

ISW-24W-4X

ISW-28 802.3bt 24GbP 4 SFP+ 1RU (28-port Switch)

CLI Command Reference

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1. Scope

1.1 Scope

1.2 Audience

1.3 Pre-required Knowledge

1.4 Access to Hardware Interface

1.5 Related Documents

1 Scope

1.1 Scope

This user guide describes the commands and parameters of the Command Line Interface (CLI) as implemented in the current version of software. These commands are used to set-up, administer and maintain the system.

1.2 Audience

The guide is intended for Operating personnel (sometimes called craft persons).

1.3 Pre-required Knowledge

The reader must be familiar with the:

- Basic operations of switch (see the Quick Installation Guide).
- Security and activity monitoring constraints that limit how a command is implemented.

1.4 Access to Hardware Interface

Access to the hardware interface is by a terminal (or computer with terminal emulation software). Requirements for the terminal are:

- RS-232 ASCII port
- Selectable transmission baud rate
- Full alphanumeric capability
- Selectable odd/even or no parity check

1.5 Related Documents

You may want to refer to the following related documents:

- Quick Installation Guide
- Web Guide

2. Operator Interface

2.1 Introduction

2.2 Connect Interface

2.3 Authorization Level

2.4 Screen Description

2.5 Execution Modes

2.6 Getting Help

2.7 Terminal Key Function

2.8 Notation Conventions

2 Operator Interface

2.1 Introduction

Access to the Operations System (OS) /Network Element (NE) system is protected by a logon security system. You can log on to the NE with the user name and password. After three failed logon attempts, the system refuses further attempts.

After you log on, the system monitors the interface for periods of inactivity. If the interface is inactive for too long, you are automatically logged off.

All the NEs have the same initial user name (admin) and password (none). You should change the password as soon as possible, because the initial password is known to anyone who reads this manual. You can also change the user name or add additional user names. Use the “account add” command to enter a new user identification, password and authorization level. The system can handle one local logon session and at least four remote/OS sessions.

2.2 Connect Interface

Interface	Parameter
Console	Baud rate: 115200bps, Data bit: 8, Parity: None, Stop bit: 1
Telnet	Port 23
SSH	Port 22 (In Windows, you can run terminal emulator such as PuTTY)

2.3 Authorization Level

Level	Description
Superuser	Superuser can access all management features.
Engineer	Engineer can access all management features except user account management.
Guest (default)	Read-only mode (Guest can only change his own password). Users of this level can query pages like PM and FM.

2.4 Login Example

```
localhost login: admin
Password:
localhost:>enable
localhost:%show version

MAC Address : 00:a0:00:03:02:01
Serial Number :
Previous Restart: Power on

System Contact : Contact
System Name : localhost
System Location : Location
System Time : 01/03/2000 08:54:27
System Uptimes : 03:40:57
```

Figure 2-1 login example

2.5 Execution Modes

The CLI contains several execution modes. Users will see different set of commands under different execution modes. Table 2-1 lists all the execution modes and their purposes. When users enter a certain execution mode, the corresponding mode prompt will be displayed automatically on the screen. The mode prompts of all the execution modes are also listed in Table 2-1.

Table 2-1 List of Execution Modes

Mode	Access Level	Prompt
Init Mode	Guest	>
Enable Mode	Guest	%
Config Mode	Guest	(conf)#
Alarm Profile Config Mode	Engineer	(alarm-profile-conf)#
Gigabit Interface Config Mode	Engineer	(gigabit-intf-conf)#
ACL Profile Config Mode	Engineer	(acl-profile-conf)#
scheduler Profile Config Mode	Engineer	(sch-profile-conf)#
Vlan Interface Config Mode	Engineer	(vlan-intf-conf)#
IGMP MVR Profile Config Mode	Engineer	(igmp-mvr-profile-conf)#
IGMP ACL Profile Config Mode	Engineer	(igmp-acl-profile-conf)#
Ring Group Config Mode	Engineer	(ring-group-conf)#
LAG Config Mode	Engineer	(lag-conf)#
ERPS Group Command	Engineer	(erps-group-conf:No)#
DHCP Pool Command	Engineer	(dhcp-conf:No)#
DHCP Class Command	Engineer	(dhcp-class-conf:No)#

2.6 Getting help

The user can get help by entering a question mark ‘?’ at each position in the command. The displayed result depends on the execution mode and previous input.

2.7 Terminal Key Function

Following is the list of all the terminal keys and their function.

Table 2-2 List of Terminal Keys

ENTER	Run a CLI config script
CTRL-M	
TAB	Tab completion. If tab is pressed after a non-whitespace character, complete the word before the Tab. If tab is pressed after a whitespace character, complete the next word.
CTRL-I	
?	Display available commands If ? is pressed after a non-whitespace character, show possible choices for this word. If ? is pressed after a whitespace character, show possible choices for the next word.
<Up Arrow>	Up history
CTRL-P	
<Down Arrow>	Down history
CTRL-N	
Home	Move the cursor to the beginning of the input line
CTRL-A	
End	Move the cursor to the end of the input line
CTRL-E	
<Left Arrow>	Move the cursor backward
CTRL-B	
<Right Arrow>	Move the cursor forward
CTRL-F	
BACKSPACE	Erase the character before the cursor
CTRL-H	

2.8 Notation Conventions

The notation conventions for the parameter syntax of each CLI command are as follows:

- Parameters enclosed in [] are optional.
- Parameter values are separated by a vertical bar “|” only when one of the specified values can be used.
- Parameter values are enclosed in { } when you must use one of the values specified.

3. Commands Descriptions

3.1 Initialize Mode Command

3.2 Enable Mode Command

3.3 Configure Mode Command

3.4 Interface Port Mode Command

3.5 Interface LAG Command

3.6 ACL-Profile Configure Mode Command

3.7 SCH-Profile Configure Mode Command

3.8 Interface VLAN Mode Command

3.9 Ring Group Mode command

3.10 IGMP MVR Mode Command

3.11 IGMP ACL Mode Command

3.12 Profile Alarm Command

3.13 Profile Event Command

3.14 ERPS Group Command

3.15 DHCP Pool Command

3.16 DHCP Class Command

3 Command Description

3.1 Initialize Mode Commands

The commands in this section (except 'enable' command) can be executed under all command modes. These commands are global commands.

3.1.1 bye

Description	Quit CLI.
Syntax	bye
Parameter	None

3.1.2 !

Description	Execute the specific number of command in history	
Syntax	! <number>	
Parameter		
	Name	Description
	<number>	Valid values: 1 ~ 32 Type: Mandatory

3.1.3 exit

Description	Exit current mode.
Syntax	exit
Parameter	None

3.1.4 configure

Description	Enter configuration mode.
Syntax	configure
Parameter	None

3.1.5 list alarm table detail

Description	List valid alarm ID	
Syntax	list alarm table list alarm table detail	
Parameter	None	
	Name	Description
	detail	List detail information for all alarms

3.1.6 list command-tree

Description	List tree of all available CLI commands
Syntax	list command-tree
Parameter	None

3.1.7 list event table

Description	List valid event ID
Syntax	list event table
Parameter	None

3.1.8 list execution-modes

Description	List all available execution modes
Syntax	list execution-modes
Parameter	None

3.1.9 list timezone

Description	List time zones
Syntax	list timezone
Parameter	None

3.1.10 show env

Description	Show CLI environment variables
Syntax	show env
Parameter	None

3.1.11 show history

Description	Show command history (Note: commands issued in one execution mode only appear in history of that execution mode)
Syntax	show history
Parameter	None

3.1.12 show time

Description	Show current time
Syntax	show time
Parameter	None

3.1.13 show uptime

Description	Show uptime
Syntax	show uptime
Parameter	None

3.1.14 show version

Description	Show version information
Syntax	show version
Parameter	None

3.1.15 sleep

Description	Sleep for the specified number of milli-seconds	
Syntax	sleep <time>	
Parameter		
	Name	Description
	<time>	Valid values: 1 ~ 0xFFFFFFFF ms Type: Mandatory

3.1.16 enable

Description	Enter enable mode.
Syntax	enable
Parameter	None

3.2 Enable Mode Commands

All the “show - -” commands in this section can also be executed under any other command mode except Initialize Mode.

3.2.1 bye

Description	Quit CLI.
Syntax	bye
Parameter	None

3.2.2 disable

Description	Enter init mode.
Syntax	disable
Parameter	None

3.2.3 !

Description	Execute the specific number of command in history	
Syntax	! <number>	
Parameter		
	Name	Description
	<number>	Valid values: 1 ~ 32 Type: Mandatory

3.2.4 exit

Description	Exit current mode.
Syntax	exit
Parameter	None

3.2.5 configure

Description	Enter configuration mode.
Syntax	configure
Parameter	None

3.2.6 kick

Description	Kick off a logged-in user (only superuser can execute this command)	
Syntax	kick <index> {console cli web}	
Parameter		
	Name	Description
	<index>	Valid values: 1 ~ 10 Type: Mandatory

3.2.7 list alarm table

Description	List valid alarm ID	
Syntax	list alarm table list alarm table detail	
Parameter		
	Name	Description
	detail	List detail information for all alarms

3.2.8 list command-tree

Description	List tree of all available CLI commands
Syntax	list command-tree

Parameter	None
------------------	------

3.2.9 list event

Description	List valid event ID
Syntax	list event table
Parameter	None

3.2.10 list execution-modes

Description	List all available execution modes
Syntax	list execution-modes
Parameter	None

3.2.11 list timezone

Description	List timezones
Syntax	list timezone
Parameter	None

3.2.12 ping

Description	send ICMP ECHO_REQUEST to network hosts	
Syntax	ping <ip> ping <ip> count <count> ping <ip> count <count> size <size> ping <ip> size <size>	
Parameter		
	Name	Description
	<ip>	Valid values: - Type: Mandatory
	<count>	Packet count Valid values: 1 ~ 4294967295 Default value: 0 Type: Mandatory
	<size>	The number of data bytes to be sent Valid values: 1 ~ 65500 Default value: 0 Type: Mandatory

3.2.13 show account

Description	Show account list.
Syntax	show account
Parameter	None

3.2.14 show aging

Description	Show aging time for MAC learning table (system-wide).
Syntax	show aging
Parameter	None

3.2.15 show alarm current

Description	Show current alarm list
Syntax	show alarm current
Parameter	None

3.2.16 show alarm history

Description	Show alarm history
--------------------	--------------------

Syntax	show alarm history
Parameter	None

3.2.17 show bootloader

Description	Show boot loader information.
Syntax	show bootloader
Parameter	None

3.2.18 show cfm

Description	Show CFM information	
Syntax	show cfm cc show cfm domain show cfm errors show cfm global show cfm mep show cfm service show cfm status	
Parameter		
	Name	Description
	cc	Show cfm cc related data.
	domain	Show cfm domain related data.
	errors	Show cfm errors related data.
	global	Show cfm global related data.
	mep	Show cfm mep related data.
	service	Show cfm service related data.
	status	Show cfm status related data.

3.2.19 show clisettings

Description	Show CLI settings.
Syntax	show clisettings
Parameter	None

3.2.20 show cos-queue-mapping

Description	Show CoS queue mapping table.
Syntax	show cos-queue-mapping
Parameter	None

3.2.21 show cpu

Description	Show CPU information
Syntax	show cpu
Parameter	None

3.2.22 show dot1x

Description	Show dot1x information.
Syntax	show dot1x
Parameter	None

3.2.23 show dot1x pae-info-status

Description	Show dot1x PAE status.
Syntax	show dot1x pae-info-status all show dot1x pae-info-status interface 10GigabitEthernet <portNo> show dot1x pae-info-status interface gigabitEthernet <portNo>
Parameter	

	Name	Description
	<portNo>	Gigabit port. Valid values: 1 ~ max number of the ports Type: Mandatory

3.2.24 show dot1x eapol-stats

Description	Show dot1x EAPOL stats.	
Syntax	show dot1x eapol-stats all show dot1x eapol-stats interface 10GigabitEthernet <portNo> show dot1x eapol-stats interface gigabitEthernet <portNo>	
Parameter		
	Name	Description
	<portNo>	Gigabit port. Valid values: 1 ~ max number of the ports Type: Mandatory

3.2.25 show dot1x radius-stats

Description	Show dot1x RADIUS stats.
Syntax	show dot1x radius-stats
Parameter	None

3.2.26 show eee-info

Description	Show all ports EEE information
Syntax	show eee-info
Parameter	None

3.2.27 show env

Description	Show CLI environment variables
Syntax	show env
Parameter	None

3.2.28 show erps

Description	Show ERPS information	
Syntax	show erps group show erps group <id> show erps group <id> configuration show erps group <id> status show erps group <id> timers	
Parameter		
	Name	Description
	group	Show ERPS group related data
	<id>	Group ID (1 ~ 4294967295)
	configuration	Show erps group configuration related data
	status	Show erps group status related data
	timers	Show erps group timers related data

3.2.29 show event

Description	Show event list
Syntax	show event show event-monitor cpu show event-monitor memory show event-monitor poe-power show event-monitor temperature

	show event-monitor traffic-loading	
Parameter		
	Name	Description
	cpu	Show cpu loading monitor information
	memory	Show memory loading monitor information
	poe-power	Show poe loading monitor information
	temperature	Show system temperature information
	traffic-loading	Show all ports tx/rx traffic loading

3.2.30 show ext-tpid

Description	Show TPID for the VLAN Tag
Syntax	show ext-tpid
Parameter	None

3.2.31 show fa agent

Description	Display FA agent information
Syntax	show fa agent
Parameter	None

3.2.32 show fa assignment

Description	Display FA I-SID/VLAN mapping	
Syntax	show fa assignment show fa assignment <isid>	
Parameter		
	Name	Description
	<isid>	ISID (1 ~ 16777214)

3.2.33 show fa elements

Description	Display FA Elements	
Syntax	show fa elements show fa elements auth-status auth-fail show fa elements auth-status auth-pass show fa elements auth-status not-auth show fa elements client-type <type> show fa elements element-type client show fa elements element-type proxy show fa elements element-type server show fa elements interface <interfaceType> <interface>	
Parameter		
	Name	Description
	auth-fail	Display FA Elements with authentication failure
	auth-pass	Display FA Elements with authentication pass
	not-auth	Display FA Elements without authentication
	<type>	Client Type (6 ~ 17)
	client	Display FA Client Elements
	proxy	Display FA Proxy Elements
	server	Display FA Server Elements
	<interfaceType>	Select port type
	<interface>	1 ~ max number of the ports

3.2.34 show fa i-sid

Description	Display FA I-SID information
Syntax	show fa i-sid
Parameter	None

3.2.35 show fa interface

Description	Display FA Interface Config	
Syntax	show fa interface show fa interface <interfaceType> <interface> show fa interface disabled-auth show fa interface disabled-port show fa interface enabled-auth show fa interface enabled-port	
Parameter		
	Name	Description
	<interfaceType>	Select port type
	<interface>	1 ~ max number of the ports
	disabled-auth	Display FA Interface Config with Authentication Disabled
	disabled-port	Display FA Interface Config with Advertisement Disabled
	enabled-auth	Display FA Interface Config with Authentication Enabled
	enabled-port	Display FA Interface Config with Advertisement Enabled

3.2.36 show fa statistics

Description	Display FA Statistics	
Syntax	show fa statistics show fa statistics interface <interfaceType> <interface>	
Parameter		
	Name	Description
	<interfaceType>	Select port type
	<interface>	1 ~ max number of the ports

3.2.37 show fa vlan

Description	Display FA VLAN information
Syntax	show fa vlan
Parameter	None

3.2.38 show fdb

Description	Show MAC learning table.
Syntax	show fdb
Parameter	None

3.2.39 show fdb interface

Description	Show MAC learning table per port. Show forwarding table per link aggregation group.	
Syntax	show fdb interface 10GigabitEthernet <portNo> show fdb interface gigabit <portNo> show fdb interface lag <number>	
Parameter		
	Name	Description
	<portNo>	Valid values: 1 ~ max number of the ports Type: Mandatory

	<number>	Link aggregation group (1 ~ 4)
--	----------	--------------------------------

3.2.40 show fdb vlan <vlanid>

Description	Show MAC learning table per VLAN index.	
Syntax	Show fdb vlan <vlanid>	
Parameter		
	Name	Description
	<vlanid>	Valid values: 1~4094 Type: Mandatory

3.2.41 show fdbstatic

Description	Show static MAC forwarding table.
Syntax	Show fdbstatic
Parameter	None

3.2.42 show fdbstatic interface

Description	Show static MAC forwarding table per port.	
Syntax	show fdbstatic interface 10GigabitEthernet <portNo> show fdbstatic interface gigabit <portNo>	
Parameter		
	Name	Description
	<portNo>	Valid values: 1 ~ max number of the ports Type: Mandatory

3.2.43 show fdbstatic vlan <vlanid>

Description	Show static MAC forwarding table per VLAN index.	
Syntax	show fdbstatic vlan <vlanid>	
Parameter		
	Name	Description
	<vlanid>	Valid values: 1~4094 Type: Mandatory

3.2.44 show firmware status

Description	Show firmware update status.
Syntax	show firmware status
Parameter	None

3.2.45 show firmware partition

Description	Show firmware partition information.
Syntax	show firmware partition
Parameter	None

3.2.46 show history

Description	Show command history
Syntax	show history
Parameter	None

3.2.47 show http

Description	Show HTTP configuration.
Syntax	show http
Parameter	None

3.2.48 show i-sid

Description	Display FA I-SID/VLAN mapping
Syntax	show i-sid
Parameter	None

3.2.49 show igmp snooping

Description	Show IGMP snooping information.	
Syntax	show igmp snooping show igmp snooping vlan <vlanid>	
Parameter		
	Name	Description
	<vlanid>	VLAN index (1 ~ 4094)

3.2.50 show igmp-acl-profile {<number>|all}

Description	Show IGMP ACL profile	
Syntax	Show igmp-acl-profile {<number> all}	
Parameter		
	Name	Description
	<number>	IGMP ACL profile number. Valid values: 1 ~ 15 Type: Mandatory

3.2.51 show igmp-mvr-profile {<number>|all}

Description	Show IGMP MVR profile	
Syntax	Show igmp-mvr-profile {<number> all}	
Parameter		
	Name	Description
	<number>	IGMP MVR profile number. Valid values: 1 ~ 15 Type: Mandatory

3.2.52 show interface 10GigabitEthernet

Description	Show 10G gigabit interface information	
Syntax	show interface 10GigabitEthernet <portNo> acl show interface 10GigabitEthernet <portNo> bridge show interface 10GigabitEthernet <portNo> counter show interface 10GigabitEthernet <portNo> counter detail show interface 10GigabitEthernet <portNo> igmp show interface 10GigabitEthernet <portNo> msti show interface 10GigabitEthernet <portNo> port-isolation show interface 10GigabitEthernet <portNo> qos show interface 10GigabitEthernet <portNo> status show interface 10GigabitEthernet <portNo> storm-control show interface 10GigabitEthernet <portNo> stp show interface 10GigabitEthernet <portNo> transceiver show interface 10GigabitEthernet <portNo> vlan show interface 10GigabitEthernet all bridge show interface 10GigabitEthernet all counter show interface 10GigabitEthernet all status	
Parameter		
	Name	Description

	acl	Show ACL Information on the 10GigabitEthernet port.
	bridge	Show bridge information.
	counter	Show traffic overview.
	detail	Show detail traffic statistics.
	igmp	Show IGMP information on the 10GigabitEthernet interface.
	msti	Show MSTI info for specific 10GigabitEthernet interface.
	port-isolation	Show isolation information per 10GigabitEthernet port.
	qos	Show the QoS information on the 10GigabitEthernet interface.
	status	Show port status.
	storm-control	Show storm control information on the 10GigabitEthernet interface.
	stp	Show STP port information.
	transceiver	Show SFP transceiver information.
	vlan	Show VLAN information.
	all bridge	Show all 10-gigabitEthernet port bridge information.
	all counter	Show all 10-gigabitEthernet port traffic overview information.
	all status	Show all 10-gigabitEthernet port status information.

3.2.53 show interface all

Description	Show all ports information.	
Syntax	show interface all bridge show interface all port-counter show interface all status	
Parameter		
	Name	Description
	bridge	Show all ports bridge information.
	port-counter	Show all ports traffic overview information.
	status	Show all ports status information.

3.2.54 show interface gigabitEthernet <portNo> acl

Description	Show ACL profile per gigabitEthernet port.	
Syntax	show interface gigabitEthernet <portNo> acl	
Parameter		
	Name	Description
	<portNo>	Valid values: 1 ~ max number of the ports Type: Mandatory

3.2.55 show interface gigabitEthernet <portNo> bridge

Description	Show Ethernet bridge per gigabitEthernet port.	
Syntax	show interface gigabitEthernet <portNo> bridge	
Parameter		
	Name	Description
	<portNo>	Valid values: 1 ~ max number of the ports Type: Mandatory
	counter	Show Gigabit Ethernet counter.

3.2.56 show interface gigabitEthernet <portNo> counter

Description	Show Ethernet counter per gigabitEthernet port.	
Syntax	show interface gigabitEthernet <portNo> counter	

	show interface gigabitEthernet <portNo> counter detail	
Parameter		
	Name	Description
	<portNo>	Valid values: 1 ~ max number of the ports Type: Mandatory
	counter	Show Gigabit Ethernet counter.
	detail	Show detail traffic statistics.

3.2.57 show interface gigabitEthernet <portNo> igmp

Description	Show IGMP information per port.	
Syntax	show interface gigabitEthernet <portNo> igmp	
Parameter		
	Name	Description
	<portNo>	Gigabit port. Valid values: 1 ~ max number of the ports Type: Mandatory

3.2.58 show interface gigabitEthernet <portNo> msti

Description	Show MSTI info for specific gigabit.	
Syntax	show interface gigabitEthernet <portNo> msti	
Parameter	None	

3.2.59 show interface gigabitEthernet <portNo> port-isolation

Description	Show isolation information per gigabit port.	
Syntax	show interface gigabitEthernet <portNo> port-isolation	
Parameter		
	Name	Description
	<portNo>	Valid values: 1 ~ max number of the ports Type: Mandatory

3.2.60 show interface gigabitEthernet <portNo> qos

Description	Show QoS per gigabit port.	
Syntax	show interface gigabitEthernet <portNo> qos	
Parameter		
	Name	Description
	<portNo>	Valid values: 1 ~ max number of the ports Type: Mandatory

3.2.61 show interface gigabitEthernet <portNo> status

Description	Show status information per gigabit port.	
Syntax	show interface gigabitEthernet <portNo> status	
Parameter		
	Name	Description
	<portNo>	Valid values: 1~max number of the ports Type: Mandatory

3.2.62 show interface gigabitEthernet <portNo> storm-control

Description	Show storm control information per gigabit port.	
Syntax	show interface gigabitEthernet <portNo> storm-control	
Parameter		
	Name	Description
	<portNo>	Valid values: 1~max number of the ports Type: Mandatory

3.2.63 show interface gigabitEthernet <portNo> stp

Description	Show STP information per gigabit port.	
Syntax	show interface gigabitEthernet <portNo> stp	
Parameter		
	Name	Description
	<portNo>	Valid values: 1 ~ max number of the ports Type: Mandatory
	stp	Show STP port information.

3.2.64 show interface gigabitEthernet <portNo> vlan

Description	Show VLAN information per gigabit port.	
Syntax	show interface gigabitEthernet <portNo> vlan	
Parameter		
	Name	Description
	<portNo>	Valid values: 1 ~ max number of the ports Type: Mandatory
	vlan	Show VLAN information.

3.2.65 show interface gigabitEthernet <portNo> all

Description	Show all gigabit ports information	
Syntax	show interface gigabitEthernet all bridge show interface gigabitEthernet all counter show interface gigabitEthernet all status	
Parameter		
	Name	Description
	bridge	Show all gigabit port bridge information.
	counter	Show all gigabit port traffic overview information.
	status	Show all gigabit port status information.

3.2.66 show interface lag

Description	Show information of the link aggregation group.
Syntax	show interface lag
Parameter	None

3.2.67 show interface mgmt-port

Description	Show IP information of the mgmt-port(s)
Syntax	show interface mgmt-port
Parameter	None

3.2.68 show interface vlan <vlanid>

Description	Show interface VLAN information.	
Syntax	show interface vlan show interface vlan <vlanid>	
Parameter		
	Name	Description
	<vlanid>	Valid values: 1~4094. Type: Optional

3.2.69 show ip arp

Description	Show Address Resolution Protocol information.
Syntax	show ip arp inspection show ip arp inspection entry

	show ip arp inspection entry dhcp-snooping show ip arp inspection entry dhcp-snooping interface 10GigabitEthernet <portNo> show ip arp inspection entry dhcp-snooping interface gigabitEthernet <portNo> show ip arp inspection entry dhcp-snooping vlan <vlanid> show ip arp inspection entry interface 10GigabitEthernet <portNo> show ip arp inspection entry interface gigabitEthernet <portNo> show ip arp inspection entry static show ip arp inspection entry static interface 10GigabitEthernet <portNo> show ip arp inspection entry static interface gigabitEthernet <portNo> show ip arp inspection entry static vlan <vlanid> show ip arp inspection entry vlan <vlanid>	
Parameter		
	Name	Description
	entry	Show ARP inspection entries
	dhcp-snooping	Show dynamic ARP inspection entries learned by dhcp-snooping
	<portNo>	1 ~ max number of the ports
	<vlanid>	VLAN ID(1 ~ 4094)
	static	Show static ARP inspection entries

3.2.70 show ip dhcp binding

Description	Show DHCP binding information.	
Syntax	show ip dhcp binding show ip dhcp binding detail show ip dhcp binding detail match class <string> show ip dhcp binding detail match class <string> postfix show ip dhcp binding detail match class <string> prefix show ip dhcp binding detail match hostname <string> show ip dhcp binding detail match hostname <string> postfix show ip dhcp binding detail match hostname <string> prefix show ip dhcp binding detail match ip-address <x.x.x.x>	
Parameter		
	Name	Description
	detail	Display detail information of the DHCP clients binding.
	class	Specific the class information to serach
	hostname	Specific the hostname string to search
	<string>	Hostname string (1 ~ 64 characters). Class information string (1 ~ 32 characters).
	postfix	Check postfix of the full hostname. Check postfix of the full class information.
	prefix	Check prefix of the full hostname. Check prefix of the full class information.
	<x.x.x.x>	IP address in dotted-decimal notation.

3.2.71 show ip dhcp class/client

Description	Show DHCP class/client information.	
Syntax	show ip dhcp class show ip dhcp client show ip dhcp client <vlanId>	
Parameter		
	Name	Description
	<vlanId>	VLAN of DHCP client

3.2.72 show ip dhcp pool

Description	Show DHCP pool information.	
Syntax	show ip dhcp pool show ip dhcp pool <pool-id>	
Parameter		
	Name	Description
	<pool-id>	Pool identifier (1 ~ 20).

3.2.73 show ip dhcp relay

Description	Display DHCP relay configuration
Syntax	show ip dhcp relay
Parameter	None

3.2.74 show ip dhcp snooping

Description	Show DHCP snooping information.	
Syntax	show ip dhcp snooping show ip dhcp snooping binding show ip dhcp snooping binding detail show ip dhcp snooping binding detail interface 10GigabitEthernet <portNo> show ip dhcp snooping binding detail interface gigabitEthernet <portNo> show ip dhcp snooping binding detail vlan <vlanid> show ip dhcp snooping binding interface 10GigabitEthernet <portNo> show ip dhcp snooping binding interface gigabitEthernet <portNo> show ip dhcp snooping binding vlan <vlanid>	
Parameter		
	Name	Description
	snooping	Display DHCP snooping configuration
	binding	Show DHCP snooping binding summary data
	detail	Detail information
	<portNo>	1 ~ max number of the ports
	<vlanid>	VLAN ID (1~4094)

3.2.75 show ip route

Description	Show IP route information.
Syntax	show ip route
Parameter	None

3.2.76 show ip source binding

Description	Show ip source binding entries
Syntax	show ip source binding show ip source binding dhcp-snooping show ip source binding dhcp-snooping interface 10GigabitEthernet <portNo> show ip source binding dhcp-snooping interface gigabitEthernet <portNo> show ip source binding dhcp-snooping vlan <vlanid> show ip source binding interface 10GigabitEthernet <portNo> show ip source binding interface gigabitEthernet <portNo> show ip source binding static show ip source binding static interface 10GigabitEthernet <portNo> show ip source binding static interface gigabitEthernet <portNo> show ip source binding static vlan <vlanid>

	show ip source binding vlan <vlanid>	
Parameter		
	Name	Description
	dhcp-snooping	Show all binding entries learned by dhcp-snooping
	<portNo>	1 ~ max number of the ports
	<vlanid>	VLAN ID (1~4094)
	static	Show all binding entries by manual setting

3.2.77 show ip verify source

Description	Show verify source information.
Syntax	show ip verify source
Parameter	None

3.2.78 show ipv6 route

Description	Show static IPv6 routes
Syntax	show ipv6 route
Parameter	None

3.2.79 show lacp

Description	Show DHCP pool information.	
Syntax	show lacp config show lacp status show lacp status <group> show lacp status <group> detail show lacp status detail	
Parameter		
	Name	Description
	config	Show LACP local configuration
	status	Show information of all LACP groups
	<group>	Show information of the specific LACP group (1-28).
	detail	Show detail information of all LACP groups. Show detail information of the specific LACP group.

3.2.80 show lldp

Description	Show LLDP information.	
Syntax	show lldp config show lldp neighbors show lldp statistics	
Parameter		
	Name	Description
	config	Show LLDP configuration
	neighbors	Show LLDP neighbors information
	statistics	Show LLDP statistics information

3.2.81 show login-users

Description	Show logged-in users.
Syntax	show login-users
Parameter	None

3.2.82 show mgmt-access-auth

Description	Display Management Access Authentication Config
Syntax	show mgmt-access-auth
Parameter	None

3.2.83 show mgmt-radius-srv

Description	Show configuration information of all management RADIUS servers
Syntax	show mgmt-radius-srv
Parameter	None

3.2.84 show mgmt-tacacs-config

Description	Display Management TACACS+ Config
Syntax	show mgmt-tacacs-config
Parameter	None

3.2.85 show mgmt-tacacs-srv

Description	Show management TACACS+ servers information	
Syntax	show mgmt-tacacs-srv show mgmt-tacacs-srv-stats <index> show mgmt-tacacs-srv-stats all	
Parameter		
	Name	Description
	mgmt-tacacs-srv	Show configuration information of all management TACACS+ servers
	mgmt-tacacs-srv-stats	Show statistics of management TACACS+ servers
	<index>	<index> Server Index (1 ~ 4)
	all	Show statistics of all management TACACS+ servers

3.2.86 show msti

Description	Show MSTI Setting/Status	
Syntax	show msti all show msti <index>	
Parameter		
	Name	Description
	all	Show MSTI Setting/Status for all.
	<index>	Show MSTI Setting/Status for instance. Valid values: 1~10.

3.2.87 show multicast-fdb

Description	Show IGMP VLAN multicast forwarding table.	
Syntax	show multicast-fdb show multicast-fdb interface 10GigabitEthernet <portNo> show multicast-fdb interface 10GigabitEthernet <portNo> static show multicast-fdb interface gigabitEthernet <portNo> show multicast-fdb interface gigabitEthernet <portNo> static show multicast-fdb srclist show multicast-fdb vlan <vlanid>	
Parameter		
	Name	Description
	<vlanid>	Valid values: 1~4094. Type: Optional
	<portNo>	Valid values: 1~ max number of the ports Type: Optional
	static	Show static multicast forwarding table for the ethernet port

	srclist	Show IGMP multicast source list table.
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3.2.88 show ntp

Description	Show NTP information
Syntax	show ntp
Parameter	None

3.2.89 show poe

Description	Show PoE information	
Syntax	show poe show poe thermal-mgmt-dt show poe thermal-mgmt-pg	
Parameter		
	Name	Description
	thermal-mg mt-dt	Show PoE device temperature information
	thermal-mg mt-pg	Show PoE power group information

3.2.90 show policer

Description	Show ingress policer table.
Syntax	show policer
Parameter	None

3.2.91 show port-isolation

Description	Show all port isolation information.
Syntax	show port-isolation
Parameter	None

3.2.92 show port-shaper

Description	Show port shaper information.
Syntax	show port-shaper
Parameter	None

3.2.93 show profile acl {<number>|all}

Description	Show ACL profile detail information.	
Syntax	show profile acl {<number> all}.	
Parameter		
	Name	Description
	<number>	Valid values: 1 ~ 10 Type: Mandatory
	all	Show all ACL profile.

3.2.94 show profile alarm

Description	Show alarm profile list
Syntax	show profile alarm.
Parameter	None

3.2.95 show profile event

Description	Show event profile list
Syntax	show profile event show profile event <eventid>

Parameter		
	Name	Description
	<eventid>	Range: 1 ~ 48

3.2.96 show protocol-vlan

Description	Show protocol based VLAN information for all entries.
Syntax	show protocol-vlan
Parameter	None

3.2.97 show queue-scheduler profile

Description	Show scheduler profile table.
Syntax	show queue-scheduler profile
Parameter	None

3.2.98 show queue-shaper

Description	Show queue shaper information.
Syntax	show queue-shaper
Parameter	None

3.2.99 show ringv2

Description	Show ring protection configuration.	
Syntax	show ringv2 show ringv2 detail	
Parameter		
	Name	Description
	detail	Show detail ringv2 information

3.2.100 show rmon statistics

Description	Show RMON statistics	
Syntax	show rmon statistics show rmon statistics <id>	
Parameter		
	Name	Description
	<id>	Show RMON counter of the id (1 ~ 28)

3.2.101 show runningcfg

Description	Show running configuration.
Syntax	show runningcfg
Parameter	None

3.2.102 show runningcfg default

Description	Show default running configuration.
Syntax	show runningcfg default
Parameter	None

3.2.103 show runningcfg backup

Description	Show running configuration backup.
Syntax	show runningcfg backup
Parameter	None

3.2.104 show snmp community

Description	Show SNMP community
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Syntax	show snmp community
Parameter	None

3.2.105 show snmp config

Description	Show SNMP config file (snmpd.conf)
Syntax	show snmp config
Parameter	None

3.2.106 show snmp group

Description	Show SNMP v3 group
Syntax	show snmp group
Parameter	None

3.2.107 show snmp notify

Description	Show SNMP notify
Syntax	show snmp notify
Parameter	None

3.2.108 show snmp target

Description	Show SNMP target
Syntax	show snmp target
Parameter	None

3.2.109 show snmp user

Description	Show SNMP v3 user
Syntax	show snmp user
Parameter	None

3.2.110 show snmp version

Description	Show SNMP version
Syntax	show snmp version
Parameter	None

3.2.111 show snmp view

Description	Show SNMP view
Syntax	show snmp view
Parameter	None

3.2.112 show snmp

Description	Show SNTP information.
Syntax	show snmp
Parameter	None

3.2.113 show ssh

Description	Show ssh service
Syntax	show ssh
Parameter	None

3.2.114 show ssl decrypted

Description	Show ssl certificate with decrypted format.
Syntax	show ssl decrypted

Parameter	None
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3.2.115 show ssl encrypted

Description	Show ssl certificate with encrypted format.
Syntax	show ssl encrypted
Parameter	None

3.2.116 show stp

Description	System Wide Spanning Tree Setting/Status.
Syntax	show stp
Parameter	None

3.2.117 show syslog

Description	Show syslog configuration.
Syntax	show syslog
Parameter	None

3.2.118 show system information

Description	Show system information.
Syntax	show system information
Parameter	None

3.2.119 show system inventory

Description	Show system inventory.
Syntax	show system inventory
Parameter	None

3.2.120 show telnetd

Description	Show telnet service
Syntax	show telnetd
Parameter	None

3.2.121 show time

Description	Show current time.
Syntax	show time
Parameter	None

3.2.122 show traffic-mirror

Description	Show traffic-mirror configuration	
Syntax	show traffic-mirror analyzer show traffic-mirror port-mirror	
Parameter		
	Name	Description
	analyzer	Show mirror analyzer configuration
	port-mirror	Show port-based mirror configuration

3.2.123 show uptime

Description	Show uptime
Syntax	show uptime
Parameter	None

3.2.124 show veriphy

Description	Show latest cable diagnostics result	
Syntax	show veriphy show veriphy interface gigabitEthernet <portNo>	
Parameter		
	Name	Description
	veriphy	Show latest cable diagnostics result
	<portNo>	1 ~ max number of the ports

3.2.125 show version

Description	Show version information.	
Syntax	show version show version detail	
Parameter		
	Name	Description
	detail	Show detail version information.

3.2.126 show vlan

Description	Show bridge port memberset/status.
Syntax	show vlan
Parameter	None

3.2.127 show vlan <vlanid>

Description	Show bridge port member set/status per VLAN index (1~4094).	
Syntax	show vlan <vlanid> show vlan <vlanid> status show vlan <vlanid> status detail	
Parameter		
	Name	Description
	<vlanid>	Valid values: 1~4094 Type: Mandatory.
	status	Show brief members status of the specific VLAN
	detail	Show detail members status of the specific VLAN

3.2.128 show vlan {unknown-uc|unknown-mc|broadcast|i-sid|status}

Description	Show storm control information by VLAN. Display FA VLAN I-SID information	
Syntax	show vlan unknown-uc show vlan unknown-mc show vlan broadcast show vlan i-sid show vlan status show vlan status detail	
Parameter		
	Name	Description
	unknown-uc	Show unknown unicast storm control information by VLAN. Type: Mandatory
	unknown-mc	Show unknown multicast storm control information by VLAN. Type: Mandatory
	broadcast	Show broadcast storm control information by VLAN. Type: Mandatory

	i-sid	Display FA VLAN I-SID information
	status	Show brief members status of all VLANs
	detail	Show detail members status of all VLANs

3.2.129 show vlan-trans

Description	Show VLAN translation table for all
Syntax	show vlan-trans
Parameter	None

3.2.130 sleep

Description	Sleep for the specified number of milli-seconds	
Syntax	sleep <time>	
Parameter		
	Name	Description
	<time>	Valid values: 1 ~ 0xFFFFFFFF ms Type: Mandatory

3.2.131 system restart

Description	Restart System	
Syntax	system restart system restart <time> system restart cancel	
Parameter	None	
	Name	Description
	<time>	Time for scheduled restart ("MM/DD/YYYY HH:MM:SS")
	cancel	Cancel a previously-scheduled system restart

3.2.132 system stop ftp

Description	Stop FTP transfer
Syntax	system stop ftp
Parameter	None

3.2.133 telnet <ip>

Description	Telnet to a remote host	
Syntax	telnet <ip>	
Parameter		
	Name	Description
	<ip>	IP address Type: Mandatory

3.2.134 traceroute <ip>

Description	Print the route packets take to network host	
Syntax	traceroute <ip>	
Parameter		
	Name	Description
	<ip>	IP address Type: Mandatory

3.2.135 veriphy

Description	Do PHY cable diagnostics
Syntax	veriphy veriphy interface gigabitEthernet <portNo>

Commands Description (optional feature)

Parameter		
	Name	Description
	veriphy	Do PHY cable diagnostics
	<portNo>	1 ~ max number of the ports

3.3 Configure Mode Commands

Commands that can be executed under Configure Mode

3.3.1 bye

Description	Quit CLI.
Syntax	bye
Parameter	None

3.3.2 disable

Description	Enter init mode.
Syntax	disable
Parameter	None

3.3.3 !

Description	Execute the specific number of command in history	
Syntax	! <number>	
Parameter		
	Name	Description
	<number>	Valid values: 1 ~ 32 Type: Mandatory

3.3.4 configure

Description	Enter configure mode.
Syntax	configure
Parameter	None

3.3.5 interface port

Description	Select interface to config	
Syntax	interface 10GigabitEthernet <portNo> interface gigabitEthernet <portNo>	
Parameter		
	Name	Description
	<portNo>	Valid values: 1 ~ max number of the ports Type: Mandatory

3.3.6 interface lag <number>

Description	Trunk group interface	
Syntax	interface lag <number>	
Parameter		
	Name	Description
	< number>	Link aggregation group index (1 ~ 4)

3.3.7 interface mgmt-port

Description	Configure management port	
Syntax	interface mgmt-port interface mgmt-port disable	
Parameter		
	Name	Description
	disable	Disable management port

3.3.8 interface vlan <vlanid>

Description	Vlan Ethernet interface (enter mode of interface vlan)	
Syntax	interface vlan <vlanid> interface vlan <vlanid> disable	
Parameter		
	Name	Description
	<vlanid>	Valid values: 1 ~ 4094 Type: Mandatory
	disable	Disable VLAN Interface

3.3.9 profile acl

Description	Enter Acl Profile Config Mode
Syntax	profile acl
Parameter	None

3.3.10 profile alarm

Description	Alarm Profile Config Mode
Syntax	profile alarm
Parameter	None

3.3.11 profile event

Description	Event Profile Config Mode
Syntax	profile event
Parameter	None

3.3.12 profile igmp-acl

Description	Enter IGMP ACL profile config mode
Syntax	profile igmp-acl
Parameter	None

3.3.13 profile igmp-mvr

Description	Enter IGMP MVR profile config mode
Syntax	profile igmp-mvr
Parameter	None

3.3.14 profile sch

Description	Enter Scheduling Profile Config Mode
Syntax	profile sch
Parameter	None

3.3.15 kick <index> { cli|console|web}

Description	Kick off a logged-in user.	
Syntax	kick <index> cli kick <index> console kick <index> web	
Parameter		
	Name	Description
	<index>	Valid values: 1 ~ 10 Type: Mandatory

3.3.16 list alarm table

Description	List valid alarm ID
--------------------	---------------------

Syntax	list alarm table list alarm table detail	
Parameter	None	
	Name	Description
	detail	List detail information for all alarms

3.3.17 list command-tree

Description	List tree of all available CLI commands
Syntax	list command-tree
Parameter	None

3.3.18 list event table

Description	List valid event ID
Syntax	list event table
Parameter	None

3.3.19 list execution-modes

Description	List all available execution modes
Syntax	list execution-modes
Parameter	None

3.3.20 list timezone

Description	List timezones
Syntax	list timezone
Parameter	None

3.3.21 ping

Description	send ICMP ECHO REQUEST to network hosts	
Syntax	ping <ip> ping <ip> count <count> ping <ip> count <count> size <size> ping <ip> size <size>	
Parameter		
	Name	Description
	<ip>	Valid values: - Type: Mandatory
	<count>	Packet count Valid values: 1 ~ 4294967295 Default value: 0 Type: Mandatory
	<size>	The number of data bytes to be sent Valid values: 1 ~ 65500 Default value: 0 Type: Mandatory

3.3.22 sleep

Description	Sleep for the specified number of milli-seconds	
Syntax	sleep <time>	
Parameter		
	Name	Description
	<time>	Valid values: 1 ~ 0xFFFFFFFF ms Type: Mandatory

3.3.23 system dump

Description	Dump system to a FTP server	
Syntax	system dump <ip> <username> <password> <string>	
Parameter		
	Name	Description
	<ip>	FTP server IP address
	<username>	Username (1 ~ 32 characters)
	<password>	Password (0 ~ 32 characters)
	<string>	Remote filename(1 ~ 64 characters)

3.3.24 system restart

Description	Restart System	
Syntax	system restart system restart <time> system restart cancel	
Parameter		
	Name	Description
	<time>	Time for scheduled restart ("MM/DD/YYYY HH:MM:SS")
	cancel	Cancel a previously-scheduled system restart

3.3.25 system stop ftp

Description	Stop FTP transfer
Syntax	system stop ftp
Parameter	None

3.3.26 telnet <ip>

Description	Telnet to a remote host	
Syntax	telnet <ip>	
Parameter		
	Name	Description
	<ip>	IP Address Type: Mandatory

3.3.27 traceroute <ip>

Description	Print the route packets take to network host	
Syntax	traceroute <ip>	
Parameter		
	Name	Description
	<ip>	IP address Type: Mandatory

3.3.28 account add <username> password

Description	Add an account.
Syntax	account add <username> account add <username> password <password> account add <username> password <password> comment <comment> account add <username> password <password> level superuser account add <username> password <password> level superuser comment <comment> account add <username> password <password> level engineer account add <username> password <password> level engineer comment <comment> account add <username> password <password> level guest

	account add <username> password <password> level guest comment <comment>	
Parameter		
	Name	Description
	<username>	Valid values: 1 ~ 31 characters Type: Mandatory
	<password>	Valid values: 0 ~ 31 characters Type: Mandatory
	<comment>	Valid values: 0 ~ 31 characters Type: Mandatory

3.3.29 account add <username> secret

Description	Add an account secret.	
Syntax	account add <username> secret <password> account add <username> secret <password> comment <comment> account add <username> secret <password> level superuser account add <username> secret <password> level superuser comment <comment> account add <username> secret <password> level engineer account add <username> secret <password> level engineer comment <comment> account add <username> secret <password> level guest account add <username> secret <password> level guest comment <comment>	
Parameter		
	Name	Description
	<username>	Valid values: 1 ~ 31 characters Type: Mandatory
	<password>	Valid values: 0 ~ 31 characters Type: Mandatory
	<comment>	Valid values: 0 ~ 31 characters Type: Mandatory

3.3.30 account delete <username>

Description	Delete an account.	
Syntax	account delete <username>	
Parameter		
	Name	Description
	<username>	Valid values: 1 ~ 31 characters Type: Mandatory

3.3.31 account modify <username> comment/level

Description	Modify an account	
Syntax	account modify <username> account modify <username> comment <comment> account modify <username> level superuser account modify <username> level superuser comment <comment> account modify <username> level engineer account modify <username> level engineer comment <comment> account modify <username> level guest account modify <username> level guest comment <comment>	
Parameter		
	Name	Description
	<username>	Valid values: 1 ~ 31 characters

		Type: Mandatory
	<password>	Valid values: 0 ~ 31 characters Type: Mandatory
	<comment>	Valid values: 0 ~ 31 characters Type: Mandatory

3.3.32 account modify <username> password

Description	Modify an account password	
Syntax	account modify <username> password <password> account modify <username> password <password> comment <comment> account modify <username> password <password> level superuser account modify <username> password <password> level superuser comment <comment> account modify <username> password <password> level engineer account modify <username> password <password> level engineer comment <comment> account modify <username> password <password> level guest account modify <username> password <password> level guest comment <comment>	
Parameter		
	Name	Description
	<username>	Valid values: 1 ~ 31 characters Type: Mandatory
	<password>	Valid values: 0 ~ 31 characters Type: Mandatory
	<comment>	Valid values: 0 ~ 31 characters Type: Mandatory

3.3.33 account modify <username> secret

Description	Modify an account secret	
Syntax	account modify <username> secret <password> account modify <username> secret <password> comment <comment> account modify <username> secret <password> level superuser account modify <username> secret <password> level superuser comment <comment> account modify <username> secret <password> level engineer account modify <username> secret <password> level engineer comment <comment> account modify <username> secret <password> level guest account modify <username> secret <password> level guest comment <comment>	
Parameter		
	Name	Description
	<username>	Valid values: 1 ~ 31 characters Type: Mandatory
	<password>	Valid values: 0 ~ 31 characters Type: Mandatory
	<comment>	Valid values: 0 ~ 31 characters Type: Mandatory

3.3.34 aging <time>

Description	Configure aging time for a bridge port.	
Syntax	aging <time>	
Parameter		
	Name	Description

	<time>	Valid values: 10 ~ 600 (seconds) Type: Mandatory
--	--------	---

3.3.35 alarm history clear

Description	Clear alarm history
Syntax	alarm history clear
Parameter	None

3.3.36 cfm cc domain

Description	Set CFM Continuity check messages domain related configuration	
Syntax	cfm cc domain <name> service <name> cfm cc domain <name> service <name> delete cfm cc domain <name> service <name> interval 100ms cfm cc domain <name> service <name> interval 10mins cfm cc domain <name> service <name> interval 10s cfm cc domain <name> service <name> interval 1min cfm cc domain <name> service <name> interval 1s cfm cc domain <name> vlan <number> cfm cc domain <name> vlan <number> delete cfm cc domain <name> vlan <number> interval 100ms cfm cc domain <name> vlan <number> interval 10mins cfm cc domain <name> vlan <number> interval 10s cfm cc domain <name> vlan <number> interval 1min cfm cc domain <name> vlan <number> interval 1s	
Parameter		
	Name	Description
	<name>	Set CFM Continuity check messages domain related configuration, string length 1-43. Service Name (1 ~ 43 characters).
	<number>	VLAN ID (1 ~ 4094)
	delete	Delete CFM Continuity check messages domain service related configuration. Delete CFM Continuity check messages domain vlan related configuration.
	100ms	Enable CCM with interval 100ms
	10mins	Enable CCM with interval 10 minutes
	10s	Enable CCM with interval 10 seconds
	1min	Enable CCM with interval 1 minute
	1s	Enable CCM with interval 1 second

3.3.37 cfm cc level

Description	Set CFM Continuity check messages level related configuration.	
Syntax	cfm cc level <number> vlan <vlanid> cfm cc level <number> vlan <vlanid> delete cfm cc level <number> vlan <vlanid> interval 100ms cfm cc level <number> vlan <vlanid> interval 10mins cfm cc level <number> vlan <vlanid> interval 10s cfm cc level <number> vlan <vlanid> interval 1min cfm cc level <number> vlan <vlanid> interval 1s	
Parameter		
	Name	Description
	<number>	Level (0 ~ 7)
	<vlanid>	VLAN ID (1 ~ 4094)
	delete	Set CFM Continuity check messages level vlan

		related configuration
	100ms	Enable CCM with interval 100ms
	10mins	Enable CCM with interval 10 minutes
	10s	Enable CCM with interval 10 seconds
	1min	Enable CCM with interval 1 minute
	1s	Enable CCM with interval 1 second

3.3.38 cfm disable

Description	Disable CFM configuration.
Syntax	cfm disable
Parameter	None

3.3.39 cfm domain format

Description	Set CFM domain name format related configuration	
Syntax	cfm domain format char-string <name> level <number> cfm domain format char-string <name> level <number> delete cfm domain format dns-like-name <name> level <number> cfm domain format dns-like-name <name> level <number> delete cfm domain format mac-addr <name> level <number> cfm domain format mac-addr <name> level <number> delete cfm domain format none <name> level <number> cfm domain format none <name> level <number> delete	
Parameter		
	Name	Description
	<name>	Set CFM domain name (Length 1 ~ 43)
	<number>	CFM level value (0 ~ 7)
	delete	Remove CFM domain value, sub-data will be deleted.

3.3.40 cfm domain name

Description	Set CFM domain name	
Syntax	cfm domain name <name> level <number> cfm domain name <name> level <number> delete	
Parameter		
	Name	Description
	<name>	Set CFM domain name (Length 1 ~ 43)
	<number>	CFM level value (0 ~ 7)
	delete	Remove CFM domain value, sub-data will be deleted.

3.3.41 cfm enable

Description	Enable CFM configuration
Syntax	cfm enable
Parameter	None

3.3.42 clear fa statistics

Description	Clear FA Statistics	
Syntax	clear fa statistics * clear fa statistics interface <interfaceType> <interface>	
Parameter		
	Name	Description
	*	Clear all FA Statistics
	<interfaceType>	Select port type

	<interface>	1 ~ max number of the ports
--	-------------	-----------------------------

3.3.43 clisettings <timeout>

Description	Configure CLI settings.	
Syntax	clisettings <timeout> clisettings <timeout> <flag> clisettings <timeout> <flag> <maxSessions>	
Parameter		
	Name	Description
	<timeout>	Valid values: 60 ~ 65535 seconds, 0: no timeout Type: Mandatory
	<flag>	Valid values: bitmap <input type="checkbox"/> showAlarm(0) <input type="checkbox"/> showEvent(1) <input type="checkbox"/> showReadWriteStatus(2) Type: Optional
	<maxSessions>	Valid values: 1 ~ 10 sessions Type: Mandatory

3.3.44 cos-queue-mapping cos <priority> queue <number>

Description	Set CoS and queue mapping.	
Syntax	cos-queue-mapping cos <priority> queue < number>	
Parameter		
	Name	Description
	<priority>	Valid values: 0~7 Type: Mandatory
	<number>	Valid values: 0~7 Type: Mandatory

3.3.45 counter-clear interface

Description	Clear interface counter per port.	
Syntax	counter-clear interface 10GigabitEthernet <portNo> counter-clear interface all counter-clear interface gigabitEthernet <portNo>	
Parameter		
	Name	Description
	<portNo>	Valid values: 1~ max number of the ports Type: Mandatory

3.3.46 default all

Description	Set all configurations to default.	
Syntax	default all default all except account	
Parameter		
	Name	Description
	except account	Set all configurations to default except user account. Type: Mandatory

3.3.47 default-gateway <default_gateway>

Description	Configure default gateway IP address.	
Syntax	default-gateway <default_gateway>	
Parameter		

	Name	Description
	<default_gateway>	Type: Mandatory

3.3.48 dir usb-flash

Description	Show directory information
Syntax	dir usb-flash
Parameter	None

3.3.49 dot1x clear dot1x-radius-stats

Description	Clear dot1x RADIUS stats
Syntax	dot1x clear dot1x-radius-stats
Parameter	None

3.3.50 dot1x clear eapol-stats {<portNo>|all}

Description	Clear dot1x EAPOL stats.	
Syntax	dot1x clear eapol-stats all dot1x clear eapol-stats interface 10GigabitEthernet <portNo> dot1x clear eapol-stats interface gigabitEthernet <portNo>	
Parameter		
	Name	Description
	<portNo>	Valid values: 1 ~ max number of the ports Type: Mandatory

3.3.51 dot1x {enable|disable}

Description	Enable / disable dot1x.
Syntax	dot1x {enable disable}
Parameter	None

3.3.52 dot1x radius set <ip> <auth_port> <secret>

Description	Set dot1x parameters.	
Syntax	dot1x radius set <ip> <auth_port> <secret>	
Parameter		
	Name	Description
	<ip>	IP address. Format : 0.0.0.0 ~ 255.255.255.255 Type: Mandatory
	<auth_port>	Authentication port. Valid values: 1 ~ 65535 Default values: 1812 Type: Mandatory
	<secret>	Authentication key. Length: 1 ~ 16 Type: Mandatory

3.3.53 erps

Description	Set up ERPS	
Syntax	erps disable erps enable erps group <number> erps group <number> delete	
Parameter		
	Name	Description

	disable	Disable ERPS configuration
	enable	Enable ERPS configuration
	<number>	Group ID (1 ~ 4294967295)
	disable	Remove ERPS group delete related configuration.

3.3.54 event auto-save

Description	Clear event saved in runtime databse Save all event data to local flash storage now	
Syntax	event auto-save disable event auto-save enable event auto-save-interval <HH:MM:SS> event auto-save-time <time>	
Parameter		
	Name	Description
	disable	Disable auto saving event data per interval
	enable	Enable event data are automatically saved in flash storage per interval
	<HH:MM:SS>	HH is hour(s) in range of 0 ~ 23, MM/SS are minutes(s)/second(s) in range of 0 ~ 59)
	<time>	Daily (HH:MM:SS, where HH is in range of 0 ~ 23, MM, SS are in range of 0 ~ 59) Weekly (WWW,HH:MM:SS, where WWW is SUN,MON,TUE,WED,THU,FRI or SAT)

3.3.55 event clear/save

Description	Clear event saved in runtime databse Save all event data to local flash storage now	
Syntax	event clear event clear storage event save	
Parameter		
	Name	Description
	storage	Clear event saved in flash storage

3.3.56 ext-tpid <number>

Description	Set tpid.	
Syntax	ext-tpid <number>	
Parameter		
	Name	Description
	<number>	tpid Valid values: 0x0001~0xffff Type: Mandatory

3.3.57 fa

Description	Configure Fabric Attach	
Syntax	fa assignment-timeout <timeout> fa authentication-key * <key> fa authentication-key <interfaceType> <interface> <key> fa client fa client disable fa debuglevel <level> fa discovery-timeout <timeout> fa extended-logging	

	fa extended-logging disable	
Parameter		
	Name	Description
	<timeout>	Assignment Timeout (45 ~ 480, units: seconds) Discovery Timeout (45 ~ 480, units: seconds)
	*	Set Authentication Key of all interfaces
	<key>	Authentication Key (0 ~ 32 characters)
	<interfaceType>	Select port type
	<interface>	1~ max number of the ports
	client	Enable System FA client feature
	disable	Disable System FA client feature Disable extended logging
	<level>	error-major Error (major) error-minor Error (minor) warning Warning notice Notice information Information
	extended-logging	Enable extended logging

3.3.58 fa message-authentication

Description	Enable Message Authenticaion of an interface	
Syntax	fa message-authentication * fa message-authentication * disable fa message-authentication * keymode <mode> fa message-authentication <interfaceType> <interface> fa message-authentication <interfaceType> <interface> disable fa message-authentication <interfaceType> <interface> keymode <mode>	
Parameter		
	Name	Description
	*	Enable Message Authenticaion of all interfaces
	disable	Disable Message Authenticaion of all interfaces Disable Message Authenticaion
	<mode>	strict Strict standard Standard
	<interfaceType>	Select port type
	<interface>	1~ max number of the ports

3.3.59 fa port-enable

Description	Enable Advertisement of an interface	
Syntax	fa port-enable * fa port-enable * disable fa port-enable <interfaceType> <interface> fa port-enable <interfaceType> <interface> disable	
Parameter		
	Name	Description
	*	Enable Advertisement of all interfaces
	disable	Disable Advertisement of all interfaces Disable Advertisement
	<interfaceType>	Select port type
	<interface>	1~ max number of the ports

3.3.60 fdb-delete all

Description	Delete all dynamic entries from forwarding table.
--------------------	---

Syntax	fdb-delete all	
Parameter		
	Name	Description
	all	Delete all dynamic FDB entries. Type: Mandatory

3.3.61 fdb-delete interface port

Description	Delete Forwarding table entries per port.	
Syntax	fdb-delete interface 10GigabitEthernet <portNo> fdb-delete interface gigabitEthernet <portNo>	
Parameter		
	Name	Description
	<portNo>	Valid values: 1~ max number of the ports Type: Mandatory

3.3.62 fdb-delete interface lag

Description	Delete FDB entries of the link aggregation group.	
Syntax	fdb-delete interface lag <number>	
Parameter		
	Name	Description
	<number>	The index of link aggregation group (1 ~ 4)

3.3.63 fdb-delete vlan <vlanid>

Description	Delete forwarding table entries per VLAN index.	
Syntax	fdb-delete vlan <vlanid>	
Parameter		
	Name	Description
	<vlanid>	Valid values: 1~4094 Type: Mandatory

3.3.64 fdbstatic <number> interface port

Description	Create static MAC forwarding table entry.	
Syntax	fdbstatic <number> interface 10GigabitEthernet <portNo> <vlanid> <mac> fdbstatic <number> interface gigabitEthernet <portNo><vlanid><mac>	
Parameter		
	Name	Description
	<number>	Entry position. Valid values: 1~512 Type: Mandatory
	<portNo>	Valid values: 1~max number of the ports Type: Mandatory
	<vlanid>	Valid values: 1~4094 Type: Mandatory
	<mac>	Valid values: xx:xx:xx:xx:xx:xx Type: Mandatory

3.3.65 fdbstatic delete <number>

Description	Delete static MAC forwarding table entry.	
Syntax	fdbstatic delete <number>	
Parameter		
	Name	Description
	<number>	Valid values: 1~512

		Type: Mandatory
--	--	------------------------

3.3.66 fdbstatic delete all

Description	Delete all entries of static MAC forwarding table.
Syntax	fdbstatic delete all
Parameter	None

3.3.67 fdbstatic delete interface port

Description	Delete static MAC forwarding table entry per port.	
Syntax	fdbstatic delete interface 10GigabitEthernet <portNo> fdbstatic delete interface gigabitEthernet <portNo>	
Parameter		
	Name	Description
	<portNo>	Valid values: 1~max number of the ports Type: Mandatory

3.3.68 fdbstatic delete vlan <vlanid>

Description	Delete static MAC forwarding table entry per VLAN index.	
Syntax	fdbstatic delete vlan <vlanid>	
Parameter		
	Name	Description
	<vlanid>	Valid values: 1~4094 Type: Mandatory

3.3.69 firmware partition <partition>

Description	Set boot partition.	
Syntax	firmware partition <partition>	
Parameter		
	Name	Description
	<partition>	Valid values: 0 ~ 1 Type: Mandatory

3.3.70 firmware write cancel

Description	Cancel a scheduled upgrade.
Syntax	firmware write cancel
Parameter	None

3.3.71 firmware write ftp

Description	Getting file(s) via FTP	
Syntax	firmware write ftp <ip> <username> <password> <string> bootloader firmware write ftp <ip> <username> <password> <string> bootloader <time> firmware write ftp <ip> <username> <password> <string> bootloader noreboot firmware write ftp <ip> <username> <password> <string> bootloader noreboot <time> firmware write ftp <ip> <username> <password> <string> image firmware write ftp <ip> <username> <password> <string> image <time> firmware write ftp <ip> <username> <password> <string> image noreboot firmware write ftp <ip> <username> <password> <string> image noreboot <time>	
Parameter		
	Name	Description
	<ip>	IP address Type: Mandatory

	<username>	Valid values: 1 ~ 32 characters Type: Mandatory
	<password>	Valid values: 0 ~ 32 characters Type: Mandatory
	<string>	Image path and filename. Valid values: 1 ~ 64 characters Type: Mandatory
	image	Perform remote download for the software image. Type: Mandatory
	bootloader	Perform remote download for the boot loader. Type: Mandatory
	noreboot	Perform Remote Download without Reboot. Must reboot system manually for the changes to take effect! Type: Optional
	<time>	Time for scheduled upgrade. (MM/DD/YYYY HH:MM:SS) Type: Optional

3.3.72 firmware write scp

Description	Getting file(s) via SCP	
Syntax	<pre>firmware write scp <ip> <username> <password> <string> bootloader firmware write scp <ip> <username> <password> <string> bootloader <time> firmware write scp <ip> <username> <password> <string> bootloader noreboot firmware write scp <ip> <username> <password> <string> bootloader noreboot <time> firmware write scp <ip> <username> <password> <string> image firmware write scp <ip> <username> <password> <string> image <time> firmware write scp <ip> <username> <password> <string> image noreboot firmware write scp <ip> <username> <password> <string> image noreboot <time></pre>	
Parameter		
	Name	Description
	<ip>	SCP server IP address Type: Mandatory
	<string>	Image path and filename. Valid values: 1 ~ 64 characters Type: Mandatory
	image	Perform remote download for the software image. Type: Mandatory
	noreboot	Perform Remote Download without Reboot. Must reboot system manually for the changes to take effect! Type: Optional
	<time>	Time for scheduled upgrade. (MM/DD/YYYY HH:MM:SS) Type: Optional

3.3.73 firmware write sftp

Description	Getting file(s) via SFTP	
Syntax	<pre>firmware write sftp <ip> <username> <password> <string> bootloader firmware write sftp <ip> <username> <password> <string> bootloader <time></pre>	

	firmware write sftp <ip> <username> <password> <string> bootloader noreboot firmware write sftp <ip> <username> <password> <string> bootloader noreboot <time> firmware write sftp <ip> <username> <password> <string> image firmware write sftp <ip> <username> <password> <string> image <time> firmware write sftp <ip> <username> <password> <string> image noreboot firmware write sftp <ip> <username> <password> <string> image noreboot <time>	
Parameter		
	Name	Description
	<ip>	SFTP server IP address Type: Mandatory
	<string>	Image path and filename. Valid values: 1 ~ 64 characters Type: Mandatory
	image	Perform remote download for the software image. Type: Mandatory
	noreboot	Perform Remote Download without Reboot. Must reboot system manually for the changes to take effect! Type: Optional
	<time>	Time for scheduled upgrade. (MM/DD/YYYY HH:MM:SS) Type: Optional

3.3.74 firmware write tftp

Description	Getting file(s) via TFTP	
Syntax	firmware write tftp <ip> <username> <password> <string> bootloader firmware write tftp <ip> <username> <password> <string> bootloader <time> firmware write tftp <ip> <username> <password> <string> bootloader noreboot firmware write tftp <ip> <username> <password> <string> bootloader noreboot <time> firmware write tftp <ip> <username> <password> <string> image firmware write tftp <ip> <username> <password> <string> image <time> firmware write tftp <ip> <username> <password> <string> image noreboot firmware write tftp <ip> <username> <password> <string> image noreboot <time> firmware write tftp cancel	
Parameter		
	Name	Description
	<ip>	TFTP server IP address Type: Mandatory
	<string>	Image path and filename. Valid values: 1 ~ 64 characters Type: Mandatory
	image	Perform remote download for the software image. Type: Mandatory
	noreboot	Perform Remote Download without Reboot. Must reboot system manually for the changes to take effect! Type: Optional
	<time>	Time for scheduled upgrade. (MM/DD/YYYY HH:MM:SS)

		Type: Optional
	cancel	Cancel a previously-scheduled upgrade

3.3.75 firmware write usb-flash

Description	Getting file(s) via USB-FLASH	
Syntax	firmware write usb-flash <string> bootloader firmware write usb-flash <string> bootloader noreboot firmware write usb-flash <string> image firmware write usb-flash <string> image noreboot	
Parameter		
	Name	Description
	<string>	Image path and filename (1 ~ 64 characters)

3.3.76 http port {<portNo>|default}

Description	Set HTTP server port.	
Syntax	http port <portNo> http port default	
Parameter		
	Name	Description
	<portNo>	Valid values: 1 ~ 65535 Type: Mandatory
	default	Set http server port to default (80) Type: Mandatory

3.3.77 https {enable|disable}

Description	Enable/Disable https.
Syntax	https {enable disable}
Parameter	None

3.3.78 https port {<portNo>|default}

Description	Set https port by specific port or default port.	
Syntax	https port {<portNo> default}	
Parameter		
	Name	Description
	<portNo>	https port number. Valid values: 1 ~ 65535 Type: Mandatory
	default	https default port number is 443. Type: Mandatory

3.3.79 i-sid

Description	Create I-SID/VLAN mapping	
Syntax	i-sid <isid> vlan <vlan> i-sid <isid> vlan <vlan> delete	
Parameter		
	Name	Description
	<isid>	I-SID (1 ~ 16777214)
	<vlan>	VLAN ID (1 ~ 4094)
	delete	Delete this mapping

3.3.80 igmp snooping

Description	Enable/Disable system IGMP snooping	
Syntax	igmp snooping igmp snooping disable	
Parameter		
	Name	Description
	disable	Disable system IGMP snooping

3.3.81 ip arp inspection

Description	Configure Address Resolution Protocol	
Syntax	ip arp inspection entry add interface 10GigabitEthernet <portNo> <vlan> <hwaddr> <ipaddr> ip arp inspection entry add interface gigabitEthernet <portNo> <vlan> <hwaddr> <ipaddr> ip arp inspection entry clear <vlanid> ip arp inspection entry clear all ip arp inspection entry clear interface 10GigabitEthernet <portNo> ip arp inspection entry clear interface gigabitEthernet <portNo> ip arp inspection entry delete all ip arp inspection entry delete interface 10GigabitEthernet <portNo> ip arp inspection entry delete interface 10GigabitEthernet <portNo> <vlan> <hwaddr> <ipaddr> ip arp inspection entry delete interface gigabitEthernet <portNo> ip arp inspection entry delete interface gigabitEthernet <portNo> <vlan> <hwaddr> <ipaddr> ip arp inspection entry delete vlan <vlanid> ip arp inspection vlan <vlanid> ip arp inspection vlan <vlanid> disable	
Parameter	None	
	Name	Description
	<portNo>	1~max number of the ports
	<vlan>	VLAN ID (1 ~ 4094)
	<hwaddr>	Configured a MAC address in colon-hexadecimal notation
	<ipaddr>	Configure an IP address in dotted-decimal notation
	<vlanid>	VLAN ID(1 ~ 4094)
	all	Clear all dynamic entries
	disable	Disable ARP inspection for this VLAN

3.3.82 ip dhcp class

Description	Configure DHCP address pool.	
Syntax	ip dhcp class <index> ip dhcp class <index> disable	
Parameter	None	
	Name	Description
	<index>	Class identifier (1 ~ 128)
	disable	Disable DHCP class

3.3.83 ip dhcp pool

Description	Configure DHCP address pool.	
Syntax	ip dhcp pool <number> ip dhcp pool <number> disable	
Parameter	None	

	Name	Description
	<number>	Pool identifier (1 ~ 20).
	disable	Disable DHCP address pool.

3.3.84 ip dhcp relay

Description	Configure DHCP relay parameters	
Syntax	ip dhcp relay information check ip dhcp relay information check disable ip dhcp relay information insert ip dhcp relay information insert disable ip dhcp relay information remote-id ascii <string> ip dhcp relay information remote-id hostname ip dhcp relay information remote-id sys-mac ip dhcp relay server <index> <x.x.x.x> ip dhcp relay server <index> disable	
Parameter	None	
	Name	Description
	check	Check relay information in BOOTREPLY
	insert	Insert
	<string>	ASCII string
	hostname	Use hostname as value of remote-id
	sys-mac	Use sys-mac as value of remote-id
	<index>	Specify index of DHCP server list
	<x.x.x.x>	IP address in dotted notation
	disable	Disable the command Disable this DHCP server from list

3.3.85 ip dhcp server

Description	Configure DHCP server.	
Syntax	ip dhcp server restart ip dhcp server start ip dhcp server stop	
Parameter	None	
	Name	Description
	restart	Restarting DHCP server.
	start	Start running DHCP server.
	stop	Stop running DHCP server.

3.3.86 ip dhcp snooping

Description	Configure DHCP snooping.	
Syntax	ip dhcp snooping ip dhcp snooping binding delete all ip dhcp snooping binding delete interface 10GigabitEthernet <portNo> ip dhcp snooping binding delete interface gigabitEthernet <portNo> ip dhcp snooping binding delete vlan <vlanid> ip dhcp snooping disable	
Parameter	None	
	Name	Description
	all	All binding entries
	<portNo>	1~max number of the ports
	<vlanid>	VLAN ID (1~4094)
	disable	Disable system DHCP snooping

3.3.87 ip route add

Description	Add a route	
Syntax	ip route add <x.x.x.x> netmask <x.x.x.x> nexthop <x.x.x.x>	
Parameter		
	Name	Description
	<x.x.x.x>	Specify destination network address in dotted-decimal notation Netmask address in dotted-decimal notation IP address in dotted-decimal notation Type: Mandatory

3.3.88 ip route delete <network> netmask <netmask>

Description	Delete a route.	
Syntax	ip route delete <network> netmask <netmask>	
Parameter		
	Name	Description
	<network>	Destination network address. Type: Mandatory
	<netmask>	Netmask address in dotted-decimal notation Type: Mandatory

3.3.89 ip source binding

Description	Set up IP source command	
Syntax	ip source binding add interface 10GigabitEthernet <portNo> <vlan> <ipaddr> <hwaddr> ip source binding add interface gigabitEthernet <portNo> <vlan> <ipaddr> <hwaddr> ip source binding delete all ip source binding delete interface 10GigabitEthernet <portNo> ip source binding delete interface gigabitEthernet <portNo> ip source binding delete static all ip source binding delete static interface 10GigabitEthernet <portNo> ip source binding delete static interface gigabitEthernet <portNo> ip source binding delete static interface gigabitEthernet <portNo> <vlan> <ipaddr> <hwaddr> ip source binding delete static vlan <vlanid> ip source binding delete vlan <vlanid>	
Parameter		
	Name	Description
	add	Add command
	<portNo>	1~max number of the ports
	<vlan>	VLAN ID (1 ~ 4094)
	<ipaddr>	IP address number
	<hwaddr>	Hardware address
	delete	Delete command
	all	All dynamic binding entries Delete all static binding entries
	static	Static binding entry

3.3.90 ipv6 route

Description	Set up IPv6 route command	
Syntax	ipv6 route add <x:x:x:x::/1-128> nexthop <x:x:x:x::x> ipv6 route add <x:x:x:x::/1-128> nexthop <x:x:x:x::x> vlan <vlanid> ipv6 route add <x:x:x:x::/1-128> vlan <vlanid>	

	ipv6 route delete <x:x:x:x::/1-128>	
Parameter		
	Name	Description
	<x:x:x:x::/1-128>	IPv6 prefix network and length
	<x:x:x:x::x>	IPv6 address of next-hop
	<vlanid>	VLAN ID (1 ~ 4094)

3.3.91 lacp

Description	Set up LACP configuration	
Syntax	lacp filter disable lacp filter forward lacp filter hard-drop lacp filter soft-drop lacp priority <value>	
Parameter		
	Name	Description
	disable	Always bypass incoming LACP PDUs
	forward	Accept LACP PDUs received on the LACP port and bypass it on the non-LACP port
	hard-drop	Always drop incoming LACP PDUs
	soft-drop	Accept LACP PDUs received on the LACP port and drop it on the non-LACP port
	<value>	Accepted range of priority (1 ~ 65535)

3.3.92 lag

Description	Configure the LAG	
Syntax	lag lb-mode packet lag lb-mode port lag lb-packet ip lag lb-packet ip disable lag lb-packet l4port lag lb-packet l4port disable lag lb-packet mac lag lb-packet mac disable	
Parameter		
	Name	Description
	packet	Load balance distribution is based on packet header information
	port	Load balance distribution is based on ingress port of received packets
	ip	The IP of received IP packets affect load balance distribution
	disable	Do not consider IP of received IP packets when doing load balance distribution Do not consider service port of received TCP/UDP packets when doing load balance distribution Do not consider mac of received packets when doing load balance distribution
	l4port	The service port of received TCP/UDP packets affect

		load balance distribution
	mac	The mac of received packets affect load balance distribution

3.3.93 lldp

Description	Set up LLDP configuration	
Syntax	lldp delay <TxDelay> lldp holdtime <TxHold> lldp interval <TxInterval> lldp reinit <TxReinit>	
Parameter		
	Name	Description
	<TxDelay>	1-8192 seconds
	<TxHold>	2-10 seconds
	<TxInterval>	5-32768 seconds
	<TxReinit>	1-10 seconds

3.3.94 mgmt-access-auth

Description	Configure Management Access Authentication	
Syntax	mgmt-access-auth login-timeout <timeout> mgmt-access-auth mode <mode> mgmt-access-auth session cache <time>	
Parameter		
	Name	Description
	<timeout>	Login timeout for console / telnet login (30 ~ 600, units: seconds, default value is 180 seconds)
	mode	Configure Management Access Authentication Mode
	cache	Configure authentication session cache aging time
	<mode>	local Set Management Access Authentication Mode to Local only radius-local Set Management Access Authentication Mode to RADIUS, Local tacacs-local Set Management Access Authentication Mode to TACACS+, Local
	<time>	Session Cache Aging Time (10 ~ 600, units: seconds, default value is 30 seconds)

3.3.95 mgmt-radius-srv

Description	Configure a RADIUS server for RADIUS authentication	
Syntax	mgmt-radius-srv create <index> <ipv4> <port> <secret> mgmt-radius-srv delete <index>	
Parameter		
	Name	Description
	create	Create RADIUS server for RADIUS authentication
	delete	Delete a RADIUS server
	<index>	RADIUS Server Index (1 ~ 4)
	<ipv4>	RADIUS Server IP Address
	<port>	RADIUS Server authentication UDP port (default is 1812)
	<secret>	RADIUS Server authentication key (string length is 1 ~ 16)

3.3.96 mgmt-tacacs-config

Description	Configure Management TACACS+ Config
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Syntax	mgmt-tacacs-config accounting disable mgmt-tacacs-config accounting enable mgmt-tacacs-config pri-map pri-lvl <pri-lvl> access-lvl superuser mgmt-tacacs-config pri-map pri-lvl <pri-lvl> access-lvl engineer mgmt-tacacs-config pri-map pri-lvl <pri-lvl> access-lvl guest mgmt-tacacs-config retry <count> mgmt-tacacs-config timeout <timeout>	
Parameter		
	Name	Description
	disable	Set Management TACACS+ Accounting to disable
	enable	Set Management TACACS+ Accounting to enable
	<pri-lvl>	Privilege Level (0 ~ 15)
	superuser	Set Access Level to superuser
	engineer	Set Access Level to engineer
	guest	Set Access Level to guest
	<count>	Management TACACS+ Retry Count (1 ~ 5, default value is 3)
	<timeout>	Management TACACS+ Response Timeout (1 ~ 300, units: seconds, default value is 5 seconds)

3.3.97 mgmt-tacacs-srv

Description	Configure a TACACS+ server for TACACS+ authentication	
Syntax	mgmt-tacacs-srv create <index> <ipv4> <port> <secret> mgmt-tacacs-srv delete <index>	
Parameter		
	Name	Description
	create	Create TACACS+ server for TACACS+ authentication
	delete	Delete a TACACS+ server
	<index>	TACACS+ Server Index (1 ~ 4)
	<ipv4>	TACACS+ Server IP Address
	<port>	TACACS+ Server authentication UDP port (default is 49)
	<secret>	TACACS+ Server authentication key (string length is 0 ~ 32)

3.3.98 mirror-analyzer

Description	Set analyzer port.	
Syntax	mirror-analyzer <index> interface 10GigabitEthernet <portNo> mirror-analyzer <index> interface gigabitEthernet <portNo>	
Parameter		
	Name	Description
	<index>	Analyzer number (1 ~ 7)
	<portNo>	Valid values: 1~max number of the ports Type: Mandatory

3.3.99 multicast-fdb delete

Description	Delete multicast forwarding table.	
Syntax	multicast-fdb delete all multicast-fdb delete interface 10GigabitEthernet <portNo> multicast-fdb delete interface gigabitEthernet <portNo> multicast-fdb delete vlan <vlanid>	
Parameter		
	Name	Description
	all	Delete all of dynamic multicast fdb entries
	<vlanid>	Valid values: 1~4094.

		Type: Mandatory
	<portNo>	Valid values: 1~max number of the ports Type: Mandatory

3.3.100 multicast-fdb static <number> interface

Description	Create static IGMP VLAN forwarding table entry.	
Syntax	multicast-fdb-static <number> interface 10GigabitEthernet <portNo> <vlanid> <ipaddr> multicast-fdb-static <number> interface gigabitEthernet <portNo> <vlanid> <ipaddr>	
Parameter		
	Name	Description
	<number>	Static multicast forwarding table entry index. Valid values: 1~128 Type: Mandatory
	<portNo>	Valid values: 1~max number of the ports Type: Mandatory
	<vlanid>	Valid values: 1~4094. Type: Mandatory
	<ipaddr>	IGMP VLAN group IP address. Valid values: 224.0.0.0~239.255.255.255 Type: Mandatory

3.3.101 multicast-fdb static delete

Description	Delete static multicast forwarding table.	
Syntax	multicast-fdb-static delete <number> multicast-fdb-static delete all multicast-fdb-static delete interface 10GigabitEthernet <portNo> multicast-fdb-static delete interface gigabitEthernet <portNo> multicast-fdb-static delete vlan <vlanid>	
Parameter		
	Name	Description
	<number>	Static multicast forwarding table entry index. Valid values: 1~128 Type: Mandatory
	all	Delete all of static multicast fdb entries
	<vlanid>	Valid values: 1~4094. Type: Mandatory
	<portNo>	Valid values: 1~max number of the ports Type: Mandatory

3.3.102 ntp

Description	Set up NTP configuration	
Syntax	ntp client polling-interval <interval> ntp client server-address <ip> ntp client sync ntp server ntp server disable	
Parameter		
	Name	Description
	<interval>	Polling Interval (60 ~ 65535 seconds, 0: disable polling)
	<ip>	Ntp client server IP address
	sync	Manual synchronization

	server	Ntp server enable
	disable	Ntp server disable

3.3.103 poe

Description	Set up PoE configuration	
Syntax	poe firmware upgrade poe firmware upgrade noreboot poe power-system-limit <val>	
Parameter		
	Name	Description
	upgrade	Upgrade latest PoE firmware if current is older
	noreboot	Do not reboot system after upgrading completes
	<val>	Power limitation per system (0 ~ 720)(Watt)

3.3.104 policer cos-mark green <green-number> yellow <yellow-number> red <red-number>

Description	Set ingress policer CoS remark mapping table.	
Syntax	policer cos-mark green <green-number> yellow <yellow-number> red <red-number>	
Parameter		
	Name	Description
	<green-number>	Color green and CoS number mapping. Valid values: 0~7 Type: Mandatory
	<yellow-number>	Color yellow and CoS number mapping. Valid values: 0~7 Type: Mandatory
	<red-number>	Color red and CoS number mapping. Valid values: 0~7 Type: Mandatory

3.3.105 policer dscp-mark green <green-number> yellow <yellow-number> red <red-number>

Description	Set ingress policer DSCP remark mapping table.	
Syntax	policer dscp-mark green <green-number> yellow <yellow-number> red <red-number>	
Parameter		
	Name	Description
	<green-number>	Color green and DSCP number mapping. Valid values: 0~63 Type: Mandatory
	<yellow-number>	Color yellow and DSCP number mapping. Valid values: 0~63 Type: Mandatory
	<red-number>	Color red and DSCP number mapping. Valid values: 0~63 Type: Mandatory

3.3.106 policer ingress-color {aware|blind}

Description	Enable/Disable ingress-color function.	
Syntax	policer ingress-color {aware blind}	
Parameter		
	Name	Description
	aware	Enable ingress color function.
	blind	Disable ingress color function.

3.3.107 policer ingress-color cos <number> {red|yellow|green}

Description	Set ingress-color mapping table.	
Syntax	policer ingress-color cos <number> {green yellow red}	

Parameter		
	Name	Description
	<number>	Valid values: 0~7 Type: Mandatory
	green yellow red	Green or yellow or red. Type: Mandatory

3.3.108 prompt <prompt>

Description	Prompt (1 ~ 31 characters)
Syntax	promote <prompt>
Parameter	None

3.3.109 prompt default

Description	Set prompt to default
Syntax	promote default
Parameter	None

3.3.110 ringv2-group <number>

Description	Entry ring group interface	
Syntax	ringv2-group <number>	
Parameter		
	Name	Description
	<number>	Ring group index (1 ~ 8)

3.3.111 runningcfg clear

Description	Clear configuration.	
Syntax	runningcfg clear all runningcfg clear all noreboot runningcfg clear general runningcfg clear general noreboot	
Parameter		
	Name	Description
	all	Clear all configuration. Type: Mandatory
	general	Clear general configuration. Type: Mandatory
	noreboot	Clear configuration without Reboot. Must reboot system manually for the changes to take effect! Type: Optional

3.3.112 runningcfg get

Description	Get exported configuration files from a server.	
Syntax	runningcfg get ftp <ip> <username> <password> <string> runningcfg get scp <ip> <username> <password> <string> runningcfg get sftp <ip> <username> <password> <string> runningcfg get tftp <ip> <string> runningcfg get usb-flash <string>	
Parameter		
	Name	Description
	<ip>	IP address Type: Mandatory
	<username>	Valid values: 1 ~ 32 characters

		Type: Mandatory
	<password>	Valid values: 1 ~ 32 characters Type: Mandatory
	<string>	Remote filename prefix. Valid values: 1 ~ 64 characters Type: Mandatory

3.3.113 runningcfg import download

Description	Import configuration from files retrieved via ' <u>runningcfg get</u> '.	
Syntax	runningcfg import download runningcfg import download noreboot	
Parameter		
	Name	Description
	Noreboot	Import configuration without Reboot. Must reboot system manually for the changes to take effect! Type: Optional

3.3.114 runningcfg put

Description	Put exported configuration files to a server.	
Syntax	runningcfg put ftp <ip> <username> <password> <string> runningcfg put scp <ip> <username> <password> <string> runningcfg put sftp <ip> <username> <password> <string> runningcfg put tftp <ip> <string> runningcfg put usb-flash <string>	
Parameter		
	Name	Description
	<ip>	IP address Type: Mandatory
	<username>	Valid values: 1 ~ 32 characters Type: Mandatory
	<password>	Valid values: 1 ~ 32 characters Type: Mandatory
	<string>	Remote filename prefix. Valid values: 1 ~ 64 characters Type: Mandatory

3.3.115 runningcfg replace-save <inbandBackupIndex>

Description	Save running config to FLASH replacing existing the specified backup.	
Syntax	runningcfg replace-save <inbandBackupIndex> runningcfg replace-save <inbandBackupIndex> <inbandBackupName> runningcfg replace-save <inbandBackupIndex> <inbandBackupName> <generalBackupIndex> runningcfg replace-save <inbandBackupIndex> <inbandBackupName> <generalBackupIndex> <generalBackupName>	
Parameter		
	Name	Description
	<inbandBackupIndex>	Valid values: 1 ~ 16 Type: Mandatory
	<inbandBackupName>	Valid values: 1 ~ 31 characters Type: Optional
	<generalBackupIndex>	Valid values: 1 ~ 16 Type: Optional
	<generalBackupName>	Valid values: 1 ~ 31 characters

		Type: Optional
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3.3.116 runningcfg restore index <inbandBackupIndex>

Description	Restore configuration.	
Syntax	runningcfg restore index <inbandBackupIndex> runningcfg restore index <inbandBackupIndex> <generalBackupIndex> runningcfg restore index <inbandBackupIndex> <generalBackupIndex> noreboot	
Parameter		
	Name	Description
	<inbandBackupIndex>	Valid values: 1 ~ 16 Type: Mandatory
	<generalBackupIndex>	Valid values: 1 ~ 16 Type: Optional (if omitted, use the same index as <inbandBackupIndex>)
	noreboot	Restore database without reboot. Must reboot system manually for the changes to take effect! Type: Optional

3.3.117 runningcfg restore name <inbandBackupName>

Description	Restore configuration.	
Syntax	runningcfg restore name <inbandBackupName> runningcfg restore name <inbandBackupName> <generalBackupName> runningcfg restore name <inbandBackupName> <generalBackupName> noreboot	
Parameter		
	Name	Description
	<inbandBackupName>	Valid values: 1 ~ 31 characters Type: Mandatory
	<generalBackupName>	Valid values: 1 ~ 31 characters Type: Optional (if omitted, use the same name as <inbandBackupName>)
	noreboot	Restore database without reboot. Must reboot system manually for the changes to take effect! Type: Optional

3.3.118 runningcfg save

Description	Save running config to FLASH.	
Syntax	runningcfg save runningcfg save <inbandBackupName> runningcfg save <inbandBackupName> <generalBackupName>	
Parameter		
	Name	Description
	<inbandBackupName>	Valid values: 1 ~ 31 characters Type: Optional
	<generalBackupName>	Valid values: 1 ~ 31 characters Type: Optional (if omitted, use the same name as <inbandBackupName>)

3.3.119 setenv pagefilter <enabled>

Description	Configure Page Filter
Syntax	setenv pagefilter <enabled>

Parameter		
	Name	Description
	<enabled>	Enable Page Filter Valid values: (0:disable, 1:enable) Type: Mandatory

3.3.120 setenv script-delay <delay>

Description	Configure script delay	
Syntax	setenv script-delay <delay>	
Parameter		
	Name	Description
	<delay>	Script Delay Valid values: 1 ~ 0xFFFFFFFF ms Type: Mandatory

3.3.121 setenv show-date-time-in-prompt <enabled>

Description	Show Date/Time in Prompt (0:disable, 1:enable)	
Syntax	setenv show-date-time-in-prompt <enabled>	
Parameter		
	Name	Description
	<enabled>	enabled Valid values: (0:disable, 1:enable) Type: Mandatory

3.3.122 snmp <index> notify

Description	Configure snmp notify	
Syntax	snmp <index> notify <name> <tag>	
Parameter		
	Name	Description
	<index>	Index. Valid values: 1~32 Type: Mandatory
	notify	Configure snmp notify Type: Mandatory
	<name>	Notify name Valid values: 1 ~ 31 characters Type: Mandatory
	<tag>	Notify tag (1 ~ 31 characters)

3.3.123 snmp <index> notify delete

Description	Delete a snmp notify	
Syntax	snmp <index> notify delete	
Parameter		
	Name	Description
	<index>	Index. Valid values: 1~32 Type: Mandatory

3.3.124 snmp <index> target <ip>

Description	Configure snmp target	
Syntax	snmp <index> target <ip> <port> <name> <tag> v1 snmp <index> target <ip> <port> <name> <tag> v2c	
Parameter		

	Name	Description
	<index>	Scheduler profile index. Valid values: 1~32 Type: Mandatory
	target	Configure snmp target Type: Mandatory
	<ip>	Target IP address Type: Mandatory
	<port>	Target port (1 ~ 65535)
	<name>	Target name (1 ~ 31 characters)
	<tag>	Target tag list
	v1	Send version 1 trap
	v2c	Send version 2c trap

3.3.125 snmp <index> target delete

Description	Delete a snmp target	
Syntax	snmp <index> target delete	
Parameter		
	Name	Description
	<index>	Scheduler profile index. Valid values: 1~32 Type: Mandatory

3.3.126 snmp community <name> group <name>

Description	Config snmp community	
Syntax	snmp community <name> group <name>	
Parameter		
	Name	Description
	<name>	Community name. Valid values: 1 ~ 31 characters Type: Mandatory
	group	Config a community to bind with a group Type: Mandatory
	<name>	Group name Valid values: (1 ~ 15 characters) (input 'none' to unbind) Type: Mandatory

3.3.127 snmp community <name> ro

Description	Config snmp community	
Syntax	snmp community <name> ro	
Parameter		
	Name	Description
	<name>	Community name. Valid values: 1 ~ 31 characters Type: Mandatory
	ro	Config a community access right as read-only Type: Mandatory

3.3.128 snmp community <name> rw

Description	Config snmp community	
Syntax	snmp community <name> rw	
Parameter		
	Name	Description

	<name>	Community name. Valid values: 1 ~ 31 characters Type: Mandatory
	rw	Config a community access right as read-write Type: Mandatory

3.3.129 snmp community <name> view <name>

Description	Config snmp community	
Syntax	snmp community <name> view <name>	
Parameter		
	Name	Description
	<name>	Community name. Valid values: 1 ~ 31 characters Type: Mandatory
	view	Config a community to bind with a group Type: Mandatory
	<name>	Group name Valid values: (1 ~ 15 characters) (input 'none' to unbind) Type: Mandatory

3.3.130 snmp create-community {ro | rw} <name> {view | group} <name>

Description	Create snmp community	
Syntax	snmp create-community {ro rw} <name> {view group} <name>	
Parameter		
	Name	Description
	ro	Create a snmp community (read only) Type: Mandatory
	rw	Create a snmp community (read,write) Type: Mandatory
	<name>	Community name Valid values: 1 ~ 31 characters Type: Mandatory
	view	Create a snmp community (read only) and bind it with a view Type: Mandatory
	group	Create a snmp community (read only) and bind it with a group Type: Mandatory
	<name>	Group name Valid values: 1 ~ 15 characters Type: Mandatory

3.3.131 snmp create-group <name> model {v1 | v2 | v3sum} level {auth | noauth | priv} read <name> write <name>

Description	Create snmp v3 access group	
Syntax	snmp create-group <name> model {v1 v2 v3sum} level {auth noauth priv} read <name> write <name>	
Parameter		
	Name	Description
	<name>	Group name Valid values: 1 ~ 15 characters Type: Mandatory
	model	Security model of the group (v1/v2c/v3) Type: Mandatory

	v1	SNMP v1 security model
	v2c	SNMP v2c security model
	v3usm	SNMP v3 security model
	level	Security level of the group (noauth/auth/priv) Type: Mandatory
	auth	Authentication, but no privacy
	noauth	No authentication, no privacy
	priv	Both authentication and privacy
	read	Specify a read view to this group
	<name>	View name Valid values: 1 ~ 15 characters Type: Mandatory
	write	Specify a write view to this group
	<name>	View name Valid values: 1 ~ 15 characters Type: Mandatory

3.3.132 snmp create-user {access | group} {ro | rw} {md5 | sha} <passPhrase> des <passPhrase>

Description	Create snmp v3 user	
Syntax	snmp create-user <name> {access group} <name> {ro rw} {md5 sha} <passPhrase> des <passPhrase>	
Parameter		
	Name	Description
	<name>	User name (1 ~ 31 characters) Group name (1 ~ 15 characters)
	access	Access right of user (ro/rw) Type: Mandatory
	group	Bind user to a group Type: Mandatory
	ro	Read-only user
	rw	Read-write user
	md5	Use MD5 as authentication protocol
	sha	Use SHA as authentication protocol
	<passPhrase>	Authentication pass phrase Valid values: 8 ~ 15 characters Type: Mandatory
	des	Use DES as encryption protocol
	<passPhrase>	Encryption pass phrase Valid values: 8 ~ 15 characters Type: Mandatory

3.3.133 snmp create-view <name> type { exclude | include} subtree <subtree>

Description	Create snmp v3 access view	
Syntax	snmp create-view <name> type { exclude include} subtree <subtree>	
Parameter		
	Name	Description
	<name>	View name Valid values: 1 ~ 15 characters Type: Mandatory
	type	View type of the subtree Type: Mandatory
	exclude	Exclude the subtree
	include	Include the subtree

	subtree	Set subtree(oid or name) of a view Type: Mandatory
	<subtree>	Subtree, oid or name Valid values: 1 ~ 31 characters Type: Mandatory

3.3.134 snmp delete-community <name>

Description	Delete snmp community	
Syntax	snmp delete-community name <name>	
Parameter		
	Name	Description
	name	Community name (1 ~ 31 characters)

3.3.135 snmp delete-group <name>

Description	Delete snmp v3 group	
Syntax	snmp delete-group name <name>	
Parameter		
	Name	Description
	name	Group name (1 ~ 15 characters) to be deleted

3.3.136 snmp delete-user name

Description	Delete snmp v3 user	
Syntax	snmp delete-user name <name>	
Parameter		
	Name	Description
	name	User name (1 ~ 31 characters)

3.3.137 snmp delete-view { index | name }

Description	Delete snmp v3 access view	
Syntax	snmp delete-view index <index> snmp delete-view name <name>	
Parameter		
	Name	Description
	index	View index (1 ~ 32) to be deleted
	name	View name (1 ~ 15 characters) to be deleted (delete all entries with same view name)

3.3.138 snmp user

Description	Configure snmp user	
Syntax	snmp user <name> access ro snmp user <name> access rw snmp user <name> des <passPhrase> snmp user <name> group <name> snmp user <name> md5 <passPhrase> snmp user <name> md5 <passPhrase> des <passPhrase> snmp user <name> sha <passPhrase> snmp user <name> sha <passPhrase> des <passPhrase>	
Parameter		
	Name	Description
	<name>	User name (1 ~ 31 characters) Group name (1 ~ 15 characters)
	ro	Read-only user
	rw	Read-write user

	<passPhrase>	Encryption pass phrase (8 ~ 15 characters) Authentication pass phrase (8 ~ 15 characters)
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3.3.139 snmp version { v2c | v3 }

Description	Config snmp version (v2c/v3)	
Syntax	snmp version { v2c v3 }	
Parameter		
	Name	Description
	v2c	Set snmp version to v2c
	v3	Set snmp version to v3

3.3.140 snmp polling-interval <interval>

Description	Set SNMP Polling interval.	
Syntax	snmp polling-interval <interval>	
Parameter		
	Name	Description
	<interval>	Valid values: 60 ~ 65535 seconds, 0: disable polling Type: Mandatory

3.3.141 snmp server address <ip>

Description	Set SNMP server address.	
Syntax	snmp server address <ip>	
Parameter		
	Name	Description
	<ip>	Type: Mandatory

3.3.142 snmp sync

Description	Manual SNMP synchronization.
Syntax	snmp sync
Parameter	None

3.3.143 ssh {disable|enable}

Description	Enable or disable ssh service	
Syntax	ssh disable ssh enable	
Parameter		
	Name	Description
	disable	Disable ssh service
	enable	Enable ssh service

3.3.144 ssl default-certificate

Description	Use system default SSL certificate
Syntax	ssl default-certificate
Parameter	None

3.3.145 ssl upload

Description	Upload new SSL certificate
Syntax	ssl upload
Parameter	None

3.3.146 stp bpdu {deny|flooding}

Description	Set BPDU packet filter (deny/flooding).
--------------------	---

Syntax	stp bpdu {deny flooding}	
Parameter		
	Name	Description
	deny	Deny BPDU packet.
	flooding	Flood BPDU packet.

3.3.147 stp {disable|enable}

Description	Configure spanning tree protocol settings.	
Syntax	stp {disable enable}	
Parameter		
	Name	Description
	disable	Disable STP.
	enable	Enable STP.

3.3.148 stp forward-delay <number>

Description	Set STP forward delay time.	
Syntax	stp forward-delay <number>	
Parameter		
	Name	Description
	<number>	Valid values: 4 ~ 30 (seconds) Type: Mandatory

3.3.149 stp hello-time <number>

Description	Set STP hello time.	
Syntax	stp hello-time <number>	
Parameter		
	Name	Description
	<number>	Valid values: 1 ~ 10 (seconds) Type: Mandatory

3.3.150 stp max-age <number>

Description	Set STP max age value.	
Syntax	stp max-age <number>	
Parameter		
	Name	Description
	<number>	Valid values: 6 ~ 40 (seconds) Type: Mandatory

3.3.151 stp msti <index> add

Description	Add VLAN ID to MSTP instance.	
Syntax	stp msti <index> add <vlan> stp msti <index> add range <vlan> <vlan>	
Parameter		
	Name	Description
	<index>	MSTP instance Valid values: 1~10 Type: Mandatory
	<vlan>	VLAN ID Valid values: 1~4094
	range	Add multiple VLAN ID to MSTP instance

3.3.152 stp msti <index> create

Description	Create MSTP instance.
--------------------	-----------------------

Syntax	stp msti <index> create stp msti <index> create <name>	
Parameter		
	Name	Description
	<index>	MSTP instance Valid values: 1~10 Type: Mandatory
	<name>	Create MSTP instance with name (Length 1~30)

3.3.153 stp msti <index> delete

Description	Delete MSTP instance	
Syntax	stp msti <index> delete stp msti <index> delete <vlan> stp msti <index> delete range <vlan> <vlan>	
Parameter		
	Name	Description
	<index>	MSTP instance Valid values: 1~10 Type: Mandatory
	range	Delete multiple VLAN ID from MSTP instance
	<vlan>	VLAN ID (1 ~ 4094)

3.3.154 stp msti <index> set

Description	Set MSTP instance name.	
Syntax	stp msti <index> set <name> stp msti <index> set priority <value>	
Parameter		
	Name	Description
	<index>	MSTP instance Valid values: 1~10 Type: Mandatory
	<name>	Create MSTP instance with name (Length 1~30)
	<value>	MSTP instance priority (0~61440, step 4096)

3.3.155 stp priority <number>

Description	Set STP priority.	
Syntax	stp priority <number>	
Parameter		
	Name	Description
	<number>	Valid values: 0 ~ 61440 step 4096 Type: Mandatory

3.3.156 stp recovery-delay

Description	The error recovery timeout	
Syntax	stp recovery-delay <value>	
Parameter		
	Name	Description
	<value>	Seconds (30 ~ 86400)

3.3.157 stp region-name <name>

Description	Set STP Region Name	
Syntax	stp region-name <name>	
Parameter		

	Name	Description
	<name>	Region Name Valid values: Length 0..32 Type: Mandatory

3.3.158 stp revision <value>

Description	Set MST Revision Level	
Syntax	stp revision <value>	
Parameter		
	Name	Description
	<value>	Revision Level value Valid values: 0..65535 Type: Mandatory

3.3.159 stp version {stp|rstp|mstp}

Description	Set STP version.	
Syntax	stp version {stp rstp mstp}	
Parameter		
	Name	Description
	stp	Spanning tree protocol.
	rstp	Rapid spanning tree protocol.
	mstp	Multiple Spanning Tree Protocol

3.3.160 syslog server <ip>

Description	Configure syslog server IP address.	
Syntax	syslog server <ip>	
Parameter		
	Name	Description
	<ip>	Syslog server IP address. Type: Mandatory

3.3.161 syslog {enable|disable}

Description	Disable or enable syslog service.	
Syntax	syslog enable syslog disable	
Parameter	None	

3.3.162 system-info contact <string>

Description	Modify system contact.	
Syntax	system-info contact <string>	
Parameter		
	Name	Description
	<string>	Valid values: 0 ~ 255 characters (ASCII code: 0x20 - 0x7E) Type: Mandatory

3.3.163 system-info location <string>

Description	Modify system location.	
Syntax	system-info location <string>	
Parameter		
	Name	Description
	<string>	Valid values: 0 ~ 255 characters (ASCII code: 0x20 - 0x7E)

		Type: Mandatory
--	--	------------------------

3.3.164 system-info name <string>

Description	Modify system name.	
Syntax	system-info name <string>	
Parameter		
	Name	Description
	<string>	Valid values: 1 ~ 255 characters (ASCII code: 0x21 - 0x7E) Type: Mandatory

3.3.165 telnetd {enable|disable}

Description	Configure telnet service.
Syntax	telnetd enable telnetd disable
Parameter	None

3.3.166 time set {date|time}

Description	Set date/time.	
Syntax	time set date <month> <day> <year> time set time <hour> <minute> time set time <hour> <minute> <second>	
Parameter		
	Name	Description
	<month>	Valid values: 1 ~ 12 Type: Mandatory
	<day>	Valid values: 1 ~ 31 Type: Mandatory
	<year>	Valid values: 0 ~ 36 Type: Mandatory
	<hour>	Valid values: 0 ~ 23 Type: Mandatory
	<minute>	Valid values: 0 ~ 59 Type: Mandatory
	<second>	Valid values: 0 ~ 59 Type: Optional

3.3.167 time set timezone

Description	Set time zone.	
Syntax	time set timezone <timezone> time set timezone default	
Parameter		
	Name	Description
	<timezone>	Timezone
	default	Set time zone to default (GMT/UTC). Type: Mandatory

3.3.168 veriphy

Description	Do PHY cable diagnostics	
Syntax	veriphy veriphy interface gigabitEthernet <portNo>	
Parameter		
	Name	Description

	<portNo>	1~max number of the ports
--	----------	---------------------------

3.3.169 vlan <vlanid>

Description	Configure VLAN.	
Syntax	vlan <vlanid>	
Parameter		
	Name	Description
	<vlanid>	Create an empty VLAN index. Valid values: 1 ~ 4094 Type: Mandatory

3.3.170 vlan <vlanid> {<name> | broadcast | disable | unknown-mc | unknown-uc} {block | forward}

Description	Configure VLAN's name.	
Syntax	vlan <vlanid> {<name> broadcast disable unknown-mc unknown-uc} { block forward}	
Parameter		
	Name	Description
	<vlanid>	Create an empty VLAN index. Valid values: 1 ~ 4094 Type: Mandatory
	<name>	VLAN Name (0~31) String Size: 0~31 Type: Mandatory
	broadcast	Set storm control for broadcast packet per VLAN
	disable	Delete VLAN memberset/settting
	unknown-mc	Set storm control for unknown multicast packet per VLAN
	unknown-uc	Set storm control for unknown unicast packet per VLAN
	block	Block broadcast packet
	forward	Forward broadcast packet

3.3.171 voice-vlan

Description	Set voice VLAN configuration	
Syntax	voice-vlan oui-group <index> <mac> <mask> voice-vlan oui-group <index> <mac> <mask> <description> voice-vlan oui-group <index> disable	
Parameter		
	Name	Description
	<index>	Set the index to identify one OUI group. (1 ~ 10)
	<mac>	Configure the mac address for the OUI
	<mask>	Configure the mask to specify a valid length of OUI address
	<description>	Set OUI address description, a string of 1 to 32 characters
	disable	Delete this OUI group

3.4 Interface Port Mode Commands

3.4.1 accfrm

Description	Set acceptable frame type.	
Syntax	accfrm{all tag untag}	
Parameter		
	Name	Description
	all	Accept all frames.
	tag	Accept tagged frame only.
	untag	Accept un-tagged frame only.

3.4.2 acl-profile-bind <number>

Description	Port ACL profile binding.	
Syntax	acl-profile-bind <number>	
Parameter		
	Name	Description
	<number>	Valid values: 1~10 Type: Mandatory

3.4.3 broadcast {block|forward}

Description	Block/Forward broadcast packet.
Syntax	broadcast block broadcast forward
Parameter	None

3.4.4 broadcast rate <rate>

Description	Set storm rate for broadcast packet.	
Syntax	broadcast rate <rate>	
Parameter		
	Name	Description
	<rate>	G1 ~ G24 Valid values: 1~1000000 10G1 ~ 10G4 Valid values: 1~10000000 Type: Mandatory

3.4.5 cfm domain

Description	Set CFM domain related configuration	
Syntax	cfm domain <name> inward mpid <number> vlan <vlanid> active cfm domain <name> inward mpid <number> vlan <vlanid> inactive cfm domain <name> mpid <number> vlan <vlanid> active cfm domain <name> mpid <number> vlan <vlanid> inactive	
Parameter		
	Name	Description
	<name>	Set CFM domain name related configuration, string length 1-43.
	<number>	Set CFM domain inward mpid related configuration, value range is 1-8191.
	<vlanid>	VLAN ID (1 ~ 4094)
	active	Enable CFM on this port
	inactive	Disable CFM on this port

3.4.6 cfm level

Description	Set CFM level related configuration
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Syntax	cfm level <number> inward mpid <number> vlan <vlanid> active cfm level <number> inward mpid <number> vlan <vlanid> inactive cfm level <number> mpid <number> vlan <vlanid> active cfm level <number> mpid <number> vlan <vlanid> inactive	
Parameter		
	Name	Description
	<name>	Set CFM level related configuration, value range is 0-7.
	<number>	Set CFM level inward mpid related configuration, value range is 1-8191
	<vlanid>	VLAN ID (1 ~ 4094)
	active	Enable CFM on this port
	inactive	Disable CFM on this port

3.4.7 def-acl {permit|deny}

Description	Set port default ACL rule.
Syntax	def-acl permit def-acl deny
Parameter	None

3.4.8 default vlan

Description	Set default VLAN to gigabit port.	
Syntax	default vlan <vlanid>	
Parameter		
	Name	Description
	<vlanid>	Valid values: 1 ~ 4094 Type: Mandatory

3.4.9 dot1x auth-port-control

Description	Set dot1x authentication type of PAE port.	
Syntax	dot1x auth-port-control auto dot1x auth-port-control force-authorized dot1x auth-port-control force-unauthorized dot1x auth-port-control mac-based dot1x auth-port-control sense	
Parameter		
	Name	Description
	auto	Auto
	force-authorized	Authorized
	force-unauthorized	Unauthorized
	mac-based	MAC Based
	sense	Sense

3.4.10 dot1x auth-quiet-period <period>

Description	Set quiet period of PAE port	
Syntax	dot1x auth-quiet-period <period>	
Parameter		
	Name	Description
	<period>	The quiet period of PAE port Valid values: 1 ~ 255 seconds. Default values: 60 seconds Type: Mandatory

3.4.11 dot1x auth-sense-period <period>

Description	Set sense period of PAE port with Sense mode	
Syntax	dot1x auth-sense-period <period>	
Parameter		
	Name	Description
	<period>	Period (10 ~ 255), unit: second, default is 10 seconds

3.4.12 dot1x auth-server-timeout <timeout>

Description	Set timeout of Authenticator wait Access-Challenge / Access-Accept / Access-Reject after sending Access-Request	
Syntax	dot1x auth-server-timeout <timeout>	
Parameter		
	Name	Description
	<timeout>	Authenticator timeout. Valid values: 1 ~ 255 seconds. Default values: 30 seconds Type: Mandatory

3.4.13 dot1x auth-supp-timeout <timeout>

Description	Set timeout of authenticator wait for EAP-Response(exclude EAP-Request / Identify) after sending EAP-Request.	
Syntax	dot1x auth-supp-timeout <timeout>	
Parameter		
	Name	Description
	<timeout>	Authenticator timeout. Valid values: 1 ~ 255 seconds. Default values: 30 seconds Type: Mandatory

3.4.14 dot1x auth-tx-period <period>

Description	Set timeout of authenticator waiting for EAP-Response / Identity from supplication of PAE port	
Syntax	dot1x auth-tx-period <period>	
Parameter		
	Name	Description
	<period>	The quiet period of PAE port Valid values: 1 ~ 255 seconds. Default values: 30 seconds Type: Mandatory

3.4.15 dot1x {force-reinitialize| force-reauthenticate}

Description	Enable for force PAE port re-initialize / re-authenticate.
Syntax	dot1x {force-reinitialize force-reauthenticate}
Parameter	None

3.4.16 dot1x max-req <number>

Description	Set max times of backend Authenticator send EAP-Request to supplicant before restarting the authentication process.	
Syntax	dot1x max-req <number>	
Parameter		
	Name	Description
	<number>	Max request number.

		Valid values: 1 ~ 10. Default values: 2 Type: Mandatory
--	--	--

3.4.17 dot1x reauth {enable|disable}

Description	Enable/Disable re-authentication of APE port
Syntax	dot1x reauth {enable disable}
Parameter	None

3.4.18 dot1x reauth-period <period>

Description	period of re-authentication of PAE port	
Syntax	dot1x reauth-period <period>	
Parameter		
	Name	Description
	<period>	Period of re-authentication. Valid values: 1 ~ 3600 seconds. Default values: 3600 seconds Type: Mandatory

3.4.19 eee

Description	Configure IEEE-802.3az setting	
Syntax	eee disable eee enable	
Parameter		
	Name	Description
	disable	Disable operating EEE auto negotiation with link-partner
	enable	Enable operating EEE auto negotiation with link-partner

3.4.20 flow-control

Description	Set up flow-control.	
Syntax	flow-control auto flow-control disable flow-control rx-only flow-control rx-tx flow-control tx-only	
Parameter		
	Name	Description
	auto	Enable operating flow-control auto negotiation with link-partner
	disable	Disable flow-control.
	rx-only	Enable flow-control operating on rx-direction only (without negotiation)
	rx-tx	Enable flow-control operating on both direction (without negotiation)
	tx-only	Enable flow-control operating on tx-direction only (without negotiation)

3.4.21 igmp max-channel <number>

Description	Set max channel to specified port.
Syntax	igmp max-channel <number>

Parameter		
	Name	Description
	<number>	Max channel number. Valid values: 1 ~ 512 Type: Mandatory

3.4.22 igmp profile aclprofile <index>

Description	Binding IGMP ACL profile to specified port.	
Syntax	igmp profile aclprofile <index>	
Parameter		
	Name	Description
	<index>	IGMP ACL index. Valid values: 1 ~ 15 Type: Mandatory

3.4.23 igmp profile mvrprofile <index>

Description	Binding IGMP MVR profile to specified port.	
Syntax	igmp profile mvrprofile <index>	
Parameter		
	Name	Description
	<index>	IGMP MVR index. Valid values: 1 ~ 15 Type: Mandatory

3.4.24 ip arp inspection

Description	Address Resolution Protocol	
Syntax	ip arp inspection trust ip arp inspection untrust	
Parameter		
	Name	Description
	trust	Disable ARP frames validation
	untrust	Enable ARP frames validation

3.4.25 ip dhcp relay option82

Description	DHCP relay information option82	
Syntax	ip dhcp relay option82 ip dhcp relay option82 circuit-id ascii <string> ip dhcp relay option82 circuit-id port-id ip dhcp relay option82 circuit-id port-mac ip dhcp relay option82 disable	
Parameter		
	Name	Description
	<string>	ASCII string (maximum is 32 characters)
	port-id	Use port-id as value of circuit-id
	port-mac	Use port-mac as value of circuit-id
	disable	Disable DHCP relay information option82

3.4.26 ip dhcp snooping

Description	Configure DHCP snooping parameters
Syntax	ip dhcp snooping trust

	ip dhcp snooping untrust	
Parameter		
	Name	Description
	trust	Configure the interface as trusted port
	untrust	Configure the interface as untrusted port

3.4.27 ip verify source

Description	Enable per packet validation	
Syntax	ip verify source ip verify source disable ip verify source limit <number> ip verify source limit disable	
Parameter		
	Name	Description
	disable	Validation of source address No limitation of source address validation
	<number>	Number of limitation (0 ~ 5)

3.4.28 lacp

Description	Configure LACP	
Syntax	lacp access active lacp access passive lacp key <value> lacp key auto lacp periodic fast lacp periodic slow lacp priority <value>	
Parameter		
	Name	Description
	active	Set LACP port as active
	passive	Set LACP port as passive
	<value>	Accepted range of key (1 ~ 65535) Accepted range of priority (1 ~ 65535)
	auto	Indicate auto key
	fast	Set fast periodic on the port
	slow	Set slow periodic on the port

3.4.29 lag

Description	Configure the LAG	
Syntax	lag <value> lag disable	
Parameter		
	Name	Description
	<value>	Join the LAG (1 ~ 4)
	disable	Leave the LAG

3.4.30 lldp

Description	LLDP transmit enable/disable
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Syntax	lldp transmit disable lldp transmit enable	
Parameter		
	Name	Description
	disable	Disable LLDP port Tx
	enable	Enable LLDP port Tx

3.4.31 mru

Description	Configure maximum receive unit on the port	
Syntax	mru <size>	
Parameter		
	Name	Description
	<size>	Bytes (0 ~ 10384) (No include 4-bytes CRC)

3.4.32 poe

Description	Config PoE	
Syntax	poe mode disable poe mode enable poe opmode at poe opmode bt type3 poe opmode bt type4 poe opmode poh poe priority critical poe priority high poe priority low	
Parameter		
	Name	Description
	disable	Disable PoE on the port
	enable	Enable PoE on the port
	at	Set 802.3at operation on the port
	type3	Set 802.3bt/type3 operation on the port
	type4	Set 802.3bt/type4 operation on the port
	poh	Set 802.3at/type4 operation on the port
	critical	Set PoE priority to critical on the port
	high	Set PoE priority to high on the port
	low	Set PoE priority to low on the port

3.4.33 policer disable/enable

Description	Disable or enable policer function.	
Syntax	policer disable policer enable	
Parameter	None	

3.4.34 policer pir <pir-rate> pbs <pbs-size> cir <cir-rate> cbs <cbs-size> {drop|cos|dscp}

Description	Set ingress policer parameters.	
Syntax	policer pir <pir-rate> pbs <pbs-size> cir <cir-rate> cbs <cbs-size> {drop cos dscp} {disable enable}	
Parameter		
	Name	Description
	<pir-rate>	Ingress total max rate setting. G1 ~ G24 Valid values: 1~1000000

		10G1 ~ 10G4 Valid values: 1~10000000 Type: Mandatory
	<pbs-size>	Ingress queue size setting. Valid values: 1~65535 Type: Mandatory
	<cir-rate>	Ingress max rate for first stage setting. G1 ~ G24 Valid values: 1~1000000 10G1 ~ 10G4 Valid values: 1~10000000 Type: Mandatory
	<cbs-size>	Ingress max rate for second stage setting. Valid values: 1~65535 Type: Mandatory
	drop	Set Exceed Action to Drop
	cos	Set Exceed Action to Mark by CoS Priority
	dscp	Set Exceed Action to Mark by DSCP Priority
	disable	Disable Policer
	enable	Exceed Action - Mark by CoS Priority if exceed Exceed Action - Drop if exceed Exceed Action - Mark by DSCP Priority if exceed

3.4.35 port {enable/disable}

Description	Set interface gigabit port enable or disable.	
Syntax	port {enable/disable}	
Parameter		
	Name	Description
	disable	Turn off gigabit port.
	enable	Turn off gigabit port.

3.4.36 port-isolation interface

Description	Enable/Disabled port-isolation action.	
Syntax	port-isolation interface 10GigabitEthernet <portNo> port-isolation interface 10GigabitEthernet <portNo> disable port-isolation interface gigabitEthernet <portNo> port-isolation interface gigabitEthernet <portNo> disable	
Parameter		
	Name	Description
	<portNo>	Valid values: 1~max number of the ports Type: Mandatory

3.4.37 port-mirror

Description	Set port mirror source	
Syntax	port-mirror rx-profile <profileIdx> port-mirror rx-profile none port-mirror tx-profile <profileIdx> port-mirror tx-profile none	
Parameter		
	Name	Description
	rx-profile	Add rx profile, set rx frames as mirroring source of interface
	tx-profile	Add tx profile, set tx frames as mirroring source of interface
	<profileIdx>	Profile Index (1 ~ 7)
	none	Stop port mirror of rx frames

3.4.38 port-shaper {enable|disable}

Description	Enable/Disable port shaper.
Syntax	port-shaper {enable disable}
Parameter	None

3.4.39 port-shaper <rate>

Description	Set port shaper rate.	
Syntax	port-shaper <rate>	
Parameter		
	Name	Description
	<rate>	G1 ~ G24 Valid values: 1~1000000 10G1 ~ 10G4 Valid values: 1~10000000 Type: Mandatory

3.4.40 priority <priority>

Description	Set user priority for the gigabit port.	
Syntax	priority <priority>	
Parameter		
	Name	Description
	<priority>	Valid values: 0 ~ 7 Type: Mandatory

3.4.41 protocol-vlan <number> create <ether-type> <svlan> <s-prio>

Description	Create protocol VLAN.	
Syntax	protocol-vlan <number> create <ether-type> <svlan> <s-prio>	
Parameter		
	Name	Description
	<number>	Protocol VLAN index. Valid values: 1 ~ 20 Type: Mandatory
	<ether-type>	Ether type. Valid values: 0 ~ FFFF,(hex) Type: Mandatory
	<svlan>	Service VLAN (SVALN). Valid values: 1 ~ 4094 Type: Mandatory
	<s-prio>	CoS of SVLAN. Valid values: 0 ~ 8 Type: Mandatory

3.4.42 protocol-vlan <number> delete

Description	Delete protocol VLAN.	
Syntax	protocol-vlan <number> delete	
Parameter		
	Name	Description
	<number>	Protocol VLAN index. Valid values: 1 ~ 20 Type: Mandatory

3.4.43 queue-scheduler bind <number>

Description	Scheduler profile binding.	
Syntax	queue-scheduler bind <number>	
Parameter		

	Name	Description
	<number>	Scheduler profile index. Valid values: 1~8 Type: Mandatory

3.4.44 queue-shaper {enable|disable}

Description	Enable/Disable queue shaper.
Syntax	queue-shaper {enable disable}
Parameter	None

3.4.45 queue-shaper queue <number> <rate>

Description	Set queue shaper parameters.	
Syntax	queue-shaper queue <number> <rate>	
Parameter		
	Name	Description
	<number>	Valid values: 0~7 Type: Mandatory
	<rate>	G1 ~ G24 Valid values: 1~1000000 10G1 ~ 10G4 Valid values: 1~10000000 Type: Mandatory

3.4.46 sfp-speed (for 10G port)

Description	Configure 10G port Ethernet speed.	
Syntax	speed {1000 10g 2500 auto}	
Parameter		
	Name	Description
	1000	Force 1000 Mbps
	10g	Force 10 Gbps
	2500	Force 2.5 Gbps.
	auto	Auto negotiation.

3.4.47 speed (For 1G port only)

Description	Configure 1G port Ethernet speed.	
Syntax	speed {auto 10 100 1000 100h 10h}	
Parameter		
	Name	Description
	auto	Auto negotiation.
	10	Force 10 Mbps
	100	Force 100 Mbps
	1000	Force 1000 Mbps
	100h	Force 100 Mbps. (half)
	10h	Force 10 Mbps. (half)

3.4.48 stpport bpdu-guard

Description	Set STP port BPDU guard configuration	
Syntax	stpport bpdu-guard disable stpport bpdu-guard enable	
Parameter		
	Name	Description
	disable	Disable BPDU gaurd operation
	enable	Enable BPDU gaurd operation

3.4.49 stpport cost <number>

Description	Set STP port path cost.	
Syntax	stpport cost <number>	
Parameter		
	Name	Description
	<number>	Valid values: 1 ~ 200000000 Type: Mandatory

3.4.50 stpport {disable|enable}

Description	Configure STP port.	
Syntax	stpport {disable enable}	
Parameter		
	Name	Description
	disable	Disable STP port.
	enable	Enable STP port.

3.4.51 stpport edge-port {enable|disable}

Description	Set STP port edge-type.	
Syntax	stpport edge-port {enable disable}	
Parameter		
	Name	Description
	enable	Set as edge-type.
	disable	Set as none edge-type.

3.4.52 stpport enable

Description	Enable STP Port
Syntax	stpport enable
Parameter	None

3.4.53 stpport msti

Description	Set MSTI Port priority and path cost.	
Syntax	stpport msti <index> pathcost <number> stpport msti <index> priority <number>	
Parameter		
	Name	Description
	<index>	MSTP instance (1~10)
	<number>	Path Cost (1 ~ 200000000) Priority (0~240 step 16)

3.4.54 stpport priority <number>

Description	Set STP port priority.	
Syntax	stpport priority <number>	
Parameter		
	Name	Description
	<number>	Valid values: 0~240 step 16 Type: Mandatory

3.4.55 stpport restricted-role

Description	Set STP port restricted-role configuration.	
Syntax	stpport restricted-role disable stpport restricted-role enable	
Parameter		
	Name	Description

	disable	Disable restricted-role operation
	enable	Enable restricted-role operation

3.4.56 stpport restricted-tcn

Description	Set STP port restricted-tcn configuration	
Syntax	stpport restricted-tcn disable stpport restricted-tcn enable	
Parameter		
	Name	Description
	disable	Disable restricted-tcn operation
	enable	Enable restricted-tcn operation

3.4.57 unknown-mc {block|forward}

Description	Block/Forward unknown multicast packet.
Syntax	unknown-mc block unknown-mc forward
Parameter	None

3.4.58 unknown-mc rate <rate>

Description	Set storm rate for unknown multicast packet.	
Syntax	unknown-mc rate <rate>	
Parameter		
	Name	Description
	<rate>	G1 ~ G24 Valid values: 1~1000000 10G1 ~ 10G4 Valid values: 1~10000000 Type: Mandatory

3.4.59 unknown-uc {block|forward}

Description	Block/ Forward unknown unicast packet.
Syntax	unknown-uc block unknown-uc forward
Parameter	None

3.4.60 unknown-uc rate <rate>

Description	Set storm rate for unknown unicast packet.	
Syntax	unknown-uc rate <rate>	
Parameter		
	Name	Description
	<rate>	G1 ~ G24 Valid values: 1~1000000 10G1 ~ 10G4 Valid values: 1~10000000 Type: Mandatory

3.4.61 veriphy

Description	Do PHY cable diagnostics	
Syntax	veriphy veriphy interface gigabitEthernet <portNo>	
Parameter		
	Name	Description
	<portNo>	1~max number of the ports

3.4.62 vlan <vlanid>

Description	Join VLAN with default setting (tagged).
Syntax	vlan <vlanid>

Parameter		
	Name	Description
	<vlanid>	Valid values: 1~4094 Type: Mandatory

3.4.63 vlan <vlanid> disable

Description	Leave joined VLAN.	
Syntax	vlan <vlanid> disable	
Parameter		
	Name	Description
	<vlanid>	Valid values: 1~4094 Type: Mandatory
	disable	Leave joined VLAN

3.4.64 vlan <vlanid> tag

Description	Join tagged VLAN.	
Syntax	vlan <vlanid> tag	
Parameter		
	Name	Description
	<vlanid>	Valid values: 1~4094 Type: Mandatory
	tag	Join Tagged VLAN

3.4.65 vlan <vlanid> untag

Description	Join untagged VLAN.	
Syntax	vlan <vlanid> untag	
Parameter		
	Name	Description
	<vlanid>	Valid values: 1~4094 Type: Mandatory
	untag	Join Untagged VLAN

3.4.66 vlan-stack {enable|disable}

Description	Enable/disable vlan stack.
Syntax	vlan-stack {enable disable}
Parameter	None

3.4.67 vlan-trans <number> create

Description	Create VLAN translation.	
Syntax	vlan-trans <number> create <cvlan> <svlan> <s-prio> many-to-one-replaced	
Parameter		
	Name	Description
	<number>	VLAN translation index. Valid values: 1 ~ 20 Type: Mandatory
	<cvlan>	Customer VLAN (CVLAN). Valid values: 1 ~ 4094 Type: Mandatory
	<svlan>	Service VLAN (SVLAN). Valid values: 1 ~ 4094

		Type: Mandatory
	<s-prio>	CoS of SVLAN. Valid values: 0 ~ 8 Type: Mandatory
	many-to-one-replaced	Mode is many to one replaced

3.4.68 vlan-trans <number> delete

Description	Delete VLAN translation.	
Syntax	vlan-trans <number> delete	
Parameter		
	Name	Description
	<number>	VLAN translation index. Valid values: 1 ~ 20 Type: Mandatory

3.4.69 voice-vlan

Description	Set voice VLAN configuration	
Syntax	voice-vlan mode disable voice-vlan mode mac voice-vlan mode vlan voice-vlan vlan <value> disable voice-vlan vlan <value> priority <value> voice-vlan vlan <value> priority <value> oui-group <list>	
Parameter		
	Name	Description
	disable	Disable voice VLAN operation on the port Disable voice VLAN capability of the VLAN on the port
	mac	Set voice VLAN lookup by source mac of untagged voice traffic
	vlan	Set voice VLAN lookup by vid of tagged voice traffic
	<value>	VLAN id. (1 ~ 4094) Priority level. (0 ~ 7)
	<list>	Multiple unique OUI group id is separated by comma and use hyphen to specify successive ids

3.5 Interface LAG Commands

3.5.1 max-active-links <number>

Description	Configure maximum active links of the link aggregation group.	
Syntax	max-active-links <number>	
Parameter		
	Name	Description
	<number>	Active links. Valid values: 1 ~ 8.

3.5.2 mode {disable| static}

Description	Configure the mode of the link aggregation group.	
Syntax	mode {disable lacp static}	
Parameter		
	Name	Description
	disable	Shutdown this link aggregation group.
	lacp	Process LACP on the link aggregation group
	static	Process static bundling on the link aggregation group.

3.5.3 stpport

Description	Configure STP Port	
Syntax	stpport cost <number> stpport disable stpport edge-port disable stpport edge-port enable stpport enable stpport priority <number>	
Parameter		
	Name	Description
	<number>	Path Cost (1 ~ 200000000) Priority (0~240 step 16)
	disable	Disable STP Port Set as none Edge-Type
	enable	Enable STP Port Set as Edge-Type

3.6 Acl-profile Configure Mode Commands

3.6.1 acl-profile <number> {create|delete}

Description	Create/Delete ACL profile.	
Syntax	acl-profile <number> {create delete}	
Parameter		
	Name	Description
	<number>	Valid values: 2~17 Type: Mandatory
	create delete	Type: Mandatory

3.6.2 acl-profile <prof-number> {create|delete} entry <entry-number>

Description	Create/Delete ACL profile entry.	
Syntax	acl-profile <prof-number> create entry <entry-number> acl-profile <prof-number> delete entry <entry-number>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory

3.6.3 acl-profile <prof-number> set entry <entry-number> action copyframe

Description	Set ACL entry action is copy frame.	
Syntax	acl-profile <prof-number> set entry <entry-number> action copyframe	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory

3.6.4 acl-profile <prof-number> set entry <entry-number> action cos <number>

Description	Set ACL entry action is mark CoS number.	
Syntax	acl-profile <prof-number> set entry <entry-number> action cos <number>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	<number>	Valid values: 0~7 Type: Mandatory

3.6.5 acl-profile <prof-number> set entry <entry-number> action forwarding {deny|permit}

Description	Set ACL entry action is forwarding.	
Syntax	acl-profile <prof-number> set entry <entry-number> action forwarding {deny permit}	
Parameter		
	Name	Description

	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	deny permit	Deny or Permit forwarding. Type: Mandatory

3.6.6 acl-profile <prof-number> set entry <entry-number> action queue <number>

Description	Set ACL entry action to specific queue number.	
Syntax	acl-profile <prof-number> set entry <entry-number> action queue <number>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	<number>	Valid values: 0~7 Type: Mandatory

3.6.7 acl-profile <prof-number> set entry <entry-number> ipv4-type set {srcip|dstip} <ipaddr> <mask>

Description	Set IP for ACL IPv4 type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> ipv4-type set {srcip dstip} <ipaddr> <mask>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	srcip dstip	Source / Destination IP Address Type: Mandatory
	<ipaddr>	Valid values: 0.0.0.0 ~ 255.255.255.255 Type: Mandatory
	<mask>	Valid values: 0.0.0.0 ~ 255.255.255.255 Type: Mandatory

3.6.8 acl-profile <prof-number> set entry <entry-number> ipv4-type set ip-protocol <protocol-id>

Description	Set protocol for ACL IPv4 type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> ipv4-type set ip-protocol <protocol-id>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	<protocol-id>	Valid values: 1~255 Type: Mandatory

3.6.9 acl-profile <prof-number> set entry <entry-number> ipv4-type set ip-protocol any

Description	Set protocol for ACL IPv4 type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> ipv4-type set ip-protocol any	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory

3.6.10 acl-profile <prof-number> set entry <entry-number> l4port-type set protocol {tcp|udp}

Description	Set protocol for ACL L4Port type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> l4port-type set protocol {tcp udp}	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	tcp udp	TCP or UDP packet. Type: Mandatory

3.6.11 acl-profile <prof-number> set entry <entry-number> l4port-type set {srcip|dstip} <ipaddr> <mask>

Description	Set IP for ACL L4Port type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> l4port-type set {srcip dstip} <ipaddr> <mask>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	srcip dstip	Source / Destination IP Address Type: Mandatory
	<ipaddr>	Valid values: 0.0.0.0 ~ 255.255.255.255 Type: Mandatory
	<mask>	Valid values: 0.0.0.0 ~ 255.255.255.255 Type: Mandatory

3.6.12 acl-profile <prof-number> set entry <entry-number> l4port-type set {srcport|dstport} <number>

Description	Set port for ACL L4Port type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> l4port-type set {srcport dstport} <number>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory

	<entry-number>	Valid values: 1~16 Type: Mandatory
	srcport dstport	Source / Destination port Type: Mandatory
	<number>	Valid values: 1~65535 Type: Mandatory

3.6.13 acl-profile <prof-number> set entry <entry-number> l4port-type set {srcport|dstport} any

Description	Set port for ACL L4Port type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> l4port-type set {srcport dstport} any	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	srcport dstport	Source / Destination port. Type: Mandatory

3.6.14 acl-profile <prof-number> set entry <entry-number> mac-type set {srcmac|dstmac} <mac> <mask>

Description	Set MAC for ACL MAC type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> mac-type set {srcmac dstmac} <mac> <mask>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	srcmac dstmac	Source / Destination MAC Address Type: Mandatory
	<mac>	Valid values: 00:00:00:00:00:00 ~ FF:FF:FF:FF:FF:FF Type: Mandatory
	<mask>	Valid values: 00:00:00:00:00:00 ~ FF:FF:FF:FF:FF:FF Type: Mandatory

3.6.15 acl-profile <prof-number> set entry <entry-number> mac-type set ethertype <ethertype>

Description	Set ether type for ACL MAC type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> mac-type set ethertype <ethertype>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	<ethertype>	Valid values: 0x0001~0xFFFF Type: Mandatory

3.6.16 acl-profile <prof-number> set entry <entry-number> mac-type set ethertype any

Description	Set ether type for ACL MAC type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> mac-type set ethertype any	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory

3.6.17 acl-profile <prof-number> set entry <entry-number> mac-type set vlan <vlanid>

Description	Set VLAN index for ACL MAC type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> mac-type set vlan <vlanid>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	<vlanid>	Valid values: 1~4094 Type: Mandatory

3.6.18 acl-profile <prof-number> set entry <entry-number> mac-type set vlan any

Description	Set VLAN index for ACL MAC type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> mac-type set vlan any	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory

3.6.19 acl-profile <prof-number> set entry <entry-number> tos-type set {srcip|dstip} <ipaddr> <mask>

Description	Set IP for ACL ToS type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> tos-type set {srcip dstip} <ipaddr> <mask>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	srcip dstip	Source / Destination IP Address Type: Mandatory
	<ipaddr>	Valid values: 0.0.0.0 ~ 255.255.255.255 Type: Mandatory
	<mask>	Valid values: 0.0.0.0 ~ 255.255.255.255 Type: Mandatory

3.6.20 acl-profile <prof-number> set entry <entry -number> tos-type set type {precedence|tos|dscp } <number>

Description	Set type for ACL ToS type entry.	
Syntax	acl-profile <prof-number> set entry <entry -number> tos-type set type {precedence tos dscp } <number>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory
	precedence tos dscp	Precedence or ToS or DSCP Type. Type: Mandatory
	<number>	Precedence type. Valid values: 0~7 Tos type. Valid values: 0~15 DSCP type. Valid values: 0~63 Type: Mandatory

3.6.21 acl-profile <prof-number> set entry <entry-number> tos-type set type any

Description	Set type for ACL ToS type entry.	
Syntax	acl-profile <prof-number> set entry <entry-number> tos-type set type any	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<entry-number>	Valid values: 1~16 Type: Mandatory

3.6.22 acl-profile <prof-number> set name <name>

Description	Set ACL profile name.	
Syntax	acl-profile <prof-number> set name <name>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~17 Type: Mandatory
	<name>	Valid Length: 1~31 Type: Mandatory

3.7 Sch-profile Configure Mode Commands

3.7.1 scheduler-profile <number> method {spq|spq-wrr|wrr}

Description	Set scheduler profile method.	
Syntax	scheduler-profile <number> method {spq spq-wrr wrr}	
Parameter		
	Name	Description
	<number>	Scheduler profile index. Valid values: 2~8 Type: Mandatory
	sp sp-wrr wrr	sp: strict priority sp-wrr: strict priority + weighted round robin wrr: weighted round robin Type: Mandatory

3.7.2 scheduler-profile <prof-number> queue <queue-number> weight <number>

Description	Set scheduler profile queue weight.	
Syntax	scheduler-profile <prof-number> queue <queue-number> weight <number>	
Parameter		
	Name	Description
	<prof-number>	Valid values: 2~8 Type: Mandatory
	<queue-number>	Valid values: 0~7 Type: Mandatory
	<number>	Valid values: 1~255 Type: Mandatory

3.8 Interface VLAN Mode Commands

3.8.1 igmp last-member-query-count <number>

Description	Set IGMP VLAN last member query count.	
Syntax	igmp last-member-query-count <number>	
Parameter		
	Name	Description
	<number>	Valid values: 1~3. Type: Mandatory

3.8.2 igmp last-member-query-interval <number>

Description	Set IGMP VLAN last member query interval.	
Syntax	igmp last-member-query-interval <number>	
Parameter		
	Name	Description
	<number>	Valid values: 1~255 (unit: 100ms). Type: Mandatory

3.8.3 igmp leave-mode {normal|fast}

Description	Set IGMP VLAN leave mode.	
Syntax	igmp leave-mode normal igmp leave-mode fast	
Parameter	None	

3.8.4 igmp max-response-time <number>

Description	Set IGMP VLAN max response time.	
Syntax	igmp max-response-time <number>	
Parameter		
	Name	Description
	<number>	Valid values: 1~255 (unit: 100ms). Type: Mandatory

3.8.5 igmp querier-address

Description	Configure IGMP VLAN querier IP address.	
Syntax	igmp querier-address <ipaddr>	
Parameter		
	Name	Description
	<ipaddr>	IP address (0.0.0.0 ~ 223.255.255.255, default:0.0.0.0)

3.8.6 igmp query-interval <number>

Description	Set IGMP VLAN query interval.	
Syntax	igmp query-interval <number>	
Parameter		
	Name	Description
	<number>	Valid values: 1~1800 (unit: sec). Type: Mandatory

3.8.7 igmp robustness <number>

Description	Set IGMP VLAN robustness.	
Syntax	igmp robustness <number>	

Parameter		
	Name	Description
	<number>	Valid values: 1~3. Type: Mandatory

3.8.8 igmp router-alert-check

Description	Configure to check if received IGMP packet is carrying router-alert option.	
Syntax	igmp router-alert-check disable igmp router-alert-check enable	
Parameter		
	Name	Description
	disable	Don't care router-alert option of received IGMP packet
	enable	Verify router-alert option of received IGMP packet

3.8.9 igmp router-alert-send

Description	Configure to carry router-alert option on IGMP packet or not.	
Syntax	igmp router-alert-send disable igmp router-alert-send enable	
Parameter		
	Name	Description
	disable	Don't carry router-alert option on IGMP packet
	enable	Carry router-alert option on IGMP packet

3.8.10 igmp router-port

Description	Set IGMP VLAN source port.	
Syntax	igmp router-port interface 10GigabitEthernet <portNo> igmp router-port interface gigabitEthernet <portNo> igmp router-port auto	
Parameter		
	Name	Description
	<portNo>	Valid values: 1~max number of the ports Type: Mandatory
	auto	Configure the router-port to be auto learned

3.8.11 igmp router-port

Description	Enable IGMP snooping of unique VLAN.	
Syntax	igmp snooping igmp snooping disable igmp snooping normal igmp snooping proxy igmp snooping querier	
Parameter		
	Name	Description
	disable	Disable IGMP snooping of unique VLAN
	normal	Enable IGMP snooping of unique VLAN as transparent processing
	proxy	Enable IGMP snooping of unique VLAN as proxy processing
	querier	Enable IGMP snooping of unique VLAN as transparent processing and querier

3.8.12 igmp version {v2|v3| v3compatible}

Description	Set IGMP version.
Syntax	igmp version {v2 v3 v3compatible}
Parameter	None

3.8.13 ip-address

Description	Set layer3 IP address for specified VLAN.	
Syntax	ip address <x.x.x.x> <x.x.x.x> ip address dhcp ip address dhcp fallback <ip> <netmask> timeout <seconds>	
Parameter		
	Name	Description
	<x.x.x.x>	IP address in dotted-decimal notation. IP subnet mask in dotted-decimal notation.
	dhcp	Configure dynamic IP address generated by DHCP
	<ip>	Unicast IP address in dotted-decimal notation
	<netmask>	Netmask address in dotted-decimal notation
	<seconds>	Failed retry interval (4 ~ 64)

3.8.14 ip dhcp-client

Description	Configure DHCP client on the VLAN interface	
Syntax	ip dhcp-client broadcast-flag ip dhcp-client broadcast-flag disable ip dhcp-client check-leased-ip ip dhcp-client check-leased-ip disable ip dhcp-client client-id ascii <string> ip dhcp-client client-id hex <string> ip dhcp-client client-id macaddr ip dhcp-client fail-restart-delay <seconds> ip dhcp-client fallback <ip> <netmask> ip dhcp-client hostname <string> ip dhcp-client release ip dhcp-client renew ip dhcp-client retransmit-count <numbers> ip dhcp-client retransmit-interval <seconds> ip dhcp-client retransmit-mode rfc2131 ip dhcp-client retransmit-mode user ip dhcp-client vendor-class-id <string>	
Parameter		
	Name	Description
	broadcast-flag	Set broadcast bit of DHCP request
	check-leased-ip	Check if leased IP is already used by other device
	<string>	ASCII string. (0 ~ 32 characters) Hexadecimal numbers (0 ~ 64 hexadecimal numbers in unit of 2 digital number.) String characters (0 ~ 64 characters) String of DHCP client vendor identifier, default is empty (option60 not taken)(0 ~ 32 characters)
	macaddr	Configure mac address as DHCP client identifier
	<seconds>	Failed retry interval (10 ~ 600)
	<ip>	Unicast IP address in dotted-decimal notation

	<netmask>	Netmask address in dotted-decimal notation
	replace	Free DHCP client processing on the interface. (Note:It will re-process when fail-restart-delay expires.)
	renew	Refresh DHCP client processing on the interface
	<numbers>	Attempt numbers (0 ~ 5)
	<seconds>	Retransmission interval (4 ~ 64 seconds)
	rfc2131	Successive retransmission intervals are doubled as per RFC2131 and Stop when the interval reaches 64 seconds
	user	User specifies the retransmission intervals and DHCP request is transmitted till the retransmission attempt is reached
	disable	Clear broadcast bit of DHCP request Don't care if leased IP is inused

3.8.15 ipv6-address

Description	Configure IPv6 global unicast address on the interface.	
Syntax	ipv6-address <ipv6_subnet>	
Parameter		
	Name	Description
	<ipv6_subnet>	IPv6 prefix x:x::y/z

3.8.16 ipv6-address

Description	Configure IPv6 link-local address on the interface.	
Syntax	ipv6-link-local-address <ipv6_subnet> ipv6-link-local-address auto	
Parameter		
	Name	Description
	<ipv6_subnet>	IPv6 prefix fe80::x/y
	auto	Automatically construct an IPv6 link-local address in the EUI-64 format.

3.9 Ring Group Mode Commands

3.9.1 force-clear-fdb

Description	Enable or disable clear-fdb handling for link-down event of non-ring port
Syntax	force-clear-fdb disable force-clear-fdb enable
Parameter	None

3.9.2 group-id

Description	Configure ring group identifier	
Syntax	group-id <number>	
Parameter		
	Name	Description
	<number>	Group identifier (1 ~ 128)

3.9.3 guardtimer <time>

Description	Set guardtimer	
Syntax	guardtimer <time>	
Parameter		
	Name	Description
	<time>	Second. Range: Default is 10 seconds Valid values: 10~3600 Type: Mandatory

3.9.4 mode enable

Description	Enable ring protect on specific ring group
Syntax	mode enable
Parameter	None

3.9.5 mode disable

Description	Disable ring protect on specific ring group
Syntax	mode disable
Parameter	None

3.9.6 node1 interface

Description	Ring node1 setting	
Syntax	node1 interface 10GigabitEthernet <portNo> node1 interface gigabitEthernet <portNo> node1 interface lag <lagNo>	
Parameter		
	Name	Description
	<portNo>	Port number Valid values: 1 ~ max number of the ports or lag Type: Mandatory

3.9.7 node2 interface

Description	Ring node2 setting	
Syntax	node2 interface 10GigabitEthernet <portNo> node2 interface gigabitEthernet <portNo> node2 interface lag <lagNo>	

Parameter		
	Name	Description
		Port number Valid values: 1 ~ max number of the ports or lag Type: Mandatory

3.9.8 role ring-auto

Description	Configure the ring group to process ring-master election	
Syntax	role ring-auto role ring-auto discovery-interval <time> role ring-auto preempt role ring-auto preempt disable role ring-auto priority <value> role ring-auto skew-interval <time>	
Parameter		
	Name	Description
	<time>	Time interval (1 ~ 600, unit:100ms)
	preempt	Current auto-master can be preempted by the device with higher priority
	disable	Current auto-master can not be preempted till it is down
	<value>	Priority (0 ~ 65534)

3.9.9 role balancing-chain-terminal-1

Description	Configure the role of ring group as Terminal 1 of the Balancing Chain
Syntax	role balancing-chain-terminal-1
Parameter	None

3.9.10 role balancing-chain-terminal-2

Description	Configure the role of ring group as Terminal 2 of the Balancing Chain
Syntax	role balancing-chain-terminal-2
Parameter	None

3.9.11 role balancing-chain-member

Description	Configure the role of ring group as Member of the Balancing Chain
Syntax	role balancing-chain-member
Parameter	None

3.9.12 role balancing-chain-central-block

Description	Configure the role of ring group as Central Block of the Balancing Chain
Syntax	role balancing-chain-central-block
Parameter	None

3.9.13 role coupling-primary

Description	Configure the role of ring group as Primary of the Coupling
Syntax	role coupling-primary
Parameter	None

3.9.14 role coupling-backup

Description	Configure the role of ring group as Backup of the Coupling
Syntax	role coupling-backup
Parameter	None

3.9.15 role chain-head

Description	Configure the role of ring group as Head of the Chain
Syntax	role chain-head
Parameter	None

3.9.16 role chain-tail

Description	Configure the role of ring group as Tail of the Chain
Syntax	role chain-tail
Parameter	None

3.9.17 role chain-member

Description	Configure the role of ring group as Member of the Chain
Syntax	role chain-member
Parameter	None

3.9.18 role dual-homing

Description	Configure the role of ring group as Dual Homing
Syntax	role dual-homing
Parameter	None

3.9.19 role ring-master

Description	Configure the role of ring group as Master of the Ring
Syntax	role ring-master
Parameter	None

3.9.20 role ring-slave

Description	Configure the role of ring group as Slave of the Ring
Syntax	role ring-slave
Parameter	None

3.9.21 sf-detect

Description	Configure SF detect parameters	
Syntax	sf-detect interval <number> sf-detect robustness <number>	
Parameter		
	Name	Description
	<number>	Interval (0 ~ 100)(unit:50ms) Robustness (1 ~ 20)

3.10 IGMP MVR Mode Commands

3.10.1 igmp-mvr <number,2..15> {create|delete}

Description	Create / delete IGMP MVR profile.	
Syntax	igmp-mvr <number,2..15> {create delete}	
Parameter		
	Name	Description
	<number>	IGMP MVR profile index. Valid values: 2~15 Type: Mandatory

3.10.2 igmp-mvr <p-number> entry <e-number> <startIP> <endIP> <vid>

Description	Create IGMP MVR entry.	
Syntax	igmp-mvr <p-number> entry <e-number> <startIP> <endIP> <vid>	
Parameter		
	Name	Description
	<p-number>	IGMP MVR profile index. Valid values: 2~15 Type: Mandatory
	<e-number>	IGMP MVR entry index. Valid values: 1~32 Type: Mandatory
	<startIP> <endIP>	IP address. Valid values: 224.0.1.0~239.255.255.255 Type: Mandatory
	<vid>	VLAN ID. Valid values: 1~4094 Type: Mandatory

3.10.3 igmp-mvr <p-number> entry <e-number> delete

Description	Delete IGMP MVR entry.	
Syntax	igmp-mvr <p-number> entry <e-number> delete	
Parameter		
	Name	Description
	<p-number>	IGMP MVR profile index. Valid values: 2~15 Type: Mandatory
	<e-number>	IGMP MVR entry index. Valid values: 1~32 Type: Mandatory

3.11 IGMP ACL Mode Commands

3.11.1 igmp-acl <number> {create|delete}

Description	Create / delete IGMP ACL profile.	
Syntax	igmp-acl <number> {create delete}	
Parameter		
	Name	Description
	<number>	IGMP ACL profile index. Valid values: 2~15 Type: Mandatory

3.11.2 igmp-acl <number> {default-deny| default-permit}

Description	Set IGMP ACL default rule.	
Syntax	igmp-acl <number> {default-deny default-permit}	
Parameter		
	Name	Description
	<number>	IGMP ACL profile index. Valid values: 2~15 Type: Mandatory

3.11.3 igmp-acl <p-number> entry

Description	Create IGMP ACL entry.	
Syntax	igmp-acl <p-number> entry <e-number> <startIP> <endIP> {<vid> any} {permit deny}	
Parameter		
	Name	Description
	<p-number>	IGMP ACL profile index. Valid values: 2~15 Type: Mandatory
	<e-number>	IGMP MVR entry index. Valid values: 1~32 Type: Mandatory
	<startIP> <endIP>	IP address. Valid values: 224.0.1.0~239.255.255.255 Type: Mandatory
	<vid>	VLAN ID. Valid values: 1~4094 Type: Mandatory

3.11.4 igmp-acl <p-number> entry <e-number> delete

Description	Delete IGMP ACL entry	
Syntax	igmp-acl <p-number> entry <e-number> delete	
Parameter		
	Name	Description
	<p-number>	IGMP ACL profile index. Valid values: 2~15 Type: Mandatory
	<e-number>	IGMP MVR entry index. Valid values: 1~32 Type: Mandatory

3.12 Profile Alarm Command

3.12.1 alarm <alarmid> {mask|unmask|major|minor}

Description	Configure an alarm profile entry (default setting for each alarm is unmask and minor)	
Syntax	alarm <alarmid> mask alarm <alarmid> unmask alarm <alarmid> major alarm <alarmid> minor	
Parameter		
	Name	Description
	<alarmid>	Alarm ID Valid values: Refer to. Alarm Table Type: Mandatory
	mask	Mask this alarm Type: Mandatory
	unmask	Unmask this alarm Type: Mandatory
	major	Set alarm level to major Type: Mandatory
	minor	Set alarm level to minor Type: Mandatory

3.13 Profile Event Command

3.13.1 event

Description	Configure an event profile entry	
Syntax	event <eventid> level major event <eventid> level minor event <eventid> logging <methods> event <eventid> mask event <eventid> severity emergency event <eventid> severity alert event <eventid> severity critical event <eventid> severity error event <eventid> severity warning event <eventid> severity notice event <eventid> severity info event <eventid> unmask	
Parameter		
	Name	Description
	<eventid>	Range: 1 ~ 48
	major	Set event level to major
	minor	Set event level to minor
	<methods>	Bitmap - LoggingToServer(0) / LoggingOnTerminal(1) / LoggingToStorage(2)
	mask	Mask this event
	emergency	Set syslog severity to emergency
	alert	Set syslog severity to alert
	critical	Set syslog severity to critical
	error	Set syslog severity to error

	warning	Set syslog severity to warning
	notice	Set syslog severity to notice
	info	Set syslog severity to info
	unmask	Unmask this event

3.13.2 event-monitor

Description	Configure an event profile entry	
Syntax	event-monitor cpu threshold <threshold> event-monitor high-temperature alert-delay <time> event-monitor high-temperature threshold <threshold> event-monitor low-temperature alert-delay <time> event-monitor low-temperature threshold <threshold> event-monitor memory threshold <threshold> event-monitor rx-traffic-loading alert-delay <seconds> event-monitor rx-traffic-loading threshold <threshold> event-monitor tx-traffic-loading alert-delay <seconds> event-monitor tx-traffic-loading threshold <threshold>	
Parameter		
	Name	Description
	<threshold>	Threshold percentage value (50 ~ 90 %) Threshold value (-55 ~ 85 degrees Centigrade) Threshold value (-55 ~ 85 degrees Centigrade)
	<time>	Time value (1 ~ 255 seconds)
	<seconds>	Time value (10 ~ 300)

3.14 ERPS Group Command

3.14.1 erps action

Description	Set up ERPS action	
Syntax	erps <action> interface <interfaceType> <interface> erps <action> interface <interfaceType> <interface> clear	
Parameter		
	Name	Description
	<action>	force Perform Force Switch manual Perform Manual Switch none Set ERPS ring role None related configuration. owner Set ERPS ring role Owner related configuration. neighbor Set ERPS ring role Neighbor related configuration.
	<interfaceType>	Select port type
	<interface>	1~max number of the ports
	clear	Clear action

3.14.2 erps clear

Description	Set ERPS ring action clear
Syntax	erps clear
Parameter	None

3.14.3 erps group

Description	Set ERPS ring group related configuration.	
Syntax	erps group active erps group inactive	
Parameter		
	Name	Description
	active	Set ERPS group active
	inactive	Set ERPS group inactive

3.14.4 erps interface

Description	Set ERPS first ring port configuration	
Syntax	erps interface <interfaceType> <interface> interface <interfaceType2> <interface2> vlan <vlanid> erps interface <interfaceType> <interface> vlan <vlanid>	
Parameter		
	Name	Description
	<interfaceType>	Select port type
	<interface>	1~max number of the ports
	<interfaceType2>	Select port type
	<interface2>	1~max number of the ports
	<vlanid>	VLAN ID (1 ~ 4094)

3.14.5 erps main ring id

Description	Set ERPS ring main related configuration
Syntax	erps main ring id <number>

Parameter		
	Name	Description
	<number>	Main Ring ID (1 ~ 4294967295)

3.14.6 erps major-ring

Description	Set ERPS ring type.	
Syntax	erps major-ring	
Parameter	None	

3.14.7 erps mep

Description	Set ERPS mep related configuration	
Syntax	erps mep <value> erps mep <value> <value>	
Parameter		
	Name	Description
	<value>	Set ERPS mep configuration, value range is 1-8191

3.14.8 erps propagate-tc

Description	Set ERPS ring propagate-tc related configuration	
Syntax	erps propagate-tc ring-ids <number> disable erps propagate-tc ring-ids <number> enable	
Parameter		
	Name	Description
	<number>	Set ERPS ring propagate-tc ring-ids related configuration, value range is 1-4294967295
	disbale	Set ERPS ring propagate-tc ring-ids to disable
	enable	Set ERPS ring propagate-tc ring-ids to enable

3.14.9 erps revert

Description	Set ERPS operating Mode	
Syntax	erps revert disable erps revert wtr <value>	
Parameter		
	Name	Description
	disbale	Set ERPS operating Mode to 'Non-Revertive'
	<value>	WTR Timer Interval (1 ~ 12, unit: minutes, default: 1)

3.14.10 erps sub-ring

Description	Set ERPS ring type, default is major-ring	
Syntax	erps sub-ring	
Parameter	None	

3.14.11 erps timers

Description	Set ERPS timers related configuration.	
Syntax	erps timers guard <value> erps timers hold-off <value> erps timers wtb <value>	
Parameter		
	Name	Description
	<value>	Guard Timer Interval (10 ~ 2000, unit: ms, step: 10 ms, default: 500)

		Hold-Off Timer Interval (0 ~ 10000, unit: ms, step: 100 ms, default: 0) WTB Timer Interval (5010 ~ 7000, unit: ms, default: 5500)
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3.14.12 erps version

Description	Set ERPS version related configuration	
Syntax	erps version v1 erps version v2	
Parameter		
	Name	Description
	v1	Set ERPS version to v1
	v2	Set ERPS version to v2

3.14.13 erps virtual-channel

Description	Set ERPS virtual-channel related configuration	
Syntax	erps virtual-channel disable erps virtual-channel enable	
Parameter		
	Name	Description
	disable	Disable virtual channel
	enable	Enable virtual channel

3.15 DHCP Pool Command

3.15.1 address-range

Description	Configure Pool's address range	
Syntax	address-range <x.x.x.x> address-range <x.x.x.x> <x.x.x.x> address-range <x.x.x.x> <x.x.x.x> disable address-range <x.x.x.x> disable	
Parameter		
	Name	Description
	<x.x.x.x>	Start IP address End IP address
	disable	Remove the address range

3.15.2 class

Description	Configure a class	
Syntax	class <index> address-range <x.x.x.x> class <index> address-range <x.x.x.x> <x.x.x.x> class <index> remove	
Parameter		
	Name	Description
	<index>	Class identifier (1 ~ 128)
	<x.x.x.x>	Start IP address of the range End IP address of the range
	remove	Remove the class from DHCP pool

3.15.3 default-router

Description	Configure IP address of default router	
Syntax	default-router <x.x.x.x>	
Parameter		
	Name	Description
	<x.x.x.x>	IP address in dotted-decimal notation

3.15.4 dns-server

Description	Configure IP address of DNS server	
Syntax	dns-server <x.x.x.x>	
Parameter		
	Name	Description
	<x.x.x.x>	IP address in dotted-decimal notation

3.15.5 domain-name

Description	Configure domain name	
Syntax	domain-name <string>	
Parameter		
	Name	Description
	<string>	Domain name (0 ~ 64 characters)

3.15.6 lease

Description	Address lease time	
Syntax	lease <60-31536000>	
Parameter		

	Name	Description
	<60-31536000>	<60-31536000> Seconds

3.15.7 network

Description	Configure Pool's network number	
Syntax	network <x.x.x.x> <x.x.x.x>	
Parameter		
	Name	Description
	<x.x.x.x>	Network number in dotted-decimal notation Network mask in dotted-decimal notation

3.16 DHCP Class Command

3.16.1 agent-circuit-id

Description	Configure agent circuit identifier of DHCP option82	
Syntax	agent-circuit-id <string>	
Parameter		
	Name	Description
	<string>	Circuit identifier string (1 ~ 32 characters)

3.16.2 agent-remote-id

Description	Configure agent remote identifier of DHCP option82	
Syntax	agent-remote-id <string>	
Parameter		
	Name	Description
	<string>	Remote identifier ascii string (1 ~ 32 characters)

3.16.3 client-id

Description	Configure circuit identifier of DHCP option61	
Syntax	client-id hwaddr <xx:xx:xx:xx:xx:xx> client-id user-ascii <string> client-id user-hex <string>	
Parameter		
	Name	Description
	<xx:xx:xx:xx:xx:xx>	Six groups of two hexadecimal digits separated by colons (:)
	<string>	Client identifier ascii string (1 ~ 32 characters) Client identifier hex string (1 ~ 32 characters)