet or 10Gigabitethernet

<b>vlan</b>	VLAN interface configurations
<b>&lt;vlan_list&gt;</b>	List of VLAN interface numbers, 1-4095
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

### EXAMPLE

```
AW-GTS-287A(config)# interface GigabitEthernet 1/1-13
AW-GTS-287A(config)# interface vlan 3
AW-GTS-287A(config-if-vlan)# ip address dhcp
AW-GTS-287A(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

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



<b>verify</b>	verify command
<b>inspection</b>	ARP inspection
<b>entry</b>	arp inspection entry
<b>interface</b>	arp inspection entry interface config
<b>&lt;port_type&gt;</b>	Port type in Fast, Giga ethernet
<b>&lt;port_type_id&gt;</b>	Port ID in the format of switch-no/port-no
<b>&lt;vlan_id&gt;</b>	Select a VLAN id to configure
<b>&lt;mac_ucast&gt;</b>	Select a MAC address to configure
<b>&lt;ipv4_ucast&gt;</b>	Select an IP Address to configure
<b>deny</b>	log denied entries
<b>permit</b>	log permitted entries
<b>all</b>	log all entries
<b>translate</b>	arp inspection translate all entries
<b>vlan</b>	arp inspection vlan setting
<b>&lt;vlan_list&gt;</b>	arp inspection vlan list
<b>relay</b>	<b>DHCP relay agent information</b>
<b>information</b>	DHCP information option <Option 82>
<b>option</b>	DHCP option
<b>information</b>	DHCP information option(Option 82)
<b>policy</b>	Policy for handling the receiving DHCP packet already include the information option
<b>drop</b>	Drop the package when receive a DHCP message that already contains relay information
<b>keep</b>	Keep the original relay information when receive a DHCP message that already contains it
<b>replace</b>	Replace the original relay information when receive a DHCP message that already contains it
<b>server</b>	Enable DHCP server
<b>snooping</b>	DHCP snooping

<b>proxy</b>	DNS proxy service
<b>secure-redirect</b>	Secure HTTP web redirection
<b>secure-server</b>	Secure HTTP web server
<b>snooping</b>	Snooping IGMP
<b>&lt;word16&gt;</b>	Profile name in 16 char's
<b>vlan</b>	IGMP VLAN
<b>ssm-range</b>	IPv4 address range of Source Specific Multicast
<b>&lt;ipv4_mcast&gt;</b>	Valid IPv4 multicast address
<b>&lt;4-32&gt;</b>	Prefix length ranges from 4 to 32
<b>unknown-flooding</b>	Flooding unregistered IPv4 multicast traffic
<b>&lt;ipv4_ucast&gt;</b>	A valid IPv4 unicast address
<b>dhcp</b>	Dynamic Host Configuration Protocol
<b>interface</b>	Select an interface to configure
<b>vlan</b>	VLAN Interface
<b>&lt;vlan_id&gt;</b>	VLAN identifier(s): VID
<b>&lt;ipv4_addr&gt;</b>	Network
<b>&lt;ipv4_netmask&gt;</b>	Netmask
<b>&lt;ipv4_addr&gt;</b>	Gateway
<b>binding</b>	ip source binding
<b>interface</b>	ip source binding entry interface config
<b>&lt;port_type&gt;</b>	* or Gigabitethernet
<b>*</b>	All switches or All ports
<b>Gigabitethernet</b>	1 Gigabitethernet Port
<b>10Gigabitethernet</b>	10 Gigabitethernet Port
<b>&lt;port_type_id&gt;</b>	Port ID in the format of switch-no/port-no, ex 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

<b>&lt;vlan_id&gt;</b>	Select a VLAN id to configure
<b>&lt;ipv4_ucast&gt;</b>	Select an IP Address to configure
<b>&lt;ipv4_netmask&gt;</b>	Select a subnet mask to configure
<b>&lt;mac_ucast&gt;</b>	Select a MAC address to configure
<b>source</b>	verify source
<b>limit</b>	limit command
<b>&lt;0-2&gt;</b>	the number of limit
<b>translate</b>	ip verify source translate all entries
<b>login</b>	ARP inspection vlan logging mode config

## EXAMPLE

```

AW-GTS-287A(config)# ip arp inspection
AW-GTS-287A(config)# ip dhcp relay
AW-GTS-287A(config)# ip dns proxy
AW-GTS-287A(config)# ip helper-address 192.168.1.1
AW-GTS-287A(config)# ip http secure-server
AW-GTS-287A(config)# ip igmp snooping vlan 3
AW-GTS-287A(config)# ip name-server 192.168.1.6
AW-GTS-287A(config)# ip route 192.168.1.1 255.255.255.0 192.168.1.100
AW-GTS-287A(config)# ip routing
AW-GTS-287A(config)# ip ssh
AW-GTS-287A(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

<b>profile</b>	IPMC profile configuration
<b>range</b>	A range of IPv4/IPv6 multicast addresses for the profile
<b>&lt; word16&gt;</b>	Range entry name in 16 char's
<b>&lt;ipv4_mcast&gt;</b>	Valid IPv4 multicast address
<b>&lt;ipv6_mcast&gt;</b>	Valid IPv6 multicast address

#### EXAMPLE

```
AW-GTS-287A(config)# ipmc profile test
AW-GTS-287A(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

<b>mld</b>	Multicast Listener Discovery
<b>route</b>	Configure static routes
<b>host-proxy</b>	MLD proxy configuration
<b>snooping</b>	Snooping MLD

<b>ssm-range</b>	IPv6 address range of Source Specific Multicast
<b>unknown-flooding</b>	Flooding unregistered IPv6 multicast traffic
<b>leave-proxy</b>	MLD proxy for leave configuration
<b>vlan</b>	MLD VLAN
<b>&lt;vlan_list&gt;</b>	VLAN identifier(s): VID
<b>&lt;ipv6_mcast&gt;</b>	Valid IPv6 multicast address
<b>X:X:X:X::X/&lt;0-128&gt;</b>	IPv6 prefix x:x::y/z

### EXAMPLE

```
AW-GTS-287A(config)# ipv6 mld host-proxy leave-proxy
AW-GTS-287A(config)# ipv6 mld snooping vlan 1
AW-GTS-287A(config)#
```

## *lacp*

LACP settings.

### SYNTAX

**lacp system-priority <1-65535>**

#### Parameter

**system-priority** System priority

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

### EXAMPLE

```
AW-GTS-287A(config)# lacp system-priority 333
AW-GTS-287A(config)#
```

## *line*

Configure a terminal line.

## SYNTAX

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

### Parameter

<b>&lt;0~16&gt;</b>	List of line numbers
<b>console</b>	Console terminal line
<b>0</b>	Console Line number
<b>vtty</b>	Virtual terminal
<b>&lt;0~15&gt;</b>	List of vty numbers

### EXAMPLE

```
AW-GTS-287A(config)# line console 0
AW-GTS-287A(config-line)#
```

## *Ildp*

LACP configurations.

## SYNTAX

**Ildp** holdtime <2-10>

**Ildp** med datum { wgs84 | nad83\_navd88 | nad83\_mllw }

**Ildp** med fast <1-10>

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

**Ildp** 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>

**Ildp** med location-tlv elin-addr <dword25>

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

**Ildp** 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

<b>holdtime</b>	Sets LLDP hold time (The neighbor switch will discarded the LLDP information after "hold time" multiplied with "timer" seconds ).
<b>med</b>	Media Endpoint Discovery.
<b>reinit</b>	LLDP tx reinitialization delay in seconds.
<b>timer</b>	Sets LLDP TX interval (The time between each LLDP frame transmitted in seconds).
<b>transmission-delay</b>	Sets LLDP transmsion-delay. LLDP transmission delay (the amount of time that the transmission of LLDP frames will delayed after LLDP configuration has changed) in seconds.)
<b>&lt;2-10&gt;</b>	2-10 seconds.
<b>&lt;1-10&gt;</b>	1-10 seconds.
<b>&lt;5-32768&gt;</b>	5-32768 seconds.
<b>&lt;1-8192&gt;</b>	1-8192 seconds.
<b>datum</b>	Datum (geodetic system) type.
<b>fast</b>	Number of times to repeat LLDP frame transmission at fast start.

<b>location-tlv</b>	LLDP-MED Location Type Length Value parameter.
<b>media-vlan-policy</b>	Use the media-vlan-policy to create a policy, which can be assigned to an interface.
<b>nad83_mllw</b>	Mean lower low water datum 1983
<b>nad83_navd88</b>	North American vertical datum 1983
<b>wgs84</b>	World Geodetic System 1984
<b>altitude</b>	<b>Altitude parameter</b>
<b>meter</b>	<b>Altitude value</b>
<b>floors</b>	<b>Altitude value</b>
<b>civic-addr</b>	Civic address information and postal information
<b>country</b>	The two-letter ISO 3166 country code in capital ASCII letters - Example: DK, DE or US.
<b>state</b>	National subdivisions (state, canton, region, province, prefecture).
<b>county</b>	County, parish, gun (Japan), district.
<b>city</b>	City, township, shi (Japan) - Example: Copenhagen.
<b>district</b>	City division, borough, city district, ward, chou (Japan).
<b>block</b>	Neighbourhood, block.
<b>street</b>	Street - Example: Poppelvej.
<b>leading-street-direction</b>	Leading street direction - Example: N.
<b>trailing-street-suffix</b>	Trailing street suffix - Example: SW.
<b>street-suffix</b>	Street suffix - Example: Ave, Platz.
<b>house-no</b>	House number - Example: 21.
<b>house-no-suffix</b>	House number suffix - Example: A, 1/2.
<b>landmark</b>	Landmark or vanity address - Example: Columbia University.
<b>additional-info</b>	Additional location info - Example: South Wing.
<b>name</b>	Name (residence and office occupant) - Example: Flemming Jahn.



<b>zip-code</b>	Postal/zip code - Example: 2791.
<b>building</b>	Building (structure) - Example: Low Library.
<b>apartment</b>	Unit (Apartment, suite) - Example: Apt 42.
<b>floor</b>	Floor - Example: 4.
<b>room-number</b>	Room number - Example: 450F.
<b>place-type</b>	Place type - Example: Office.
<b>postal-community-name</b>	Postal community name - Example: Leonia.
<b>p-o-box</b>	Post office box (P.O. BOX) - Example: 12345.
<b>additional-code</b>	Additional code - Example: 1320300003.
<b>&lt;string250&gt;</b>	Value for the corresponding selected civic address.
<b>elin-addr</b>	Emergency Location Identification Number, (e.g. E911 and others), such as defined by TIA or NENA.
<b>&lt;dword25&gt;</b>	ELIN value
<b>north</b>	Setting latitude direction to north.
<b>south</b>	Setting latitude direction to south.
<b>&lt;word8&gt;</b>	Latitude degrees (0.0000-90.0000).
<b>policy-list</b>	Assignment of policies.
<b>&lt;range_list&gt;</b>	Policies to assign to the interface.
<b>&lt;0-31&gt;</b>	Policy id for the policy which is created.
<b>voice</b>	Create a voice policy.
<b>voice-signaling</b>	Create a voice signaling policy.
<b>guest-voice-signaling</b>	Create a guest voice signaling policy.
<b>guest-voice</b>	Create a guest voice policy.
<b>softphone-voice</b>	Create a softphone voice policy.
<b>video-conferencing</b>	Create a video conferencing policy.
<b>streaming-video</b>	Create a streaming video policy.

<b>video-signaling</b>	Create a video signaling policy.
<b>tagged</b>	The policy uses tagged frames.
<b>&lt;vlan_id&gt;</b>	The VLAN the policy uses tagged frames.
<b>untagged</b>	The policy uses un-tagged frames.
<b>I2-priority</b>	Layer 2 priority.
<b>&lt;0-7&gt;</b>	Priority 0-7
<b>dscp</b>	Differentiated Services Code Point.
<b>&lt;0-63&gt;</b>	DSCP value 0-63.

### EXAMPLE

```

AW-GTS-287A(config)# lldp holdtime 5
AW-GTS-287A(config)# lldp med fast 5
AW-GTS-287A(config)# lldp reinit 3
AW-GTS-287A(config)# lldp timer 555
AW-GTS-287A(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

<b>&lt;hostname&gt;</b>	Domain name of the log server
<b>level</b>	level
<b>info</b>	Information
<b>warning</b>	Warning
<b>error</b>	Error
<b>on</b>	Enable syslog server

#### EXAMPLE

```
AW-GTS-287A(config)# logging level error
AW-GTS-287A(config)# logging on
AW-GTS-287A(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

```
AW-GTS-287A(config)# loop-protect
AW-GTS-287A(config)# loop-protect shutdown-time 333
AW-GTS-287A(config)# loop-protect transmit-time 3
AW-GTS-287A(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

<b>address-table</b>	Mac Address Table
<b>aging-time</b>	Mac address aging time
<b>&lt;0,10-1000000&gt;</b>	Aging time in seconds, 0 disables aging
<b>static</b>	Static MAC address
<b>&lt;mac_addr&gt;</b>	48 bit MAC address: xx:xx:xx:xx:xx:xx
<b>vlan</b>	VLAN keyword
<b>&lt;vlan_id&gt;</b>	VLAN IDs 1-4095
<b>interface</b>	Select an interface to configure
<b>&lt;port_type&gt;</b>	Port type * or Gigabitethernet or 10Gigabitethernet
<b>*</b>	All switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

### EXAMPLE

```
AW-GTS-287A(config)# mac address-table aging-time 3333
AW-GTS-287A(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

<b>destination</b>	The destination port. That is the port that trafficed should be mirrored to.
<b>interface</b>	Interface to mirror traffic to.
<b>source</b>	The source port. That is the source port to be mirrored to the destination port.
<b>interface</b>	Mirrot interface traffic.
<b>&lt;port_type&gt;</b>	1 Gigabit Ethernet port
<b>*</b>	<b>All switches or all ports.</b>
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24.
<b>cpu</b>	Mirrot CPU traffic.
<b>both</b>	Setting source port to both will mirror both ingress and egress traffic.
<b>rx</b>	Setting source port to rx will mirror bothingress traffic.
<b>tx</b>	Setting source port to tx will mirror both egress traffic.
<b>&lt;port_type&gt;</b>	Port type in Gigabitethernet or 10Gigabitethernet
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

## EXAMPLE

```
AW-GTS-287A(config)# monitor destination interface GigabitEthernet 1/13
AW-GTS-287A(config)# monitor source cpu both
AW-GTS-287A(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**

<b>name</b>	MVR multicast name
<b>&lt;word16&gt;</b>	MVR multicast VLAN name
<b>channel</b>	MVR channel configuration
<b>&lt;word16&gt;</b>	Profile name in 16 char's
<b>frame</b>	MVR control frame in TX
<b>priority</b>	Interface CoS priority
<b>&lt;0-7&gt;</b>	CoS priority ranges from 0 to 7
<b>tagged</b>	Tagged IGMP/MLD frames will be sent
<b>igmp-address</b>	MVR address configuration used in IGMP
<b>&lt;ipv4_ucast&gt;</b>	A valid IPv4 unicast address MVR multicast VLAN name
<b>last-member-query-interval</b>	Last Member Query Interval in tenths of seconds

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

### EXAMPLE

```
AW-GTS-287A(config)# mvr vlan 10 mode dynamic
AW-GTS-287A(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

<b>server</b>	Configure NTP server
<b>&lt;1-5&gt;</b>	index number
<b>ip-address</b>	ip address
<b>&lt;ipv4_ucast&gt;</b>	ipv4 address
<b>&lt;ipv6_ucast&gt;</b>	ipv6 address
<b>&lt;hostname&gt;</b>	domain name

#### EXAMPLE

```
AW-GTS-287A(config)# ntp server 3 ip-address 192.168.1.1
AW-GTS-287A(config)#
```

## *port-security*

Enable/disable port security globally.

#### SYNTAX

**port-security**

**port-security** aging

**port-security** aging time <v\_10\_to\_10000000>

#### Parameter

<b>aging</b>	Time in seconds between check for activity on learned MAC addresses.
<b>time</b>	Time in seconds between check for activity on learned MAC addresses.
<b>&lt;10-10000000&gt;</b>	seconds

#### EXAMPLE



```
AW-GTS-287A(config)# port-security agin time 1000
AW-GTS-287A(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

<b>config-vlan</b>	VLAN Configuration Mode
<b>configure</b>	Global configuration mode
<b>dhcp-pool</b>	DHCP Pool Configuration Mode
<b>exec</b>	Exec mode
<b>if-vlan</b>	VLAN Interface Mode
<b>interface</b>	Port List Interface Mode
<b>ipmc-profile</b>	IPMC Profile Mode
<b>line</b>	Line configuration mode
<b>rfc2544-profile</b>	RFC2544 Profile Mode
<b>snmps-host</b>	SNMP Server Host Mode
<b>stp-aggr</b>	STP Aggregation Mode
<b>level</b>	Set privilege level of command
<b>&lt;LINE&gt;</b>	Initial valid words and literals of the command to modify, in 128 char's

### EXAMPLE

```
AW-GTS-287A(config)# privilege config-vlan level 10 LINE
AW-GTS-287A(config)# privilege configure level 10 LINE
AW-GTS-287A(config)# privilege dhcp-pool level 10 LINE
AW-GTS-287A(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

<b>key</b>	Server specific key (overrides default)
<b>retransmit</b>	Specify the number of retries to active server (overrides default)
<b>timeout</b>	Time to wait for this RADIUS server to reply (overrides default)
<b>&lt;AuthPort : 0-65535&gt;</b>	UDP port number
<b>&lt;Seconds : 1-1000&gt;</b>	Wait time in seconds
<b>&lt;Key : line1-63&gt;</b>	The shared key
<b>&lt;1-1000&gt;</b>	Number of retries for a transaction

### EXAMPLE

```
AW-GTS-287A(config)# radius-server host device key 12
AW-GTS-287A(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

<b>alarm</b>	Configure an RMON alarm
<b>event</b>	Configure an RMON event
<b>&lt;1-65535&gt;</b>	Alarm entry ID
<b>&lt;WORD&gt;</b>	MIB object to monitor

<b>&lt;1-2147483647&gt;</b>	Sample interval
<b>absolute</b>	Test each sample directly
<b>delta</b>	Test delta between samples
<b>rising-threshold</b>	Configure the rising threshold
<b>&lt;-2147483648-2147483647&gt;</b>	rising threshold value
<b>&lt;0-65535&gt;</b>	Event to fire on rising threshold crossing
<b>falling-threshold</b>	Configure the falling threshold
<b>&lt;-2147483648-2147483647&gt;</b>	falling threshold value
<b>rising</b>	Trigger alarm when the first value is larger than the rising threshold
<b>falling</b>	Trigger alarm when the first value is less than the falling threshold
<b>both</b>	Trigger alarm when the first value is larger than the rising threshold or less than the falling threshold (default)
<b>ifInOctets</b>	The total number of octets received on the interface, including framing characters
<b>ifInUcastPkts</b>	The number of uni-cast packets delivered to a higher-layer protocol
<b>ifInNUcastPkts</b>	The number of broad-cast and multi-cast packets delivered to a higher-layer protocol
<b>ifInDiscards</b>	The number of inbound packets that are discarded even the packets are normal
<b>ifInErrors</b>	The number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol
<b>ifInUnknownProtos</b>	The number of the inbound packets that were discarded because of the unknown or un-support protocol
<b>ifOutOctets</b>	The number of octets transmitted out of the interface , including framing characters
<b>ifOutUcastPkts</b>	The number of uni-cast packets that request to transmit
<b>ifOutNUcastPkts</b>	The number of broad-cast and multi-cast packets that request to transmit
<b>ifOutDiscards</b>	The number of outbound packets that are discarded event the packets is normal
<b>ifOutErrors</b>	The The number of outbound packets that could not be transmitted because of errors
<b>&lt;uint&gt;</b>	ifIndex
<b>&lt;1-2147483647&gt;</b>	Sample interval

<b>absolute</b>	Test each sample directly
<b>delta</b>	Test delta between samples
<b>rising-threshold</b>	Configure the rising threshold

### EXAMPLE

```
AW-GTS-287A(config)# rmon alarm 10000 ifInErrors 10 9999 absolute rising-threshold
0 falling-threshold 0 both
AW-GTS-287A(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

<b>agent-ip</b>	The agent IP address used as agent-address in UDP datagrams. Defaults to IPv4 loopback address.
<b>ipv4</b>	ipv4 address
<b>ipv6</b>	ipv6 address
<b>&lt;ipv4_addr&gt;</b>	ipv6 address
<b>&lt;ipv6_addr&gt;</b>	ipv4 address
<b>collector-address</b>	Collector address
<b>collector-port</b>	Collector UDP port
<b>&lt;1-65535&gt;</b>	Port Number
<b>max-datagram-size</b>	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

```
AW-GTS-287A(config)# sflow agent-ip ipv4 192.168.1.2
AW-GTS-287A(config)# sflow collector-port 3
AW-GTS-287A(config)# sflow max-datagram-size 333
AW-GTS-287A(config)# sflow timeout 3333
AW-GTS-287A(config)#
```

## SMTP

Set email information

### SYNTAX

**smtp delete** { server | username | sender | returnpath | mailaddress <index> }

**smtp mailaddress** <index> <mail\_addr\_name>

**smtp returnpath** <return\_path>

**smtp sender** <sender\_name>

**smtp server** <hostname>

**smtp username** <username> <password>

### Parameter

<b>delete</b>	Delete command
<b>mailaddress</b>	Configure email address
<b>returnpath</b>	Configure email returnpath
<b>sender</b>	Configure email sender
<b>server</b>	Configure email server
<b>username</b>	Configure email user name

## EXAMPLE

```
AW-GTS-287A(config)# smtp mailaddress 1 jefferson@vivotek.com
AW-GTS-287A(config)# smtp returnpath jefferson
AW-GTS-287A(config)# smtp sender test
AW-GTS-287A(config)# smtp server server
AW-GTS-287A(config)# smtp username jefferson 12345
AW-GTS-287A(config)# smtp delete mailaddress 1
AW-GTS-287A(config)#
```

## system

Set the SNMP server's configurations

### SYNTAX

**system** contact <v\_line255>

**system** location <v\_line255>

**system** name <v\_line255>

### Parameter

- |                        |  |
|------------------------|--|
| <b>contact</b>         | Set the SNMP server's contact string           |
| <b>location</b>        | Set the SNMP server's location string          |
| <b>name</b>            | Set the SNMP server's system model name string |
| <b>&lt;line255&gt;</b> | Maximum number of 255 character strings        |

## EXAMPLE

```
AW-GTS-287A(config)# system contact 222
AW-GTS-287A(config)# system location 333
AW-GTS-287A(config)# system name GE
AW-GTS-287A(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

<b>deadtime</b>	Time to stop using a TACACS+ server that doesn't respond
<b>host</b>	Specify a TACACS+ server
<b>key</b>	Set TACACS+ encryption key
<b>timeout</b>	Time to wait for a TACACS+ server to reply
<b>&lt;Minutes : 1-1440&gt;</b>	Time in minutes
<b>&lt;Key : line1-63&gt;</b>	The shared key
<b>&lt;Seconds : 1-1000&gt;</b>	Wait time in seconds
<b>&lt;word1-255&gt;</b>	Hostname
<b>&lt;ipv4_ucast&gt;</b>	IPv4 address
<b>&lt;ipv6_ucast&gt;</b>	IPv6 address
<b>port</b>	TCP port for TACACS+ server
<b>&lt;0-65535&gt;</b>	TCP port number

### EXAMPLE

```
AW-GTS-287A(config)# tacacs-server deadtime 300
AW-GTS-287A(config)# tacacs-server host 192.168.1.2
AW-GTS-287A(config)# tacacs-server key 33
AW-GTS-287A(config)# tacacs-server timeout 300
AW-GTS-287A(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

```
AW-GTS-287A(config)# upnp advertising-duration 8
AW-GTS-287A(config)# upnp ttl 25
AW-GTS-287A(config)#
```

## **username**

Establish User Name Authentication.

#### SYNTAX

**username** <username> privilege <priv> password encrypted <encyr\_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

<b>unencrypted</b>	Specifies an UNENCRYPTED password will follow
<b>&lt;Password : line31&gt;</b>	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.
<b>&lt;Password : word4-44&gt;</b>	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

```
AW-GTS-287A(config)# username jefferson privilege 15
password none
```

## vlan

VLAN commands.

#### SYNTAX

**vlan** <vlan\_list>

**vlan** ether-type s-custom-port <0x0600-0xffff>

**vlan** protocol { { eth2 { <0x600-0xffff> | arp | ip | ipx | at } } | { snap { <0x0-0xffff> | rfc\_1042 | snap\_8021h } <0x0-0xffff> } | { llc <0x0-0xff> <0x0-0xff> } } group <word16>

#### Parameter

<b>&lt;vlan_list&gt;</b>	ISL VLAN IDs 1-4095
<b>ether-type</b>	Ether type for Custom S-ports
<b>protocol</b>	Protocol-based VLAN commands

<b>s-custom-port</b>	Custom S-ports configuration
<b>&lt;0x0600-0xffff&gt;</b>	Ether type (Range: 0x0600-0xffff)
<b>eth2</b>	Ethernet-based VLAN commands
<b>&lt;0x600-0xffff&gt;</b>	Ether Type(Range: 0x600 - 0xFFFF)
<b>arp</b>	Ether Type is ARP
<b>ip</b>	Ether Type is IP
<b>ipx</b>	Ether Type is IPX
<b>at</b>	Ether Type is AppleTalk
<b>snap</b>	SNAP-based VLAN group
<b>&lt;0x0-0xfffff&gt;</b>	SNAP OUI (Range 0x000000 - 0FFFFFFF)
<b>rfc_1042</b>	SNAP OUI is rfc_1042
<b>snap_8021h</b>	SNAP OUI is 8021h
<b>&lt;0x0-0xffff&gt;</b>	PID (Range: 0x0 - 0xFFFF)
<b>llc</b>	LLC-based VLAN group
<b>&lt;0x0-0xff&gt;</b>	DSAP (Range: 0x00 - 0xFF)
<b>&lt;0x0-0xff&gt;</b>	SSAP (Range: 0x00 - 0xFF)
<b>group</b>	Protocol-based VLAN group commands
<b>&lt;word16&gt;</b>	Group Name (Range: 1 - 16 characters)

#### EXAMPLE

```
AW-GTS-287A(config)# vlan ethertype s-custom-port
0x1111
AW-GTS-287A(config)# vlan protocol eth2 arp group 123
AW-GTS-287A(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

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

## EXAMPLE

```
AW-GTS-287A(config)# voice vlan aging-time 3333
AW-GTS-287A(config)# voice vlan class 7
AW-GTS-287A(config)# voice vlan vid 3333
AW-GTS-287A(config)#
```

## web

Web.

## SYNTAX

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

### Parameter

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

### EXAMPLE

```
AW-GTS-287A(config)# web privilege group ptp level sro
10
```

## 3-1 access-list

**Table : configure – access-list Commands**

Command	Function
<code>ace</code>	Access list entry
<code>rate-limiter</code>	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

```
AW-GTS-287A(config)# access-list rate-limiter 100kbps
111
AW-GTS-287A(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

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

<b>redirect</b>	Redirect frame to specific port
<b>shutdown</b>	Shutdown incoming port
<b>tag</b>	Tag
<b>tag-priority</b>	Tag priority
<b>vid</b>	VID field
<b>deny</b>	Deny
<b>filter</b>	Filter
<b>permit</b>	Permit
<b>any</b>	Don't-care the type of destination MAC address
<b>broadcast</b>	Broadcast destination MAC address
<b>multicast</b>	Multicast destination MAC address
<b>unicast</b>	Unicast destination MAC address
<b>any</b>	Don't-care the frame type
<b>arp</b>	Frame type of ARP
<b>etype</b>	Frame type of etype
<b>ipv4</b>	Frame type of IPv4
<b>ipv4-icmp</b>	Frame type of IPv4 ICMP
<b>ipv4-tcp</b>	Frame type of IPv4 TCP
<b>ipv4-udp</b>	Frame type of IPv4 UDP
<b>ipv6</b>	Frame type of IPv6
<b>ipv6-icmp</b>	Frame type of IPv6 ICMP
<b>ipv6-tcp</b>	Frame type of IPv6 TCP
<b>ipv6-udp</b>	Frame type of IPv6 UDP
<b>interface</b>	Select an interface to configure
<b>&lt;port_type&gt;</b>	* or Gigabitethernet or 10Gigabitethernet
<b>*</b>	All switches or All ports



<b>Gigabitethernet</b>	1 Gigabit Ethernet port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet port
<b>&lt;port_type_id&gt;</b>	Port ID in the format of switch-no/port-no ex, 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet
<b>&lt;port_type&gt;</b>	* or Gigabitethernet
<b>*</b>	All Switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24
<b>any</b>	Don't-care the ingress interface
<b>&lt;0-255&gt;</b>	Policy ID
<b>policy-bitmask</b>	The bitmask for policy ID
<b>&lt;0x0-0xFF&gt;</b>	The value of policy bitmask
<b>&lt;1-4095&gt;</b>	The value of VID field
<b>&lt;0-7&gt;</b>	The value of tag priority

#### EXAMPLE

```
AW-GTS-287A(config)# access-list ace 10 action deny
AW-GTS-287A(config)#
```

### 3-2 no

Negate a command or set its defaults

**Table : configure – no Commands**

Command	Function
<a href="#">aaa</a>	Authentication, Authorization and Accounting
<a href="#">access</a>	Access management
<a href="#">access-list</a>	Access list
<a href="#">aggregation</a>	Aggregation mode
<a href="#">banner</a>	Define a login banner
<a href="#">clock</a>	Configure time-of-day clock
<a href="#">dot1x</a>	IEEE Standard for port-based Network Access Control
<a href="#">enable</a>	Modify enable password parameters

<a href="#">gvrp</a>	Enable GVRP feature
<a href="#">hostname</a>	Set system's network name
<a href="#">interface</a>	none
<a href="#">ip</a>	Internet Protocol
<a href="#">ipmc</a>	IPv4/IPv6 multicast configuration
<a href="#">ipv6</a>	IPv6 configuration commands
<a href="#">lACP</a>	LACP settings
<a href="#">lldp</a>	LLDP configurations.
<a href="#">logging</a>	Syslog
<a href="#">loop-protect</a>	Loop protection configuration
<a href="#">mac</a>	MAC table entries/configuration
<a href="#">monitor</a>	Set monitor configuration.
<a href="#">mvr</a>	Multicast VLAN Registration configuration
<a href="#">ntp</a>	Configure NTP
<a href="#">port-security</a>	Enable/disable port security globally.
<a href="#">Privilege</a>	Command privilege parameters
<a href="#">qos</a>	Quality of Service
<a href="#">radius-server</a>	Configure RADIUS
<a href="#">rmon</a>	Remote Monitoring
<a href="#">sflow</a>	Statistics flow.
<a href="#">snmp-server</a>	Enable SNMP server
<a href="#">spanning-tree</a>	STP Bridge
<a href="#">system</a>	Set the SNMP server's configurations
<a href="#">tacacs-server</a>	Configure TACACS+
<a href="#">upnp</a>	Set UPnP's configurations
<a href="#">username</a>	Establish User Name Authentication
<a href="#">vlan</a>	Vlan commands
<a href="#">voice</a>	Voice appliance attributes
<a href="#">web</a>	Web

---

## **aaa**

Authentication, Authorization and Accounting

### **SYNTAX**

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

### **Parameter**

<b>authentication</b>	Authentication
<b>login</b>	Login
<b>console</b>	Disable Console
<b>http</b>	Disable HTTP
<b>ssh</b>	Disable SSH
<b>telnet</b>	Disable Telnet

#### EXAMPLE

```
AW-GTS-287A(config)# no aaa authentication login ssh
AW-GTS-287A(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

```
AW-GTS-287A(config)# no access management
AW-GTS-287A(config)#
```

## access-list

Access list

#### SYNTAX

**no access-list ace** <1~256>

### Parameter

<b>ace</b>	Access list entry
<b>&lt;Aceld : 1-256&gt;</b>	ACE ID

### EXAMPLE

```
AW-GTS-287A(config)# access-list ace 1
AW-GTS-287A(config)#
```

## *aggregation*

Aggregation mode

### SYNTAX

**no** aggregation mode

### Parameter

<b>mode</b>	Traffic distribution mode
-------------	---------------------------

### EXAMPLE

```
AW-GTS-287A(config)# no aggregation mode
AW-GTS-287A(config)#
```

## *banner*

Define a login banner

### SYNTAX

**no** banner [ motd ]

**no** banner exec

**no** banner login

### Parameter

<b>exec</b>	Set EXEC process creation banner
<b>login</b>	Set login banner

motd            Set Message of the Day banner

#### EXAMPLE

```
AW-GTS-287A(config)# no banner login
AW-GTS-287A(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

```
AW-GTS-287A(config)# no clock summer-time
AW-GTS-287A(config)# no clock timezone
AW-GTS-287A(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

<b>authentication</b>	Authentication
<b>feature</b>	Globally enables/disables a dot1x feature functionality
<b>guest-vlan</b>	Guest VLAN
<b>max-reauth-req</b>	The number of time a Request Identity EAPOL frame is sent without response before considering entering the Guest VLAN.
<b>re-authentication</b>	Set Re-authentication state
<b>system-auth-control</b>	Set the global NAS state
<b>timeout</b>	timeout
<b>timer</b>	timer
<b>inactivity</b>	Time in seconds between check for activity on successfully authenticated MAC addresses.
<b>re-authenticate</b>	The period between re-authentication attempts in seconds
<b>guest-vlan</b>	Globally enables/disables state of guest-vlan
<b>radius-qos</b>	Globally enables/disables state of RADIUS-assigned QoS.
<b>radius-vlan</b>	Globally enables/disables state of RADIUS-assigned VLAN.
<b>supplicant</b>	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

```
AW-GTS-287A(config)# no dot1x authentication timer inactivity
AW-GTS-287A(config)# no dot1x feature guest-vlan radius-qos
radius-vlan
AW-GTS-287A(config)# no dot1x guest-vlan supplicant
AW-GTS-287A(config)# no dot1x max-reauth-req
AW-GTS-287A(config)# no dot1x re-authentication
AW-GTS-287A(config)# no dot1x system-auth-control
AW-GTS-287A(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

```
AW-GTS-287A(config)# no enable secret level 15
AW-GTS-287A(config)# no enable password level 15
AW-GTS-287A(config)#
```

## hostname

Set system's network name.

## SYNTAX

**no** hostname

## EXAMPLE

```
AW-GTS-287A(config)# no hostname
AW-GTS-287A(config)#
```

## interface

## SYNTAX

**no** interface vlan < vlan\_list >

### Parameter

**vlan**                   Vlan interface configurations

**<vlan\_list>**           Vlan list

## EXAMPLE

```
AW-GTS-287A(config)# no interface vlan 10
AW-GTS-287A(config)#
```

## Ip

Set system's network name.

## SYNTAX

**no** ip arp inspection



**no ip arp inspection entry interface Gigabitethernet|10Gigabitethernet <port\_type\_id> <vlan\_id> <mac\_ucast>  
<ipv4\_ucast>**

**no ip arp inspection vlan <vlan\_list> [logging]**

**no dhcp excluded-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|10Gigabitethernet <port\_type\_id> <vlan\_id>  
<ipv4\_ucast>{ <ipv4\_netmask>|<mac\_ucast>}**

**no ip ssh**

**no ip verify source**

## Parameter

**arp**                      Address Resolution Protocol

<b>inspection</b>	ARP inspection
<b>entry</b>	arp inspection entry
<b>interface</b>	arp inspection entry interface config
<b>GigabitEthernet</b>	1 Gigabit Ethernet Port
<b>10GigabitEthernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_id&gt;</b>	Port ID in the format of switch-no/port-no, 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet
<b>&lt;vlan_id&gt;</b>	Select a VLAN id to configure
<b>&lt;mac_ucast&gt;</b>	Select a MAC address to configure
<b>&lt;ipv4_ucast&gt;</b>	Select an IP Address to configure
<b>vlan</b>	arp inspection vlan setting
<b>&lt;vlan_list&gt;</b>	arp inspection vlan list
<b>logging</b>	ARP inspection vlan logging mode config
<b>dhcp</b>	Dynamic Host Configuration Protocol
<b>excluded-address</b>	Prevent DHCP from assigning certain address
<b>&lt;ip_address&gt;</b>	Low IP address and High IP address
<b>&lt;WORD&gt;</b>	Pool name in 32 characters
<b>pool</b>	Configure DHCP address pools
<b>relay</b>	DHCP relay agent configuration
<b>server</b>	enable DHCP server
<b>snoping</b>	DHCP snooping
<b>information</b>	DHCP information option(Option 82)
<b>option</b>	DHCP option
<b>policy</b>	Policy for handling the receiving DHCP packet already include the information option
<b>snooping</b>	DHCP snooping
<b>dns</b>	Domain Name System

<b>proxy</b>	DNS proxy service
<b>helper-address</b>	None.
<b>http</b>	Hypertext Transfer Protocol
<b>secure-redirect</b>	Secure HTTP web redirection
<b>secure-server</b>	Secure HTTP web server
<b>igmp</b>	Internet Group Management Protocol
<b>host-proxy</b>	IGMP proxy configuration
<b>leave-proxy</b>	IGMP proxy for leave configuration
<b>snooping</b>	Snooping IGMP
<b>vlan</b>	IGMP VLAN
<b>&lt;vlan_list&gt;</b>	VLAN identifier(s): VID
<b>ssm-range</b>	IPv4 address range of Source Specific Multicast
<b>unknown-flooding</b>	Flooding unregistered IPv4 multicast traffic
<b>name-server</b>	Domain Name System
<b>Route</b>	none
<b>&lt;ipv4_addr&gt;</b>	Network
<b>&lt;ipv4_netmask&gt;</b>	Netmask
<b>&lt;ipv4_gateway&gt;</b>	Gateway
<b>routing</b>	Disable routing for IPv4 and IPv6
<b>source</b>	source command
<b>binding</b>	ip source binding
<b>interface</b>	ip source binding entry interface config
<b>Gigabitethernet</b>	1 Gigabitethernet port
<b>10Gigabitethernet</b>	10 Gigabitethernet port
<b>&lt;port_type_id&gt;</b>	Port ID in the format of switch-no/port-no, ex., 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

<b>&lt;vlan_id&gt;</b>	Select a VLAN id to configure
<b>&lt;ipv4_ucast&gt;</b>	Select an IP Address to configure
<b>&lt;ipv4_netmask&gt;</b>	Select a subnet mask to configure
<b>&lt;mac_ucast&gt;</b>	Select a MAC address to configure
<b>ssh</b>	Secure Shell
<b>verify</b>	verify command
<b>source</b>	verify source

### EXAMPLE

```

AW-GTS-287A(config)# no ip arp inspection vlan 3 logging
AW-GTS-287A(config)# no ip dhcp relay information option
AW-GTS-287A(config)# no ip dns proxy
AW-GTS-287A(config)# no ip helper-address
AW-GTS-287A(config)# no ip http secure-redirect
AW-GTS-287A(config)# no ip igmp snooping
AW-GTS-287A(config)# no ip name-server
AW-GTS-287A(config)# no ip routing
AW-GTS-287A(config)# no ip ssh
AW-GTS-287A(config)# no ip verify source
AW-GTS-287A(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

```
AW-GTS-287A(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

<b>mld</b>	Multicasat Listener Discovery
<b>host-proxy</b>	MLD proxy configuration
<b>leave-proxy</b>	MLD proxy for leave configuration
<b>snooping</b>	Snooping MLD
<b>vlan</b>	MLD VLAN
<b>&lt;vlan_list&gt;</b>	VLAN identifier(s): VID
<b>ssm-range</b>	IPv6 address range of Source Specific Multicast
<b>unknown-flooding</b>	Flooding unregistered IPv6 multicast traffic
<b>route</b>	Configure static routes
<b>&lt;ipv6_subnet&gt;</b>	IPv6 prefix x:x::y/z

<b>&lt;ipv6_ucast&gt;</b>	IPv6 unicast address (except link-local address) of next-hop
<b>interface</b>	Select an interface to configure
<b>vlan</b>	VLAN Interface
<b>&lt;vlan_id&gt;</b>	VLAN identifier(s): VID
<b>&lt;ipv6_linklocal&gt;</b>	IPv6 link-local address of next-hop

#### EXAMPLE

```
AW-GTS-287A(config)# no ipv6 mld snooping
AW-GTS-287A(config)#
```

## *lcp*

LACP settings

#### SYNTAX

**no lcp system-priority <1-65535>**

#### Parameter

<b>system-priority</b>	System priority
<b>&lt;1-65535&gt;</b>	Priority value, lower means higher priority

#### EXAMPLE

```
AW-GTS-287A(config)# no lcp system-priority 10000
AW-GTS-287A(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

<b>holdtime</b>	Sets LLDP hold time (The neighbor switch will discarded the LLDP information after "hold time" multiplied with "timer" seconds ).
<b>med</b>	Media Endpoint Discovery.
<b>reinit</b>	Sets LLDP reinitialization delay.
<b>timer</b>	Sets LLDP TX interval (The time between each LLDP frame transmitted in seconds).
<b>tlv-select</b>	Which optional TLVs to transmit.
<b>transmission-delay</b>	Sets LLDP transmission-delay. LLDP transmission delay (the amount of time that the transmission of LLDP frames will delayed after LLDP configuration has changed) in seconds.)
<b>datum</b>	Set datum to default value.
<b>fast</b>	Set fast repeat count to default value.

<b>location-tlv</b>	LLDP-MED Location Type Length Value parameter.
<b>media-vlan-policy</b>	Use the media-vlan-policy to create a policy, which can be assigned to an interface.
<b>altitude</b>	Setting altitude to default.
<b>civic-addr</b>	Civic address information and postal information
<b>elin-addr</b>	Set elin address to default value.
<b>latitude</b>	Setting Latitude parameter to default.
<b>longitude</b>	Setting longitude to default.
<b>additional-code</b>	Additional code - Example: 1320300003.
<b>additional-info</b>	Additional location info - Example: South Wing.
<b>apartment</b>	Unit (Apartment, suite) - Example: Apt 42.
<b>block</b>	Neighbourhood, block.
<b>building</b>	Building (structure) - Example: Low Library.
<b>city</b>	City, township, shi (Japan) - Example: Copenhagen.
<b>country</b>	The two-letter ISO 3166 country code in capital ASCII letters - Example: DK, DE or US.
<b>county</b>	County, parish, gun (Japan), district.
<b>district</b>	City division, borough, city district, ward, chou (Japan).
<b>floor</b>	Floor - Example: 4.
<b>house-no</b>	House number - Example: 21.
<b>house-no-suffix</b>	House number suffix - Example: A, 1/2.
<b>landmark</b>	Landmark or vanity address - Example: Columbia University.
<b>leading-street-direction</b>	Leading street direction - Example: N.
<b>name</b>	Name (residence and office occupant) - Example: Flemming Jahn.
<b>p-o-box</b>	Post office box (P.O. BOX) - Example: 12345.
<b>place-type</b>	Place type - Example: Office.



<b>postal-community-name</b>	Postal community name - Example: Leonia.
<b>room-number</b>	Room number - Example: 450F.
<b>state</b>	National subdivisions (state, canton, region, province, prefecture).
<b>street</b>	Street - Example: Poppelvej.
<b>street-suffix</b>	Street suffix - Example: Ave, Platz.
<b>trailing-street-suffix</b>	Trailing street suffix - Example: SW.
<b>zip-code</b>	Postal/zip code - Example: 2791.
<b>&lt;0~31&gt;</b>	Policy to delete.

### EXAMPLE

```

AW-GTS-287A(config)# no lldp holdtime
AW-GTS-287A(config)# no lldp med location-tlv civic-addr floor
AW-GTS-287A(config)# no lldp reinit
AW-GTS-287A(config)# no lldp timer
AW-GTS-287A(config)# no lldp transmission-delay
AW-GTS-287A(config)#

```

## logging

Syslog.

### SYNTAX

**no logging host**

**no logging on**

### Parameter

**host**            host

**on**                Enable syslog server

### EXAMPLE

```
AW-GTS-287A(config)# no logging host
AW-GTS-287A(config)# no logging on
AW-GTS-287A(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

```
AW-GTS-287A(config)# no loop-protect shutdown-time
AW-GTS-287A(config)# no loop-protect transmit-time
AW-GTS-287A(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|10Gigabitethernet  
[<port\_type\_list>]}

### Parameter

**address-table**            Mac table entries configuration/table

<b>aging-time</b>	Mac address aging time
<b>&lt;0,10-1000000&gt;</b>	Aging time in seconds, 0 disables aging
<b>static</b>	Static MAC address
<b>&lt;mac_addr&gt;</b>	48 bit MAC address: xx:xx:xx:xx:xx:xx
<b>vlan</b>	VLAN keyword
<b>&lt;vlan_id&gt;</b>	VLAN IDs 1-4095
<b>interface</b>	Select an interface to configure
<b>Gigabitethernet</b>	1 Gigabit Ethernet port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet port
<b>&lt;port_type_list&gt;</b>	Port list in , ex, 1/1-24 for Gigaethernet, 1/1-4 for 10Gigaethernet

#### EXAMPLE

```
AW-GTS-287A(config)# no mac address-table aging-time 10000
AW-GTS-287A(config)#
```

## monitor

Set monitor configuration.

#### SYNTAX

**no** monitor destination

**no** monitor source { interface Gigabitethernet | 10Gigabitethernet <port\_type\_list> | cpu}

#### Parameter

##### Destination

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

**cpu** Mirror CPU traffic.

**interface** Mirror Interface traffic.

**Gigabitethernet** 1 Gigabit Ethernet Port

**<port\_type\_list>** Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

## EXAMPLE

```
AW-GTS-287A(config)# no monitor destination
AW-GTS-287A(config)# no monitor source cpu
AW-GTS-287A(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

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

#### EXAMPLE

```
AW-GTS-287A(config)# no mvr vlan 12 mode
AW-GTS-287A(config)#
```

## *ntp*

Configure NTP.

#### SYNTAX

**no ntp**

**no ntp server <1-5>**

#### Parameter

**server**      Configure NTP server

**<1-5>**      index number

#### EXAMPLE

```
AW-GTS-287A(config)# no ntp server 2
AW-GTS-287A(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

```
AW-GTS-287A(config)# no port-security aging time
AW-GTS-287A(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

```
AW-GTS-287A(config)# no radius-server attribute 4
AW-GTS-287A(config)# no radius-server deadtime
AW-GTS-287A(config)# no radius-server key
AW-GTS-287A(config)# no radius-server retransmit
AW-GTS-287A(config)# no radius-server timeout
AW-GTS-287A(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

```
AW-GTS-287A(config)# no rmon alarm 1000
AW-GTS-287A(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

<b>agent-ip</b>	Sets the agent IP address used as agent-address in UDP datagrams to 127.0.0.1.
<b>collector-address</b>	Collector address
<b>collector-port</b>	Collector UDP port
<b>max-datagram-size</b>	Maximum datagram size.
<b>timeout</b>	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

```
AW-GTS-287A(config)# no sflow agent-ip
AW-GTS-287A(config)# no sflow collector-address
AW-GTS-287A(config)# no sflow collector-port
AW-GTS-287A(config)# no sflow max-datagram-size
AW-GTS-287A(config)# no sflow timeout
AW-GTS-287A(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 engine-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

<b>access</b>	access configuration
<b>&lt;Groupname : word32&gt;</b>	group name
<b>model</b>	security model
<b>v1</b>	v1 security model
<b>v2c</b>	v2c security model
<b>v3</b>	v3 security model
<b>any</b>	any security model
<b>level</b>	security level
<b>auth</b>	authNoPriv Security Level
<b>noauth</b>	noAuthNoPriv Security Level
<b>priv</b>	authPriv Security Level
<b>community</b>	Set the SNMP community

<b>contact</b>	Clear the SNMP server's contact string
<b>engine-id</b>	Set SNMP engine ID
<b>host</b>	Set SNMP host's configurations
<b>location</b>	Clear the SNMP server's location string
<b>security-to-group</b>	security-to-group configuration
<b>trap</b>	Set trap's configurations
<b>user</b>	user who can access SNMP server
<b>version</b>	Set the SNMP server's version
<b>view</b>	MIB view configuration
<b>&lt;Community : word127&gt;</b>	
<b>local</b>	Set SNMP local engine ID
<b>&lt;ConfName : word32&gt;</b> Name of the host configuration	
<b>model</b>	security model
<b>v1</b>	v1 security model
<b>v2c</b>	v2c security model
<b>v3</b>	v3 security model
<b>name</b>	security user
<b>&lt;SecurityName : word32&gt;</b> security user name	
<b>&lt;Username : word32&gt;</b> name of user	
<b>engine-id</b>	engine ID
<b>&lt;Engineid : word10-32&gt;</b> engine ID octet string	
<b>&lt;Viewname : word32&gt;</b> <b>MIB view name</b>	
<b>&lt;Oidsubtree : word255&gt;</b> MIB view OID	

## EXAMPLE

```

AW-GTS-287A(config)# no snmp-server access 333 model any level auth
AW-GTS-287A(config)# no snmp-server community v2c
AW-GTS-287A(config)# no snmp-server engined-id local
AW-GTS-287A(config)# no snmp-server host 333
AW-GTS-287A(config)# no snmp-server location
AW-GTS-287A(config)# no snmp-server security-to-group model v2c name
132
AW-GTS-287A(config)# no snmp-server trap
AW-GTS-287A(config)# no snmp-server version
AW-GTS-287A(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**

<b>edge</b>	Edge ports
<b>mode</b>	STP protocol mode

<b>mst</b>	STP bridge instance
<b>recovery</b>	The error recovery timeout
<b>transmit</b>	BPDUs to transmit
<b>bpdu-filter</b>	Enable BPDU filter (stop BPDU tx/rx)
<b>bpdu-guard</b>	Enable BPDU guard
<b>&lt;Instance : 0-7&gt;</b>	instance 0-7 (CIST=0, MST2=1...)
<b>priority</b>	Priority of the instance
<b>forward-time</b>	Delay between port states
<b>max-age</b>	Max bridge age before timeout
<b>max-hops</b>	MSTP bridge max hop count
<b>name</b>	Name keyword
<b>vlan</b>	VLAN keyword
<b>interval</b>	The interval
<b>hold-count</b>	Max number of transmit BPDUs per sec
<b>&lt;Holdcount : 1-10&gt;</b>	1-10 per sec, 6 is default

### EXAMPLE

```

AW-GTS-287A(config)# no spanning-tree edge bpdu-filter
AW-GTS-287A(config)# no spanning-tree mode
AW-GTS-287A(config)# no spanning-tree mst max-age
AW-GTS-287A(config)# no spanning-tree recovery interval
AW-GTS-287A(config)# no spanning-tree transmit hold-count
AW-GTS-287A(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

<b>deadtime</b>	Time to stop using a TACACS+ server that doesn't respond
<b>host</b>	Specify a TACACS+ server
<b>&lt;Hostname : word1-255&gt;</b>	Host name or IP address
<b>key</b>	Set TACACS+ encryption key
<b>timeout</b>	Time to wait for a TACACS+ server to reply
<b>key</b>	Server specific key (overrides default)
<b>port</b>	TCP port for TACACS+ server
<b>timeout</b>	Time to wait for this TACACS+ server to reply (overrides default)
<b>&lt;Port : 0-65535&gt;</b>	TCP port number

#### EXAMPLE

```
AW-GTS-287A(config)# no tacacs-server deadtime
AW-GTS-287A(config)# no tacacs-server host 192.168.1.1 port 10000
AW-GTS-287A(config)# no tacacs-server key
AW-GTS-287A(config)# no tacacs-server timeout
AW-GTS-287A(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

```
AW-GTS-287A(config)# no upnp advertising-duration
AW-GTS-287A(config)# no upnp ttl
AW-GTS-287A(config)#
```

## username

Establish User Name Authentication.

#### SYNTAX

```
no username <Username : word31>
```

#### Parameter

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

#### EXAMPLE

```
AW-GTS-287A(config)# no username admin
AW-GTS-287A(config)#
```

## vlan

Vlan commands.

#### SYNTAX

```
no vlan protocol { { eth2 { <0x600-0xffff> | arp | ip | ipx | at } } | { snap { <0x0-0xfffff> | 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)

<b>arp</b>	Ether Type is ARP
<b>ip</b>	Ether Type is IP
<b>ipx</b>	Ether Type is IPX
<b>at</b>	Ether Type is AppleTalk
<b>snap</b>	SNAP-based VLAN group
<b>&lt;0x0-0xffffffff&gt;</b>	SNAP OUI (Range 0x000000 - 0xFFFFFFFF)
<b>rfc_1042</b>	SNAP OUI is rfc_1042
<b>snap_8021h</b>	SNAP OUI is 8021h
<b>&lt;0x0-0xffff&gt;</b>	PID (Range: 0x0 - 0xFFFF)
<b>llc</b>	LLC-based VLAN group
<b>&lt;0x0-0xff&gt;</b>	DSAP (Range: 0x00 - 0xFF)
<b>&lt;0x0-0xff&gt;</b>	SSAP (Range: 0x00 - 0xFF)
<b>group</b>	Protocol-based VLAN group commands
<b>&lt;word16&gt;</b>	Group Name (Range: 1 - 16 characters)
<b>&lt;vlan_list&gt;</b>	Vlan list
<b>ethertype</b>	
<b>s-custom-port</b>	

#### EXAMPLE

```
AW-GTS-287A(config)# no vlan 3
AW-GTS-287A(config)# no vlan ethertype s-custom-port
AW-GTS-287A(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

<b>vlan</b>	Vlan for voice traffic
<b>aging-time</b>	Set secure learning aging time
<b>class</b>	Set traffic class
<b>oui</b>	OUI configuration
<b>&lt;oui&gt;</b>	Traffic class value
<b>vid</b>	Set VLAN ID

#### EXAMPLE

```
AW-GTS-287A(config)# no voice vlan vid
AW-GTS-287A(config)# no voice vlan class
AW-GTS-287A(config)# no voice vlan aging-time
AW-GTS-287A(config)#
```

## web

Web.

#### SYNTAX

**no web** privilege group [ <group\_name> ] level

#### Parameter

<b>privilege</b>	Web privilege
<b>group</b>	Web privilege group
<b>&lt;CWORD&gt;</b>	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' 'Ports' 'Private\_VLANs' 'QoS'  
 'RPC' 'Security' 'Spanning\_Tree' 'System' 'Timer'  
 'UPnP' 'VCL' 'VLANs' 'Voice\_VLAN' 'XXRP'  
 'sFlow'

**level** Web privilege group level

### EXAMPLE

```
AW-GTS-287A(config)# no web privilege group LACP level
AW-GTS-287A(config)#
```

## 3-3 qos

**Table : configure – qos Commands**

Command	Function
map	Global QoS Map/Table
qce	QoS Control Entry
wred	Weighted Random Early Discard

### 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

<b>cos-dscp</b>	Map for cos to dscp
<b>dscp-classify</b>	Map for dscp classify enable
<b>dscp-cos</b>	Map for dscp to cos
<b>dscp-egress-translation</b>	Map for dscp egress translation
<b>dscp-ingress-translation</b>	Map for dscp ingress translation
<b>dpl</b>	Specify drop precedence level
<b>&lt;Dpl : 0~1&gt;</b>	Specific drop precedence level or range
<b>dscp</b>	Specify DSCP
<b>&lt;DscpNum : 0-63&gt;</b>	Specific DSCP
<b>cos</b>	Specify class of QoS
<b>&lt;Cos : 0-7&gt;</b>	Specific class of QoS
<b>af11</b>	Assured Forwarding PHB AF11(DSCP 10)
<b>af12</b>	Assured Forwarding PHB AF12(DSCP 12)
<b>af13</b>	Assured Forwarding PHB AF13(DSCP 14)
<b>af21</b>	Assured Forwarding PHB AF21(DSCP 18)
<b>af22</b>	Assured Forwarding PHB AF22(DSCP 20)
<b>af23</b>	Assured Forwarding PHB AF23(DSCP 22)
<b>af31</b>	Assured Forwarding PHB AF31(DSCP 26)
<b>af32</b>	Assured Forwarding PHB AF32(DSCP 28)
<b>af33</b>	Assured Forwarding PHB AF33(DSCP 30)

<b>af41</b>	Assured Forwarding PHB AF41(DSCP 34)
<b>af42</b>	Assured Forwarding PHB AF42(DSCP 36)
<b>af43</b>	Assured Forwarding PHB AF43(DSCP 38)
<b>be</b>	Default PHB(DSCP 0) for best effort traffic
<b>cs1</b>	Class Selector PHB CS1 precedence 1(DSCP 8)
<b>cs2</b>	Class Selector PHB CS2 precedence 2(DSCP 16)
<b>cs3</b>	Class Selector PHB CS3 precedence 3(DSCP 24)
<b>cs4</b>	Class Selector PHB CS4 precedence 4(DSCP 32)
<b>cs5</b>	Class Selector PHB CS5 precedence 5(DSCP 40)
<b>cs6</b>	Class Selector PHB CS6 precedence 6(DSCP 48)
<b>cs7</b>	Class Selector PHB CS7 precedence 7(DSCP 56)
<b>ef</b>	Expedited Forwarding PHB(DSCP 46)
<b>va</b>	Voice Admit PHB(DSCP 44)

#### EXAMPLE

```
AW-GTS-287A(config)# qos map cos-dscp 5 dpl 1 dscp 20
AW-GTS-287A(config)#
```

## qce

QoS Control Entry.

#### SYNTAX

**qos** qce refresh

```
qos qce { [ update ] } <ld : 1-256> [ { next <ld : 1-256> } | last ] [ ingress interface *|Gigabitethernet |
10Gigabitethernet <PORT_LIST> ] [ tag { tagged | untagged | any } ] [ vid { <vlan_list> | any } ] [ pcp { <pcp> |
any } ] [ dei { <Dpl : 0-1> | any } ] [ smac { <mac_add> | <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

<b>&lt;Id : 1-256&gt;</b>	QCE ID
<b>refresh</b>	Refresh QCE tables in hardware
<b>update</b>	Update an existing QCE
<b>action</b>	Specify action
<b>dei</b>	Specify DEI (Drop Eligible Indicator)
<b>dmac-type</b>	Specify DMAC type
<b>frametype</b>	Specify frame type
<b>ingress</b>	Ingress interfaces
<b>last</b>	Place QCE at the end
<b>next</b>	Place QCE before the next QCE ID
<b>pcp</b>	Specify PCP (Priority Code Point)
<b>smac</b>	Specify SMAC. If 'qos qce dmac-dip' is set, this parameter specifies the DMAC
<b>tag</b>	Specify tag options
<b>vid</b>	Specify VLAN ID
<b>cos</b>	Specify class of service
<b>dpl</b>	Specify drop precedence level
<b>dscp</b>	Specify DSCP
<b>cos</b>	Specify class of service
<b>&lt;Cos : 0-7&gt;</b>	Specific class of service
<b>default</b>	Keep default class of service

<b>&lt;Dpl : 0-1&gt;</b>	Specific drop precedence level
<b>default</b>	Keep default drop precedence level
<b>&lt;Dscp : 0-63&gt;</b>	Specific DSCP
<b>af11</b>	Assured Forwarding PHB AF11(DSCP 10)
<b>af12</b>	Assured Forwarding PHB AF12(DSCP 12)
<b>af13</b>	Assured Forwarding PHB AF13(DSCP 14)
<b>af21</b>	Assured Forwarding PHB AF21(DSCP 18)
<b>af22</b>	Assured Forwarding PHB AF22(DSCP 20)
<b>af23</b>	Assured Forwarding PHB AF23(DSCP 22)
<b>af31</b>	Assured Forwarding PHB AF31(DSCP 26)
<b>af32</b>	Assured Forwarding PHB AF32(DSCP 28)
<b>af33</b>	Assured Forwarding PHB AF33(DSCP 30)
<b>af41</b>	Assured Forwarding PHB AF41(DSCP 34)
<b>af42</b>	Assured Forwarding PHB AF42(DSCP 36)
<b>af43</b>	Assured Forwarding PHB AF43(DSCP 38)
<b>be</b>	Default PHB(DSCP 0) for best effort traffic
<b>cs1</b>	Class Selector PHB CS1 precedence 1(DSCP 8)
<b>cs2</b>	Class Selector PHB CS2 precedence 2(DSCP 16)
<b>cs3</b>	Class Selector PHB CS3 precedence 3(DSCP 24)
<b>cs4</b>	Class Selector PHB CS4 precedence 4(DSCP 32)
<b>cs5</b>	Class Selector PHB CS5 precedence 5(DSCP 40)
<b>cs6</b>	Class Selector PHB CS6 precedence 6(DSCP 48)
<b>cs7</b>	Class Selector PHB CS7 precedence 7(DSCP 56)
<b>default</b>	Keep default DSCP
<b>ef</b>	Expedited Forwarding PHB(DSCP 46)
<b>va</b>	Voice Admit PHB(DSCP 44)

<b>any</b>	Any
<b>broadcast</b>	Broadcast
<b>multicast</b>	Multicast
<b>unicast</b>	Unicast
<b>etype</b>	Ethernet frames
<b>ipv4</b>	IPv4 frames
<b>ipv6</b>	IPv6 frames
<b>llc</b>	LLC frames
<b>snap</b>	SNAP frames
<b>&lt;Etype : 0x600-0x7ff,0x801-0x86dc,0x86de-0xffff&gt;</b>	Specific EtherType
<b>interface</b>	Interfaces
<b>&lt;Next : 1-256&gt;</b>	The next QCE ID
<b>&lt;Pcp : pcp&gt;</b>	Specific PCP (0-7) or range (0-1, 2-3, 4-5, 6-7, 0-3 or 4-7)
<b>&lt;Smac : mac_addr&gt;</b>	Specific SMAC (XX-XX-XX-XX-XX-XX)
<b>tagged</b>	Tagged frames only
<b>untagged</b>	Untagged frames only
<b>&lt;Vid : vlan_list&gt;</b>	Specific VLAN ID or range
<b>interface</b>	Interfaces
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;PORT_LIST&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

#### EXAMPLE

```
AW-GTS-287A(config)# qos qce 100 vid any
AW-GTS-287A(config)#
```

## wred

Weighted random early discard.

### SYNTAX

```
qos wred queue <queue> min-th <min_th> mdp-1 <mdp_1> mdp-2 <mdp_2> mdp-3 <mdp_3>
```

### Parameter

<b>queue</b>	Specify queue
<b>&lt;Queue : 0~5&gt;</b>	Specific queue or range
<b>&lt;MinTh : 0-100&gt;</b>	Specific minimum threshold in percent
<b>mdp-1</b>	Specify drop probability for drop precedence level 1
<b>&lt;Mdp1 : 0-100&gt;</b>	Specific drop probability in percent
<b>mdp-2</b>	Specify drop probability for drop precedence level 2
<b>&lt;Mdp2 : 0-100&gt;</b>	Specific drop probability in percent
<b>mdp-3</b>	Specify drop probability for drop precedence level 3
<b>&lt;Mdp3 : 0-100&gt;</b>	Specific drop probability in percentunicast

### EXAMPLE

```
AW-GTS-287A(config)# qos wred queue 1 min-th 33 mdp-1 44 mdp-2 55 mdp-3
66
```

## 3-4 snmp-server

Set SNMP server's configurations

### SYNTAX

**snmp-server**

**Table : configure –snmp-server Commands**

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

<b>&lt;GroupName : word32&gt;</b>	group name
<b>model</b>	security model
<b>any</b>	any security model
<b>v1</b>	v1 security model
<b>v2c</b>	v2c security model



<b>v3</b>	v3 security model
<b>level</b>	security level
<b>auth</b>	authNoPriv Security Level
<b>noauth</b>	noAuthNoPriv Security Level
<b>priv</b>	authPriv Security Level
<b>read</b>	specify a read view for the group
<b>write</b>	specify a write view for the group
<b>&lt;ViewName : word255&gt;</b>	read view name
<b>&lt;WriteName : word255&gt;</b>	write view name

### EXAMPLE

```
AW-GTS-287A(config)# snmp-server access text model v2c level noauth
write text
AW-GTS-287A(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

<b>v2c</b>	SNMPv2c
<b>&lt;Community : word127&gt;</b>	Community word
<b>ro</b>	Read only
<b>rw</b>	Read write
<b>v3</b>	SNMPv3

**<Community : word127>**      Community word

**<ipv4\_addr>**                IPv4 address

**<ipv4\_netmask>**            IPv4 netmask

#### EXAMPLE

```
AW-GTS-287A(config)# snmp-server community v2c text
AW-GTS-287A(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

```
AW-GTS-287A(config)# snmp-server contact text
AW-GTS-287A(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

```
AW-GTS-287A(config)# snmp-server engine-id local 1234567891
AW-GTS-287A(config)#
```

## **host**

Set SNMP host's configurations.

### **SYNTAX**

```
snmp-server host <word32>
```

#### **Parameter**

**<word32>** Name of the host configuration

### **EXAMPLE**

```
AW-GTS-287A(config)# snmp-server host text
AW-GTS-287A(config-snmps-host)#
```

## **location**

Set the SNMP server's location string.

### **SYNTAX**

```
snmp-server location <line255>
```

#### **Parameter**

**<line255>** location string

### **EXAMPLE**

```
AW-GTS-287A(config)# snmp-server location text
AW-GTS-287A(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

<b>model</b>	security model
<b>v1</b>	v1 security model
<b>v2c</b>	v2c security model
<b>v3</b>	v3 security model
<b>name</b>	security user
<b>&lt;SecurityName : word32&gt;</b>	security user name
<b>group</b>	security group
<b>&lt;GroupName : word32&gt;</b>	security group name

### EXAMPLE

```
AW-GTS-287A(config)# snmp-server security-to-group model v2c name text
group text
AW-GTS-287A(config)#
```

## trap

Set trap's configurations.

### SYNTAX

```
snmp-server trap
```

### EXAMPLE

```
AW-GTS-287A(config)# snmp-server trap
AW-GTS-287A(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

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

## EXAMPLE

```
AW-GTS-287A(config)# snmp-server user text engine-id 1234567891 md5
12345678 priv aes 12345678
AW-GTS-287A(config)#
```

## version

Set the SNMP server's version.

## SYNTAX

```
snmp-server version { v1 | v2c | v3 }
```

### Parameter

<b>v1</b>	SNMPv1
-----------	--------

**v2c**    SNMPv2c

**v3**     SNMPv3

#### EXAMPLE

```
AW-GTS-287A(config)# snmp-server version v2c
AW-GTS-287A(config)#
```

## view

MIB view configuration.

#### SYNTAX

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

#### Parameter

<b>&lt;ViewName : word32&gt;</b>	MIB view name
<b>&lt;OidSubtree : word255&gt;</b>	MIB view OID
<b>include</b>	Included type from the view
<b>exclude</b>	Excluded type from the view

#### EXAMPLE

```
AW-GTS-287A(config)# snmp-server view text .1 include
AW-GTS-287A(config)#
```

## 3-5 spanning-tree

Spanning Tree protocol

**Table : configure –spanning-tree Commands**

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

### *aggregation*

Aggregation mode.

#### SYNTAX

**spanning-tree** aggregation

#### EXAMPLE

```
AW-GTS-287A(config)# spanning-tree aggregation
AW-GTS-287A(config-stp-aggr)#
```

### *edge*

Edge ports.

#### SYNTAX

**spanning-tree** edge bpd-filter

**spanning-tree** edge bpd-guard

#### Parameter

**bpd-filter** Enable BPDU filter (stop BPDU tx/rx)

**bpd-guard** Enable BPDU guard

## EXAMPLE

```
AW-GTS-287A(config)# spanning-tree edge bpdu-filter
AW-GTS-287A(config)#
```

## mode

STP protocol mode.

## SYNTAX

```
spanning-tree mode { stp | rstp | mstp }
```

### Parameter

<b>mstp</b>	Multiple Spanning Tree (802.1s)
<b>rstp</b>	Rapid Spanning Tree (802.1w)
<b>stp</b>	802.1D Spanning Tree

## EXAMPLE

```
AW-GTS-287A(config)# spanning-tree mode stp
AW-GTS-287A(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



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

### EXAMPLE

```
AW-GTS-287A(config)# spanning-tree mst 7 vlan 10
AW-GTS-287A(config)#
```

## recovery

The error recovery timeouts.

### SYNTAX

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

#### Parameter

<b>interval</b>	The interval
<b>&lt;Interval : 30-86400&gt;</b>	Range in seconds

## EXAMPLE

```
AW-GTS-287A(config)# spanning-tree recovery interval 50
AW-GTS-287A(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

```
AW-GTS-287A(config)# spanning-tree transmit hold-count 5
AW-GTS-287A(config)#
```

# 4

## 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

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

### EXAMPLE

```
AW-GTS-287A# copy startup-config running-config syntax-check |
include
```

# 5

## 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

```
AW-GTS-287A# debug prompt test  
test#
```

# 6

## DELETE Commands of CLI

Delete one file in flash: file system

### SYNTAX

**Delete** <Path : word>

### Parameter

<Path : word>      Name of file to delete

### EXAMPLE

```
AW-GTS-287A# delete text
AW-GTS-287A#
```

# 7

## DIR Commands of CLI

Directory of all files in flash: file system

### SYNTAX

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

### Parameter

	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### EXAMPLE

```
AW-GTS-287A# 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.
```

# 8

## DISABLE Commands of CLI

Turn off privileged commands

### SYNTAX

**disable** <0-15>

### Parameter

**<0-15>**                      Privilege level

### EXAMPLE

```
AW-GTS-287A# disable 10
AW-GTS-287A#
```

## 9

## DO Commands of CLI

To run exec commands in config mode

### SYNTAX

**Do** <LINE>{[LINE]}

### Parameter

**LINE**            Exec Command

### EXAMPLE

```
AW-GTS-287A# do show clock
System Time      : 2011-01-01T00:03:44+00:00
```



# 10

## DOT1X of CLI

IEEE Standard for port-based Network Access Control

### SYNTAX

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

### Parameter

<b>initialize</b>	Force re-authentication immediately
<b>interface</b>	Interface
*	All switches or All ports
<b>Gigabitethernet</b>	1 GigabitEthernet port
<b>10Gigabitethernet</b>	10 GigabitEthernet port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

### EXAMPLE

```
AW-GTS-287A# dot1x initialize interface GigabitEthernet
1/1-13
```

# 11

## ENABLE of CLI

Turn on privileged commands

### Syntax

**Enable** <1-15>

### Parameter

<0-15> Choose privileged level

### EXAMPLE

```
AW-GTS-287A# enable 10
AW-GTS-287A#
```

# 12

## 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

```
AW-GTS-287A# firmware upgrade tftp://192.168.1.1/path/GEL2706
Programming image...
AW-GTS-287A#
```

## 13

## NO of CLI

Negate a command or set its defaults

**Syntax**

**no** debug prompt

**Parameter**

**debug**                    Debugging functions

**prompt**                    Clear prompt for testing

**EXAMPLE**

```
AW-GTS-287A# no debug prompt
AW-GTS-287A#
```

# 14

## 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

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

**interface**                      Select an interface to configure

**vlan**                              VLAN Interface

**<vlan\_id>**                      VLAN identifier(s): VID

#### EXAMPLE

```
AW-GTS-287A# ping ip 33 interval 22 repeat 33 size 444  
PING server 0.0.0.33, 444 bytes of dataitalize interfac
```

# 15

## RELOAD of CLI

Reload system.

### Syntax

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

### Parameter

<b>cold</b>	Reload cold, i.e. reboot.
<b>defaults</b>	Reload defaults without rebooting.
<b>keep-ip</b>	Attempt to keep VLAN1 IP setup.

### EXAMPLE

```
AW-GTS-287A# reload defaults
% Reloading defaults. Please stand by.
AW-GTS-287A# reload cold
% Cold reload in progress, please stand by.
AW-GTS-287A# +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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source code and full license terms must have been made available to you.
Redboot comes with ABSOLUTELY NO WARRANTY.
```





# 16

## SEND of CLI

Send a message to other tty lines

### Syntax

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

### Parameter

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

### EXAMPLE

```
AW-GTS-287A# send * yes,i do
Enter TEXT message. End with the character 'y'.

y

-----

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

-----

AW-GTS-287A #
```



# 17

## 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)
event	Show trap event configuration
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
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.
smtp	Show email information
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
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<LINE>	String to match output lines

### EXAMPLE

```
AW-GTS-287A# show aaa
console : local
telnet  : local
ssh     : local
http   : local
AW-GTS-287A#
```

## access

Access management.

### SYNTAX

```
show access management [ statistics | <access_id_list> ]
```

### Parameter

<b>management</b>	Access management configuration
<b>statistics</b>	Statistics data
<b>&lt;AccessidList : 1~16&gt;</b>	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

```

AW-GTS-287A# 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
-----  -
- - -

AW-GTS-287A# 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
AW-GTS-287A#

```

### **access-list**

Access list

### SYNTAX

```

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

```

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

### Parameter

<b>interface</b>	Select an interface to configure
<b>*</b>	All Switches or All Ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24
<b>rate-limiter</b>	Rate limiter
<b>&lt; RateLimiterList : 1~16&gt;</b>	Rate limiter ID
<b>ace</b>	Access list entry
<b>statistics</b>	Traffic statistics
<b>&lt;Aceld : 1~256&gt;</b>	ACE ID
<b>ace-status</b>	The local ACEs status
<b>static</b>	The ACEs that are configured by users manually
<b>loop-protect</b>	The ACEs that are configured by Loop Protect module
<b>dhcp</b>	The ACEs that are configured by DHCP module
<b>upnp</b>	The ACEs that are configured by UPnP module
<b>arp-inspection</b>	The ACEs that are configured by ARP Inspection module
<b>mep</b>	The ACEs that are configured by MEP module
<b>ipmc</b>	The ACEs that are configured by IPMC module
<b>ip-source-guard</b>	The ACEs that are configured by IP Source Guard module
<b>ip-mgmt</b>	The ACEs that are configured by IP Management module
<b>conflicts</b>	The conflicts ACEs that does not applied to the hardware due to hardware limitations
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match

**include**                    Include lines that match

**<LINE>**                    String to match output lines

### EXAMPLE

```
AW-GTS-287A# 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

AW-GTS-287A#
```

## aggregation

Aggregation port configuration.

### SYNTAX

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

### Parameter

**mode**                    Traffic distribution mode

|                            Output modifiers



<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

#### EXAMPLE

```
AW-GTS-287A# show aggregation Mode
Aggregation Mode:

SMAC : Enabled
DMAC : Disabled
IP   : Enabled
Port : Enabled
AW-GTS-287A#
```

## **clock**

Configure time-of-day clock.

#### SYNTAX

```
show clock [detail]
```

#### Parameter

<b>detail</b>	Display detailed information
---------------	------------------------------

#### EXAMPLE

```

AW-GTS-287A# 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.

<b>all</b>	Show all dot1x statistics
<b>eapol</b>	Show EAPOL statistics
<b>radius</b>	Show Backend Server statistics
<b>&lt;port_type &gt;</b>	GigabitEthernet or 10Gigabitethernet
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet
<b>Status</b>	Shows dot1x status, such as admin state, port state and last source.
<b>brief</b>	Show status in a brief format
<b>interface</b>	Interface
<b>*</b>	All Switches or All Ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet

### EXAMPLE

```

AW-GTS-287A # 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       -
AW-GTS-287A #

```

### event

Show trap event configuration

## SYNTAX

**show event**

## EXAMPLE

```

AW-GTS-287A# show event
Group Name                Severity Level   Syslog Mode   Trap Mode
SMTP Mode    iPush Mode
-----
ACL                    Info            enable        disable
disable        disable
ACL_Log              Info            enable        disable
disable        disable
Access_Mgmt         Info            enable        disable
disable        disable
Auth_Failed         Warning         enable        disable
disable        disable
Cold_Start         Warning         enable        disable
disable        disable
Config_Info         Info            enable        disable
disable        disable
Dying_Gasp          Crit            enable        disable
disable        disable
FAN_FAIL            Warning         enable        disable
disable        disable
Fan                 Warning         enable        disable
disable        disable
Firmware_Upgrade    Info            enable        disable
disable        disable
Import_Export       Info            enable        disable
disable        disable
LACP                 Info            enable        disable
disable        disable
Link_Status         Warning         enable        disable
disable        disable
Login                Info            enable        disable

```

## 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

<b>eee</b>	Shows green ethernet EEE status for a specific port or ports.
<b>energy-detect</b>	Shows green ethernet energy-detect status for a specific port or ports.
<b>interface</b>	Shows green ethernet status for a specific port or ports.
<b>short-reach</b>	Shows green ethernet short-reach status for a specific
<b>interface</b>	
*	All Switches or All ports
<b>&lt;port_type &gt;</b>	GigabitEthernet or 10Gigabitethernet
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet

### EXAMPLE

```

AW-GTS-287A# 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

```
AW-GTS-287A# show history
show evc statistics
show green-ethernet EEE
show green-ethernet EEE interface GigabitEthernet
show history
AW-GTS-287A#
```

## 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> verify

**show** interface vlan [ <vlan\_list> ]

### Parameter

<b>&lt;port_type&gt;</b>	* or Gigabitethernet or 10Gigabitethernet
<b>*</b>	All Switches or All ports
<b>Gigabitethernet</b>	1 Gigabitethernet Port
<b>10Gigabitethernet</b>	10 Gigabitethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet
<b>capabilities</b>	Display capabilities.
<b>statistics</b>	Display statistics counters.
<b>status</b>	Display status.
<b>switchport</b>	Show interface switchport information

<b>verify</b>	Run cable diagnostics and show result.
<b>bytes</b>	Show byte statistics.
<b>discards</b>	Show discard statistics.
<b>down</b>	Show ports which are down
<b>errors</b>	Show error statistics.
<b>filtered</b>	Show filtered statistics.
<b>packets</b>	Show packet statistics.
<b>priority</b>	Queue number
<b>up</b>	Show ports which are up
<b>vlan</b>	VLAN status
<b>&lt;vlan_list&gt;</b>	VLAN list

#### EXAMPLE

```
AW-GTS-287A# 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:

AW-GTS-287A#
```



## 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

<b>arp</b>	Address Resolution Protocol
<b>inspection</b>	ARP inspection
<b>interface</b>	arp inspection entry interface config
<b>&lt;port_type&gt;</b>	* or Gigabitethernet or 10Gigabitethernet

<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet
<b>vlan</b>	VLAN configuration
<b>&lt;vlan_list&gt;</b>	Select a VLAN id to configure
<b>entry</b>	arp inspection entries
<b>dhcp-snooping</b>	learn from dhcp snooping
<b>static</b>	setting from static entries
<b>dhcp</b>	Dynamic Host Configuration Protocol
<b>relay</b>	DHCP relay agent configuration
<b>statistics</b>	Traffic statistics
<b>snooping</b>	DHCP snooping
<b>http</b>	Hypertext Transfer Protocol
<b>server</b>	HTTP web server
<b>secure</b>	Secure
<b>status</b>	Status
<b>igmp</b>	Internet Group Management Protocol
<b>snooping</b>	Snooping IGMP
<b>vlan</b>	Search by VLAN
<b>&lt;vlan_list&gt;</b>	VLAN identifier(s): VID
<b>group-database</b>	Multicast group database from IGMP
<b>sfm-information</b>	Including source filter multicast information from IGMP
<b>detail</b>	Detail running information/statistics of IGMP snooping
<b>mrouter</b>	Multicast router port status in IGMP
<b>detail</b>	Detail running information/statistics of IGMP snooping
<b>interface</b>	IP interface status and configuration
<b>brief</b>	Brief IP interface status
<b>name-server</b>	Domain Name System

<b>route</b>	Display the current ip routing table
<b>binding</b>	ip source binding
<b>dhcp-snooping</b>	learn from dhcp snooping
<b>ssh</b>	Secure Shell
<b>system</b>	IPv4 system traffic
<b>icmp</b>	IPv4 ICMP traffic
<b>icmp-msg</b>	IPv4 ICMP traffic for designated message type
<b>&lt;0~255&gt;</b>	ICMP message type ranges from 0 to 255
<b>verify</b>	verify command
<b>source</b>	verify source

#### EXAMPLE

```

AW-GTS-287A# 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

Frag: 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

AW-GTS-287A#

```

### *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

<b>profile</b>	IPMC profile configuration
<b>range</b>	A range of IPv4/IPv6 multicast addresses for the profile
<b>&lt;ProfileName : word16&gt;</b>	Profile name in 16 char's
<b>detail</b>	Detail information of a profile
<b>&lt;EntryName : word16&gt;</b>	Range entry name in 16 char's
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

## EXAMPLE

```
AW-GTS-287A# show ipmc range
AW-GTS-287A#
```

## 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

<b>interface</b>	Select an interface to configure
<b>vlan</b>	VLAN of IPv6 interface
<b>&lt;vlan_list&gt;</b>	IPv6 interface VLAN list
<b>brief</b>	Brief summary of IPv6 status and configuration
<b>statistics</b>	Traffic statistics
<b>mld</b>	Multicasat Listener Discovery
<b>snooping</b>	Snooping MLD
<b>vlan</b>	Search by VLAN
<b>&lt;vlan_list&gt;</b>	VLAN identifier(s): VID
<b>group-database</b>	Multicast group database from MLD
<b>interface</b>	Search by port
<b>&lt;port_type&gt;</b>	* or Gigabitethernet or 10Gigabitethernet
<b>*</b>	All Switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet
<b>sfm-information</b>	Including source filter multicast information from MLD
<b>detail</b>	Detail running information/statistics of MLD snooping
<b>mrouter</b>	Multicast router port status in MLD
<b>neighbor</b>	IPv6 neighbors
<b>route</b>	IPv6 routes
<b>statistics</b>	Traffic statistics

<b>system</b>	IPv6 system traffic
<b>icmp</b>	IPv6 ICMP traffic
<b>icmp-msg</b>	IPv6 ICMP traffic for designated message type
<b>&lt;Type : 0~255&gt;</b>	ICMP message type ranges from 0 to 255
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### EXAMPLE

```

AW-GTS-287A# 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

AW-GTS-287A#

```

### *lACP*

LACP configuration/status.

## SYNTAX

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

### Parameter

<b>internal</b>	Internal LACP configuration
<b>neighbour</b>	Neighbour LACP status
<b>statistics</b>	Internal LACP statistics
<b>system-id</b>	LACP system id
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### EXAMPLE

```
AW-GTS-287A# 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
AW-GTS-287A#
```

## line

TTY line information.

## SYNTAX

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

### Parameter

<b>alive</b>	Display information about alive lines
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### EXAMPLE

```
AW-GTS-287A# 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.
```

```
AW-GTS-287A#
```

## 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

<b>med</b>	Display LLDP-MED neighbors information.
<b>neighbors</b>	Display LLDP neighbors information.
<b>statistics</b>	Display LLDP statistics information.
<b>media-vlan-policy</b>	Display media vlan policies.
<b>remote-device</b>	Display remote device LLDP-MED neighbors information.
<b>&lt;0~31&gt;</b>	List of policies.

## Interface

<b>&lt;port_type &gt;</b>	* or GigabitEthernet or 10Gigabitethernet
<b>*</b>	All Switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24 for Gigabitethernet, 1/1-4 for 10Gigabitethernet
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

## EXAMPLE

```
AW-GTS-287A# show lldp med media-vlan-policy
No policies defined
AW-GTS-287A#
```

## logging

Syslog.

## SYNTAX

**show logging** <loggin\_id : 1-4294967295> [ | {begin | exclude | include } <LINE>]

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

## Parameter

<b>&lt;loggin_id: 1-4294967295&gt;</b>	Logging ID
<b>error</b>	Error
<b>info</b>	Information
<b>warning</b>	Warning
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

## EXAMPLE

```
AW-GTS-287A# 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
AW-GTS-287A#

```

## loop-protect

Loop protection configuration.

### SYNTAX

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

### Parameter

<b>interface</b>	Interface status and configuration
<b>&lt;port_type &gt;</b>	* or GigabitEthernet or 10Gigabitethernet
<b>*</b>	All Switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet

### EXAMPLE

```

AW-GTS-287A# 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

<b>address-table</b>	Mac Address Table
<b>conf</b>	User added static mac addresses

<b>static</b>	All static mac addresses
<b>aging-time</b>	Aging time
<b>learning</b>	Learn/disable/secure state
<b>count</b>	Total number of mac addresses
<b>interface</b>	Select an interface to configure
<b>&lt;port_type&gt;</b>	* or Gigabitethernet or 10Gigabitethernet
<b>*</b>	All switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet
<b>address</b>	MAC address lookup
<b>&lt;mac_addr&gt;</b>	48 bit MAC address: xx:xx:xx:xx:xx:xx
<b>vlan</b>	VLAN lookup
<b>&lt;vlan_id&gt;</b>	VLAN IDs 1-4095
<b>vlan</b>	Addresses in this VLAN
<b>&lt;vlan_id&gt;</b>	VLAN IDs 1-4095
<b>interface</b>	Select an interface to configure
<b>&lt;port_type&gt;</b>	* or Gigabitethernet or 10Gigabitethernet
<b>*</b>	All Switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match

**<LINE>** String to match output lines

## EXAMPLE

```
AW-GTS-287A# show mac address-table static
AW-GTS-287A#
```

## 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

<b>vlan</b>	Search by VLAN
<b>&lt;vlan_list&gt;</b>	MVR multicast VLAN list
<b>name</b>	Search by MVR name
<b>&lt;word16&gt;</b>	MVR multicast VLAN name
<b>group-database</b>	Multicast group database from MVR
<b>interface</b>	Search by port
<b>&lt;port_type&gt;</b>	* or Gigabitethernet
<b>*</b>	All Switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet
<b>sfm-information</b>	Including source filter multicast information from MVR
<b>detail</b>	Detail information/statistics of MVR group database
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches

<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### EXAMPLE

```
AW-GTS-287A# 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.

AW-GTS-287A#
```

## 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

<b>phy</b>	PHYs' information
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### EXAMPLE

```

AW-GTS-287A# 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

```

## ntp

show NTP.

### SYNTAX

**show ntp status**

### Parameter

**status**            status

### EXAMPLE



```

AW-GTS-287A# 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
AW-GTS-287A#

```

## 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 >** \* or GigabitEthernet of 10Gigabitethernet

**\*** All Switches or All ports

**Gigabitethernet** 1 Gigabit Ethernet Port

**10Gigabitethernet** 10 Gigabit Ethernet Port

**<port\_type\_list>** Port list in 1/1-24, 1/1-4 for 10Gigabitethernet

**|** 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

```
AW-GTS-287A# show port-security port interface GigabitEthernet 1/2
GigabitEthernet 1/2
-----
MAC Address          VID   State   Added           Age/Hold Time
-----
<none>

AW-GTS-287A#
```

## 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

```
AW-GTS-287A# 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**

<b>&lt;range_list&gt;</b>	PVLAN id to show configuration for
<b>isolation</b>	show isolation configuration
<b>&lt;port_type &gt;</b>	* or GigabitEthernet or 10Gigabitethernet
<b>*</b>	All Switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### **EXAMPLE**

```
AW-GTS-287A# show pvlan isolation interface GigabitEthernet 1/1-2
Port                               Isolation
-----
GigabitEthernet 1/1                Disabled
GigabitEthernet 1/2                Disabled
AW-GTS-287A#
```

## **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

<b>interface</b>	Interface
<b>&lt;port_type &gt;</b>	* or GigabitEthernet or 10Gigabitethernet
<b>*</b>	All switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet
<b>maps</b>	Global QoS Maps/Tables
<b>qce</b>	QoS Control Entry
<b>storm</b>	Storm policer
<b>wred</b>	Weighted Random Early Discard
<b>cos-dscp</b>	Map for cos to dscp
<b>dscp-classify</b>	Map for dscp classify enable
<b>dscp-cos</b>	Map for dscp to cos
<b>dscp-egress-translation</b>	Map for dscp egress translation
<b>dscp-ingress-translation</b>	Map for dscp ingress translation
<b>&lt;Qce : 1-256&gt;</b>	QCE ID
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match

<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### EXAMPLE

```
AW-GTS-287A# show qos storm
qos storm:
=====
Unicast  : disabled          1
Multicast: disabled          1
Broadcast: disabled          1
AW-GTS-287A#
```

## *radius-server*

RADIUS configuration.

### SYNTAX

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

### Parameter

<b>statistics</b>	RADIUS statistics
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### EXAMPLE

```

AW-GTS-287A# 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!

AW-GTS-287A#

```

## 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

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

**<LINE>** String to match output lines

### EXAMPLE

```
AW-GTS-287A# show rmon alarm
AW-GTS-287A#
```

## 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'  
 'lcp' 'lldp' 'logging' 'loop-protect' 'mac' 'mep'  
 'monitor' 'mstp' 'mvr' 'mvr-port' 'ntp' 'phy' 'port'  
 'port-security' 'pvlan' 'qos' 'rmon' 'sflow'  
 'snmp' 'source-guard' 'ssh' 'system' 'upnp' 'user'  
 'vlan' 'voice-vlan'  
 'web-privilege-group-level'

<b>&lt;port_type &gt;</b>	* or GigabitEthernet or 10Gigabitethernet
<b>*</b>	All switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet
<b>&lt;vlan_list&gt;</b>	List of VLAN numbers
<b>console</b>	Console
<b>vty</b>	VTY
<b>&lt;range_list&gt;</b>	List of console/VTYs
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

#### EXAMPLE



```
AW-GTS-287A# show running-config interface vlan 3
Building configuration...
end
AW-GTS-287A#
```

## sflow

Statistics flow..

### SYNTAX

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

### Parameter

<b>statistics</b>	sFlow statistics.
<b>receiver</b>	Show statistics for receiver.
<b>samplers</b>	Show statistics for samplers.
<b>&lt;range_list&gt;</b>	runtime, see sflow_icli_functions.c
<b>&lt;port_type &gt;</b>	* or GigabitEthernet or 10Gigabitethernet
<b>*</b>	All switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

## EXAMPLE

```
AW-GTS-287A# 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.
AW-GTS-287A#
```

## **snmp**

Display SNMP configurations.

### SYNTAX

```
show snmp
```

### EXAMPLE

```

AW-GTS-287A# show smtp
Mail Server      : server
User Name       : jefferson
Password        : *****
Sender          : test
Return Path     : jefferson
Email Address 1 :
Email Address 2 :
Email Address 3 :
Email Address 4 :
Email Address 5 :
Email Address 6 :
AW-GTS-287A#

```

## 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

<b>v2c</b>	v2c security model
<b>v3</b>	v3 security model
<b>any</b>	any security model
<b>auth</b>	authNoPriv Security Level
<b>noauth</b>	noAuthNoPriv Security Level
<b>priv</b>	authPriv Security Level
<b>community</b>	Community
<b>v3</b>	SNMPv3
<b>&lt;Community : word127&gt;</b>	Specify community name
<b>host</b>	Set SNMP host's configurations
<b>&lt;ConfName : word32&gt;</b>	Name of the host configuration
<b>system</b>	System event group
<b>switch</b>	Switch event group
<b>interface</b>	Interface event group
<b>aaa</b>	AAA event group
<b>security-to-group</b>	security-to-group configuration
<b>&lt;SecurityName : word32&gt;</b>	security group name
<b>user</b>	User
<b>&lt;UserName : word32&gt;</b>	Security user name
<b>&lt;EngineId : word10-32&gt;</b>	Security Engine ID
<b>view</b>	MIB view configuration
<b>&lt;ViewName : word32&gt;</b>	MIB view name
<b>&lt;OidSubtree : word255&gt;</b>	MIB view OID
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match

**include**                           Include lines that match

**<LINE>**                           String to match output lines

### EXAMPLE

```

AW-GTS-287A# 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

<b>summary</b>	STP summary
<b>active</b>	STP active interfaces
<b>interface</b>	Choose port
<b>&lt;port_type&gt;</b>	* or Gigabitethernet or 10Gigabitethernet
<b>*</b>	All switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet
<b>detailed</b>	STP statistics
<b>interface</b>	List of port type and port ID, ex, 1/1-24
<b>mst</b>	Configuration
<b>configuration</b>	STP bridge instance no (0-7, CIST=0, MST2=1...)
<b>&lt;0-7&gt;</b>	Choose port
<b>&lt;port_type &gt;</b>	* or GigabitEthernet or 10Gigabitethernet
<b>*</b>	All Switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

## EXAMPLE

```
AW-GTS-287A# 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
AW-GTS-287A# show spanning-tree ?
|               Output modifiers
active          STP active interfaces
detailed        STP statistics
interface       Choose port
mst             Configuration
summary        STP summary
<cr>

AW-GTS-287A# 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

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

### EXAMPLE

```
AW-GTS-287A# show switchport forbidden
Forbidden VLAN table is empty
AW-GTS-287A#
```

## tacacs-server

TACACS+ configuration.

### SYNTAX

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

### Parameter

<b> </b>	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

```
AW-GTS-287A# show tacacs-server
Global TACACS+ Server Timeout      : 5 seconds
Global TACACS+ Server Deadtime     : 0 minutes
Global TACACS+ Server Key          :
No hosts configured!
AW-GTS-287A#
```

## system

show system information.

### SYNTAX

**show system**

#### Parameter

**None**

### EXAMPLE

```
AW-GTS-287A# 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       : XXXXYZZZZZZ
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
AW-GTS-287A#
```

## terminal

Display terminal configuration parameters.

### SYNTAX

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

#### Parameter

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

#### EXAMPLE

```
AW-GTS-287A# 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.

AW-GTS-287A#
```

#### *upnp*

Display UPnP configurations.

#### SYNTAX

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

### Parameter

	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### EXAMPLE

```
AW-GTS-287A# show upnp
UPnP Mode           : Disabled
UPnP TTL            : 4
UPnP Advertising Duration : 100
AW-GTS-287A#
```

## users

Display information about terminal lines.

### SYNTAX

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

### Parameter

<b>myself</b>	Display information about mine
	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### EXAMPLE

```
AW-GTS-287A# 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
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<LINE>	String to match output lines

### EXAMPLE

```
AW-GTS-287A# 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    : AW-GTS-287A (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   : AW-GTS-287A
Port Count   : 26
Product      : Vitesse AW-GTS-287A Switch
Software Version : AW-GTS-287A (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 { <0x0-0xfffff> | 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

<b>id</b>	VLAN status by VLAN id
<b>&lt;vlan_list&gt;</b>	VLAN IDs 1-4095
<b>name</b>	VLAN status by VLAN name
<b>&lt;vword32&gt;</b>	A VLAN name
<b>brief</b>	VLAN summary information
<b>protocol</b>	Protocol-based VLAN status
<b>eth2</b>	Ethernet protocol based VLAN status
<b>&lt;0x600-0xffff&gt;</b>	Ether Type(Range: 0x600 - 0xFFFF)
<b>arp</b>	Ether Type is ARP
<b>ip</b>	Ether Type is IP
<b>ipx</b>	Ether Type is IPX
<b>at</b>	Ether Type is AppleTalk
<b>snap</b>	SNAP-based VLAN status
<b>&lt;0x0-0xfffff&gt;</b>	SNAP OUI (Range 0x000000 - 0FFFFFFF)
<b>rfc_1042</b>	SNAP OUI is rfc_1042
<b>snap_8021h</b>	SNAP OUI is 8021h
<b>&lt;0x0-0xffff&gt;</b>	PID (Range: 0x0 - 0xFFFF)
<b>llc</b>	LLC-based VLAN status

<b>&lt;0x0-0xff&gt;</b>	DSAP (Range: 0x00 - 0xFF)
<b>&lt;0x0-0xff&gt;</b>	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).
<b>&lt;port_type &gt;</b>	GigabitEthernet or 10Gigabitethernet
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet

### EXAMPLE

```

AW-GTS-287A# show vlan
VLAN  Name                               Interfaces
----  -
1     default                               Gi 1/1-26

AW-GTS-287A#

```

### voice



Voice appliance attributes.

## SYNTAX

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

### Parameter

<b>vlan</b>	Vlan for voice traffic
<b>oui</b>	OUI configuration
<b>&lt;oui&gt;</b>	OUI value
<b>interface</b>	Select an interface to configure
<b>&lt;port_type&gt;</b>	* or Gigabitethernet
<b>*</b>	All Switches or All ports
<b>Gigabitethernet</b>	1 Gigabit Ethernet Port
<b>10Gigabitethernet</b>	10 Gigabit Ethernet Port
<b>&lt;port_type_list&gt;</b>	Port list in 1/1-24, 1/1-4 for 10Gigabitethernet
<b> </b>	Output modifiers
<b>begin</b>	Begin with the line that matches
<b>exclude</b>	Exclude lines that match
<b>include</b>	Include lines that match
<b>&lt;LINE&gt;</b>	String to match output lines

### EXAMPLE

```
AW-GTS-287A# 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 [ <word> ] level [ | {begin | exclude | include } <LINE>
```

### Parameter

<b>privilege</b>	Web privilege
<b>group</b>	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' '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**

```
AW-GTS-287A# 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
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
Trouble Shooting	5	10	5	10

# 18

## 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

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

### EXAMPLE

```
AW-GTS-287A# 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?'.)

```
AW-GTS-287A#
```

# 19

## IP of CLI

IPv4 commands

### Syntax

```
ip dhcp retry interface vlan <vlan_id>
```

### Parameter

<b>dhcp</b>	Dhcp commands
<b>retry</b>	Restart the DHCP query process
<b>interface</b>	Interface
<b>vlan</b>	Vlan interface
<b>&lt;vlan_id&gt;</b>	Vlan ID

### EXAMPLE

```
AW-GTS-287A# ip dhcp retry interface vlan 1
% Failed to restart DHCP client on VLAN = 1.
```

## 20 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.

### 23.1 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.

### 23.2 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	MODE




### Command Summary

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	15	INTERFACE_PORT_LIST

	access-list action. The access-list interface configuration will affect the received frames if it doesn't match any ACE.		
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 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.	15	INTERFACE_PORT_LIST
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	15	INTERFACE_PORT_LIST

	frames if it doesn't match any ACE.		
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	Use the access-list rate-limiter global	15	INTERFACE_PORT_LIST

<p>&lt;1,2,4,8,16,32,64,128,256,512&gt;   100pps          &lt;1-32767&gt;   kpps          &lt;1,2,4,8,16,32,64,128,256,512,1024&gt;   100kbps          &lt;0-10000&gt; }</p>	<p>configuration command to configure the access-list rate-limiter.</p>		
<p>default access-list rate-limiter [ &lt;1-16&gt; ]</p>	<p>Use the default access-list rate-limiter global configuration command to restore the default setting of access-list rate-limiter.</p>	<p>15</p>	<p>GLOBAL_CONFIG</p>
<p>access-list ace [update] &lt;1-256&gt; [next {&lt;1-256&gt; last}] [ingress {switch &lt;switch_id&gt; switchport {&lt;1-53&gt; &lt;1~53&gt;}} interface {&lt;port_type_id&gt; &lt;port_type_list&gt;} any}] [policy &lt;0-255&gt; [policy-bitmask &lt;0x0-0xFF&gt;]] [tag {tagged untagged any}] [vid {&lt;1-4095&gt; any}] [tag-priority {&lt;0-7&gt; 0-1 2-3 4-5 6-7 0-3 4-7 any}] [dmac-type {unicast multicast broadcast any}] [frametype { any  etype [etype-value {&lt;0x600-0x7ff,0x801-0x805,0x807-0x86dc,0x86de-0xffff&gt; any}] [smac {&lt;mac_addr&gt; any}] [dmac {&lt;mac_addr&gt; any}] [arp [sip {&lt;ipv4_subnet&gt; any}] [dip {&lt;ipv4_subnet&gt; any}] [smac {&lt;mac_addr&gt; any}] [arp-opcode {arp rarp other any}] [arp-flag [arp-request {&lt;0-1&gt; any}] [arp-smac {&lt;0-1&gt; any}] [arp-tmac {&lt;0-1&gt; any}] [arp-len {&lt;0-1&gt; any}] [arp-ip {&lt;0-1&gt; any}] [arp-ether {&lt;0-1&gt; any}]]] ipv4 [sip {&lt;ipv4_subnet&gt; any}] [dip {&lt;ipv4_subnet&gt; any}] [ip-protocol {&lt;0,2-5,7-16,18-255&gt; any}] [ip-flag [ip-ttl {&lt;0-1&gt; any}] [ip-options {&lt;0-1&gt; any}] [ip-fragment {&lt;0-1&gt; any}]]] ipv4-icmp [sip {&lt;ipv4_subnet&gt; any}] [dip {&lt;ipv4_subnet&gt; any}] [icmp-type {&lt;0-255&gt; any}] [icmp-code {&lt;0-255&gt; any}] [ip-flag [ip-ttl {&lt;0-1&gt; any}] [ip-options {&lt;0-1&gt; any}] [ip-fragment {&lt;0-1&gt; any}]]] ipv4-udp [sip {&lt;ipv4_subnet&gt; any}] [dip {&lt;ipv4_subnet&gt; any}] [sport {&lt;0-65535&gt; [to &lt;0-65535&gt;] any}] [dport {&lt;0-65535&gt; [to &lt;0-65535&gt;] any}] [ip-flag [ip-ttl {&lt;0-1&gt; any}]</p>	<p>Use the access-list ace global configuration command to set the access-list ace. The command without the update keyword 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.</p>	<p>15</p>	<p>GLOBAL_CONFIG</p>

<pre>[ip-options {&lt;0-1&gt; any}] [ip-fragment {&lt;0-1&gt; any}]]] ipv4-tcp [sip {&lt;ipv4_subnet&gt; any}] [dip {&lt;ipv4_subnet&gt; any}] [sport {&lt;0-65535&gt; [to &lt;0-65535&gt;] any}] [dport {&lt;0-65535&gt; [to &lt;0-65535&gt;] any}] [ip-flag [ip-ttl {&lt;0-1&gt; any}] [ip-options {&lt;0-1&gt; any}] [ip-fragment {&lt;0-1&gt; any}] [tcp-flag [tcp-fin {&lt;0-1&gt; any}] [tcp-syn {&lt;0-1&gt; any}] [tcp-rst {&lt;0-1&gt; any}] [tcp-psh {&lt;0-1&gt; any}] [tcp-ack {&lt;0-1&gt; any}] [tcp-urg {&lt;0-1&gt; any}]]] ipv6 [next-header {&lt;0-5,7-16,18-57,59-255&gt; any}] [sip {&lt;ipv6_addr&gt; [sip-bitmask &lt;uint&gt;] any}] [hop-limit {&lt;0-1&gt; any}] ipv6-icmp [sip {&lt;ipv6_addr&gt; [sip-bitmask &lt;uint&gt;] any}] [icmp-type {&lt;0-255&gt; any}] [icmp-code {&lt;0-255&gt; any}] [hop-limit {&lt;0-1&gt; any}] ipv6-udp [sip {&lt;ipv6_addr&gt; [sip-bitmask &lt;uint&gt;] any}] [sport {&lt;0-65535&gt; [to &lt;0-65535&gt;] any}] [dport {&lt;0-65535&gt; [to &lt;0-65535&gt;] any}] [hop-limit {&lt;0-1&gt; any}] ipv6-tcp [sip {&lt;ipv6_addr&gt; [sip-bitmask &lt;uint&gt;] any}] [sport {&lt;0-65535&gt; [to &lt;0-65535&gt;] any}] [dport {&lt;0-65535&gt; [to &lt;0-65535&gt;] any}] [hop-limit {&lt;0-1&gt; any}] [tcp-flag [tcp-fin {&lt;0-1&gt; any}] [tcp-syn {&lt;0-1&gt; any}] [tcp-rst {&lt;0-1&gt; any}] [tcp-psh {&lt;0-1&gt; any}] [tcp-ack {&lt;0-1&gt; any}] [tcp-urg {&lt;0-1&gt; any}]]] ] [action {permit deny filter {switchport &lt;1~53&gt; interface &lt;port_type_list&gt;}}] [rate-limiter {&lt;1-16&gt; disable}] [evc-policer {&lt;1-256&gt; disable}] [{redirect port-copy} {switchport {&lt;1-53&gt; &lt;1~53&gt;} interface {&lt;port_type_id&gt; &lt;port_type_list&gt;} disable}] [mirror [disable]] [logging [disable]] [shutdown [disable]] [lookup [disable]]</pre>			
<pre>no access-list ace &lt;1~256&gt;</pre>	<p>Use the no access-list ace global configuration command to delete the access-list ace.</p>	<p>15</p>	<p>GLOBAL_CONFIG</p>
<pre>show access-list [ interface [ &lt;port_type_list&gt; ] ] [ rate-limiter [ &lt;1~16&gt; ] ] [ ace statistics [ &lt;1~256&gt; ] ]</pre>	<p>Use the show access-list privilege EXEC command without keywords to display the access-list configuration, or</p>	<p>15</p>	<p>EXEC</p>

	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.		
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	15	GLOBAL_CONFIG

	to configure the global RADIUS timeout value.		
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	15	GLOBAL_CONFIG



	command to reset the global TACACS+ timeout value to default.		
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 relay.	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	15	GLOBAL_CONFIG

	DHCP relay server. Use the no form of this command to disable the DHCP relay server.		
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	15	GLOBAL_CONFIG

	global configuration command to restore 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> [<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	0	EXEC

	configuration, or particularly the ip dhcp snooping statistics for the interface, or use the statistics keyword to display statistics.		
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 the lowest speed to default.	15	GLOBAL_CONFIG
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 urgent queues.	15	INTERFACE_PORT_LIST
green-ethernet eee optimize-for-power	Sets if EEE should be optimized for least traffic latency or least power consumption	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 HTTP web connection to the secure HTTP web connection. Use the no form of this command to disable the secure HTTP web redirection.	15	GLOBAL_CONFIG
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 <word> [ 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	15	GLOBAL_CONFIG

	between each LLDP frame transmitted in seconds).		
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 transmission-delay. LLDP transmission delay (the amount of time that the transmission of LLDP frames will be delayed after LLDP configuration has changed) in seconds.)	15	GLOBAL_CONFIG
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 configure value for the Emergency Call Service	15	GLOBAL_CONFIG
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	15	GLOBAL_CONFIG

	the fast start mechanism defined by LLDP-MED (1-10).		
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 } [[2-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   { { learning   count } [ interface <port_type_list> ] }   { address <mac_addr> [ vlan <vlan_id> ] }   vlan <vlan_id>   interface <port_type_list> ]		0	EXEC
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> }	Sets monitor source port(s).	15	GLOBAL_CONFIG

{ cpu [<range_list> ] }			
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
debug phy-10g loopback [ { a   b   c   d   e   f   g   h   j   k   h2   h3   h4   h5   h6   l0   l1   l2   l3 } { enable   disable } ]	Show or set 10g phy loopback mode	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	15	GLOBAL_CONFIG

	before considering entering the Guest VLAN		
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
platform phy instance { 1g   10g }		15	GLOBAL_CONFIG
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 interface <port_type_list> statistics [ { packets   bytes   errors   discards   filtered   { priority [ <0~7> } } ] [ { up   down } ]	Shows the statistics for the interface.	0	EXEC
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'-V TSS_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 { 10g   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 [ <word> ] level		0	EXEC
web privilege group <word> level { [ cro <0-15> ] [ crw <0-15> ] [ sro <0-15> ] [ srw <0-15> ] }*1		15	GLOBAL_CONFIG
no web privilege group [ <word> ] 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	The action involved with exceeding the	15	INTERFACE_PORT_LIST

trap-shutdown   shutdown }	limit.		
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	debug		INTERFACE_PORT_LIST

<4096-258048> ] } { [ eir <100-3300000> [ ebs <4096-258048> ] ] }			
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	The agent IP address used as	15	GLOBAL_CONFIG

<ipv6_addr>	agent-address 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 in 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>	Specifies the maximum number of bytes	15	INTERFACE_PORT_LIST

[<14-200>]	to transmit per flow sample.		
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 engine-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>		15	GLOBAL_CONFIG

[ <ipv4_addr> <ipv4_netmask> ]			
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 <word10-32>		15	GLOBAL_CONFIG
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	15	EXEC

	in the switch, that are different \ definitions from the standard MIBs.		
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	15	GLOBAL_CONFIG

	command to \ enable the SSH. Use the no form of this \ command to disable the SSH.		
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 level.	15	EXEC
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 configurations.	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 {<0x0-0xffff> 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 associate a MAC address to VLAN ID.	13	INTERFACE_PORT_LIST
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 {<0x0-0xffff> 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-native]}	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
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 show 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	Use the show voice vlan privilege EXEC	15	EXEC

<port_type_list> ]	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.		
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